



**MEGADYNE**



EN

**MEGASYNC™**

TECHNICAL  
HANDBOOK

# INDEX

|  |           |
|--|-----------|
| Introduction to Megadyne MEGASYNC™ belts | <b>2</b>  |
| Classifications                          | <b>4</b>  |
| Technical calculation                    | <b>6</b>  |
| Calculation example                      | <b>24</b> |
| Forces on shaft and bearings             | <b>28</b> |
| Causes of belt failure                   | <b>29</b> |
| Center distance tables                   | <b>30</b> |
| Belt data                                |           |
| Megadyne MEGASYNC™ Imperial              | <b>50</b> |
| MXL                                      | <b>54</b> |
| XL - XL DD                               | <b>55</b> |
| L - L DD                                 | <b>56</b> |
| H - H DD                                 | <b>57</b> |
| XH                                       | <b>58</b> |
| XXH                                      | <b>59</b> |
| Megadyne MEGASYNC™ STD - HTB             | <b>60</b> |
| Megadyne MEGASYNC™ RPP - RPP DD          | <b>63</b> |
| RPP3                                     | <b>67</b> |
| RPP5 - RPP5 DD                           | <b>68</b> |
| RPP8 - RPP8 DD                           | <b>69</b> |
| RPP14 - RPP14 DD                         | <b>70</b> |
| Megadyne MEGASYNC™ Silver3               | <b>71</b> |
| Silver3 5M                               | <b>76</b> |
| Silver3 8M                               | <b>77</b> |
| Silver3 14M                              | <b>78</b> |
| Megadyne MEGASYNC™ Gold2                 | <b>79</b> |
| Gold2 5M                                 | <b>83</b> |
| Gold2 8M                                 | <b>84</b> |
| Gold2 14M                                | <b>85</b> |
| Megadyne MEGASYNC™ Titanium              | <b>87</b> |
| Titanium 8M                              | <b>92</b> |
| Titanium 14M                             | <b>93</b> |
| Special execution feasibility            | <b>94</b> |
| Useful formulas and conversion table     | <b>95</b> |
| Data sheet                               | <b>96</b> |

# INTRODUCTION

## TO MEGADYNE MEGASYNC™ BELTS

In order to improve and make the designers' job easier, Megadyne has decided to simplify and reorganize most of the rubber endless timing belts in just one calculation handbook.

### INTRODUCING THE COMPLETE MEGADYNE MEGASYNC™ FAMILY OF BELTS.

In the following pages you will find all the needed information regarding technical calculation, sizes and data about Megadyne MEGASYNC™ Imperial, STD and HTB, Silver, Gold and Titanium.

Our wide range of products with different power ratings and several structures allows Megadyne to always find the best solution for a very wide spectrum of applications.



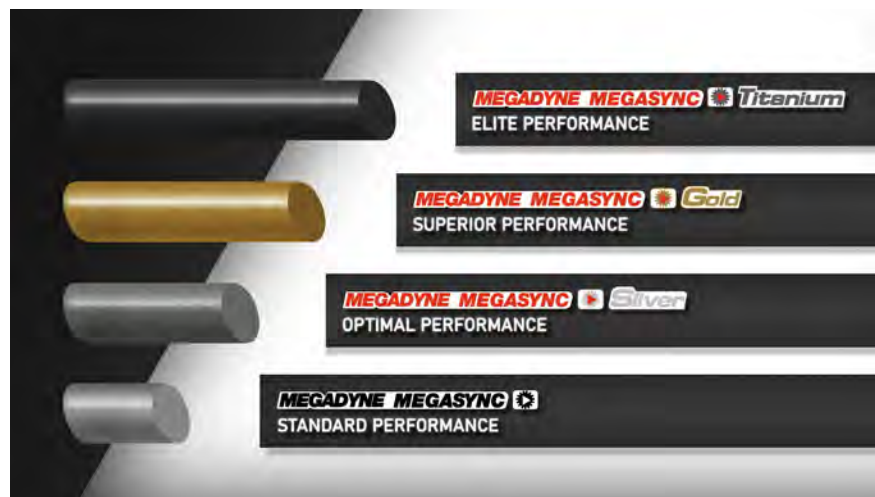
Thanks to their features, Megadyne's rubber endless timing belts can be used in a very wide range of applications like power transmission (or conveyor) such as:

- Appliances
- HVAC
- Pellet extruder machines
- Wood cutting machines
- Dobby loom machines
- Food mixers
- Cooling systems
- Radio controlled cars
- Power wheelchair
- Flexible packaging machines
- Carton industry
- Marble industry
- Heavy industry, in general.

### NEW MEGADYNE MEGASYNC™ LABELS



### PERFORMANCE COMPARISON





# INTRODUCTION

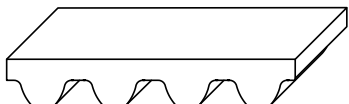
## STANDARD RANGE



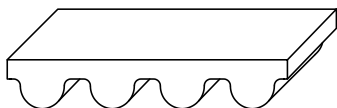
MXL • XL • L • H • XH • XXH



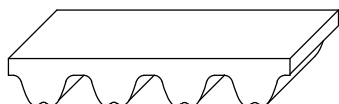
XL DD • L DD • H DD



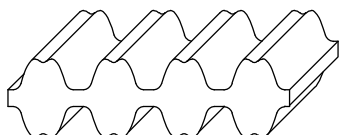
STD 8M



HTB 3M • HTB 5M • HTB 8M • HTB 14M

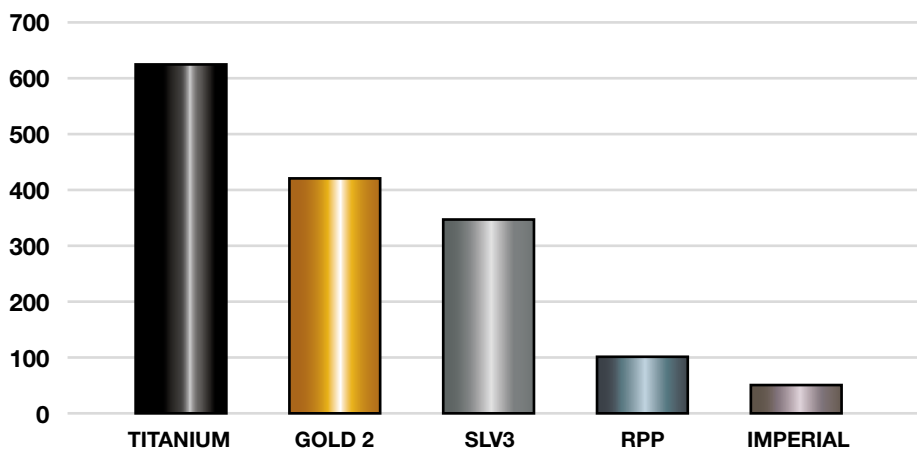


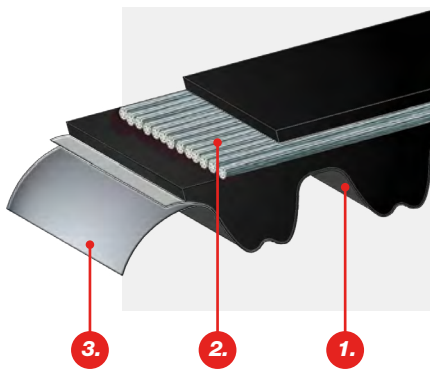
RPP3 • RPP5 • RPP8 • RPP14 • SLV3 5M • SLV3 8M  
SLV3 14M • GLD2 5M • GLD2 8M • GLD2 14M • TTM8 • TTM14



RPP5 DD • RPP8 DD • RPP14 DD  
(SLV3 8M DD • SLV3 14M DD • GLD2 8M DD • GLD2 14M DD on demand)

## PERFORMANCE COMPARISON INDEX





# CLASSIFICATIONS

## CLASSIFICATIONS

MEGASYNC™ is the new family name for our rubber synchronous belt products.

With the right selection of belt, Megadyne synchronous belts can replace gears, chain and other styles of belt delivering high performance, lubrication-free operating, quiet and long-lasting drive performance.

These belts allow:

- synchronous transmission
- high and constant angular speeds
- high efficiency
- resistance to peak loads
- low-noise transmission
- no lubrication
- low maintenance
- linear speed up to 30 m/s

**1. The body** is made of high-quality rubber compound having:

- high-fatigue resistance
- high resistance to heat and environmental agents
- good resistance to mineral oils
- long-lasting wear and abrasion resistance

Hardness changes according to the kind of belt:

- 74 ShA for MEGASYNC™ Imperial (and Imperial DD), RPP (and RPP DD), STD, HTB
- 90 ShA for MEGASYNC™ Silver3 and Gold2
- 92 ShA for MEGASYNC™ Titanium

MEGASYNC™ Silver3 and Gold2 belts have higher quality and special compound to achieve higher performances.

MEGASYNC™ Titanium is made of HNBR compound which increases the teeth rigidity, shear resistance and decreases the flex fatigue effect.

**2. Tensile member** is made of high modulus cords, S and Z twisted, which grant:

- high breaking strength
- very good resistance to stresses
- no elongation over time
- very good adhesion with the belt body compound

MEGASYNC™ Imperial, RPP, STD, HTB, and Silver3 have fiberglass cord.

MEGASYNC™ Gold2 belts have special high power K-glass cords.

Titanium tensile member is made with carbon cord technology.

**3. Nylon fabric on the teeth** is treated to improve lubrication during operation; this allows:

- extreme abrasion resistance
- low-friction coefficient
- high transmission efficiency
- long belt and pulley operational lifetime



# CLASSIFICATIONS

## COATING

Megadyne MEGASYNC™ can be manufactured with special coating on the back side. Please check with our Application Department for more details.

## BELT SPECIFICATION

### BELT PITCH:

the distance P in millimeters between two adjacent tooth Centres as measured along the pitch line of the belt.

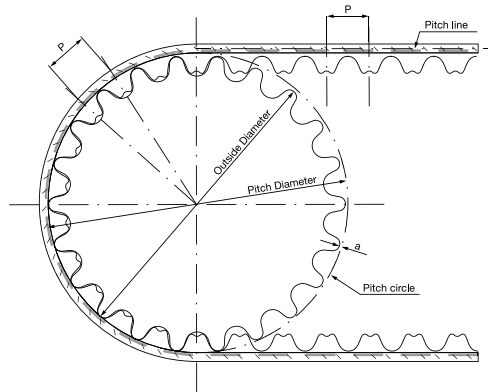
### BELT PITCH LENGTH:

the total length (circumference) of the belt in millimeters as measured along the pitch line (the theoretical pitch line lies within the tensile member).

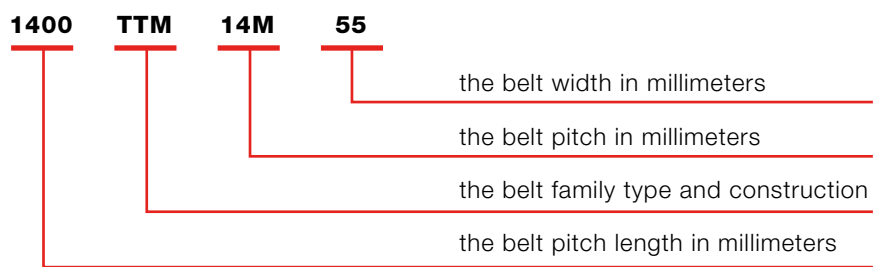
The pitch length is a value used to identify the length of a synchronous belt.

### BELT WIDTH:

the width of the belt measured in millimeters.



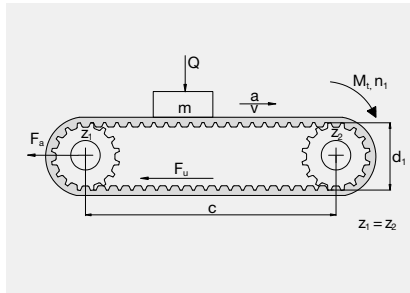
The belt is consequently identified and coded as follow:



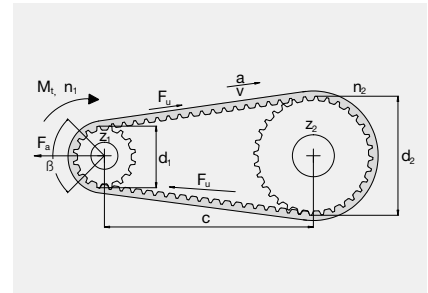
# TECHNICAL CALCULATION

## DRIVE CALCULATION PROCEDURE

### CONVEYOR BELTS



### POWER TRANSMISSION



| SYMBOL                   | UNIT             | DEFINITION                                      |
|--------------------------|------------------|---|
| <b>b</b>                 | mm               | belt width                                      |
| <b>L</b>                 | mm               | belt length                                     |
| <b>L<sub>c</sub></b>     | mm               | actual selected length                          |
| <b>c</b>                 | mm               | centre distance                                 |
| <b>c<sub>t</sub></b>     | teeth            | centre distance measured in teeth               |
| <b>d<sub>1</sub></b>     | mm               | diameter of DriveR pulley                       |
| <b>d<sub>2</sub></b>     | mm               | diameter of DriveN pulley                       |
| <b>d<sub>s</sub></b>     | mm               | diameter of Smaller pulley                      |
| <b>d<sub>l</sub></b>     | mm               | diameter of Larger pulley                       |
| <b>z<sub>1</sub></b>     | teeth            | teeth of DriveR pulley                          |
| <b>z<sub>2</sub></b>     | teeth            | teeth of DriveN pulley                          |
| <b>z<sub>s</sub></b>     | teeth            | teeth of Smaller pulley                         |
| <b>z<sub>l</sub></b>     | teeth            | teeth of Larger pulley                          |
| <b>z<sub>b</sub></b>     | teeth            | number of belt teeth                            |
| <b>z<sub>m</sub></b>     | teeth            | number of teeth in mesh                         |
| <b>n<sub>1</sub></b>     | rpm              | revolution/min [RPM] of the DriveR pulley       |
| <b>n<sub>2</sub></b>     | rpm              | revolution/min [RPM] of the DriveN pulley       |
| <b>n<sub>s</sub></b>     | rpm              | revolution/min [RPM] of the Smaller pulley      |
| <b>n<sub>l</sub></b>     | rpm              | revolution/min [RPM] of the Larger pulley       |
| <b>m</b>                 | kg               | total conveyed mass                             |
| <b>a</b>                 | m/s <sup>2</sup> | acceleration                                    |
| <b>v</b>                 | m/s              | belt linear speed                               |
| <b>g</b>                 | m/s <sup>2</sup> | gravity (9,81)                                  |
| <b>F<sub>s</sub></b>     | /                | service factor                                  |
| <b>μ</b>                 | /                | coefficient of friction between belt and guide  |
| <b>T<sub>s</sub></b>     | N                | pretension                                      |
| <b>i</b>                 | /                | speed ratio                                     |
| <b>m<sub>1</sub></b>     | kg/m             | belt mass per unit length                       |
| <b>f</b>                 | mm               | deflection distance                             |
| <b>fr</b>                | Hz               | belt natural frequency measured with instrument |
| <b>P</b>                 | kW               | motor power                                     |
| <b>P<sub>a</sub></b>     | kW               | absorbed power                                  |
| <b>P<sub>b</sub></b>     | kW               | basic belt performance                          |
| <b>P<sub>ba</sub></b>    | kW               | actual power rating                             |
| <b>P<sub>c</sub></b>     | kW               | design power                                    |
| <b>MTL</b>               | N                | max traction load                               |
| <b>BS</b>                | N                | breaking strength                               |
| <b>F<sub>U</sub></b>     | N                | peripheral force                                |
| <b>F<sub>pspec</sub></b> | N/cm             | transmittable force per tooth per unit          |
| <b>Q</b>                 | N                | force exerted by mass (m)                       |
| <b>M<sub>t</sub></b>     | Nm               | drive torque                                    |
| <b>F<sub>a</sub></b>     | N                | static axial tension                            |



# TECHNICAL CALCULATION

## STEP 1 - CALCULATION OF TRANSMITTED POWER

From Table 2 on page 7 select the appropriate service factor  $F_s$  according to:

- the type of the driven machine
- the engine class, depending on the ratio between the peak load over the rated load
- the service conditions (duty cycle category)

If you are designing a drive with a speed up ratio ( $i = n_1 / n_2 < 1$ ) you need to consider the correction factor  $C_m$  as reported in the following Table 1:

| TABLE 1 - $C_m$ FACTOR        |       |
|-------------------------------|-------|
| SPEED RATIO ( $i = N1 / N2$ ) | $C_m$ |
| $\geq 0,8$                    | 0     |
| $0,79 \div 0,58$              | +0,1  |
| $0,57 \div 0,40$              | +0,2  |
| $0,39 \div 0,28$              | +0,3  |
| $\leq 0,28$                   | +0,4  |

The corrected service factor  $C_c$  will be:

$$C_c = F_s + C_m \quad [1]$$

The design power  $P_c$  is obtained by multiplying the input power with the corrected service factor:

$$P_c = P \cdot C_c \quad [2]$$





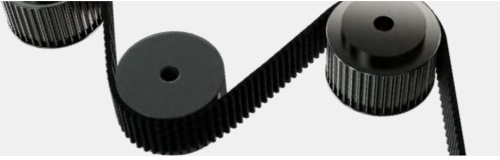
# TECHNICAL CALCULATION

**TABLE 2 - SERVICE FACTOR  $F_s$**

| DRIVER MACHINE  |  |  |
|---|--|--|
| CLASS A   | CLASS B  | CLASS C  |
| Overload peak up to 149% of the rated load  | Overload peak from 150% up to 249% of the rated load   | Overload peak from 250% up to 400% of the rated load   |
| <ul style="list-style-type: none"> <li>AC Motor: asynchronous Star-Delta starting</li> <li>DC Motor: shunt wound</li> <li>Internal combustion engines: 8 cyl. and up</li> </ul> | <ul style="list-style-type: none"> <li>AC Motor: asynchronous direct switch starting</li> <li>Synchronous: normal torque</li> <li>DC Motor: compound wound</li> <li>Internal combustion engines: 6 cyl.</li> </ul> | <ul style="list-style-type: none"> <li>AC Motor: single phase; all asynchronous: double cage motors</li> <li>Synchronous: high torque</li> <li>DC Motor: series wound</li> <li>Internal combustion engines: 4 cyl.</li> <li>Hydraulic motors, line shafts</li> </ul> |

*NOTE: these service factors are adequate for most belt drive applications. Service factors can be substituted only where the input data and the working conditions are exactly known. In this case service factors may be adjusted based upon an understanding of the severity of actual drive operating conditions.*

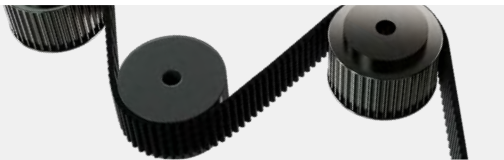
# TECHNICAL CALCULATION



|   | DUTY CYCLE CATEGORY   |                     |                    |                       |                     |                    |                       |                     |                    |
|---|-----------------------|---------------------|--------------------|-----------------------|---------------------|--------------------|-----------------------|---------------------|--------------------|
|   | INTER-MITTENT SERVICE | NORMAL SERVICE      | CONTINUOUS SERVICE | INTER-MITTENT SERVICE | NORMAL SERVICE      | CONTINUOUS SERVICE | INTER-MITTENT SERVICE | NORMAL SERVICE      | CONTINUOUS SERVICE |
| <b>DRIVEN MACHINE</b>   | < 8 HOURS DAILY       | 8 TO 16 HOURS DAILY | > 16 HOURS DAILY   | < 8 HOURS DAILY       | 8 TO 16 HOURS DAILY | > 16 HOURS DAILY   | < 8 HOURS DAILY       | 8 TO 16 HOURS DAILY | > 16 HOURS DAILY   |
| <b>Category 1: LOW UNIFORM LOAD/TORQUE</b><br>Office equipment. Measuring equipment. Instrumentation. Display equipment. Laundry machinery (general). Line shaft. Agitators and mixers for liquids. Bakery machines. Conveyors: belt, light package, oven belt (ore, coal, sand). | 1,3                   | 1,4                 | 1,5                | 1,5                   | 1,6                 | 1,7                | 1,7                   | 1,8                 | 1,9                |
| <b>Category 2: MEDIUM UNIFORM LOAD/TORQUE</b><br>Light woodworking equipment: lathes, band saws. Agitators, mixers for semi-liquid. Screens: drum, conical. Machine tools: lathes, drill presses, screw machines.   | 1,4                   | 1,5                 | 1,6                | 1,6                   | 1,7                 | 1,8                | 1,8                   | 1,9                 | 2,0                |

|  | DUTY CYCLE CATEGORY   |                     |                    |                       |                     |                    |                       |                     |                    |
|--|-----------------------|---------------------|--------------------|-----------------------|---------------------|--------------------|-----------------------|---------------------|--------------------|
|  | INTER-MITTENT SERVICE | NORMAL SERVICE      | CONTINUOUS SERVICE | INTER-MITTENT SERVICE | NORMAL SERVICE      | CONTINUOUS SERVICE | INTER-MITTENT SERVICE | NORMAL SERVICE      | CONTINUOUS SERVICE |
| <b>DRIVEN MACHINE</b>  | < 8 HOURS DAILY       | 8 TO 16 HOURS DAILY | > 16 HOURS DAILY   | < 8 HOURS DAILY       | 8 TO 16 HOURS DAILY | > 16 HOURS DAILY   | < 8 HOURS DAILY       | 8 TO 16 HOURS DAILY | > 16 HOURS DAILY   |
| <b>Category 3: NOT UNIFORM LOAD/TORQUE</b><br>Textile machinery: spinning frames, twistors warpers, warping machines. Heavy woodworking equipment: jointer, circular saws, planes. Laundry machinery: extractors, washers. Machinery for rubber processing. Machine tools: grinders, milling machines, shapers. Conveyors: apron, bucket, elevators, screw. Centrifugal compressors: hoist, elevators, generators and exciters. Printing machinery. Fans, blowers: centrifugal, induced, draft exhausters, propeller, mine fans. | 1,5                   | 1,6                 | 1,7                | 1,7                   | 1,8                 | 1,9                | 1,9                   | 2,0                 | 2,1                |
| <b>Category 4: SHOCK LOAD/TORQUE</b><br>Textile machinery: dobbies, looms. Hammer mills. Paper machinery. Positive fan blowers. Reciprocating compressors. Machinery for pottery and earthenware. Centrifuges.   | 1,7                   | 1,8                 | 1,9                | 1,9                   | 2,0                 | 2,1                | 2,1                   | 2,2                 | 2,3                |
| <b>Category 5: HIGH UNIFORM LOAD/TORQUE</b><br>Crushers: roll, ball, jaw. Mills: ball, rod, pebble, etc. Reciprocating pumps. Saw mill equipment.  | 1,9                   | 2,0                 | 2,1                | 2,1                   | 2,2                 | 2,3                | 2,3                   | 2,4                 | 2,5                |
| <b>With reverse bending</b><br>(eg. external idler)  | +0,1                  |                     |                    |                       |                     |                    |                       |                     |                    |

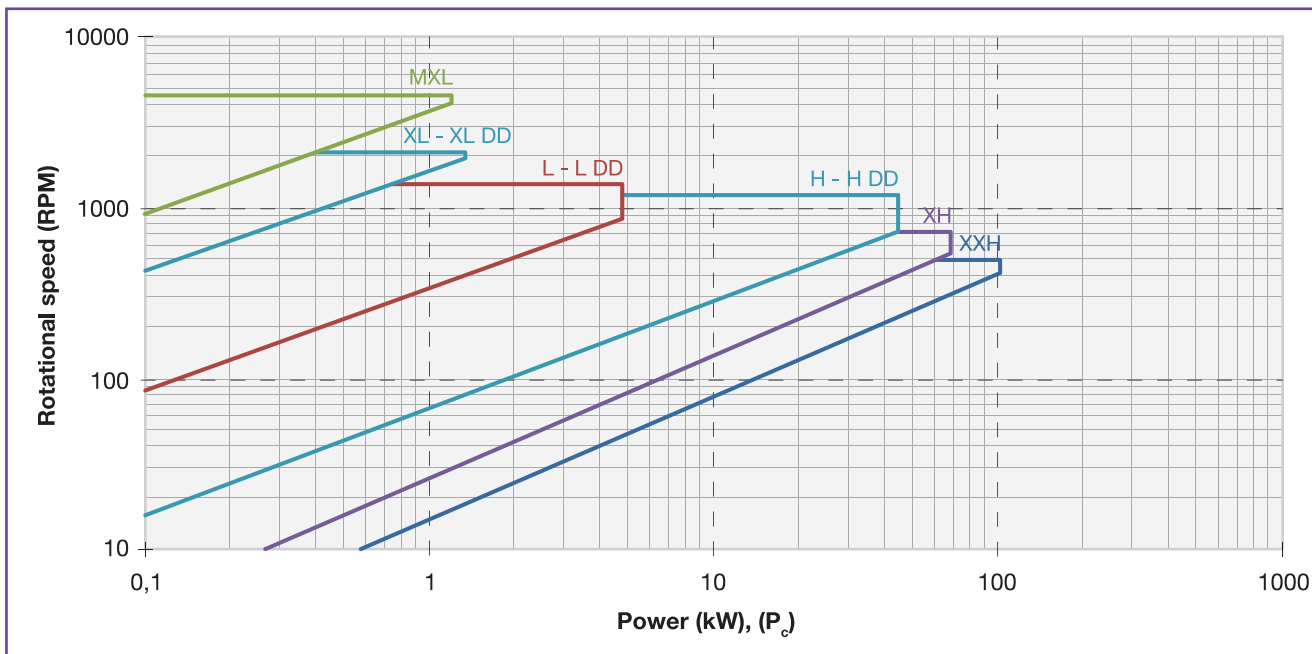
*NOTE: these service factors are adequate for most belt drive applications. Service factors can be substituted only where the input data and the working conditions are exactly known. In this case service factors may be adjusted based upon an understanding of the severity of actual drive operating conditions.*



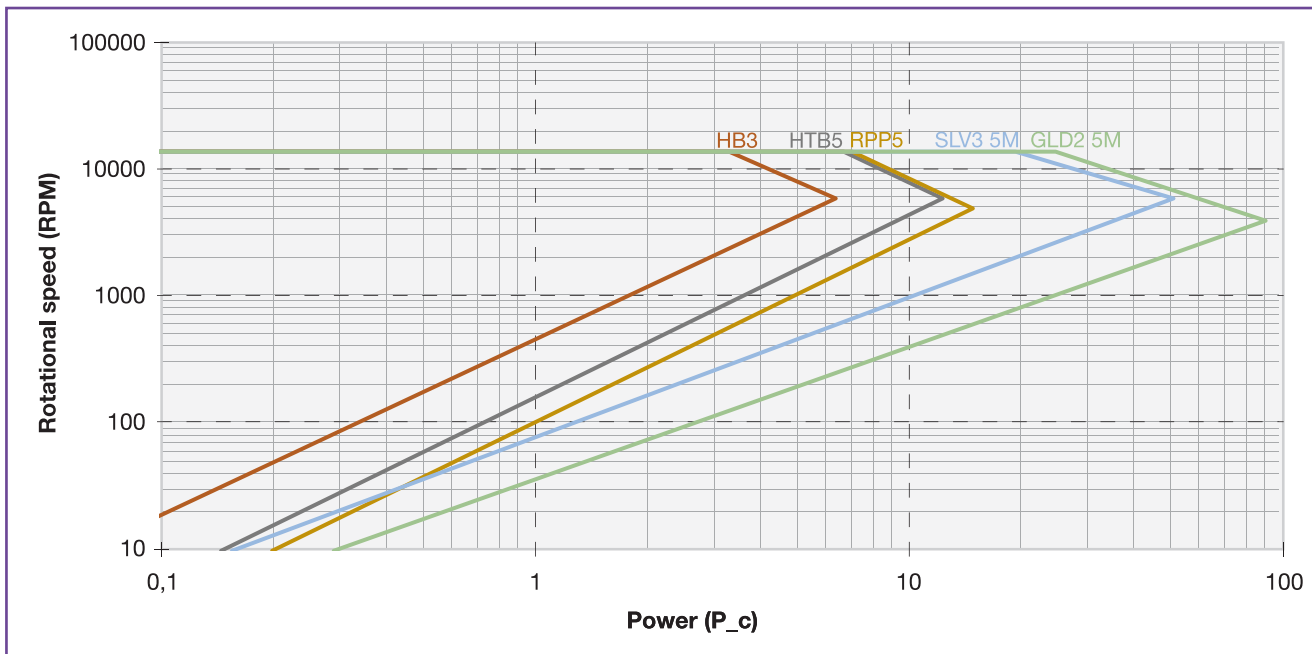
# TECHNICAL CALCULATION

## STEP 2 - BELT PITCH SELECTION

### MEGADYNE AND MEGASYNC DD

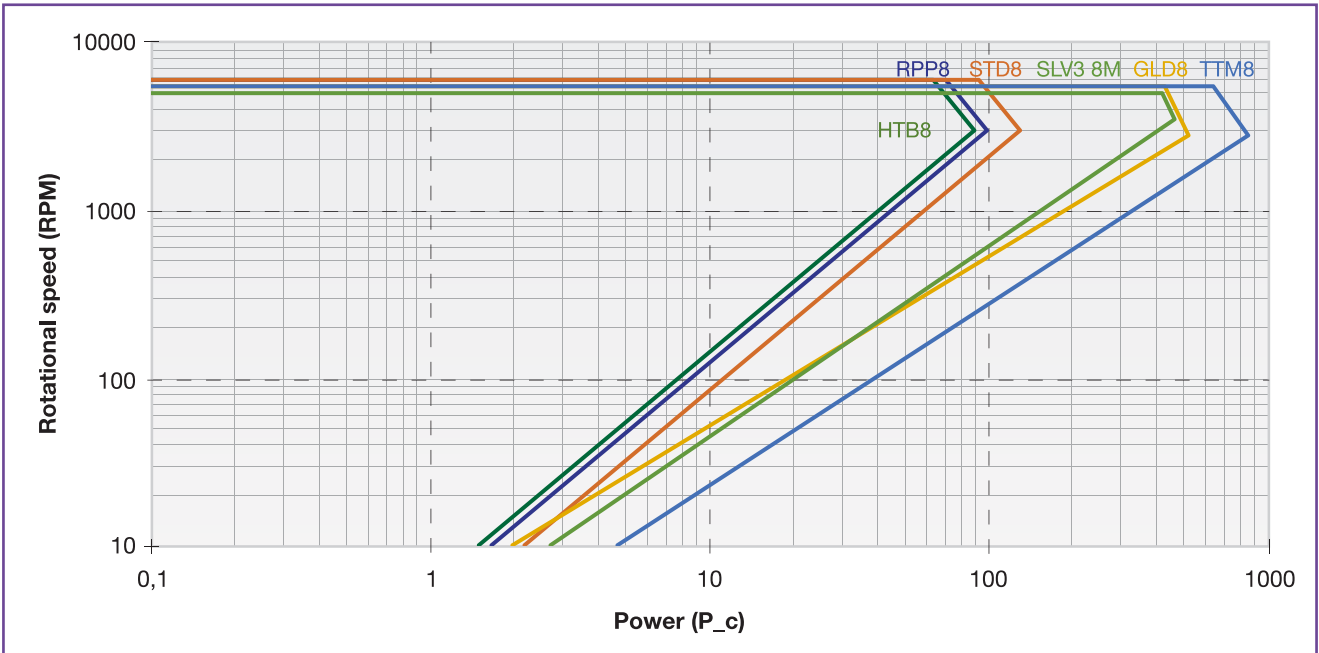


### HB3, HTB5, RPP5, SLV3 5M, GLD2 5M

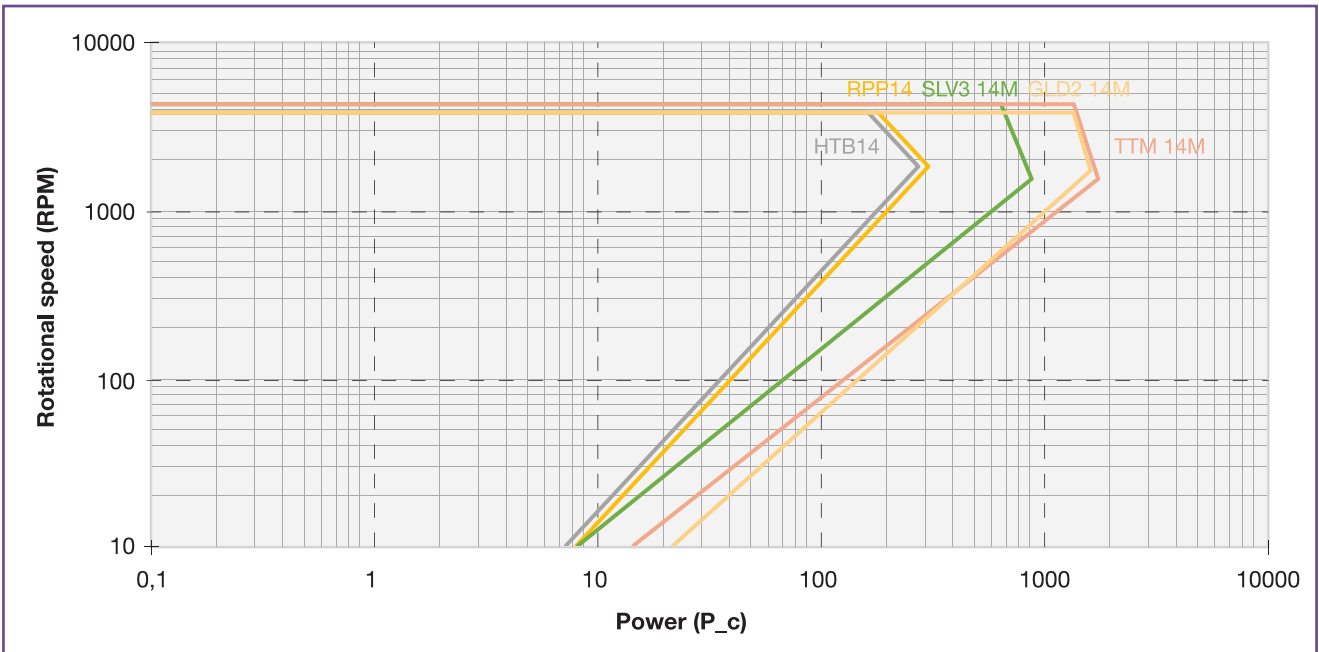


# TECHNICAL CALCULATION

HTB8, RPP8, STD8, SLV3 8M, GLD8, TTM8



HTB14, RPP14, SLV3 14M, GLD2 14M, TTM 14M





# TECHNICAL CALCULATION

## STEP 3 - SELECTION OF BELT, PULLEYS AND CENTER DISTANCE

### CHOICE OF BELT TYPE AND PITCH

Several options are available, with improved belt's power rating from MEGASYNC™ RPP by getting up to MEGASYNC™ Silver3, Gold2 and eventually Titanium, as shown in the graphs in the previous pages.

The graph has:

- design power  $P_c$  along the X-axis
- speed of the fastest shaft along the Y-axis.

With these input data you will locate an intersection point. The area surrounding this point indicates the pitch you should use for your design. As shown, the most powerful belt is the MEGASYNC™ Titanium.

If you wish, you can compare and design different options, both in terms of power rating and pitch. Then you might select the drive best matching your size requirements or the most economical one.

### CHOICE OF PULLEY, BELT AND CENTER DISTANCE

According to your space and speed ratio requirements, you might select the pulleys among those you can find in our Metal Drive Components catalogue. To help you on the choice of the pulleys, you can use the below chart indicating a selection of possible pulleys that give you the needed speed ratio.

**TABLE 3 - SPEED RATIO TABLES**

| SPEED RATIO<br>(APPROXIMATE<br>VALUES) $Z_2/Z_1$ | $Z_2/Z_1$ |        |        |       |       |       |
|--|-----------|--------|--------|-------|-------|-------|
|  |           |        |        |       |       |       |
| 1,06   | 38/36     | 36/34  | 34/32  |       |       |       |
| 1,13   | 90/80     | 72/64  | 36/32  | 34/30 |       |       |
| 1,17   | 56/48     | 34/29  | 28/24  |       |       |       |
| 1,25   | 90/72     | 80/64  | 40/32  | 30/24 |       |       |
| 1,33   | 64/48     | 48/36  | 40/30  | 32/24 |       |       |
| 1,50   | 72/48     | 48/32  | 36/24  |       |       |       |
| 1,75   | 112/64    | 56/32  |        |       |       |       |
| 2,00   | 144/72    | 112/56 | 80/40  | 72/36 | 64/32 | 56/28 |
| 2,25   | 144/64    | 90/40  | 72/32  |       |       |       |
| 2,33   | 112/48    | 80/34  |        |       |       |       |
| 2,50   | 90/36     | 80/32  |        |       |       |       |
| 2,67   | 192/72    | 80/30  | 64/24  |       |       |       |
| 3,00   | 192/64    | 144/48 | 90/30  | 72/24 |       |       |
| 3,27   | 144/44    | 72/22  |        |       |       |       |
| 4,00   | 192/48    | 144/36 | 112/28 |       |       |       |
| 4,36   | 192/44    |        |        |       |       |       |
| 4,80   | 192/40    | 144/30 |        |       |       |       |
| 5,33   | 192/36    |        |        |       |       |       |
| 6,00   | 192/32    | 144/24 |        |       |       |       |
| 7,38   | 192/26    |        |        |       |       |       |
| 8,00   | 192/24    |        |        |       |       |       |
| 8,73   | 192/22    |        |        |       |       |       |

# TECHNICAL CALCULATION

Please mind that the bigger the pulley is, the more power will be transmitted by the belt, and the less width the belt shall have; on the other side, a big pulley requires more space and will be heavier. Please mind that each pitch has its own minimum dimension; this value is given by the smallest available pulley in the corresponding Basic Performance table.

Speed ratio = (1 refers to driver pulley; 2 refers to driven pulley)

$$i = \frac{n_1}{n_2} = \frac{z_2}{z_1} \quad [3]$$

Refer to the Center distance selection table to determine which pulley combinations give the desired speed ratio. The most suitable pulley combination can then be selected eliminating any pulley combination for which the required Center distance cannot be obtained with the nearest standard belt size.

If you know exactly the drive Center distance and the driver and driven diameters, you can calculate the belt pitch length with the following formula:

$$L = 2 \cdot c \cdot \cos\alpha + \frac{\pi \cdot (d_L + d_S)}{2} + \frac{\pi \cdot \alpha \cdot (d_L + d_S)}{180} \quad [4]$$

Where:

- L = pitch belt length [mm]
- c = centre distance [mm]
- $d_L$  = large pulley pitch diameter [mm]
- $d_S$  = small pulley pitch diameter [mm]
- $\alpha = \arcsin\left(\frac{d_L - d_S}{2 \cdot c}\right)$  [°]

Check that the ratio of the belt teeth number and the pulleys teeth is not an integer number. If this happens modify the drive data where possible (center distance, ratio, pulley diameter) otherwise the belt life could be reduced.

Then select the final pulley combination according to the priorities required from the drive, in terms of flexibility, driven speed, center distance, drive cost, etc.

# TECHNICAL CALCULATION

Once you find the needed belt length, both for speed ratio equal to one or not, you will proceed checking on our available belt lengths on belt data pages; you can choose both the closest longer or the closest shorter available belt. With the actual belt length value  $L_c$  you selected and the chosen pulleys you can find the new Center distance  $c_c$  as per shown below:

If speed ratio is equal to one, the new center distance will be

$$c_c = \frac{L_c - (\pi \times d_1)}{2} \quad [5]$$

If speed ratio is not equal to one, you can use the following formula

$$c_c = \frac{1}{4} \left\{ L_c - \frac{p}{2} (z_1 + z_2) + \sqrt{\left[ L_c - \frac{p}{2} (z_1 + z_2) \right]^2 - 2 \left[ \frac{p}{\pi} (z_2 - z_1) \right]^2} \right\}$$

or you can use the center distance table from page 30.

In this table, you have:

- $z_B - z_1$  along the columns
- $z_2 - z_1$  along the rows

At the intersection of the given column and row you will find a number that is the center distance in teeth number  $c_i$ ; so, multiplying this number by the pitch  $p$  you will get the actual center distance:

$$c_c = p \cdot c_i \quad [7]$$

If one or both of the input values you have are out of the table's range, you should divide both values by two. Then, the calculated center distance will be half of the real one, it means you need to multiply by two the found number to get the correct value of  $c_c$ .

We warmly suggest to check that the ratios between the belt's teeth number and the pulleys' teeth numbers are not integers. If this happens, it is necessary to modify the drive wherever possible (centre distance, ratio, pulleys diameter) otherwise belt life could be reduced.



# TECHNICAL CALCULATION

## STEP 4 - DETERMINATION OF THE ACTUAL POWER RATING $P_{ba}$

The actual power rating  $P_{ba}$  comes from the following formula:

$$P_{ba} = P_b \cdot C_d \cdot K_1 \quad [8]$$

where:

- $P_b$  is the belt's basic performance; each belt type and each pitch has its own basic performance table; you can find it in belt data pages. It depends on driver pulley's number of teeth and on driver pulley speed.
- $C_d$  is the teeth in mesh correction factor. Because the power ratings in this catalogue are based on a minimum of six teeth in mesh between the belt and the pulley, you have to consider this factor whenever you have less than six teeth in mesh. To determine the number of teeth in mesh on the smallest pulley you can use the following formula:

$$z_m = \left\{ 0,5 - \left[ \frac{4 p}{79 c} \cdot (z_1 - z_s) \right] \right\} \cdot z_s \quad [9]$$

where  $z_1$  is the number of teeth on the biggest pulley and  $z_s$  is the number of teeth on the smallest pulley.

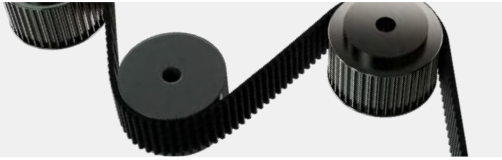
Always round  $z_m$  down to the nearest whole number. Based on this value, you will select the teeth in mesh correction factor  $C_d$  as per the following Table 4:

| TABLE 4 - $C_d$ FACTOR        |       |
|-------------------------------|-------|
| NUMBER OF TEETH IN MESH $Z_m$ | $C_d$ |
| 6 or more                     | 1,00  |
| 5                             | 0,80  |
| 4                             | 0,60  |
| 3                             | 0,40  |
| 2                             | 0,20  |

$K_1$  is the belt length correction factor. Because the power ratings in this catalogue are based on specific belt lengths, you have to consider this factor and choose  $K_1$  from the below Table 5. For belts with imperial pitch, please use  $K_1$  equal to 1.



# TECHNICAL CALCULATION



**TABLE 5 - K<sub>i</sub> FACTOR**

| RPP3             |                | RPP5 • RPP5 DD • SLV3 5M<br>• GLD2 5M |                | RPP8 • RPP8 DD   |                | RPP14 • RPP14 DD |                | SLV3 8M • GLD2 8M |                | SLV3 14M • GLD2 14M |                |
|------------------|----------------|---------------------------------------|----------------|------------------|----------------|------------------|----------------|-------------------|----------------|---------------------|----------------|
| BELT LENGTH (mm) | K <sub>i</sub> | BELT LENGTH (mm)                      | K <sub>i</sub> | BELT LENGTH (mm) | K <sub>i</sub> | BELT LENGTH (mm) | K <sub>i</sub> | BELT LENGTH (mm)  | K <sub>i</sub> | BELT LENGTH (mm)    | K <sub>i</sub> |
| < 190            | 0,80           | < 440                                 | 0,80           | < 600            | 0,80           | < 1190           | 0,80           | < 359             | 0,65           | <1189               | 0,70           |
| 191 - 260        | 0,90           | 441 - 560                             | 0,90           | 601 - 880        | 0,90           | 1191 - 1610      | 0,90           | 360-479           | 0,70           | 1190-1399           | 0,80           |
| 261 - 400        | 1,00           | 561 - 800                             | 1,00           | 881 - 1280       | 1,00           | 1611 - 1890      | 0,95           | 480-599           | 0,75           | 1400-1609           | 0,85           |
| 401 - 600        | 1,10           | 801 - 1100                            | 1,10           | 1281 - 1760      | 1,10           | 1891 - 2450      | 1,00           | 600-719           | 0,80           | 1610-1889           | 0,90           |
| > 600            | 1,20           | > 1100                                | 1,20           | > 1760           | 1,20           | 2451 - 3150      | 1,05           | 720-879           | 0,90           | 1890-2239           | 0,95           |
|                  |                |                                       |                |                  |                | > 3150           | 1,10           | 880-1039          | 0,95           | 2240-2589           | 1,00           |
|                  |                |                                       |                |                  |                |                  |                | 1040-1351         | 1,00           | 2590-2799           | 1,05           |
|                  |                |                                       |                |                  |                |                  |                | 1352-1599         | 1,10           | 2800-3359           | 1,10           |
|                  |                |                                       |                |                  |                |                  |                | 1600-1759         | 1,15           | 3360-3849           | 1,15           |
|                  |                |                                       |                |                  |                |                  |                | 1760-2199         | 1,20           | 3850-4325           | 1,20           |
|                  |                |                                       |                |                  |                |                  |                | 2200-2399         | 1,25           | 4326-4577           | 1,25           |
|                  |                |                                       |                |                  |                |                  |                | 2400-2799         | 1,30           | 4578-4955           | 1,30           |
|                  |                |                                       |                |                  |                |                  |                | 2800-3279         | 1,35           | >4955               | 1,35           |
|                  |                |                                       |                |                  |                |                  |                | 3280-4399         | 1,40           |                     |                |
|                  |                |                                       |                |                  |                |                  |                | >4399             | 1,50           |                     |                |

**TABLE 5 - K<sub>i</sub> FACTOR**

| TTM8             |                | TTM8             |                | TTM14            |                | TTM14            |                |
|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|
| BELT LENGTH (mm) | K <sub>i</sub> | BELT LENGTH (mm) | K <sub>i</sub> | BELT LENGTH (mm) | K <sub>i</sub> | BELT LENGTH (mm) | K <sub>i</sub> |
| 248              | 0,54           | 1200             | 1,03           | 994              | 0,69           | 2800             | 1,07           |
| 288              | 0,57           | 1224             | 1,05           | 1092             | 0,72           | 3136             | 1,11           |
| 352              | 0,62           | 1280             | 1,09           | 1120             | 0,73           |                  |                |
| 416              | 0,67           | 1440             | 1,13           | 1190             | 0,75           | 3304             | 1,13           |
| 456              | 0,69           | 1600             | 1,16           | 1260             | 0,77           | 3360             | 1,14           |
| 480              | 0,71           | 1760             | 1,17           | 1288             | 0,78           | 3500             | 1,16           |
| 544              | 0,74           | 1792             | 1,19           | 1400             | 0,80           | 3850             | 1,19           |
| 560              | 0,75           | 1800             | 1,22           | 1568             | 0,84           | 3920             | 1,20           |
| 600              | 0,77           | 2000             | 1,25           | 1610             | 0,85           | 4326             | 1,24           |
| 608              | 0,78           | 2200             | 1,26           | 1750             | 0,89           | 4410             | 1,25           |
| 640              | 0,79           | 2240             | 1,29           | 1890             | 0,92           | 4956             | 1,40           |
| 720              | 0,83           | 2400             | 1,31           | 1960             | 0,93           |                  |                |
| 800              | 0,87           | 2520             | 1,33           | 2100             | 0,96           |                  |                |
| 840              | 0,89           | 2600             | 1,36           | 2240             | 0,99           |                  |                |
| 880              | 0,90           | 2800             | 1,37           | 2310             | 1,00           |                  |                |
| 896              | 0,91           | 2840             | 1,40           | 2380             | 1,01           |                  |                |
| 960              | 0,94           | 3048             | 1,42           | 2450             | 1,02           |                  |                |
| 1000             | 0,95           | 3200             | 1,43           | 2520             | 1,03           |                  |                |
| 1040             | 0,97           | 3280             | 1,48           | 2660             | 1,05           |                  |                |
| 1080             | 0,99           | 3600             | 1,50           |                  |                |                  |                |
| 1120             | 1,00           | 4000             | 1,51           |                  |                |                  |                |
| 1160             | 1,02           | 4400             | 1,54           |                  |                |                  |                |



# TECHNICAL CALCULATION

## STEP 5 - DETERMINATION OF BELT WIDTH

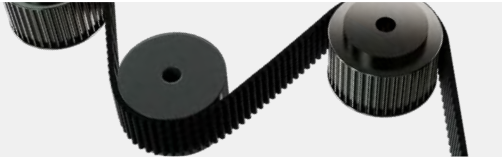
To find out the belt width we will find the width coefficient  $C_w$  first:

$$C_w = \frac{P_c}{P_{ba}} \quad [10]$$

Then, you can get the appropriate belt width  $b$  from the following tables. It is recommended to select the next higher standard width on the below tables. In this way you will get the needed belt width.

| TABLE 6 - BELT WIDTH FACTOR $C_{w, LISTED}$             |        |       |                 |
|---|--------|-------|-----------------|
| BELT WIDTH MEGASYNC™ IMPERIAL AND MEGASYNC™ IMPERIAL DD |        |       | $C_{w, LISTED}$ |
| CODE  | mm     | inch  |                 |
| 012   | 3,00   | 1/8   | 0,09            |
| 019   | 4,80   | 3/16  | 0,14            |
| 025   | 6,40   | 1/4   | 0,18            |
| 031   | 7,90   | 5/16  | 0,23            |
| 037   | 9,50   | 3/8   | 0,30            |
| 044   | 11,10  | 7/16  | 0,37            |
| 050   | 12,70  | 1/2   | 0,45            |
| 062   | 15,90  | 5/8   | 0,60            |
| 075   | 19,10  | 3/4   | 0,72            |
| 088   | 22,20  | 7/8   | 0,80            |
| 100   | 25,40  | 1     | 1,02            |
| 125   | 31,80  | 1 1/4 | 1,31            |
| 150   | 38,10  | 1 1/2 | 1,58            |
| 175   | 44,50  | 1 3/4 | 1,87            |
| 200   | 50,80  | 2     | 2,17            |
| 250   | 63,50  | 2 1/2 | 2,77            |
| 300   | 76,20  | 3     | 3,41            |
| 350   | 88,90  | 3 1/2 | 4,16            |
| 400   | 101,60 | 4     | 4,84            |
| 500   | 127,00 | 5     | 6,25            |
| 600   | 152,40 | 6     | 7,68            |
| 700   | 177,80 | 7     | 9,16            |
| 800   | 203,20 | 8     | 10,67           |
| 900   | 228,60 | 9     | 12,19           |
| 1000  | 254,0  | 10    | 13,77           |

# TECHNICAL CALCULATION



**TABLE 6 - BELT WIDTH FACTOR  $C_{w, LISTED}$**

| $C_{w, LISTED}$ |      |                 |                 |                   |
|-----------------|------|-----------------|-----------------|-------------------|
| BELT WIDTH (mm) | RPP3 | RPP5<br>RPP5 DD | RPP8<br>RPP8 DD | RPP14<br>RPP14 DD |
| 5               | 0,76 |                 |                 |                   |
| 6               | 1,00 | 0,53            |                 |                   |
| 9               | 1,71 | 1,00            | 0,37            |                   |
| 15              | 3,14 | 1,93            | 0,71            |                   |
| 20              | 4,33 | 2,71            | 1,00            |                   |
| 25              | 5,52 | 3,48            | 1,29            | 0,56              |
| 30              |      | 4,26            | 1,58            | 0,71              |
| 40              |      |                 | 2,16            | 1,00              |
| 50              |      |                 | 2,74            | 1,29              |
| 55              |      |                 | 3,03            | 1,44              |
| 75              |      |                 | 4,19            | 2,03              |
| 85              |      |                 | 4,77            | 2,32              |
| 100             |      |                 |                 | 2,76              |
| 115             |      |                 |                 | 3,21              |
| 170             |      |                 |                 | 4,82              |

**TABLE 6 - BELT WIDTH FACTOR  $C_{w, LISTED}$**

| $C_{w, LISTED}$ |                    |                    |      |                      |       |
|-----------------|--------------------|--------------------|------|----------------------|-------|
| BELT WIDTH (mm) | SLV3 5M<br>GLD2 5M | SLV3 8M<br>GLD2 8M | TTM8 | SLV3 14M<br>GLD2 14M | TTM14 |
| 6               | 0,67               |                    |      |                      |       |
| 9               | 1,00               |                    |      |                      |       |
| 10              | 1,11               | 0,42               |      |                      |       |
| 12              |                    |                    | 0,56 |                      |       |
| 15              | 1,67               | 0,71               | 0,72 |                      | 0,31  |
| 20              | 2,22               | 1,00               | 1,00 | 0,33                 | 0,44  |
| 25              | 2,78               | 1,28               | 1,28 | 0,50                 | 0,58  |
| 30              | 3,33               | 1,57               | 1,56 | 0,66                 | 0,72  |
| 40              |                    | 2,15               | 2,11 | 1,00                 | 1,00  |
| 50              |                    | 2,73               | 2,67 | 1,33                 | 1,28  |
| 55              |                    | 3,01               | 2,94 | 1,50                 | 1,42  |
| 75              |                    | 4,17               | 4,06 | 2,16                 | 1,97  |
| 85              |                    | 4,75               | 4,61 | 2,50                 | 2,25  |
| 100             |                    |                    | 5,44 | 3,00                 | 2,68  |
| 115             |                    |                    | 6,28 | 3,5                  | 3,08  |
| 125             |                    |                    | 6,83 |                      | 3,36  |
| 170             |                    |                    |      | 5,33                 |       |

Once the belt width is defined, it is possible to calculate the drive safety factor  $\sigma$ , the ratio between the actual belt power rating and the design power:

$$\sigma = \frac{\text{Actual Belt Power Rating}}{\text{Design Power}} = \frac{P_{ba} \cdot C_{w, listed}}{P_c} \quad [11]$$

This value will be higher than one if you choose the next higher standard width; it gives an indication of the maximum extra load that the belt can tolerate.

# TECHNICAL CALCULATION

## STEP 6 - PRE-TENSIONING

Pre-tensioning is needed to have a well-running belt. If pre-tension  $T_s$  is too low, tooth jump can occur under the most severe load conditions; if it is too high it will increase the noise levels, reduce the belt life and may damage bearings, pulleys and other transmission parts.

The right pretension is obtained by the following formula:

$$T_s = \frac{500 \cdot P \cdot K_m}{v} + (m_l \cdot v_2) \quad [12]$$

where:

- $T_s$  is the needed pretension on the belt's axes.
- $K_m$  is the factor of motor class that considers the influence of motor peak torque; see the value in the below table:

| TABLE 7 - $K_m$ FACTOR |         |         |
|------------------------|---------|---------|
| CLASS A                | CLASS B | CLASS C |
| 1,35                   | 1,50    | 1,75    |

- $v$  is the belt linear speed you can calculate with the following formula:

$$v \text{ (m/s)} = \frac{d_1 \cdot n_1}{19100} \quad [13]$$

where diameter  $d_1$  is in mm and rotational speed  $n_1$  is in rpm.

- $m_l$  is the mass per length unit; it changes according to the belt type and pitch. See the following table 8.

For unusual, shock or pulsating loads we suggest to consult our Application Department for guidance. Axial load on bearings  $F_a$  will be equal to  $2T_s$  when speed ratio is equal to one. Otherwise,  $F_a$  will be

$$F_a = 2 \cdot T_s \cdot \sin \frac{\beta}{2} \quad [14]$$

where  $\beta$  is the angle of wrap as per Image 1 page 19.

In layouts with two pulleys, you can calculate  $\beta$  with the following formula:

$$\alpha = \arcsin \left( \frac{d_2 - d_1}{2c_c} \right) \quad [15 a]$$

$$\beta = 180^\circ - 2 \cdot \arcsin \left( \frac{d_2 - d_1}{2c_c} \right) \quad [15 b]$$



# TECHNICAL CALCULATION

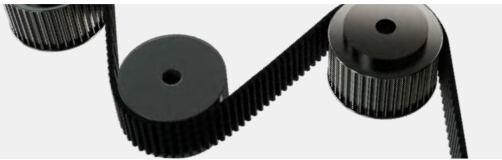
**TABLE 8 - BELT MASS PER UNIT LENGTH (kg/m)**

| BELT WIDTH |        | MXL   | XL    | L     | H     |
|------------|--------|-------|-------|-------|-------|
| (inches)   | (mm)   |       |       |       |       |
| 012        | 3,05   | 0.004 |       |       |       |
| 019        | 4,83   | 0.007 |       |       |       |
| 025        | 6,35   | 0.009 | 0.014 |       |       |
| 031        | 7,90   |       | 0.017 |       |       |
| 037        | 9,40   |       | 0.020 |       |       |
| 050        | 12,70  |       |       | 0,041 |       |
| 075        | 19,05  |       |       | 0,062 | 0,081 |
| 100        | 25,40  |       |       | 0,083 | 0,108 |
| 150        | 38,10  |       |       |       | 0,163 |
| 200        | 50,80  |       |       |       | 0,217 |
| 300        | 76,20  |       |       |       | 0,325 |
| 400        | 101,60 |       |       |       |       |
| 500        | 127,00 |       |       |       |       |

**TABLE 8 - BELT MASS PER UNIT LENGTH (kg/m)**

| BELT WIDTH |        | XH    | XXH   | XL DD | L DD  | H DD  |
|------------|--------|-------|-------|-------|-------|-------|
| (inches)   | (mm)   |       |       |       |       |       |
| 012        | 3,05   |       |       |       |       |       |
| 019        | 4,83   |       |       |       |       |       |
| 025        | 6,35   |       |       | 0,016 |       |       |
| 031        | 7,90   |       |       | 0,019 |       |       |
| 037        | 9,40   |       |       | 0,023 |       |       |
| 050        | 12,70  |       |       |       | 0,047 |       |
| 075        | 19,05  |       |       |       | 0,070 | 0,091 |
| 100        | 25,40  |       |       |       | 0,093 | 0,122 |
| 150        | 38,10  |       |       |       |       | 0,183 |
| 200        | 50,80  | 0,636 | 0,752 |       |       | 0,244 |
| 300        | 76,20  | 0,954 | 1,128 |       |       | 0,366 |
| 400        | 101,60 | 1,272 | 1,504 |       |       |       |
| 500        | 127,00 |       | 1,880 |       |       |       |

# TECHNICAL CALCULATION



**TABLE 8 - BELT MASS PER UNIT LENGTH (kg/m)**

| BELT WIDTH (mm) | RPP3  | RPP5  | SLV3 5M<br>GLD2 5M | RPP8  | SLV3 8M | GLD2 8M | TTM8  |
|-----------------|-------|-------|--------------------|-------|---------|---------|-------|
| 6               | 0,016 |       |                    |       |         |         |       |
| 9               | 0,025 | 0,039 | 0,036              |       |         |         |       |
| 12              |       |       |                    |       |         |         | 0,054 |
| 15              | 0,041 | 0,065 | 0,060              |       |         |         | 0,067 |
| 20              |       |       |                    | 0,114 | 0,113   | 0,110   | 0,090 |
| 25              |       | 0,108 | 0,100              |       |         |         | 0,112 |
| 30              |       |       |                    | 0,171 | 0,169   | 0,165   | 0,135 |
| 40              |       |       |                    |       |         |         | 0,180 |
| 50              |       |       |                    | 0,284 | 0,282   | 0,275   | 0,225 |
| 55              |       |       |                    |       |         |         | 0,247 |
| 75              |       |       |                    |       |         |         | 0,337 |
| 85              |       |       |                    | 0,484 | 0,480   | 0,467   | 0,381 |
| 100             |       |       |                    |       |         |         | 0,449 |
| 115             |       |       |                    |       |         |         | 0,517 |
| 125             |       |       |                    |       |         |         | 0,561 |
| 170             |       |       |                    |       |         |         |       |

**TABLE 8 - BELT MASS PER UNIT LENGTH (kg/m)**

| BELT WIDTH (mm) | RPP14 | SLV3 14M | GLD2 14M | TTM14 | RPP5 DD | RPP8 DD | RPP14 DD |
|-----------------|-------|----------|----------|-------|---------|---------|----------|
| 6               |       |          |          |       |         |         |          |
| 9               |       |          |          |       | 0,043   |         |          |
| 12              |       |          |          |       |         |         |          |
| 15              |       |          |          | 0,108 | 0,072   |         |          |
| 20              |       |          |          | 0,144 |         | 0,138   |          |
| 25              |       |          |          | 0,181 | 0,120   |         |          |
| 30              |       |          |          | 0,217 |         | 0,207   |          |
| 40              | 0,463 | 0,400    | 0,404    | 0,289 |         |         | 0,492    |
| 50              |       |          |          | 0,361 |         | 0,345   |          |
| 55              | 0,637 | 0,550    | 0,556    | 0,397 |         |         | 0,676    |
| 75              |       |          |          | 0,542 |         |         |          |
| 85              | 0,984 | 0,850    | 0,858    | 0,614 |         | 0,586   | 1,045    |
| 100             |       |          |          | 0,722 |         |         |          |
| 115             | 1,332 | 1,150    | 1,161    | 0,831 |         |         | 1,414    |
| 125             |       |          |          | 0,903 |         |         |          |
| 170             | 1,969 | 1,700    | 1,717    |       |         |         | 2,091    |

# TECHNICAL CALCULATION

## STEP 7 - STATIC TENSION CHECK

There are two methods to measure the correct static tension:

1. The deflection method, based on measuring the force needed to deflect one span of the belt by a given amount (see below image).

The length of the free span  $t$  of belt where we will apply this force can be calculated as per below:

$$t = \sqrt{c^2 - \left(\frac{d_2 - d_1}{2}\right)^2} \quad [16]$$

The force  $F$  to apply to deflect the belt  $F$  has to be:

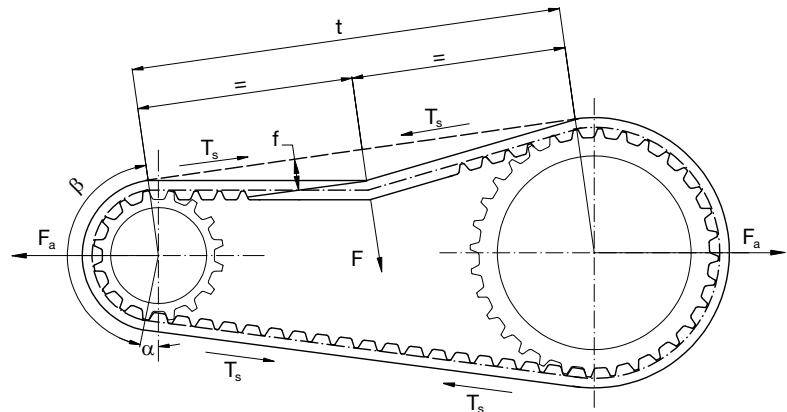
$$F_{\min} = \frac{T_s}{16} \quad [17]$$

$$F_{\max} = \frac{1,5 \cdot T_s}{16} \quad [18]$$

The deflection distance  $f$  will be

$$f = \frac{t}{64} \quad [19]$$

**IMAGE 1**



# TECHNICAL CALCULATION

With the belt installed on the drive and tensioned to remove all the slacks in the system (snug fit), you can begin the tensioning procedure. Put a force  $F$  on the Center of the free span  $t$  and deflect the belt up to a deflection  $f$  as per above calculation. Be sure that both pulleys are free to rotate. For belts wider than 50 mm, put a rigid thing, like a key stock, as wide as the belt (across it), and apply the force through the rigid item to prevent the belt distortion and to get a good result.

Once you get the right deflection  $f$ , measure the deflection force  $F$  and compare it with the formula (a) page 19:

- If the value is inside the range, pretension is right;
- If the value is higher than the maximum, the belt is too tight, the belt should be slightly slackened;
- If the value is lower than the minimum, the belt tension is low and needs to be tightened.

If the value is out of range, please repeat this procedure until it is inside the range.

- 2.** The vibration method is based on the use of a belt frequency meter. This device consists of a small sensing head which is held across the belt to be measured. The belt is then tapped to induce the belt to vibrate at its natural frequency. The vibration is detected and displayed on the measuring unit. The relation between belt static tension  $T$  and the frequency of vibration  $f$  may be calculated using the following formula:

$$f = \frac{1}{2t} \cdot \sqrt{\frac{T_s}{m_l}} \quad [20] \quad \text{or} \quad T_s = 4 \cdot m_l \cdot t^2 \cdot f_r^2 \quad [21]$$

Where:

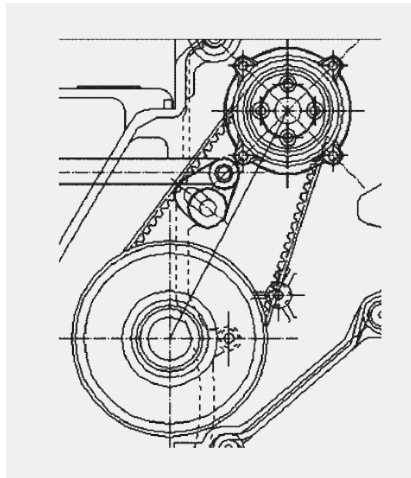
|       |                             |        |
|-------|-----------------------------|--------|
| $T_s$ | = static tension            | [N]    |
| $m_l$ | = belt mass length per unit | [kg/m] |
| $f_r$ | = frequency vibration       | [Hz]   |
| $t$   | = free span length          | [m]    |





# CALCULATION EXAMPLE

## CALCULATION EXAMPLE



|                             |  |
|-----------------------------|--|
| Motor Power                 | <b>P = 30 kW</b>                       |
| DriveR rpm                  | <b>n1 = 2000 rpm</b>                   |
| Class motor                 | <b>Class C</b>                         |
| Application                 | <b>Textile machine</b>                 |
| Absorbed power              | <b>Unknown (assume 5 kW)</b>           |
| DriveN rpm                  | <b>n2 = 1000 rpm</b>                   |
| Type of driveN machine      | <b>Not uniform torque (Category 3)</b> |
| Working hours               | <b>8 - 16 hours/day</b>                |
| Approximate Centre distance | <b>630 - 640 mm</b>                    |
| Maximum pulley diameter     | <b>200 mm</b>                          |

### STEP 1 - CALCULATION OF TRANSMITTED POWER

|  | DATA  | RESULT                                |
|--|---|---------------------------------------|
| <b>Service Factor</b><br>$F_s$ from Table 2              | Category 3 driveN machine<br>Motor class C<br>8 - 16 working hours            | $F_s = 2,00$                          |
| <b>Speed up Factor</b><br>$C_m$ from Table 1             | $i = \frac{n_{driveR}}{n_{driveN}} = \frac{n_1}{n_2} = \frac{2000}{1000} = 2$ | $C_m = 0,00$                          |
| <b>Corrected service factor</b><br>$C_c = F_s + C_m$ [1] | $F_s$<br>$C_m$  | $C_c = 2,00 + 0 = 2,00$               |
| <b>Design power</b><br>$P_c = P \cdot C_c$ [2]           | P from basic design data<br>$C_c$   | $P_c = 30 \cdot 2,00 = 60 \text{ kW}$ |

### STEP 2 - BELT PITCH SELECTION

|   | DATA   | RESULT                                |
|---|--|---------------------------------------|
| <b>Belt pitch</b><br>Pitch of the belt from page 10 | $P_c$ from step 1<br>rpm faster shaft from basic design data | Belt type TTM 8M<br>Belt pitch = 8 mm |



# CALCULATION EXAMPLE

## STEP 3 - SELECTION OF BELT, PULLEYS AND CENTRE DISTANCE

|   | DATA   | RESULT  |
|---|--|---|
| <b>Speed Ratio</b><br>$i = \frac{n_1}{n_2} = \frac{Z_2}{Z_1} \quad [3]$   | From basic design data                         | $i = \frac{2000}{1000} = 2$   |
| <b>Belt, pulleys and Centre distance</b><br>$Z_1, Z_2, d_1, d_2, c, L, Z_b$ from table 3 and centre distance from table pages 30-49 | Centre distance from basic design data i       | <b>Option 1</b><br>$Z_1 = 28$ teeth $d_1 = 71,30$ mm<br>$Z_2 = 56$ teeth $d_2 = 142,60$ mm<br>Pitch length 1600 mm<br>$Z_b = 200$ teeth<br>Centre distance $78,875 \cdot p = 631$ mm<br><br><b>Option 2</b><br>$Z_1 = 40$ teeth $d_1 = 101,86$ mm<br>$Z_2 = 80$ teeth $d_2 = 203,72$ mm<br>Pitch length 1760 mm<br>$Z_b = 220$ teeth<br>Centre distance $78,746 \cdot p = 637,968$ mm |
| <b>Check belt/pulleys teeth ratio is not an integer</b><br>$\frac{Z_b}{Z_s}$ $\frac{Z_b}{Z_L}$                                      | $Z_s, Z_L, Z_b$                                | <b>Option 1</b><br>$\frac{Z_b}{Z_s} = \frac{200}{28} = 7,14$ $\frac{Z_b}{Z_L} = \frac{200}{56} = 3,57$<br><br><b>Option 2</b><br>$\frac{Z_b}{Z_s} = \frac{220}{40} = 5,5$ $\frac{Z_b}{Z_L} = \frac{220}{80} = 2,75$   |
| <b>Check options that match the requirements in terms of dimensional parameters</b>   | Maximum pulley diameter from basic design data | <b>Option 1</b> according with the dimensional requirements (max pulley diameter = 200 mm)  |



# CALCULATION EXAMPLE

## STEP 4 - DETERMINATION OF THE ACTUAL POWER RATING $P_{BA}$

|  | DATA   | RESULT   |
|--|--|--|
| <b>Teeth in mesh factor</b><br>$C_d$ from table 4  | $z_m = \left\{ 0,5 - \left[ \frac{4p}{79c} \cdot (z_1 - z_2) \right] \right\} \cdot z_s \quad [9]$ <p>p from step 2<br/> <math>Z_1, Z_2, c</math> from step 3</p> $z_m = \left\{ 0,5 - \left[ \frac{4 \cdot 8}{79 \cdot 631} \cdot (56 - 28) \right] \right\} \cdot 28 = 13,5$ | $C_d = 1,00$   |
| <b>Belt length factor</b><br>$K_1$ from Table 5  | L from step 3  | $K_1 = 1,16$   |
| <b>Basic performance</b><br>$P_b$ from basic performance table on belt characteristics pages | <p>p from step 2<br/> <math>Z_s</math> from step 3<br/>           rpm faster shaft from basic design data</p>  | $P_b = 23,73 \text{ kW}$                               |
| <b>Actual power rating</b><br>$P_{ba} = P_b \cdot C_d \cdot K_1 \quad [8]$                   | $C_d$ from step 4<br>$K_1$ from step 4<br>$P_b$ from step 4  | $P_{ba} = 23,73 \cdot 1 \cdot 1,16 = 27,53 \text{ kW}$ |

## STEP 5 - DETERMINATION OF BELT WIDTH

|  | DATA   | RESULT  |
|--|--|---|
| <b>Belt width factor</b><br>$C_w = \frac{P_c}{P_{ba}} \quad [10]$                          | $P_c$ from step 1<br>$P_{ba}$ from step 4                                | $C_w = \frac{60}{27,53} = 2,17$               |
| <b>Belt width</b><br>Belt width from table 8   | $C_w$ from step 5  | b = 45 mm                                     |
| <b>Drive service factor</b><br>$\sigma = \frac{P_{ba} \cdot C_{w,listed}}{P_c} \quad [11]$ | $P_{ba}$ from step 4<br>$P_c$ from step 1<br>$C_{w,listed}$ from table 8 | $\sigma = \frac{27,53 \cdot 2,17}{60} = 0,99$ |



# CALCULATION EXAMPLE

## STEP 6 - PRE-TENSIONING

|   | DATA  | RESULT  |
|---|---|---|
| <b>Classic of motor factor</b><br>$K_m$ from table 7                                    | Class of motor from basic design data   | $K_m = 1,75$  |
| <b>Belt linear speed</b><br>$v = \frac{d_2 \cdot n_2}{19100}$ [13]                      | rpm from slower shaft from basic design data<br>$d_2$ from step 3                     | $v = \frac{142,60 \cdot 1000}{19100} = 7,47 \text{ m/s}$                                  |
| <b>Belt mass per length</b><br>$m$ from table 8   | $b$ from step 5<br>$p$ from step 2  | $m_l = 0,202 \text{ kg/m}$  |
| <b>Static tension</b><br>$T_s = \frac{500 \cdot P \cdot K_m}{v} + (m_l \cdot v^2)$ [12] | $P$ from basic design data<br>$K_m$ from step 6<br>$v$ from step 6<br>$m$ from step 6 | $T_s = \frac{500 \cdot 30 \cdot 1,75}{7,47} + (0,202 \cdot 7,47^2)$<br>$= 3225 \text{ N}$ |

## STEP 7 - STATIC TENSION CHECK

|  | DATA  | RESULT   |
|--|---|--|
| <b>Free span length</b><br>$t = \sqrt{c^2 - \left(\frac{d_2 - d_1}{2}\right)^2}$ [16]                      | $c, d_s, d_L$ from step 3                               | $t = \sqrt{631^2 - \left(\frac{140,60 - 71,30}{2}\right)^2}$<br>$= 629,90 \text{ mm}$                  |
| <b>Deflection forces</b><br>$F_{\min} = \frac{T_s}{16}$ [17]<br>$F_{\max} = \frac{1,5 \cdot T_s}{16}$ [18] | $T_s$ from step 6                                       | $F_{\min} = \frac{3225}{16} = 220 \text{ N}$<br>$F_{\max} = \frac{1,5 \cdot 3225}{16} = 330 \text{ N}$ |
| <b>Deflection forces</b><br>$f = \frac{t}{64}$   | $t$ from step 7   | $f = \frac{629,9}{64} = 9,84 \text{ mm}$   |
| <b>Deflection forces</b><br>$f = \frac{1}{2t} \cdot \sqrt{\frac{T_s}{m_l}}$                                | $T_s$ from step 6<br>$m$ from step 6<br>$t$ from step 7 | $f = \frac{1}{2 \cdot 0,6299} \cdot \sqrt{\frac{3225}{0,202}} = 100 \text{ Hz}$                        |



# FORCES

## ON SHAFT AND BEARINGS

The dynamic axial load is obtained by a vector addition between the tension in the tight span  $T_1$  and the one in the slack span  $T_2$  as shown in the below image 2. To calculate the dynamic axial load  $F_{a, dyn}$  you can use the following formula:

$$F_{a, dyn} = \sqrt{T_1^2 + T_2^2 - 2 T_1 T_2 \cos \beta} = \sqrt{\frac{T_e^2}{2} + 2 \times T_s^2 - 2 \cos \beta \left( T_s^2 - \frac{T_e^2}{4} \right)} \quad [22]$$

where:

- $T_e = \frac{1000 \cdot P}{v}$  with P the engine power in kW and v the belt speed in m/s;
- $T_s$  is the belt's pretension as previously calculated (page 18);
- $\beta$  is the wrap angle as previously calculated (page 18).

Knowing the load on the axis, it is now possible to calculate the load on the bearings according to the following formulas:

If you have a system like image 3, where pulley is set outside the bearing's support:

$$F_1 = \frac{L_1 - L_2}{L_2} \cdot F_{a, dyn} \quad [23] \quad F_2 = \frac{L_1}{L_2} \cdot F_{a, dyn} \quad [24]$$

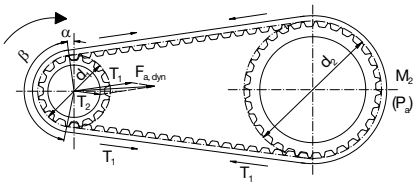
If you have a system like image 4, where the pulley is between the two bearings:

$$F_1 = \frac{L_2 - L_1}{L_2} \cdot F_{a, dyn} \quad [25] \quad F_2 = \frac{L_1}{L_2} \cdot F_{a, dyn} \quad [26]$$

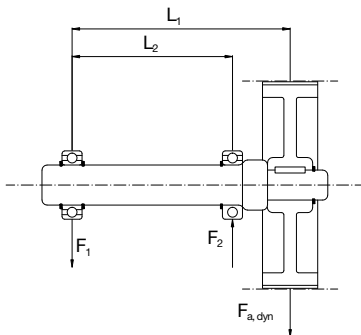
where:

- $F_1$  and  $F_2$  are the loads in N on the two bearings;
- $L_1$  is the distance between the pulley and the bearing;
- $L_2$  is the distance between the two bearings;

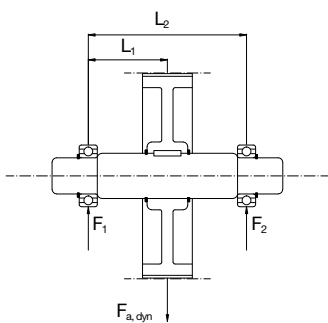
**IMAGE 2**



**IMAGE 3**



**IMAGE 4**



| SYMBOL       | UNIT | DEFINITION                          |     |
|--------------|------|-------------------------------------|-----|
| $\alpha$     | °    | Free span length angle              | 15a |
| $\beta$      | °    | Wrap angle on small pulley          | 15b |
| $d_1$        | mm   | Driver pulley pitch diameter        |     |
| $d_2$        | mm   | Driven pulley pitch diameter        |     |
| $F_{a, dyn}$ | N    | Dynamic axial load                  |     |
| $F_1$        | N    | Load on bearing 1                   |     |
| $F_2$        | N    | Load on bearing 2                   |     |
| $L_1$        | mm   | Distance between bearing and pulley |     |
| $L_2$        | mm   | Distance between the bearings       |     |
| $M_1$        | Nm   | Motor torque                        |     |
| $M_2$        | Nm   | Absorbed torque                     |     |
| P            | kW   | Motor power                         |     |
| $P_a$        | kW   | Absorberd power                     |     |
| $T_1$        | N    | Tight span tension                  |     |
| $T_2$        | N    | Slack span tension                  |     |



# CAUSES OF BELT FAILURE

To ensure that the performance and durability of a toothed belt drive will fully meet the requirements of particular application, firstly it is necessary to accurately select the drive and then to make sure the drive is correctly installed. If this procedure is not followed, the drive life and efficiency may be considerably reduced. The most frequent problems encountered, together with their probable causes, are listed in the table below. We hope that this will serve as a useful quick-reference guide, but if the drive problems persist or they are not identified in the following list please consult Megadyne's Application Department.

| PROBLEMS   | CAUSES  | CORRECTIVE ACTION   |
|--|---|---|
| Abnormal wear of the belt<br>1. On side of tooth | <ul style="list-style-type: none"> <li>Belt excessively taut</li> <li>Excessive overloading</li> <li>Incorrect contour or diameter of pulley</li> </ul>   | <ul style="list-style-type: none"> <li>Reduce center distance</li> <li>Use a wider belt</li> <li>Replace pulley after checking contour or diameter</li> </ul>   |
| 2. On the bottom of the tooth                    | <ul style="list-style-type: none"> <li>Excessive installation tension</li> </ul>  | <ul style="list-style-type: none"> <li>Reduce center distance</li> </ul>  |
| 3. At the tooth root                             | <ul style="list-style-type: none"> <li>Incorrect diameter of pulley</li> </ul>  | <ul style="list-style-type: none"> <li>Replace pulley after checking diameter</li> </ul>  |
| 4. On the side of the belt                       | <ul style="list-style-type: none"> <li>Incorrect contour or diameter of pulley</li> <li>Misalignment or wrong setting of pulley</li> <li>Oscillation of axes and/or of bearing</li> <li>Flanges bent</li> </ul> | <ul style="list-style-type: none"> <li>Replace pulley after checking diameter</li> <li>Replace pulley after checking diameter</li> <li>Correct the positioning of the pulley and reinforce the bearing</li> <li>Straighten flanges</li> </ul> |
| Failure through traction or laceration of teeth  | <ul style="list-style-type: none"> <li>Diameter of small pulley, i.e. below the minimum</li> <li>Excessive moisture</li> </ul>  | <ul style="list-style-type: none"> <li>Increase the diameter of the pulley or use belt and pulleys of smaller pitch</li> <li>Eliminate the moisture</li> </ul>  |
| Laceration of the belt                           | <ul style="list-style-type: none"> <li>Number of teeth in mesh less than six</li> <li>Excessive load</li> </ul>   | <ul style="list-style-type: none"> <li>Increase the number of teeth in mesh or use belts and pulley of smaller pitch</li> <li>Use a wider belt</li> </ul>   |
| Rupture of tensile member                        | <ul style="list-style-type: none"> <li>Excessive load</li> <li>Diameter of pulley below minimum</li> </ul>  | <ul style="list-style-type: none"> <li>Use a wider belt</li> <li>Increase the diameter of the pulleys</li> </ul>  |
| Breaks or cracks in the top surface of the belt  | <ul style="list-style-type: none"> <li>Exposure to excessive low temperatures (below -25°C)</li> </ul>  | <ul style="list-style-type: none"> <li>Eliminate the low temperature</li> </ul>   |
| Softening of the surface of the belt             | <ul style="list-style-type: none"> <li>Exposure to excessive temperatures (over +85°C) or operation with excessive amount of oil present</li> </ul>   | <ul style="list-style-type: none"> <li>Eliminate the high temperature or reduce the amount of oil present</li> </ul>  |
| Apparent elongation of the belt                  | <ul style="list-style-type: none"> <li>Reduction of center distance due to bearings not being firmly fixed</li> </ul>   | <ul style="list-style-type: none"> <li>Restore the initial center distance and strengthen the bearings</li> </ul>   |
| Belt overriding the flanges                      | <ul style="list-style-type: none"> <li>Faulty installation of the flanges</li> <li>Misalignment of pulley</li> </ul>  | <ul style="list-style-type: none"> <li>Reinstall the flanges properly</li> <li>Align pulley</li> </ul>  |
| Excessive wear of pulley teeth                   | <ul style="list-style-type: none"> <li>Excessive overloading</li> <li>Belt excessively taut</li> <li>Pulley material insufficiently hard</li> </ul>   | <ul style="list-style-type: none"> <li>Use a wider belt</li> <li>Reduce the center distance</li> <li>Harden the pulley surface</li> </ul>   |
| Drive excessively noisy                          | <ul style="list-style-type: none"> <li>Pulley out of line</li> <li>Excessive installation tension</li> <li>Excessive load</li> <li>Diameter of pulley below minimum</li> </ul>                                  | <ul style="list-style-type: none"> <li>Align pulley</li> <li>Reduce the center distance</li> <li>Harden the pulley surface</li> <li>Increase the diameter of the pulleys</li> </ul>   |



# CENTER DISTANCE

## TABLE IN TEETH

|             |    | $Z_B - Z_1$ |       |       |       |       |       |       |       |       |       |       |       |       |       |        |       |
|-------------|----|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
|             |    | 7           | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21     |       |
| $Z_2 - Z_1$ | 1  | 3,247       | 3,747 | 4,248 | 4,747 | 5,248 | 5,748 | 6,248 | 6,749 | 7,249 | 7,749 | 8,249 | 8,749 | 9,249 | 9,749 | 10,249 |       |
|             | 2  |             | 3,486 | 3,988 | 4,489 | 4,990 | 5,491 | 5,992 | 6,493 | 6,993 | 7,494 | 7,994 | 8,495 | 8,995 | 9,495 | 9,995  |       |
|             | 3  |             |       | 3,720 | 4,223 | 4,726 | 5,229 | 5,731 | 6,232 | 6,734 | 7,235 | 7,736 | 8,237 | 8,737 | 9,238 | 9,739  |       |
|             | 4  |             |       |       | 3,949 | 4,455 | 4,960 | 5,463 | 5,966 | 6,469 | 6,971 | 7,473 | 7,975 | 8,477 | 8,978 | 9,479  |       |
|             | 5  |             |       |       |       | 4,174 | 4,682 | 5,189 | 5,694 | 6,199 | 6,703 | 7,206 | 7,709 | 8,212 | 8,714 | 9,216  |       |
|             | 6  |             |       |       |       |       | 4,396 | 4,907 | 5,416 | 5,923 | 6,429 | 6,934 | 7,439 | 7,943 | 8,446 | 8,949  |       |
|             | 7  |             |       |       |       |       |       | 4,615 | 5,128 | 5,610 | 6,149 | 6,657 | 7,164 | 7,669 | 8,174 | 8,679  |       |
|             | 8  |             |       |       |       |       |       |       | 4,311 | 4,831 | 5,348 | 5,861 | 6,372 | 6,882 | 7,391 | 7,898  | 8,404 |
|             | 9  |             |       |       |       |       |       |       |       | 4,521 | 5,045 | 5,565 | 6,080 | 6,594 | 7,106 | 7,615  | 8,124 |
|             | 10 |             |       |       |       |       |       |       |       |       | 4,730 | 5,257 | 5,779 | 6,298 | 6,814 | 7,327  | 7,838 |
|             | 11 |             |       |       |       |       |       |       |       |       |       | 4,936 | 5,467 | 5,993 | 6,514 | 7,031  | 7,546 |
|             | 12 |             |       |       |       |       |       |       |       |       |       |       | 5,141 | 5,676 | 6,204 | 6,728  | 7,247 |
|             | 13 |             |       |       |       |       |       |       |       |       |       |       |       | 5,345 | 5,883 | 6,414  | 6,940 |
|             | 14 |             |       |       |       |       |       |       |       |       |       |       |       |       | 5,547 | 6,088  | 6,622 |
|             | 15 |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 5,747  | 6,292 |
|             | 16 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |        | 5,946 |

|             |    | $Z_B - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |    | 22          | 23     | 24     | 25     | 26     | 27     | 28     | 29     | 30     | 31     | 32     | 33     | 34     | 35     | 36     |        |
| $Z_2 - Z_1$ | 1  | 10,749      | 11,249 | 11,749 | 12,249 | 12,749 | 13,250 | 13,750 | 14,250 | 14,750 | 15,250 | 15,750 | 16,250 | 16,750 | 17,250 | 17,750 |        |
|             | 2  | 10,496      | 10,996 | 11,496 | 11,996 | 12,496 | 12,997 | 13,497 | 13,997 | 14,497 | 14,997 | 15,497 | 15,997 | 16,497 | 16,997 | 17,498 |        |
|             | 3  | 10,239      | 10,740 | 11,240 | 11,741 | 12,241 | 12,742 | 13,242 | 13,742 | 14,242 | 14,743 | 15,243 | 15,743 | 16,243 | 16,744 | 17,244 |        |
|             | 4  | 9,980       | 10,481 | 10,982 | 11,483 | 11,984 | 12,484 | 12,985 | 13,485 | 13,986 | 14,486 | 14,987 | 15,487 | 15,988 | 16,488 | 16,989 |        |
|             | 5  | 9,718       | 10,219 | 10,721 | 11,222 | 11,723 | 12,225 | 12,726 | 13,227 | 13,727 | 14,228 | 14,729 | 15,230 | 15,730 | 16,231 | 16,731 |        |
|             | 6  | 9,452       | 9,955  | 10,457 | 10,959 | 11,461 | 11,962 | 12,464 | 12,965 | 13,467 | 13,968 | 14,469 | 14,970 | 15,471 | 15,972 | 16,473 |        |
|             | 7  | 9,183       | 9,689  | 10,190 | 10,692 | 11,195 | 11,697 | 12,200 | 12,702 | 13,203 | 13,705 | 14,207 | 14,708 | 15,210 | 15,711 | 16,212 |        |
|             | 8  | 8,909       | 9,414  | 9,919  | 10,423 | 10,926 | 11,429 | 11,932 | 12,435 | 12,938 | 13,440 | 13,942 | 14,444 | 14,946 | 15,448 | 15,950 |        |
|             | 9  | 8,631       | 9,138  | 9,644  | 10,149 | 10,654 | 11,158 | 11,662 | 12,166 | 12,669 | 13,173 | 13,675 | 14,178 | 14,681 | 15,183 | 15,685 |        |
|             | 10 | 8,348       | 8,857  | 9,365  | 9,872  | 10,378 | 10,884 | 11,389 | 11,894 | 12,398 | 12,902 | 13,406 | 13,909 | 14,413 | 14,916 | 15,418 |        |
|             | 11 | 8,060       | 8,571  | 9,081  | 9,590  | 10,098 | 10,606 | 11,112 | 11,618 | 12,124 | 12,629 | 13,134 | 13,638 | 14,142 | 14,646 | 15,149 |        |
|             | 12 | 7,764       | 8,279  | 8,792  | 9,304  | 9,814  | 10,323 | 10,832 | 11,339 | 11,846 | 12,353 | 12,858 | 13,364 | 13,869 | 14,373 | 14,878 |        |
|             | 13 | 7,462       | 7,981  | 8,497  | 9,012  | 9,525  | 10,036 | 10,547 | 11,056 | 11,565 | 12,073 | 12,580 | 13,087 | 13,593 | 14,098 | 14,604 |        |
|             | 14 | 7,150       | 7,675  | 8,196  | 8,714  | 9,230  | 9,745  | 10,258 | 10,769 | 11,280 | 11,789 | 12,298 | 12,806 | 13,314 | 13,820 | 14,327 |        |
|             | 15 | 6,829       | 7,360  | 7,886  | 8,409  | 8,929  | 9,447  | 9,963  | 10,477 | 10,990 | 11,502 | 12,012 | 12,522 | 13,031 | 13,539 | 14,047 |        |
|             | 16 | 6,495       | 7,034  | 7,568  | 8,097  | 8,622  | 9,144  | 9,663  | 10,180 | 10,696 | 11,210 | 11,723 | 12,234 | 12,745 | 13,225 | 13,764 |        |
|             | 17 | 6,145       | 6,696  | 7,239  | 7,775  | 8,306  | 8,833  | 9,356  | 9,878  | 10,396 | 10,913 | 11,429 | 11,943 | 12,455 | 12,967 | 13,478 |        |
|             | 18 |             | 6,342  | 6,896  | 7,442  | 7,981  | 8,514  | 9,043  | 9,568  | 10,091 | 10,611 | 11,130 | 11,646 | 12,161 | 12,675 | 13,188 |        |
|             | 19 |             |        | 6,537  | 7,095  | 7,644  | 8,185  | 8,720  | 9,251  | 9,779  | 10,303 | 10,825 | 11,345 | 11,863 | 12,379 | 12,894 |        |
|             | 20 |             |        |        | 6,732  | 7,294  | 7,845  | 8,388  | 8,926  | 9,459  | 9,988  | 10,515 | 11,038 | 11,559 | 12,079 | 12,596 |        |
|             | 21 |             |        |        |        | 6,348  | 6,927  | 7,491  | 8,045  | 8,591  | 9,131  | 9,666  | 10,198 | 10,725 | 11,250 | 11,773 | 12,293 |
|             | 22 |             |        |        |        |        | 6,538  | 7,120  | 7,688  | 8,245  | 8,793  | 9,335  | 9,873  | 10,406 | 10,935 | 11,461 | 11,985 |
|             | 23 |             |        |        |        |        |        | 6,727  | 7,313  | 7,884  | 8,443  | 8,994  | 9,539  | 10,078 | 10,613 | 11,144 | 11,672 |
|             | 24 |             |        |        |        |        |        |        | 6,915  | 7,505  | 8,079  | 8,641  | 9,195  | 9,742  | 10,282 | 10,819 | 11,352 |
|             | 25 |             |        |        |        |        |        |        |        | 7,103  | 7,697  | 8,273  | 8,839  | 9,395  | 9,943  | 10,486 | 11,024 |
|             | 26 |             |        |        |        |        |        |        |        |        | 7,291  | 7,887  | 8,468  | 9,035  | 9,593  | 10,144 | 10,689 |
|             | 27 |             |        |        |        |        |        |        |        |        |        | 7,477  | 8,078  | 8,661  | 9,231  | 9,791  | 10,344 |
|             | 28 |             |        |        |        |        |        |        |        |        |        |        | 7,664  | 8,267  | 8,853  | 9,426  | 9,989  |
|             | 29 |             |        |        |        |        |        |        |        |        |        |        |        | 7,850  | 8,456  | 9,045  | 9,620  |
|             | 30 |             |        |        |        |        |        |        |        |        |        |        |        |        | 8,035  | 8,645  | 9,236  |
|             | 31 |             |        |        |        |        |        |        |        |        |        |        |        |        |        | 8,219  | 8,833  |
|             | 32 |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 8,404  |



# CENTER DISTANCE

## TABLE IN TEETH

|           |  | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|           |  | 37          | 38     | 39     | 40     | 41     | 42     | 43     | 44     | 45     | 46     | 47     | 48     | 49     | 50     | 51     |
| <b>1</b>  |  | 18,250      | 18,750 | 19,250 | 19,750 | 20,250 | 20,750 | 21,250 | 21,750 | 22,250 | 22,750 | 23,250 | 23,750 | 24,250 | 24,750 | 25,250 |
| <b>2</b>  |  | 17,998      | 18,498 | 18,998 | 19,498 | 19,998 | 20,498 | 20,998 | 21,498 | 21,998 | 22,498 | 22,998 | 23,498 | 23,998 | 24,498 | 24,998 |
| <b>3</b>  |  | 17,744      | 18,244 | 18,744 | 19,245 | 19,745 | 20,245 | 20,745 | 21,245 | 21,745 | 22,245 | 22,745 | 23,246 | 23,746 | 24,246 | 24,746 |
| <b>4</b>  |  | 17,489      | 17,989 | 18,489 | 18,990 | 19,490 | 19,990 | 20,491 | 20,991 | 21,491 | 21,991 | 22,491 | 22,992 | 23,492 | 23,992 | 24,492 |
| <b>5</b>  |  | 17,232      | 17,733 | 18,233 | 18,734 | 19,234 | 19,734 | 20,235 | 20,735 | 21,236 | 21,736 | 22,236 | 22,737 | 23,237 | 23,737 | 24,237 |
| <b>6</b>  |  | 16,974      | 17,474 | 17,975 | 18,476 | 18,976 | 19,477 | 19,978 | 20,478 | 20,979 | 21,479 | 21,980 | 22,480 | 22,981 | 23,481 | 23,981 |
| <b>7</b>  |  | 16,713      | 17,214 | 17,715 | 18,216 | 18,717 | 19,218 | 19,719 | 20,220 | 20,721 | 21,221 | 21,722 | 22,223 | 22,723 | 23,224 | 23,724 |
| <b>8</b>  |  | 16,451      | 16,953 | 17,454 | 17,955 | 18,457 | 18,958 | 19,459 | 19,960 | 20,461 | 20,962 | 21,463 | 21,964 | 22,464 | 22,965 | 23,466 |
| <b>9</b>  |  | 16,187      | 16,689 | 17,191 | 17,692 | 18,194 | 18,696 | 19,197 | 19,698 | 20,200 | 20,701 | 21,202 | 21,703 | 22,204 | 22,705 | 23,206 |
| <b>10</b> |  | 15,921      | 16,423 | 16,926 | 17,428 | 17,930 | 18,432 | 18,934 | 19,435 | 19,937 | 20,438 | 20,940 | 21,441 | 21,943 | 22,444 | 22,945 |
| <b>11</b> |  | 15,652      | 16,156 | 16,658 | 17,161 | 17,664 | 18,166 | 18,668 | 19,170 | 19,673 | 20,174 | 20,676 | 21,178 | 21,680 | 22,181 | 22,683 |
| <b>12</b> |  | 15,382      | 15,886 | 16,389 | 16,892 | 17,396 | 17,898 | 18,401 | 18,904 | 19,406 | 19,909 | 20,411 | 20,913 | 21,415 | 21,917 | 22,419 |
| <b>13</b> |  | 15,109      | 15,613 | 16,117 | 16,622 | 17,125 | 17,629 | 18,132 | 18,635 | 19,139 | 19,641 | 20,144 | 20,647 | 21,149 | 21,652 | 22,154 |
| <b>14</b> |  | 14,833      | 15,338 | 15,844 | 16,348 | 16,853 | 17,357 | 17,861 | 18,365 | 18,869 | 19,372 | 19,875 | 20,379 | 20,881 | 21,384 | 21,887 |
| <b>15</b> |  | 14,554      | 15,061 | 15,567 | 16,073 | 16,578 | 17,083 | 17,588 | 18,093 | 18,597 | 19,101 | 19,605 | 20,109 | 20,612 | 21,115 | 21,618 |
| <b>16</b> |  | 14,273      | 14,781 | 15,288 | 15,795 | 16,301 | 16,807 | 17,313 | 17,818 | 18,323 | 18,828 | 19,333 | 19,837 | 20,341 | 20,845 | 21,348 |
| <b>17</b> |  | 13,988      | 14,497 | 15,006 | 15,514 | 16,021 | 16,529 | 17,035 | 17,541 | 18,047 | 18,553 | 19,058 | 19,563 | 20,068 | 20,572 | 21,077 |
| <b>18</b> |  | 13,700      | 14,211 | 14,721 | 15,230 | 15,739 | 16,247 | 16,755 | 17,262 | 17,769 | 18,275 | 18,782 | 19,287 | 19,793 | 20,298 | 20,803 |
| <b>19</b> |  | 13,408      | 13,921 | 14,433 | 14,943 | 15,454 | 15,963 | 16,472 | 16,980 | 17,488 | 17,996 | 18,503 | 19,009 | 19,516 | 20,022 | 20,527 |
| <b>20</b> |  | 13,112      | 13,627 | 14,141 | 14,653 | 15,165 | 15,676 | 16,186 | 16,696 | 17,205 | 17,714 | 18,222 | 18,729 | 19,236 | 19,743 | 20,250 |
| <b>21</b> |  | 12,812      | 13,329 | 13,845 | 14,360 | 14,873 | 15,386 | 15,898 | 16,409 | 16,919 | 17,429 | 17,938 | 18,447 | 18,955 | 19,463 | 19,970 |
| <b>22</b> |  | 12,507      | 13,027 | 13,545 | 14,062 | 14,578 | 15,092 | 15,606 | 16,119 | 16,630 | 17,142 | 17,652 | 18,162 | 18,671 | 19,180 | 19,688 |
| <b>23</b> |  | 12,197      | 12,720 | 13,241 | 13,761 | 14,279 | 14,795 | 15,311 | 15,825 | 16,339 | 16,851 | 17,363 | 17,874 | 18,385 | 18,895 | 19,404 |
| <b>24</b> |  | 11,881      | 12,408 | 12,932 | 13,455 | 13,975 | 14,494 | 15,012 | 15,528 | 16,044 | 16,558 | 17,071 | 17,584 | 18,096 | 18,607 | 19,118 |
| <b>25</b> |  | 11,559      | 12,090 | 12,618 | 13,143 | 13,667 | 14,189 | 14,709 | 15,228 | 15,745 | 16,261 | 16,776 | 17,291 | 17,804 | 18,317 | 18,828 |
| <b>26</b> |  | 11,229      | 11,765 | 12,297 | 12,827 | 13,354 | 13,879 | 14,402 | 14,923 | 15,443 | 15,961 | 16,478 | 16,994 | 17,509 | 18,023 | 18,537 |
| <b>27</b> |  | 10,891      | 11,433 | 11,971 | 12,505 | 13,036 | 13,564 | 14,090 | 14,614 | 15,136 | 15,657 | 16,176 | 16,694 | 17,211 | 17,727 | 18,242 |
| <b>28</b> |  | 10,544      | 11,093 | 11,636 | 12,175 | 12,711 | 13,243 | 13,773 | 14,300 | 14,826 | 15,349 | 15,871 | 16,391 | 16,910 | 17,428 | 17,944 |
| <b>29</b> |  | 10,186      | 10,743 | 11,293 | 11,839 | 12,380 | 12,917 | 13,451 | 13,981 | 14,510 | 15,036 | 15,561 | 16,084 | 16,605 | 17,125 | 17,643 |
| <b>30</b> |  | 9,814       | 10,382 | 10,941 | 11,494 | 12,041 | 12,583 | 13,122 | 13,657 | 14,189 | 14,719 | 15,247 | 15,772 | 16,296 | 16,818 | 17,339 |
| <b>31</b> |  | 9,427       | 10,008 | 10,577 | 11,139 | 11,693 | 12,242 | 12,766 | 13,326 | 13,863 | 14,396 | 14,927 | 15,456 | 15,983 | 16,507 | 17,031 |
| <b>32</b> |  | 9,020       | 9,617  | 10,200 | 10,772 | 11,336 | 11,892 | 12,443 | 12,989 | 13,530 | 14,068 | 14,603 | 15,135 | 15,665 | 16,193 | 16,719 |
| <b>33</b> |  | 8,587       | 9,207  | 9,807  | 10,392 | 10,966 | 11,532 | 12,090 | 12,642 | 13,190 | 13,733 | 14,273 | 14,809 | 15,342 | 15,873 | 16,402 |
| <b>34</b> |  |             | 8,770  | 9,393  | 9,996  | 10,584 | 11,160 | 11,728 | 12,288 | 12,842 | 13,392 | 13,936 | 14,477 | 15,014 | 15,549 | 16,081 |
| <b>35</b> |  |             |        | 8,953  | 9,579  | 10,185 | 10,775 | 11,354 | 11,923 | 12,485 | 13,042 | 13,592 | 14,138 | 14,680 | 15,219 | 15,755 |
| <b>36</b> |  |             |        |        | 9,136  | 9,765  | 10,373 | 10,966 | 11,547 | 12,118 | 12,683 | 13,240 | 13,792 | 14,340 | 14,883 | 15,423 |
| <b>37</b> |  |             |        |        |        | 9,318  | 9,950  | 10,561 | 11,156 | 11,739 | 12,313 | 12,879 | 13,438 | 13,992 | 14,541 | 15,086 |
| <b>38</b> |  |             |        |        |        |        | 9,500  | 10,135 | 10,749 | 11,346 | 11,932 | 12,508 | 13,075 | 13,636 | 14,191 | 14,741 |
| <b>39</b> |  |             |        |        |        |        |        | 9,682  | 10,320 | 10,936 | 11,536 | 12,124 | 12,701 | 13,270 | 13,833 | 14,390 |
| <b>40</b> |  |             |        |        |        |        |        |        | 9,863  | 10,504 | 11,123 | 11,725 | 12,315 | 12,894 | 13,465 | 14,030 |
| <b>41</b> |  |             |        |        |        |        |        |        |        | 10,044 | 10,688 | 11,310 | 11,914 | 12,506 | 13,087 | 13,660 |
| <b>42</b> |  |             |        |        |        |        |        |        |        |        | 10,225 | 10,872 | 11,496 | 12,102 | 12,696 | 13,279 |
| <b>43</b> |  |             |        |        |        |        |        |        |        |        |        | 10,406 | 11,055 | 11,681 | 12,290 | 12,886 |
| <b>44</b> |  |             |        |        |        |        |        |        |        |        |        |        | 10,586 | 11,238 | 11,867 | 12,478 |
| <b>45</b> |  |             |        |        |        |        |        |        |        |        |        |        |        | 10,765 | 11,420 | 12,052 |
| <b>46</b> |  |             |        |        |        |        |        |        |        |        |        |        |        |        | 10,945 | 11,603 |
| <b>47</b> |  |             |        |        |        |        |        |        |        |        |        |        |        |        |        | 11,124 |
| <b>48</b> |  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

$Z_2 - Z_1$





# CENTER DISTANCE

## TABLE IN TEETH

|             |    | $Z_B - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |    | 52          | 53     | 54     | 55     | 56     | 57     | 58     | 59     | 60     | 61     | 62     | 63     | 64     | 65     | 66     |
| $Z_2 - Z_1$ | 1  | 25,750      | 26,250 | 26,750 | 27,250 | 27,750 | 28,250 | 28,750 | 29,250 | 29,750 | 30,250 | 30,750 | 31,250 | 31,750 | 32,250 | 32,750 |
|             | 2  | 25,498      | 25,999 | 26,499 | 26,999 | 27,499 | 27,999 | 28,499 | 28,999 | 29,499 | 29,999 | 30,499 | 30,999 | 31,499 | 31,999 | 32,499 |
|             | 3  | 25,246      | 25,746 | 26,246 | 26,746 | 27,246 | 27,746 | 28,246 | 28,746 | 29,247 | 29,747 | 30,247 | 30,747 | 31,247 | 31,747 | 32,247 |
|             | 4  | 24,992      | 25,493 | 25,993 | 26,493 | 26,993 | 27,493 | 27,993 | 28,493 | 28,993 | 29,494 | 29,994 | 30,494 | 30,994 | 31,494 | 31,994 |
|             | 5  | 24,738      | 25,238 | 25,738 | 26,238 | 26,739 | 27,239 | 27,739 | 28,239 | 28,739 | 29,240 | 29,740 | 30,240 | 30,740 | 31,240 | 31,740 |
|             | 6  | 24,482      | 24,982 | 25,483 | 25,983 | 26,483 | 26,984 | 27,484 | 27,984 | 28,484 | 28,985 | 29,485 | 29,985 | 30,486 | 30,986 | 31,486 |
|             | 7  | 24,225      | 24,725 | 25,226 | 25,726 | 26,227 | 26,727 | 27,228 | 27,728 | 28,228 | 28,729 | 29,229 | 29,730 | 30,230 | 30,730 | 31,231 |
|             | 8  | 23,967      | 24,467 | 24,968 | 25,469 | 25,969 | 26,470 | 26,970 | 27,471 | 27,971 | 28,472 | 28,972 | 29,473 | 29,973 | 30,474 | 30,974 |
|             | 9  | 23,707      | 24,208 | 24,709 | 25,210 | 25,711 | 26,211 | 26,712 | 27,213 | 27,713 | 28,214 | 28,715 | 29,215 | 29,716 | 30,217 | 30,717 |
|             | 10 | 23,446      | 23,948 | 24,449 | 24,950 | 25,451 | 25,952 | 26,453 | 26,953 | 27,454 | 27,955 | 28,456 | 28,957 | 29,457 | 29,958 | 30,459 |
|             | 11 | 23,184      | 23,686 | 24,187 | 24,688 | 25,190 | 25,691 | 26,192 | 26,693 | 27,194 | 27,695 | 28,196 | 28,697 | 29,198 | 29,699 | 30,200 |
|             | 12 | 22,921      | 23,423 | 23,924 | 24,426 | 24,927 | 25,429 | 25,930 | 26,431 | 26,933 | 27,434 | 27,935 | 28,436 | 28,937 | 29,438 | 29,940 |
|             | 13 | 22,656      | 23,158 | 23,660 | 24,162 | 24,664 | 25,165 | 25,667 | 26,169 | 26,670 | 27,172 | 27,673 | 28,174 | 28,676 | 29,177 | 29,678 |
|             | 14 | 22,389      | 22,892 | 23,394 | 23,896 | 24,399 | 24,901 | 25,403 | 25,905 | 26,406 | 26,908 | 27,410 | 27,911 | 28,413 | 28,915 | 29,416 |
|             | 15 | 22,122      | 22,624 | 23,127 | 23,630 | 24,132 | 24,635 | 25,137 | 25,639 | 26,141 | 26,643 | 27,145 | 27,647 | 28,149 | 28,651 | 29,153 |
|             | 16 | 21,852      | 22,355 | 22,858 | 23,362 | 23,864 | 24,367 | 24,870 | 25,373 | 25,875 | 26,377 | 26,880 | 27,382 | 27,884 | 28,386 | 28,888 |
|             | 17 | 21,581      | 22,085 | 22,588 | 23,092 | 23,595 | 24,098 | 24,602 | 25,105 | 25,607 | 26,110 | 26,613 | 27,115 | 27,618 | 28,120 | 28,622 |
|             | 18 | 21,308      | 21,812 | 22,316 | 22,820 | 23,324 | 23,828 | 24,332 | 24,835 | 25,338 | 25,842 | 26,345 | 26,847 | 27,350 | 27,853 | 28,356 |
|             | 19 | 21,033      | 21,538 | 22,043 | 22,547 | 23,052 | 23,556 | 24,060 | 24,564 | 25,068 | 25,571 | 26,075 | 26,578 | 27,081 | 27,585 | 28,088 |
|             | 20 | 20,757      | 21,262 | 21,767 | 22,273 | 22,778 | 23,283 | 23,787 | 24,292 | 24,796 | 25,300 | 25,804 | 26,308 | 26,811 | 27,315 | 27,818 |
|             | 21 | 20,477      | 20,984 | 21,490 | 21,996 | 22,502 | 23,007 | 23,512 | 24,018 | 24,522 | 25,027 | 25,531 | 26,036 | 26,540 | 27,044 | 27,547 |
|             | 22 | 20,196      | 20,704 | 21,211 | 21,718 | 22,224 | 22,730 | 23,236 | 23,742 | 24,247 | 24,752 | 25,257 | 25,762 | 26,267 | 26,771 | 27,275 |
|             | 23 | 19,913      | 20,421 | 20,930 | 21,437 | 21,944 | 22,451 | 22,958 | 23,464 | 23,970 | 24,476 | 24,982 | 25,487 | 25,992 | 26,497 | 27,002 |
|             | 24 | 19,628      | 20,137 | 20,646 | 21,155 | 21,663 | 22,171 | 22,678 | 23,185 | 23,692 | 24,198 | 24,705 | 25,211 | 25,716 | 26,222 | 26,727 |
|             | 25 | 19,340      | 19,850 | 20,360 | 20,870 | 21,379 | 21,888 | 22,396 | 22,904 | 23,412 | 23,919 | 24,426 | 24,932 | 25,439 | 25,945 | 26,451 |
|             | 26 | 19,049      | 19,561 | 20,072 | 20,583 | 21,093 | 21,603 | 22,112 | 22,621 | 23,129 | 23,637 | 24,145 | 24,652 | 25,159 | 25,666 | 26,173 |
|             | 27 | 18,756      | 19,269 | 19,782 | 20,294 | 20,805 | 21,316 | 21,826 | 22,336 | 22,845 | 23,354 | 23,862 | 24,371 | 24,878 | 25,386 | 25,893 |
|             | 28 | 18,460      | 18,975 | 19,489 | 20,002 | 20,514 | 21,026 | 21,538 | 22,049 | 22,559 | 23,069 | 23,578 | 24,087 | 24,596 | 25,104 | 25,612 |
|             | 29 | 18,161      | 18,677 | 19,193 | 19,707 | 20,221 | 20,735 | 21,247 | 21,759 | 22,270 | 22,781 | 23,292 | 23,802 | 24,311 | 24,820 | 25,329 |
|             | 30 | 17,858      | 18,377 | 18,894 | 19,410 | 19,926 | 20,440 | 20,954 | 21,467 | 21,980 | 22,492 | 23,003 | 23,514 | 24,024 | 24,534 | 25,044 |
|             | 31 | 17,552      | 18,073 | 18,592 | 19,110 | 19,627 | 20,143 | 20,658 | 21,173 | 21,687 | 22,200 | 22,712 | 23,224 | 23,736 | 24,247 | 24,757 |
|             | 32 | 17,243      | 17,765 | 18,287 | 18,807 | 19,325 | 19,843 | 20,360 | 20,876 | 21,391 | 21,906 | 22,419 | 22,933 | 23,445 | 23,957 | 24,468 |
|             | 33 | 16,929      | 17,454 | 17,978 | 18,500 | 19,021 | 19,540 | 20,059 | 20,576 | 21,093 | 21,609 | 22,124 | 22,638 | 23,152 | 23,665 | 24,178 |
|             | 34 | 16,611      | 17,139 | 17,665 | 18,189 | 18,712 | 19,234 | 19,755 | 20,274 | 20,792 | 21,310 | 21,826 | 22,342 | 22,857 | 23,371 | 23,885 |
|             | 35 | 16,288      | 16,819 | 17,348 | 17,875 | 18,401 | 18,925 | 19,447 | 19,968 | 20,488 | 21,007 | 21,526 | 22,043 | 22,559 | 23,075 | 23,590 |
|             | 36 | 15,961      | 16,495 | 17,027 | 17,557 | 18,085 | 18,611 | 19,136 | 19,659 | 20,182 | 20,702 | 21,222 | 21,741 | 22,259 | 22,776 | 23,292 |
|             | 37 | 15,627      | 16,166 | 16,701 | 17,234 | 17,765 | 18,294 | 18,821 | 19,347 | 19,871 | 20,394 | 20,916 | 21,436 | 21,956 | 22,474 | 22,992 |
|             | 38 | 15,288      | 15,830 | 16,370 | 16,907 | 17,441 | 17,973 | 18,503 | 19,031 | 19,558 | 20,083 | 20,606 | 21,129 | 21,650 | 22,170 | 22,690 |
|             | 39 | 14,942      | 15,489 | 16,033 | 16,574 | 17,112 | 17,647 | 18,180 | 18,711 | 19,240 | 19,768 | 20,294 | 20,818 | 21,341 | 21,863 | 22,384 |
|             | 40 | 14,588      | 15,141 | 15,690 | 16,236 | 16,777 | 17,316 | 17,853 | 18,387 | 18,919 | 19,449 | 19,977 | 20,504 | 21,029 | 21,553 | 22,076 |
|             | 41 | 14,226      | 14,786 | 15,340 | 15,891 | 16,437 | 16,980 | 17,521 | 18,058 | 18,593 | 19,126 | 19,657 | 20,186 | 20,714 | 21,240 | 21,765 |
|             | 42 | 13,854      | 14,422 | 14,983 | 15,539 | 16,091 | 16,639 | 17,183 | 17,724 | 18,263 | 18,799 | 19,333 | 19,865 | 20,395 | 20,923 | 21,450 |
|             | 43 | 13,471      | 14,048 | 14,617 | 15,180 | 15,737 | 16,291 | 16,840 | 17,385 | 17,928 | 18,467 | 19,004 | 19,539 | 20,072 | 20,603 | 21,132 |
|             | 44 | 13,076      | 13,663 | 14,241 | 14,812 | 15,376 | 15,935 | 16,490 | 17,040 | 17,587 | 18,130 | 18,671 | 19,209 | 19,745 | 20,279 | 20,811 |
|             | 45 | 12,665      | 13,265 | 13,854 | 14,434 | 15,006 | 15,572 | 16,133 | 16,689 | 17,240 | 17,788 | 18,333 | 18,875 | 19,414 | 19,951 | 20,485 |
|             | 46 | 12,237      | 12,852 | 13,454 | 14,045 | 14,627 | 15,201 | 15,768 | 16,330 | 16,887 | 17,440 | 17,989 | 18,535 | 19,078 | 19,618 | 20,156 |
|             | 47 | 11,784      | 12,420 | 13,039 | 13,642 | 14,235 | 14,818 | 15,394 | 15,963 | 16,527 | 17,085 | 17,639 | 18,189 | 18,736 | 19,280 | 19,821 |
|             | 48 | 11,303      | 11,966 | 12,605 | 13,225 | 13,831 | 14,425 | 15,010 | 15,587 | 16,158 | 16,723 | 17,283 | 17,838 | 18,390 | 18,938 | 19,482 |
|             | 49 |             | 11,482 | 12,148 | 12,789 | 13,411 | 14,019 | 14,615 | 15,202 | 15,781 | 16,353 | 16,919 | 17,480 | 18,037 | 18,589 | 19,138 |
|             | 50 |             |        | 11,660 | 12,329 | 12,972 | 13,597 | 14,207 | 14,805 | 15,394 | 15,974 | 16,547 | 17,115 | 17,677 | 18,235 | 18,788 |
|             | 51 |             |        | 11,131 | 11,839 | 12,510 | 13,155 | 13,782 | 14,394 | 14,994 | 15,584 | 16,166 | 16,741 | 17,310 | 17,874 | 18,432 |
|             | 52 |             |        |        | 11,307 | 12,017 | 12,691 | 13,339 | 13,967 | 14,582 | 15,183 | 15,775 | 16,358 | 16,935 | 17,505 | 18,070 |
|             | 53 |             |        |        |        | 11,482 | 12,195 | 12,871 | 13,521 | 14,153 | 14,768 | 15,372 | 15,965 | 16,550 | 17,128 | 17,699 |
|             | 54 |             |        |        |        |        | 11,656 | 12,372 | 13,051 | 13,704 | 14,337 | 14,955 | 15,560 | 16,155 | 16,742 | 17,321 |
|             | 55 |             |        |        |        |        |        | 11,831 | 12,550 | 13,232 | 13,887 | 14,522 | 15,141 | 15,748 | 16,345 | 16,933 |
|             | 56 |             |        |        |        |        |        |        | 12,006 | 12,728 | 13,412 | 14,069 | 14,706 | 15,327 | 15,936 | 16,534 |
|             | 57 |             |        |        |        |        |        |        |        | 12,180 | 12,905 | 13,591 | 14,251 | 14,890 | 15,513 | 16,123 |
|             | 58 |             |        |        |        |        |        |        |        |        | 12,355 | 13,082 | 13,771 | 14,432 | 15,073 | 15,699 |
|             | 59 |             |        |        |        |        |        |        |        |        |        | 12,529 | 13,259 | 13,950 | 14,614 | 15,257 |
|             | 60 |             |        |        |        |        |        |        |        |        |        |        | 12,702 | 13,435 | 14,129 | 14,795 |



# CENTER DISTANCE

## TABLE IN TEETH

|           |  | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|           |  | 67          | 68     | 69     | 70     | 71     | 72     | 73     | 74     | 75     | 76     | 77     | 78     | 79     | 80     | 81     |
| <b>1</b>  |  | 33,250      | 33,750 | 34,250 | 34,750 | 35,250 | 35,750 | 36,250 | 36,750 | 37,250 | 37,750 | 38,250 | 38,750 | 39,250 | 39,750 | 40,250 |
| <b>2</b>  |  | 32,999      | 33,499 | 33,999 | 34,499 | 34,999 | 35,499 | 35,999 | 36,499 | 36,999 | 37,499 | 37,999 | 38,499 | 38,999 | 39,499 | 39,999 |
| <b>3</b>  |  | 32,747      | 33,247 | 33,747 | 34,247 | 34,747 | 35,247 | 35,747 | 36,247 | 36,747 | 37,247 | 37,747 | 38,247 | 38,748 | 39,248 | 39,748 |
| <b>4</b>  |  | 32,494      | 32,994 | 33,494 | 33,994 | 34,495 | 34,995 | 35,495 | 35,995 | 36,495 | 36,995 | 37,495 | 37,995 | 38,495 | 38,995 | 39,495 |
| <b>5</b>  |  | 32,241      | 32,741 | 33,241 | 33,741 | 34,241 | 34,741 | 35,241 | 35,742 | 36,242 | 36,742 | 37,242 | 37,742 | 38,242 | 38,742 | 39,242 |
| <b>6</b>  |  | 31,986      | 32,486 | 32,987 | 33,487 | 33,987 | 34,487 | 34,987 | 35,488 | 35,988 | 36,488 | 36,988 | 37,488 | 37,988 | 38,489 | 38,989 |
| <b>7</b>  |  | 31,731      | 32,231 | 32,732 | 33,232 | 33,732 | 34,232 | 34,733 | 35,233 | 35,733 | 36,233 | 36,734 | 37,234 | 37,734 | 38,234 | 38,734 |
| <b>8</b>  |  | 31,475      | 31,975 | 32,475 | 32,976 | 33,476 | 33,977 | 34,477 | 34,977 | 35,478 | 35,978 | 36,478 | 36,979 | 37,479 | 37,979 | 38,479 |
| <b>9</b>  |  | 31,218      | 31,718 | 32,219 | 32,719 | 33,220 | 33,720 | 34,220 | 34,721 | 35,221 | 35,722 | 36,222 | 36,723 | 37,223 | 37,723 | 38,224 |
| <b>10</b> |  | 30,960      | 31,460 | 31,961 | 32,461 | 32,962 | 33,463 | 33,963 | 34,464 | 34,964 | 35,465 | 35,965 | 36,466 | 36,966 | 37,467 | 37,967 |
| <b>11</b> |  | 30,701      | 31,201 | 31,702 | 32,203 | 32,704 | 33,204 | 33,705 | 34,206 | 34,706 | 35,207 | 35,708 | 36,208 | 36,709 | 37,209 | 37,710 |
| <b>12</b> |  | 30,441      | 30,941 | 31,442 | 31,943 | 32,444 | 32,945 | 33,446 | 33,947 | 34,448 | 34,948 | 35,449 | 35,950 | 36,450 | 36,951 | 37,452 |
| <b>13</b> |  | 30,179      | 30,681 | 31,182 | 31,683 | 32,184 | 32,685 | 33,186 | 33,687 | 34,188 | 34,689 | 35,190 | 35,690 | 36,191 | 36,692 | 37,193 |
| <b>14</b> |  | 29,917      | 30,419 | 30,920 | 31,421 | 31,923 | 32,424 | 32,925 | 33,426 | 33,927 | 34,428 | 34,929 | 35,430 | 35,931 | 36,432 | 36,933 |
| <b>15</b> |  | 29,654      | 30,156 | 30,657 | 31,159 | 31,660 | 32,162 | 32,663 | 33,165 | 33,666 | 34,167 | 34,668 | 35,169 | 35,671 | 36,172 | 36,673 |
| <b>16</b> |  | 29,390      | 29,892 | 30,394 | 30,895 | 31,397 | 31,899 | 32,400 | 32,902 | 33,403 | 33,905 | 34,406 | 34,908 | 35,409 | 35,910 | 36,411 |
| <b>17</b> |  | 29,125      | 29,627 | 30,129 | 30,631 | 31,133 | 31,635 | 32,136 | 32,638 | 33,140 | 33,642 | 34,143 | 34,645 | 35,146 | 35,648 | 36,149 |
| <b>18</b> |  | 28,858      | 29,361 | 29,863 | 30,365 | 30,867 | 31,370 | 31,872 | 32,374 | 32,876 | 33,377 | 33,879 | 34,381 | 34,883 | 35,384 | 35,886 |
| <b>19</b> |  | 28,590      | 29,093 | 29,596 | 30,098 | 30,601 | 31,103 | 31,606 | 32,108 | 32,610 | 33,112 | 33,614 | 34,116 | 34,618 | 35,120 | 35,622 |
| <b>20</b> |  | 28,321      | 28,825 | 29,328 | 29,830 | 30,333 | 30,836 | 31,339 | 31,841 | 32,344 | 32,846 | 33,348 | 33,851 | 34,353 | 34,855 | 35,357 |
| <b>21</b> |  | 28,051      | 28,555 | 29,058 | 29,561 | 30,064 | 30,568 | 31,071 | 31,573 | 32,076 | 32,579 | 33,081 | 33,584 | 34,086 | 34,589 | 35,091 |
| <b>22</b> |  | 27,779      | 28,283 | 28,787 | 29,291 | 29,794 | 30,298 | 30,801 | 31,304 | 31,808 | 32,311 | 32,813 | 33,316 | 33,819 | 34,322 | 34,824 |
| <b>23</b> |  | 27,507      | 28,011 | 28,515 | 29,019 | 29,523 | 30,027 | 30,531 | 31,034 | 31,538 | 32,041 | 32,544 | 33,048 | 33,551 | 34,054 | 34,556 |
| <b>24</b> |  | 27,232      | 27,737 | 28,242 | 28,746 | 29,251 | 29,755 | 30,259 | 30,763 | 31,267 | 31,771 | 32,274 | 32,778 | 33,281 | 33,784 | 34,287 |
| <b>25</b> |  | 26,956      | 27,462 | 27,967 | 28,472 | 28,977 | 29,482 | 29,986 | 30,490 | 30,995 | 31,499 | 32,003 | 32,507 | 33,010 | 33,514 | 34,017 |
| <b>26</b> |  | 26,679      | 27,185 | 27,691 | 28,196 | 28,702 | 29,207 | 29,712 | 30,217 | 30,721 | 31,226 | 31,730 | 32,234 | 32,739 | 33,243 | 33,746 |
| <b>27</b> |  | 26,400      | 26,907 | 27,413 | 27,919 | 28,425 | 28,931 | 29,436 | 29,942 | 30,447 | 30,952 | 31,456 | 31,961 | 32,466 | 32,970 | 33,474 |
| <b>28</b> |  | 26,119      | 26,627 | 27,134 | 27,640 | 28,147 | 28,653 | 29,159 | 29,665 | 30,171 | 30,676 | 31,181 | 31,687 | 32,191 | 32,696 | 33,201 |
| <b>29</b> |  | 25,837      | 26,345 | 26,853 | 27,360 | 27,867 | 28,374 | 28,881 | 29,387 | 29,893 | 30,399 | 30,905 | 31,411 | 31,916 | 32,421 | 32,926 |
| <b>30</b> |  | 25,553      | 26,062 | 26,570 | 27,078 | 27,586 | 28,094 | 28,601 | 29,108 | 29,615 | 30,121 | 30,628 | 31,134 | 31,639 | 32,145 | 32,651 |
| <b>31</b> |  | 25,267      | 25,777 | 26,286 | 26,795 | 27,303 | 27,812 | 28,320 | 28,827 | 29,335 | 29,842 | 30,349 | 30,855 | 31,362 | 31,868 | 32,374 |
| <b>32</b> |  | 24,979      | 25,490 | 26,000 | 26,510 | 27,019 | 27,528 | 28,037 | 28,545 | 29,053 | 29,561 | 30,068 | 30,575 | 31,082 | 31,589 | 32,096 |
| <b>33</b> |  | 24,690      | 25,201 | 25,712 | 26,223 | 26,733 | 27,243 | 27,752 | 28,261 | 28,770 | 29,278 | 29,786 | 30,294 | 30,802 | 31,309 | 31,816 |
| <b>34</b> |  | 24,398      | 24,910 | 25,422 | 25,934 | 26,445 | 26,955 | 27,466 | 27,975 | 28,485 | 28,994 | 29,503 | 30,011 | 30,519 | 31,027 | 31,535 |
| <b>35</b> |  | 24,104      | 24,617 | 25,131 | 25,643 | 26,155 | 26,666 | 27,178 | 27,688 | 28,198 | 28,708 | 29,218 | 29,727 | 30,236 | 30,744 | 31,253 |
| <b>36</b> |  | 23,808      | 24,322 | 24,837 | 25,350 | 25,863 | 26,376 | 26,888 | 27,399 | 27,910 | 28,421 | 28,931 | 29,441 | 29,951 | 30,460 | 30,969 |
| <b>37</b> |  | 23,509      | 24,024 | 24,540 | 25,055 | 25,569 | 26,083 | 26,596 | 27,108 | 27,620 | 28,132 | 28,643 | 29,154 | 29,664 | 30,174 | 30,684 |
| <b>38</b> |  | 23,208      | 23,725 | 24,242 | 24,758 | 25,273 | 25,788 | 26,302 | 26,816 | 27,328 | 27,841 | 28,353 | 28,865 | 29,376 | 29,886 | 30,397 |
| <b>39</b> |  | 22,904      | 23,423 | 23,941 | 24,459 | 24,975 | 25,491 | 26,006 | 26,521 | 27,035 | 27,548 | 28,061 | 28,574 | 29,086 | 29,597 | 30,108 |
| <b>40</b> |  | 22,598      | 23,118 | 23,638 | 24,157 | 24,675 | 25,192 | 25,708 | 26,224 | 26,739 | 27,253 | 27,767 | 28,281 | 28,794 | 29,306 | 29,818 |
| <b>41</b> |  | 22,288      | 22,811 | 23,332 | 23,852 | 24,372 | 24,890 | 25,408 | 25,925 | 26,441 | 26,957 | 27,472 | 27,986 | 28,500 | 29,014 | 29,526 |
| <b>42</b> |  | 21,976      | 22,500 | 23,023 | 23,545 | 24,066 | 24,586 | 25,105 | 25,624 | 26,141 | 26,658 | 27,174 | 27,690 | 28,205 | 28,719 | 29,233 |
| <b>43</b> |  | 21,660      | 22,186 | 22,711 | 23,235 | 23,758 | 24,279 | 24,800 | 25,320 | 25,839 | 26,357 | 26,874 | 27,391 | 27,907 | 28,422 | 28,937 |
| <b>44</b> |  | 21,341      | 21,869 | 22,396 | 22,922 | 23,447 | 23,970 | 24,492 | 25,014 | 25,534 | 26,054 | 26,572 | 27,090 | 27,607 | 28,124 | 28,640 |
| <b>45</b> |  | 21,018      | 21,549 | 22,078 | 22,606 | 23,133 | 23,658 | 24,182 | 24,705 | 25,227 | 25,748 | 26,268 | 26,787 | 27,306 | 27,823 | 28,341 |
| <b>46</b> |  | 20,691      | 21,225 | 21,757 | 22,287 | 22,815 | 23,343 | 23,869 | 24,393 | 24,917 | 25,440 | 25,961 | 26,482 | 27,002 | 27,521 | 28,039 |
| <b>47</b> |  | 20,360      | 20,897 | 21,431 | 21,964 | 22,495 | 23,024 | 23,552 | 24,079 | 24,604 | 25,129 | 25,652 | 26,174 | 26,695 | 27,216 | 27,735 |
| <b>48</b> |  | 20,025      | 20,564 | 21,102 | 21,637 | 22,171 | 22,703 | 23,233 | 23,761 | 24,289 | 24,815 | 25,340 | 25,864 | 26,387 | 26,909 | 27,430 |
| <b>49</b> |  | 19,684      | 20,228 | 20,768 | 21,307 | 21,843 | 22,377 | 22,910 | 23,441 | 23,970 | 24,498 | 25,025 | 25,551 | 26,075 | 26,599 | 27,121 |
| <b>50</b> |  | 19,339      | 19,886 | 20,430 | 20,972 | 21,511 | 22,048 | 22,583 | 23,117 | 23,648 | 24,179 | 24,707 | 25,235 | 25,761 | 26,286 | 26,811 |
| <b>51</b> |  | 18,987      | 19,539 | 20,087 | 20,632 | 21,175 | 21,715 | 22,253 | 22,789 | 23,323 | 23,856 | 24,387 | 24,916 | 25,444 | 25,971 | 26,497 |
| <b>52</b> |  | 18,630      | 19,186 | 19,739 | 20,288 | 20,834 | 21,377 | 21,919 | 22,457 | 22,994 | 23,529 | 24,063 | 24,594 | 25,125 | 25,654 | 26,181 |
| <b>53</b> |  | 18,266      | 18,827 | 19,384 | 19,938 | 20,488 | 21,035 | 21,580 | 22,122 | 22,662 | 23,199 | 23,735 | 24,269 | 24,802 | 25,333 | 25,862 |
| <b>54</b> |  | 17,894      | 18,461 | 19,024 | 19,582 | 20,137 | 20,688 | 21,236 | 21,782 | 22,325 | 22,865 | 23,404 | 23,941 | 24,475 | 25,009 | 25,540 |
| <b>55</b> |  | 17,513      | 18,088 | 18,656 | 19,220 | 19,780 | 20,336 | 20,888 | 21,437 | 21,983 | 22,527 | 23,069 | 23,608 | 24,146 | 24,681 | 25,215 |
| <b>56</b> |  | 17,124      | 17,706 | 18,281 | 18,851 | 19,416 | 19,977 | 20,534 | 21,087 | 21,637 | 22,185 | 22,730 | 23,272 | 23,812 | 24,350 | 24,887 |
| <b>57</b> |  | 16,723      | 17,314 | 17,898 | 18,475 | 19,046 | 19,612 | 20,174 | 20,732 | 21,286 | 21,837 | 22,386 | 22,931 | 23,475 | 24,016 | 24,555 |
| <b>58</b> |  | 16,311      | 16,912 | 17,505 | 18,089 | 18,668 | 19,240 | 19,808 | 20,371 | 20,930 | 21,485 | 22,037 | 22,586 | 23,133 | 23,677 | 24,219 |
| <b>59</b> |  | 15,884      | 16,498 | 17,101 | 17,695 | 18,281 | 18,860 | 19,434 | 20,003 | 20,567 | 21,127 | 21,683 | 22,237 | 22,787 | 23,334 | 23,879 |
| <b>60</b> |  | 15,440      | 16,089 | 16,684 | 17,289 | 17,884 | 18,472 | 19,053 | 19,628 | 20,198 | 20,763 | 21,324 | 21,882 | 22,436 | 22,987 | 23,535 |



# CENTER DISTANCE

## TABLE IN TEETH

|             |    | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |    | 82          | 83     | 84     | 85     | 86     | 87     | 88     | 89     | 90     | 91     | 92     | 93     | 94     | 95     | 96     |
| $Z_2 - Z_1$ | 1  | 40,750      | 41,250 | 41,750 | 42,250 | 42,750 | 43,250 | 43,750 | 44,250 | 44,750 | 45,250 | 45,750 | 46,250 | 46,750 | 47,250 | 47,750 |
|             | 2  | 40,499      | 40,999 | 41,499 | 41,999 | 42,499 | 42,999 | 43,499 | 43,999 | 44,499 | 44,999 | 45,499 | 45,999 | 46,499 | 46,999 | 47,499 |
|             | 3  | 40,248      | 40,748 | 41,248 | 41,748 | 42,248 | 42,748 | 43,248 | 43,748 | 44,248 | 44,748 | 45,248 | 45,748 | 46,248 | 46,748 | 47,248 |
|             | 4  | 39,995      | 40,495 | 40,996 | 41,496 | 41,996 | 42,496 | 42,996 | 43,496 | 43,996 | 44,496 | 44,996 | 45,496 | 45,996 | 46,496 | 46,996 |
|             | 5  | 39,742      | 40,243 | 40,743 | 41,243 | 41,743 | 42,243 | 42,743 | 43,243 | 43,743 | 44,243 | 44,743 | 45,243 | 45,744 | 46,244 | 46,744 |
|             | 6  | 39,489      | 39,989 | 40,489 | 40,989 | 41,489 | 41,990 | 42,490 | 42,990 | 43,490 | 43,990 | 44,490 | 44,990 | 45,490 | 45,991 | 46,491 |
|             | 7  | 39,235      | 39,735 | 40,235 | 40,735 | 41,235 | 41,736 | 42,236 | 42,736 | 43,236 | 43,736 | 44,236 | 44,737 | 45,237 | 45,737 | 46,237 |
|             | 8  | 38,980      | 39,480 | 39,980 | 40,480 | 40,981 | 41,481 | 41,981 | 42,481 | 42,982 | 43,482 | 43,982 | 44,482 | 44,982 | 45,483 | 45,983 |
|             | 9  | 38,724      | 39,224 | 39,725 | 40,225 | 40,725 | 41,226 | 41,726 | 42,226 | 42,726 | 43,227 | 43,727 | 44,227 | 44,728 | 45,228 | 45,728 |
|             | 10 | 38,468      | 38,968 | 39,468 | 39,969 | 40,469 | 40,970 | 41,470 | 41,970 | 42,471 | 42,971 | 43,471 | 43,972 | 44,472 | 44,972 | 45,473 |
|             | 11 | 38,210      | 28,711 | 39,211 | 39,712 | 40,212 | 40,713 | 41,213 | 41,714 | 42,214 | 42,715 | 43,215 | 43,715 | 44,216 | 44,716 | 45,217 |
|             | 12 | 37,952      | 38,453 | 38,954 | 39,454 | 39,955 | 40,455 | 40,956 | 41,456 | 41,957 | 42,458 | 42,958 | 43,458 | 43,959 | 44,459 | 44,960 |
|             | 13 | 37,694      | 38,194 | 38,695 | 39,196 | 39,697 | 40,197 | 40,698 | 41,199 | 41,699 | 42,200 | 42,700 | 43,201 | 43,701 | 44,202 | 44,703 |
|             | 14 | 37,434      | 37,935 | 38,436 | 38,937 | 39,438 | 39,938 | 40,439 | 40,940 | 41,441 | 41,941 | 42,442 | 42,943 | 43,443 | 43,944 | 44,445 |
|             | 15 | 37,174      | 37,675 | 38,176 | 38,677 | 39,178 | 39,679 | 40,180 | 40,680 | 41,181 | 41,682 | 42,183 | 42,684 | 43,184 | 43,685 | 44,186 |
|             | 16 | 36,913      | 37,414 | 37,915 | 38,416 | 38,917 | 39,418 | 39,919 | 40,420 | 40,921 | 41,422 | 41,923 | 42,424 | 42,925 | 43,426 | 43,927 |
|             | 17 | 36,650      | 37,152 | 37,653 | 38,154 | 38,656 | 39,157 | 39,658 | 40,159 | 40,660 | 41,161 | 41,663 | 42,164 | 42,665 | 43,166 | 43,667 |
|             | 18 | 36,388      | 36,889 | 37,391 | 37,892 | 38,394 | 38,895 | 39,396 | 39,898 | 40,399 | 40,900 | 41,401 | 41,902 | 42,404 | 42,905 | 43,406 |
|             | 19 | 36,124      | 36,626 | 37,127 | 37,629 | 38,130 | 38,632 | 39,134 | 39,635 | 40,136 | 40,638 | 41,139 | 41,641 | 42,142 | 42,643 | 43,144 |
|             | 20 | 35,859      | 36,361 | 36,863 | 37,365 | 37,867 | 38,368 | 38,870 | 39,372 | 39,873 | 40,375 | 40,876 | 41,378 | 41,879 | 42,381 | 42,882 |
|             | 21 | 35,593      | 36,096 | 36,598 | 37,100 | 37,602 | 38,104 | 38,606 | 39,108 | 39,609 | 40,111 | 40,613 | 41,115 | 41,616 | 42,118 | 42,619 |
|             | 22 | 35,327      | 35,829 | 36,336 | 36,834 | 37,336 | 37,838 | 38,340 | 38,843 | 39,345 | 39,846 | 40,348 | 40,850 | 41,352 | 41,854 | 42,356 |
|             | 23 | 35,059      | 35,562 | 36,065 | 36,567 | 37,070 | 37,572 | 38,074 | 38,577 | 39,079 | 39,581 | 40,083 | 40,585 | 41,087 | 41,589 | 42,091 |
|             | 24 | 34,791      | 35,294 | 35,796 | 36,299 | 36,802 | 37,305 | 37,807 | 38,310 | 38,812 | 39,315 | 39,817 | 40,319 | 40,822 | 41,324 | 41,826 |
|             | 25 | 34,521      | 35,024 | 35,527 | 36,031 | 36,534 | 37,037 | 37,539 | 38,042 | 38,545 | 39,048 | 39,550 | 40,053 | 40,555 | 41,057 | 41,560 |
|             | 26 | 34,250      | 34,754 | 35,257 | 35,761 | 36,264 | 36,767 | 37,270 | 37,774 | 38,277 | 38,779 | 39,282 | 39,785 | 40,288 | 40,790 | 41,293 |
|             | 27 | 33,978      | 34,482 | 34,986 | 35,490 | 35,994 | 36,497 | 37,001 | 37,504 | 38,007 | 38,510 | 39,014 | 39,517 | 40,020 | 40,522 | 41,025 |
|             | 28 | 33,705      | 34,210 | 34,714 | 35,218 | 35,722 | 36,226 | 36,730 | 37,233 | 37,737 | 38,240 | 38,744 | 39,247 | 39,750 | 40,254 | 40,757 |
|             | 29 | 33,431      | 33,936 | 34,441 | 34,945 | 35,450 | 35,954 | 36,458 | 36,962 | 37,466 | 37,970 | 38,473 | 38,977 | 39,480 | 39,984 | 40,487 |
|             | 30 | 33,156      | 33,661 | 34,166 | 34,671 | 35,176 | 35,681 | 36,185 | 36,689 | 37,194 | 37,698 | 38,202 | 38,706 | 39,209 | 39,713 | 40,217 |
|             | 31 | 32,880      | 33,385 | 33,891 | 34,396 | 34,901 | 35,406 | 35,911 | 36,416 | 36,920 | 37,425 | 37,929 | 38,433 | 38,937 | 39,441 | 39,945 |
|             | 32 | 32,602      | 33,108 | 33,614 | 34,120 | 34,625 | 35,131 | 35,636 | 36,141 | 36,646 | 37,151 | 37,656 | 38,160 | 38,665 | 39,169 | 39,673 |
|             | 33 | 32,323      | 32,829 | 33,336 | 33,842 | 34,348 | 34,854 | 35,360 | 35,865 | 36,371 | 36,876 | 37,381 | 37,886 | 38,391 | 38,895 | 39,400 |
|             | 34 | 32,042      | 32,550 | 33,057 | 33,563 | 34,070 | 34,576 | 35,082 | 35,588 | 36,094 | 36,600 | 37,105 | 37,611 | 38,116 | 38,621 | 39,126 |
|             | 35 | 31,761      | 32,268 | 32,776 | 33,283 | 33,790 | 34,297 | 34,804 | 35,310 | 35,816 | 36,322 | 36,828 | 37,334 | 37,840 | 38,345 | 38,850 |
|             | 36 | 31,478      | 31,986 | 32,494 | 33,002 | 33,509 | 34,017 | 34,524 | 35,031 | 35,538 | 36,044 | 36,550 | 37,057 | 37,563 | 38,068 | 38,574 |
|             | 37 | 31,193      | 31,702 | 32,211 | 32,719 | 33,227 | 33,735 | 34,243 | 34,750 | 35,258 | 35,765 | 36,271 | 36,778 | 37,284 | 37,791 | 38,297 |
|             | 38 | 30,907      | 31,417 | 31,926 | 32,435 | 32,944 | 33,452 | 33,961 | 34,468 | 34,976 | 35,484 | 35,991 | 36,498 | 37,005 | 37,512 | 38,018 |
|             | 39 | 30,619      | 31,130 | 31,640 | 32,149 | 32,659 | 33,168 | 33,677 | 34,185 | 34,694 | 35,202 | 35,710 | 36,217 | 36,725 | 37,232 | 37,739 |
|             | 40 | 30,330      | 30,841 | 31,352 | 31,862 | 32,372 | 32,882 | 33,392 | 33,901 | 34,410 | 34,919 | 35,427 | 35,935 | 36,443 | 36,951 | 37,458 |
|             | 41 | 30,039      | 30,551 | 31,062 | 31,574 | 32,085 | 32,595 | 33,105 | 33,615 | 34,125 | 34,634 | 35,143 | 35,652 | 36,160 | 36,668 | 37,176 |
|             | 42 | 29,746      | 30,259 | 30,772 | 31,284 | 31,795 | 32,306 | 32,817 | 33,328 | 33,838 | 34,348 | 34,858 | 35,367 | 35,876 | 36,385 | 36,893 |
|             | 43 | 29,245      | 29,765 | 30,279 | 30,792 | 31,304 | 31,816 | 32,328 | 32,839 | 33,350 | 34,061 | 34,571 | 35,081 | 35,590 | 36,100 | 36,609 |
|             | 44 | 29,155      | 29,670 | 30,184 | 30,698 | 31,212 | 31,724 | 32,237 | 32,749 | 33,260 | 33,772 | 34,283 | 34,793 | 35,304 | 35,814 | 36,323 |
|             | 45 | 28,857      | 29,373 | 29,888 | 30,403 | 30,917 | 31,431 | 31,944 | 32,457 | 32,969 | 33,481 | 33,993 | 34,504 | 35,015 | 35,526 | 36,036 |
|             | 46 | 28,557      | 29,074 | 29,590 | 30,106 | 30,621 | 31,136 | 31,650 | 32,164 | 32,677 | 33,190 | 33,702 | 34,214 | 34,726 | 35,237 | 35,748 |
|             | 47 | 28,254      | 28,772 | 29,290 | 29,807 | 30,323 | 30,839 | 31,354 | 31,868 | 32,383 | 32,896 | 33,410 | 33,922 | 34,435 | 34,947 | 35,458 |
|             | 48 | 27,950      | 28,469 | 28,988 | 29,506 | 30,023 | 30,540 | 31,056 | 31,572 | 32,087 | 32,601 | 33,115 | 33,629 | 34,142 | 34,655 | 35,167 |
|             | 49 | 27,643      | 28,164 | 28,684 | 29,203 | 29,721 | 30,239 | 30,756 | 31,273 | 31,789 | 32,304 | 32,819 | 33,334 | 33,848 | 34,362 | 34,875 |
|             | 50 | 27,334      | 27,856 | 28,377 | 28,898 | 29,417 | 29,936 | 30,455 | 30,972 | 31,489 | 32,006 | 32,522 | 33,037 | 33,552 | 34,067 | 34,581 |
|             | 51 | 27,022      | 27,546 | 28,068 | 28,590 | 29,111 | 29,632 | 30,151 | 30,670 | 31,188 | 31,706 | 32,223 | 32,739 | 33,255 | 33,770 | 34,285 |
|             | 52 | 26,708      | 27,233 | 27,757 | 28,281 | 28,803 | 29,325 | 29,845 | 30,365 | 30,885 | 31,403 | 31,921 | 32,439 | 32,956 | 33,472 | 33,988 |
|             | 53 | 26,391      | 26,918 | 27,444 | 27,969 | 28,492 | 29,015 | 29,538 | 30,059 | 30,579 | 31,099 | 31,618 | 32,137 | 32,655 | 33,172 | 33,689 |
|             | 54 | 26,071      | 26,600 | 27,127 | 27,654 | 28,179 | 28,704 | 29,228 | 29,750 | 30,272 | 30,793 | 31,313 | 31,833 | 32,352 | 32,870 | 33,388 |
|             | 55 | 25,748      | 26,279 | 26,808 | 27,337 | 27,864 | 28,390 | 28,915 | 29,439 | 29,962 | 30,485 | 31,006 | 31,527 | 32,047 | 32,567 | 33,086 |
|             | 56 | 25,421      | 25,955 | 26,486 | 27,017 | 27,546 | 28,073 | 28,600 | 29,126 | 29,651 | 30,174 | 30,697 | 31,219 | 31,741 | 32,261 | 32,781 |
|             | 57 | 25,092      | 25,627 | 26,161 | 26,694 | 27,224 | 27,754 | 28,283 | 28,810 | 29,336 | 29,862 | 30,386 | 30,909 | 31,432 | 31,954 | 32,475 |
|             | 58 | 24,759      | 25,297 | 25,833 | 26,367 | 26,900 | 27,432 | 27,962 | 28,492 | 29,020 | 29,546 | 30,072 | 30,597 | 31,121 | 31,644 | 32,167 |
|             | 59 | 24,422      | 24,963 | 25,501 | 26,038 | 26,573 | 27,107 | 27,639 | 28,170 | 28,700 | 29,229 | 29,756 | 30,283 | 30,808 | 31,333 | 31,856 |
|             | 60 | 24,081      | 24,624 | 25,166 | 25,705 | 26,243 | 26,779 | 27,313 | 27,846 | 28,378 | 28,908 | 29,438 | 29,966 | 30,493 | 31,019 | 31,544 |



# CENTER DISTANCE

## TABLE IN TEETH

|           |             | $Z_B - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|           |             | 97          | 98     | 99     | 100    | 101    | 102    | 103    | 104    | 105    | 106    | 107    | 108    | 109    | 110    | 111    |
| <b>1</b>  | $Z_2 - Z_1$ | 48,250      | 48,750 | 49,250 | 49,750 | 50,250 | 50,750 | 51,250 | 51,750 | 52,250 | 52,750 | 53,250 | 53,750 | 54,250 | 54,750 | 55,250 |
| <b>2</b>  |             | 47,999      | 48,499 | 48,999 | 49,499 | 49,999 | 50,499 | 50,999 | 51,499 | 51,999 | 52,499 | 52,999 | 53,500 | 54,000 | 54,500 | 55,000 |
| <b>3</b>  |             | 47,748      | 48,248 | 48,748 | 49,248 | 49,748 | 50,248 | 50,748 | 51,248 | 51,748 | 52,248 | 52,748 | 53,248 | 53,748 | 54,248 | 54,748 |
| <b>4</b>  |             | 47,496      | 47,996 | 48,496 | 48,996 | 49,496 | 49,996 | 50,496 | 50,996 | 51,497 | 51,997 | 52,497 | 52,997 | 53,497 | 53,997 | 54,497 |
| <b>5</b>  |             | 47,244      | 47,744 | 48,244 | 48,744 | 49,244 | 49,744 | 50,244 | 50,744 | 51,244 | 51,744 | 52,244 | 52,744 | 53,245 | 53,745 | 54,245 |
| <b>6</b>  |             | 46,991      | 47,491 | 47,991 | 48,491 | 48,991 | 49,491 | 49,991 | 50,491 | 50,992 | 51,492 | 51,992 | 52,492 | 52,992 | 53,492 | 53,992 |
| <b>7</b>  |             | 46,737      | 47,237 | 47,737 | 48,238 | 48,738 | 49,238 | 49,738 | 50,238 | 50,738 | 51,238 | 51,738 | 52,239 | 52,739 | 53,239 | 53,739 |
| <b>8</b>  |             | 46,483      | 46,983 | 47,483 | 47,984 | 48,484 | 48,984 | 49,484 | 49,984 | 50,484 | 50,985 | 51,485 | 51,985 | 52,485 | 52,985 | 53,485 |
| <b>9</b>  |             | 46,228      | 46,728 | 47,229 | 47,729 | 48,229 | 48,729 | 49,230 | 49,730 | 50,230 | 50,730 | 51,230 | 51,731 | 52,231 | 52,731 | 53,231 |
| <b>10</b> |             | 45,973      | 46,473 | 46,973 | 47,474 | 47,974 | 48,474 | 48,975 | 49,475 | 49,975 | 50,475 | 50,976 | 51,476 | 51,976 | 52,476 | 52,977 |
| <b>11</b> |             | 45,717      | 46,217 | 46,718 | 47,218 | 47,718 | 48,219 | 48,719 | 49,219 | 49,720 | 50,220 | 50,720 | 51,221 | 51,721 | 52,221 | 52,721 |
| <b>12</b> |             | 45,460      | 45,961 | 46,461 | 46,962 | 47,462 | 47,962 | 48,463 | 48,963 | 49,464 | 49,964 | 50,464 | 50,965 | 51,465 | 51,965 | 52,466 |
| <b>13</b> |             | 45,203      | 45,704 | 46,204 | 46,705 | 47,205 | 47,706 | 48,206 | 48,707 | 49,207 | 49,707 | 50,208 | 50,708 | 51,209 | 51,709 | 52,209 |
| <b>14</b> |             | 44,945      | 45,446 | 45,946 | 46,447 | 46,948 | 47,448 | 47,949 | 48,449 | 48,950 | 49,450 | 49,951 | 50,451 | 50,952 | 51,452 | 51,953 |
| <b>15</b> |             | 44,687      | 45,187 | 45,688 | 46,189 | 46,689 | 47,190 | 47,691 | 48,191 | 48,692 | 49,192 | 49,693 | 50,194 | 50,694 | 51,195 | 51,695 |
| <b>16</b> |             | 44,427      | 44,928 | 45,429 | 45,930 | 46,431 | 46,931 | 47,432 | 47,933 | 48,434 | 48,934 | 49,435 | 49,935 | 50,436 | 50,937 | 51,437 |
| <b>17</b> |             | 44,168      | 44,669 | 45,169 | 45,670 | 46,171 | 46,672 | 47,173 | 47,674 | 48,174 | 48,675 | 49,176 | 49,677 | 50,178 | 50,678 | 51,179 |
| <b>18</b> |             | 43,907      | 44,408 | 44,909 | 45,410 | 45,911 | 46,412 | 46,913 | 47,414 | 47,915 | 48,416 | 48,917 | 49,417 | 49,918 | 50,419 | 50,920 |
| <b>19</b> |             | 43,646      | 44,147 | 44,648 | 45,149 | 45,650 | 46,151 | 46,652 | 47,153 | 47,654 | 48,155 | 48,656 | 49,157 | 49,658 | 50,159 | 50,660 |
| <b>20</b> |             | 43,384      | 43,885 | 44,386 | 44,888 | 45,389 | 45,890 | 46,391 | 46,892 | 47,394 | 47,895 | 48,396 | 48,897 | 49,398 | 49,899 | 50,400 |
| <b>21</b> |             | 43,121      | 43,622 | 44,124 | 44,625 | 45,127 | 45,628 | 46,129 | 46,631 | 47,132 | 47,633 | 48,134 | 48,636 | 49,137 | 49,638 | 50,139 |
| <b>22</b> |             | 42,857      | 43,359 | 43,861 | 44,362 | 44,864 | 45,365 | 45,867 | 46,368 | 46,870 | 47,371 | 47,872 | 48,374 | 48,875 | 49,376 | 49,877 |
| <b>23</b> |             | 42,593      | 43,095 | 43,597 | 44,098 | 44,600 | 45,102 | 45,603 | 46,105 | 46,607 | 47,108 | 47,610 | 48,111 | 48,613 | 49,114 | 49,615 |
| <b>24</b> |             | 42,328      | 42,830 | 43,332 | 43,834 | 44,336 | 44,838 | 45,339 | 45,841 | 46,343 | 46,845 | 47,346 | 47,848 | 48,349 | 48,851 | 49,353 |
| <b>25</b> |             | 42,062      | 42,564 | 43,067 | 43,569 | 44,071 | 44,573 | 45,075 | 45,577 | 46,079 | 46,580 | 47,082 | 47,584 | 48,086 | 48,587 | 49,089 |
| <b>26</b> |             | 41,795      | 42,298 | 42,800 | 43,303 | 43,805 | 44,307 | 44,809 | 45,311 | 45,813 | 46,315 | 46,817 | 47,319 | 47,821 | 48,323 | 48,825 |
| <b>27</b> |             | 41,528      | 42,031 | 42,533 | 43,036 | 43,538 | 44,041 | 44,543 | 45,045 | 45,548 | 46,050 | 46,552 | 47,054 | 47,556 | 48,058 | 48,560 |
| <b>28</b> |             | 41,260      | 41,762 | 42,265 | 42,768 | 43,271 | 43,773 | 44,276 | 44,779 | 45,281 | 45,783 | 46,286 | 46,788 | 47,290 | 47,793 | 48,295 |
| <b>29</b> |             | 40,990      | 41,493 | 41,997 | 42,500 | 43,003 | 43,505 | 44,008 | 44,511 | 45,014 | 45,516 | 46,019 | 46,521 | 47,024 | 47,526 | 48,029 |
| <b>30</b> |             | 40,720      | 41,224 | 41,727 | 42,230 | 42,733 | 43,237 | 43,740 | 44,243 | 44,745 | 45,248 | 45,751 | 46,254 | 46,756 | 47,259 | 47,762 |
| <b>31</b> |             | 40,449      | 40,953 | 41,457 | 41,960 | 42,464 | 42,967 | 43,470 | 43,973 | 44,477 | 44,980 | 45,483 | 45,986 | 46,488 | 46,991 | 47,494 |
| <b>32</b> |             | 40,177      | 40,681 | 41,185 | 41,689 | 42,193 | 42,696 | 43,200 | 43,703 | 44,207 | 44,710 | 45,213 | 45,716 | 46,220 | 46,723 | 47,226 |
| <b>33</b> |             | 39,904      | 40,409 | 40,913 | 41,417 | 41,921 | 42,425 | 42,929 | 43,433 | 43,936 | 44,440 | 44,943 | 45,447 | 45,950 | 46,453 | 46,956 |
| <b>34</b> |             | 39,630      | 40,135 | 40,640 | 41,144 | 41,648 | 42,153 | 42,657 | 43,161 | 43,665 | 44,169 | 44,672 | 45,176 | 45,680 | 46,183 | 46,687 |
| <b>35</b> |             | 39,356      | 39,861 | 40,365 | 40,870 | 41,375 | 41,879 | 42,384 | 42,888 | 43,392 | 43,897 | 44,401 | 44,905 | 45,408 | 45,912 | 46,416 |
| <b>36</b> |             | 39,080      | 39,585 | 40,090 | 40,595 | 41,100 | 41,605 | 42,110 | 42,615 | 43,119 | 43,624 | 44,128 | 44,632 | 45,136 | 45,640 | 46,144 |
| <b>37</b> |             | 38,803      | 39,309 | 39,814 | 40,320 | 40,825 | 41,330 | 41,835 | 42,340 | 42,845 | 43,350 | 43,854 | 44,359 | 44,863 | 45,368 | 45,872 |
| <b>38</b> |             | 38,525      | 39,031 | 39,537 | 40,043 | 40,549 | 41,054 | 41,560 | 42,065 | 42,570 | 43,075 | 43,580 | 44,085 | 44,590 | 45,094 | 45,599 |
| <b>39</b> |             | 38,246      | 38,752 | 39,259 | 39,765 | 40,271 | 40,777 | 41,283 | 41,789 | 42,294 | 42,800 | 43,305 | 43,810 | 44,315 | 44,820 | 45,325 |
| <b>40</b> |             | 37,965      | 38,473 | 38,979 | 39,486 | 39,993 | 40,499 | 41,005 | 41,511 | 42,017 | 42,523 | 43,029 | 43,534 | 44,040 | 45,545 | 45,050 |
| <b>41</b> |             | 37,684      | 38,192 | 38,699 | 39,206 | 39,713 | 40,220 | 40,727 | 41,233 | 41,739 | 42,245 | 42,751 | 43,257 | 43,763 | 44,269 | 44,774 |
| <b>42</b> |             | 37,402      | 37,910 | 38,417 | 38,925 | 39,433 | 39,940 | 40,447 | 40,954 | 41,460 | 41,967 | 42,473 | 42,980 | 43,486 | 43,992 | 44,497 |
| <b>43</b> |             | 37,118      | 37,626 | 38,135 | 38,643 | 39,151 | 39,659 | 40,166 | 40,673 | 41,180 | 41,687 | 42,194 | 42,701 | 43,207 | 43,714 | 44,220 |
| <b>44</b> |             | 36,833      | 37,342 | 37,851 | 38,359 | 38,868 | 39,376 | 39,884 | 40,392 | 40,899 | 41,407 | 41,914 | 42,421 | 42,928 | 43,435 | 43,941 |
| <b>45</b> |             | 36,546      | 37,056 | 37,566 | 38,075 | 38,584 | 39,093 | 39,601 | 40,109 | 40,617 | 41,125 | 41,633 | 42,140 | 42,648 | 43,155 | 43,662 |
| <b>46</b> |             | 36,259      | 36,769 | 37,279 | 37,789 | 38,299 | 38,808 | 39,317 | 39,826 | 40,334 | 40,843 | 41,351 | 41,859 | 42,366 | 42,874 | 43,381 |
| <b>47</b> |             | 35,970      | 36,481 | 36,992 | 37,502 | 38,012 | 38,522 | 39,031 | 39,541 | 40,050 | 40,559 | 41,067 | 41,576 | 42,084 | 42,592 | 43,100 |
| <b>48</b> |             | 35,679      | 36,191 | 36,702 | 37,214 | 37,724 | 38,235 | 38,754 | 39,255 | 39,764 | 40,274 | 40,783 | 41,292 | 41,800 | 42,309 | 42,817 |
| <b>49</b> |             | 35,388      | 35,900 | 36,412 | 36,924 | 37,435 | 37,946 | 38,457 | 38,967 | 39,478 | 39,988 | 40,497 | 41,007 | 41,516 | 42,025 | 42,533 |
| <b>50</b> |             | 35,094      | 35,607 | 36,120 | 36,633 | 37,145 | 37,656 | 38,168 | 38,679 | 39,190 | 39,700 | 40,210 | 40,720 | 41,230 | 41,740 | 42,249 |
| <b>51</b> |             | 34,799      | 35,313 | 35,827 | 36,340 | 36,853 | 37,365 | 37,877 | 38,389 | 38,900 | 39,412 | 39,922 | 40,433 | 40,943 | 41,453 | 41,963 |
| <b>52</b> |             | 34,503      | 35,018 | 35,532 | 36,046 | 36,560 | 37,073 | 37,586 | 38,098 | 38,610 | 39,122 | 39,633 | 40,144 | 40,655 | 41,166 | 41,676 |
| <b>53</b> |             | 34,205      | 34,721 | 35,236 | 35,751 | 36,265 | 36,779 | 37,292 | 37,805 | 38,318 | 38,831 | 39,343 | 39,854 | 40,366 | 40,877 | 41,388 |
| <b>54</b> |             | 33,905      | 34,422 | 34,938 | 35,454 | 35,969 | 36,483 | 36,998 | 37,512 | 38,025 | 38,538 | 39,051 | 39,563 | 40,075 | 40,587 | 41,099 |
| <b>55</b> |             | 33,604      | 34,121 | 34,638 | 35,155 | 35,671 | 36,186 | 36,702 | 37,216 | 37,730 | 38,244 | 38,758 | 39,271 | 39,783 | 40,296 | 40,808 |
| <b>56</b> |             | 33,300      | 33,819 | 34,337 | 34,855 | 35,372 | 35,888 | 36,404 | 36,919 | 37,434 | 37,949 | 38,463 | 38,977 | 39,490 | 40,003 | 40,516 |
| <b>57</b> |             | 32,995      | 33,515 | 34,034 | 34,553 | 35,070 | 35,588 | 36,105 | 36,621 | 37,137 | 37,652 | 38,167 | 38,682 | 39,196 | 39,710 | 40,223 |
| <b>58</b> |             | 32,688      | 33,209 | 33,729 | 34,249 | 34,768 | 35,286 | 35,804 | 36,321 | 36,838 | 37,354 | 37,870 | 38,385 | 38,900 | 39,414 | 39,929 |
| <b>59</b> |             | 32,379      | 32,901 | 33,422 | 33,943 | 34,463 | 34,982 | 35,501 | 36,019 | 36,537 | 37,054 | 37,571 | 38,087 | 38,603 | 39,118 | 39,633 |
| <b>60</b> |             | 32,068      | 32,591 | 33,114 | 33,636 | 34,157 | 34,677 | 35,197 | 35,716 | 36,235 | 36,753 | 37,270 | 37,787 | 38,304 | 38,820 | 39,336 |



# CENTER DISTANCE

## TABLE IN TEETH

|             |    | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |    | 112         | 113    | 114    | 115    | 116    | 117    | 118    | 119    | 120    | 121    | 122    | 123    | 124    | 125    | 126    |
| $Z_2 - Z_1$ | 1  | 55,750      | 56,250 | 56,750 | 57,250 | 57,750 | 58,250 | 58,750 | 59,250 | 59,750 | 60,250 | 60,750 | 61,250 | 61,750 | 62,250 | 62,750 |
|             | 2  | 55,500      | 56,000 | 56,500 | 57,000 | 57,500 | 58,000 | 58,500 | 59,000 | 59,500 | 60,000 | 60,500 | 61,000 | 61,500 | 62,000 | 62,500 |
|             | 3  | 55,248      | 55,748 | 56,248 | 56,748 | 57,248 | 57,748 | 58,248 | 58,749 | 59,249 | 59,749 | 60,249 | 60,749 | 61,249 | 61,749 | 62,249 |
|             | 4  | 54,997      | 55,497 | 55,997 | 56,497 | 56,997 | 57,497 | 57,997 | 58,497 | 58,997 | 59,497 | 59,997 | 60,497 | 60,997 | 61,497 | 61,997 |
|             | 5  | 54,745      | 55,245 | 55,745 | 56,245 | 56,745 | 57,245 | 57,745 | 58,245 | 58,745 | 59,245 | 59,745 | 60,245 | 60,745 | 61,245 | 61,745 |
|             | 6  | 54,492      | 54,992 | 55,492 | 55,992 | 56,492 | 56,992 | 57,493 | 57,993 | 58,493 | 58,993 | 59,493 | 59,993 | 60,493 | 60,993 | 61,493 |
|             | 7  | 54,239      | 54,739 | 55,239 | 55,739 | 56,239 | 56,740 | 57,240 | 57,740 | 58,240 | 58,740 | 59,240 | 59,740 | 60,240 | 60,740 | 61,240 |
|             | 8  | 53,985      | 54,486 | 54,986 | 55,486 | 55,986 | 56,486 | 56,986 | 57,486 | 57,986 | 58,487 | 58,987 | 59,487 | 59,987 | 60,487 | 60,987 |
|             | 9  | 53,731      | 54,232 | 54,732 | 55,232 | 55,732 | 56,232 | 56,732 | 57,232 | 57,733 | 58,233 | 58,733 | 59,233 | 59,733 | 60,233 | 60,734 |
|             | 10 | 53,477      | 53,977 | 54,477 | 54,977 | 55,478 | 55,978 | 56,478 | 56,978 | 57,478 | 57,979 | 58,479 | 58,979 | 59,479 | 59,979 | 60,479 |
|             | 11 | 53,222      | 53,722 | 54,222 | 54,722 | 55,223 | 55,723 | 56,223 | 56,723 | 57,224 | 57,724 | 58,224 | 58,724 | 59,225 | 59,725 | 60,225 |
|             | 12 | 52,966      | 53,466 | 53,967 | 54,467 | 54,967 | 55,468 | 55,968 | 56,468 | 56,968 | 57,469 | 57,969 | 58,469 | 58,970 | 59,470 | 59,970 |
|             | 13 | 52,710      | 53,210 | 53,711 | 54,211 | 54,711 | 55,212 | 55,712 | 56,212 | 56,713 | 57,213 | 57,713 | 58,214 | 58,714 | 59,214 | 59,715 |
|             | 14 | 52,453      | 52,954 | 53,454 | 53,954 | 54,455 | 54,955 | 55,456 | 55,956 | 56,456 | 56,957 | 57,457 | 57,958 | 58,458 | 58,958 | 59,459 |
|             | 15 | 52,196      | 52,696 | 53,197 | 53,697 | 54,198 | 54,698 | 55,199 | 55,699 | 56,200 | 56,700 | 57,201 | 57,701 | 58,201 | 58,702 | 59,202 |
|             | 16 | 51,938      | 52,439 | 52,938 | 53,440 | 53,940 | 54,441 | 54,941 | 55,442 | 55,943 | 56,443 | 56,943 | 57,444 | 57,944 | 58,445 | 58,945 |
|             | 17 | 51,680      | 52,180 | 52,681 | 53,182 | 53,682 | 54,183 | 54,684 | 55,184 | 55,685 | 56,185 | 56,686 | 57,186 | 57,687 | 58,188 | 58,688 |
|             | 18 | 51,421      | 51,921 | 52,422 | 52,923 | 53,424 | 53,924 | 54,425 | 54,926 | 55,426 | 55,927 | 56,428 | 56,928 | 57,429 | 57,930 | 58,430 |
|             | 19 | 51,161      | 51,662 | 52,163 | 52,664 | 53,164 | 53,665 | 54,166 | 54,667 | 55,168 | 55,668 | 56,169 | 56,670 | 57,170 | 57,671 | 58,172 |
|             | 20 | 50,901      | 51,402 | 51,903 | 52,404 | 52,905 | 53,406 | 53,906 | 54,407 | 54,908 | 55,409 | 55,910 | 56,411 | 56,911 | 57,412 | 57,913 |
|             | 21 | 50,640      | 51,141 | 51,642 | 52,143 | 52,644 | 53,145 | 53,646 | 54,147 | 54,648 | 55,149 | 55,650 | 56,151 | 56,652 | 57,153 | 57,654 |
|             | 22 | 50,379      | 50,880 | 51,381 | 51,882 | 52,383 | 52,885 | 53,386 | 53,887 | 54,388 | 54,889 | 55,390 | 55,891 | 56,392 | 56,893 | 57,394 |
|             | 23 | 50,117      | 50,618 | 51,119 | 51,621 | 52,122 | 52,623 | 53,124 | 53,625 | 54,127 | 54,628 | 55,129 | 55,630 | 56,131 | 56,632 | 57,133 |
|             | 24 | 49,854      | 50,355 | 50,857 | 51,358 | 51,860 | 52,361 | 52,862 | 53,364 | 53,865 | 54,366 | 54,867 | 55,369 | 55,870 | 56,371 | 56,872 |
|             | 25 | 49,591      | 50,092 | 50,594 | 51,095 | 51,597 | 52,098 | 52,600 | 53,101 | 53,603 | 54,104 | 54,605 | 55,107 | 55,608 | 56,109 | 56,611 |
|             | 26 | 49,327      | 49,829 | 50,330 | 50,832 | 51,334 | 51,835 | 52,337 | 52,838 | 53,340 | 53,841 | 54,343 | 54,844 | 55,346 | 55,847 | 56,348 |
|             | 27 | 49,062      | 49,564 | 50,066 | 50,568 | 51,070 | 51,571 | 52,073 | 52,575 | 53,076 | 53,578 | 54,080 | 54,581 | 55,083 | 55,584 | 56,086 |
|             | 28 | 48,797      | 49,299 | 49,801 | 50,303 | 50,805 | 51,307 | 51,809 | 52,311 | 52,812 | 53,314 | 53,816 | 54,318 | 54,819 | 55,321 | 55,822 |
|             | 29 | 48,531      | 49,033 | 49,535 | 50,037 | 50,540 | 51,042 | 51,544 | 52,046 | 52,548 | 53,050 | 53,551 | 54,053 | 54,555 | 55,057 | 55,559 |
|             | 30 | 48,264      | 48,767 | 49,269 | 49,771 | 50,274 | 50,776 | 51,278 | 51,780 | 52,282 | 52,784 | 53,286 | 53,788 | 54,290 | 54,792 | 55,294 |
|             | 31 | 47,997      | 48,499 | 49,002 | 49,504 | 50,007 | 50,509 | 51,012 | 51,514 | 52,016 | 52,519 | 53,021 | 53,523 | 54,025 | 54,527 | 55,029 |
|             | 32 | 47,728      | 48,231 | 48,734 | 49,237 | 49,739 | 50,242 | 50,745 | 51,247 | 51,750 | 52,252 | 52,754 | 53,257 | 53,759 | 54,261 | 54,763 |
|             | 33 | 47,460      | 47,963 | 48,466 | 48,969 | 49,471 | 49,974 | 50,477 | 50,980 | 51,482 | 51,985 | 52,487 | 52,990 | 53,492 | 53,995 | 54,497 |
|             | 34 | 47,190      | 47,693 | 48,196 | 48,699 | 49,203 | 49,706 | 50,209 | 50,711 | 51,214 | 51,717 | 52,220 | 52,723 | 53,225 | 53,728 | 54,230 |
|             | 35 | 46,919      | 47,423 | 47,926 | 48,430 | 48,933 | 49,436 | 49,939 | 50,443 | 50,946 | 51,449 | 51,952 | 52,454 | 52,957 | 53,460 | 53,963 |
|             | 36 | 46,648      | 47,152 | 47,656 | 48,159 | 48,663 | 49,166 | 49,670 | 50,173 | 50,676 | 51,179 | 51,683 | 52,186 | 52,689 | 53,192 | 53,694 |
|             | 37 | 46,376      | 46,880 | 47,384 | 47,888 | 48,392 | 48,895 | 49,399 | 49,903 | 50,406 | 50,910 | 51,413 | 51,916 | 52,419 | 52,923 | 53,426 |
|             | 38 | 46,103      | 46,608 | 47,112 | 47,616 | 48,120 | 48,624 | 49,128 | 49,632 | 50,135 | 50,639 | 51,142 | 51,646 | 52,149 | 52,653 | 53,156 |
|             | 39 | 45,829      | 46,334 | 46,839 | 47,343 | 47,847 | 48,352 | 48,856 | 49,360 | 49,864 | 50,368 | 50,871 | 51,375 | 51,879 | 52,382 | 52,886 |
|             | 40 | 45,555      | 46,060 | 46,565 | 47,069 | 47,574 | 48,078 | 48,583 | 49,087 | 49,591 | 50,095 | 50,599 | 51,103 | 51,607 | 52,111 | 52,615 |
|             | 41 | 45,279      | 45,785 | 56,290 | 46,795 | 47,300 | 47,804 | 48,309 | 48,814 | 49,318 | 49,823 | 50,327 | 50,831 | 51,335 | 51,839 | 52,343 |
|             | 42 | 45,003      | 45,509 | 46,014 | 46,519 | 47,025 | 47,530 | 48,035 | 48,539 | 49,044 | 49,549 | 50,053 | 50,558 | 51,062 | 51,567 | 52,071 |
|             | 43 | 44,726      | 45,232 | 45,737 | 46,243 | 46,749 | 47,254 | 47,759 | 48,264 | 48,769 | 49,274 | 49,779 | 50,284 | 50,789 | 51,293 | 51,798 |
|             | 44 | 44,448      | 44,954 | 45,460 | 45,966 | 46,472 | 46,978 | 47,483 | 47,988 | 48,494 | 48,999 | 49,504 | 50,009 | 50,514 | 51,019 | 51,524 |
|             | 45 | 44,169      | 44,675 | 45,182 | 45,688 | 46,194 | 46,700 | 47,206 | 47,712 | 48,218 | 48,723 | 49,229 | 49,734 | 50,239 | 50,744 | 51,249 |
|             | 46 | 43,888      | 44,395 | 44,902 | 45,409 | 45,916 | 46,422 | 46,928 | 47,434 | 47,940 | 48,446 | 48,952 | 49,458 | 49,963 | 50,469 | 50,974 |
|             | 47 | 43,607      | 44,115 | 44,622 | 45,129 | 45,636 | 46,143 | 46,649 | 47,156 | 47,662 | 48,168 | 48,675 | 49,180 | 49,686 | 50,192 | 50,698 |
|             | 48 | 43,325      | 43,833 | 44,341 | 44,848 | 45,356 | 45,863 | 46,370 | 46,877 | 47,383 | 47,890 | 48,396 | 48,903 | 49,409 | 49,915 | 50,421 |
|             | 49 | 43,042      | 43,550 | 44,058 | 44,566 | 45,074 | 45,582 | 46,089 | 46,596 | 47,103 | 47,610 | 48,117 | 48,624 | 49,130 | 49,637 | 50,143 |
|             | 50 | 42,758      | 43,267 | 43,775 | 44,283 | 44,792 | 45,300 | 45,807 | 46,315 | 46,823 | 47,330 | 47,837 | 48,344 | 48,851 | 49,358 | 49,864 |
|             | 51 | 42,472      | 42,982 | 43,491 | 44,000 | 44,508 | 45,017 | 45,525 | 46,033 | 46,541 | 47,049 | 47,556 | 48,063 | 48,571 | 49,078 | 49,585 |
|             | 52 | 42,186      | 42,696 | 43,205 | 43,715 | 44,224 | 44,733 | 45,241 | 45,750 | 46,258 | 46,766 | 47,274 | 47,782 | 48,290 | 48,797 | 49,304 |
|             | 53 | 41,898      | 42,409 | 42,919 | 43,429 | 43,938 | 44,448 | 44,957 | 45,466 | 45,974 | 46,483 | 46,991 | 47,499 | 48,007 | 48,515 | 49,023 |
|             | 54 | 41,610      | 42,121 | 42,631 | 43,142 | 43,652 | 44,161 | 44,671 | 45,181 | 45,690 | 46,199 | 46,708 | 47,216 | 47,724 | 48,233 | 48,741 |
|             | 55 | 41,320      | 41,831 | 42,342 | 42,853 | 43,364 | 43,874 | 44,384 | 44,894 | 45,404 | 45,913 | 46,423 | 46,932 | 47,441 | 47,949 | 48,458 |
|             | 56 | 41,029      | 41,541 | 42,052 | 42,564 | 43,075 | 43,586 | 44,097 | 44,607 | 45,117 | 45,627 | 46,137 | 46,646 | 47,156 | 47,665 | 48,174 |
|             | 57 | 40,736      | 41,249 | 41,761 | 42,273 | 42,785 | 43,297 | 43,808 | 44,319 | 44,829 | 45,340 | 45,850 | 46,360 | 46,870 | 47,379 | 47,889 |
|             | 58 | 40,442      | 40,956 | 41,469 | 41,981 | 42,494 | 43,006 | 43,518 | 44,029 | 44,540 | 45,051 | 45,562 | 46,073 | 46,583 | 47,093 | 47,603 |
|             | 59 | 40,147      | 40,661 | 41,175 | 41,688 | 42,201 | 42,714 | 43,226 | 43,739 | 44,250 | 44,762 | 45,273 | 45,784 | 46,295 | 46,805 | 47,316 |
|             | 60 | 39,851      | 40,366 | 40,880 | 41,394 | 41,908 | 42,421 | 42,934 | 43,447 | 43,959 | 44,471 | 44,983 | 45,495 | 46,006 | 46,517 | 47,028 |





# CENTER DISTANCE

## TABLE IN TEETH

|    | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|    | 127         | 128    | 129    | 130    | 131    | 132    | 133    | 134    | 135    | 136    | 137    | 138    | 139    | 140    | 141    |
| 1  | 63,250      | 63,750 | 64,250 | 64,750 | 65,250 | 65,750 | 66,250 | 66,750 | 67,250 | 67,750 | 68,250 | 68,750 | 69,250 | 69,750 | 70,250 |
| 2  | 63,000      | 64,500 | 64,000 | 64,500 | 65,000 | 65,500 | 66,000 | 66,500 | 67,000 | 67,500 | 68,000 | 68,500 | 69,000 | 69,500 | 70,000 |
| 3  | 62,749      | 63,249 | 63,749 | 64,249 | 64,749 | 65,249 | 65,749 | 66,249 | 66,749 | 67,249 | 67,749 | 68,249 | 68,749 | 69,249 | 69,749 |
| 4  | 62,497      | 62,997 | 63,497 | 63,997 | 64,497 | 64,997 | 65,497 | 65,997 | 66,497 | 66,997 | 67,497 | 67,997 | 68,497 | 68,998 | 69,498 |
| 5  | 62,245      | 62,745 | 62,245 | 63,745 | 64,246 | 64,746 | 65,246 | 65,746 | 66,246 | 66,746 | 67,246 | 67,746 | 68,246 | 68,746 | 69,246 |
| 6  | 61,993      | 62,493 | 62,993 | 63,493 | 63,993 | 64,493 | 64,993 | 65,493 | 65,994 | 66,494 | 66,994 | 67,494 | 67,994 | 68,494 | 68,994 |
| 7  | 61,740      | 62,240 | 62,741 | 63,241 | 63,741 | 64,241 | 64,741 | 65,241 | 65,741 | 66,241 | 66,741 | 67,241 | 67,741 | 68,241 | 68,741 |
| 8  | 61,487      | 61,987 | 62,487 | 62,988 | 63,488 | 63,988 | 64,488 | 64,988 | 65,488 | 65,988 | 66,488 | 66,988 | 67,488 | 67,989 | 68,489 |
| 9  | 61,234      | 61,734 | 62,234 | 62,734 | 63,234 | 63,734 | 64,235 | 64,735 | 65,235 | 65,735 | 66,235 | 66,735 | 67,235 | 67,735 | 68,235 |
| 10 | 60,980      | 61,480 | 61,980 | 62,480 | 62,980 | 63,480 | 63,981 | 64,481 | 64,981 | 65,481 | 65,981 | 66,481 | 66,982 | 67,482 | 67,982 |
| 11 | 60,725      | 61,225 | 61,726 | 62,226 | 62,726 | 63,226 | 63,726 | 64,227 | 64,727 | 65,227 | 65,727 | 66,227 | 66,727 | 67,228 | 67,728 |
| 12 | 60,470      | 60,971 | 61,471 | 61,971 | 62,471 | 62,972 | 63,472 | 63,972 | 64,472 | 64,972 | 65,473 | 65,973 | 66,473 | 66,973 | 67,473 |
| 13 | 60,215      | 60,715 | 61,215 | 61,716 | 62,216 | 62,716 | 63,217 | 63,717 | 64,217 | 64,717 | 65,218 | 65,718 | 66,218 | 66,718 | 67,219 |
| 14 | 59,959      | 60,459 | 60,960 | 61,460 | 61,960 | 62,461 | 62,961 | 63,461 | 63,962 | 64,462 | 64,962 | 65,463 | 65,963 | 66,463 | 66,963 |
| 15 | 59,703      | 60,203 | 60,703 | 61,204 | 61,704 | 62,205 | 62,705 | 63,205 | 63,706 | 64,206 | 64,706 | 65,207 | 65,707 | 66,207 | 66,708 |
| 16 | 59,446      | 59,946 | 60,447 | 60,947 | 61,448 | 61,948 | 62,449 | 62,949 | 63,449 | 63,950 | 64,450 | 64,951 | 65,451 | 65,951 | 66,452 |
| 17 | 59,189      | 59,689 | 60,190 | 60,690 | 61,191 | 61,691 | 62,192 | 62,692 | 63,193 | 63,693 | 64,193 | 64,694 | 65,194 | 65,695 | 66,195 |
| 18 | 58,931      | 59,431 | 59,932 | 60,433 | 60,933 | 61,434 | 61,934 | 62,435 | 62,935 | 63,436 | 63,936 | 64,437 | 64,937 | 65,438 | 65,938 |
| 19 | 58,672      | 59,173 | 59,674 | 60,174 | 60,675 | 61,176 | 61,676 | 62,177 | 62,677 | 63,178 | 63,679 | 64,179 | 64,680 | 65,180 | 65,681 |
| 20 | 58,414      | 58,914 | 59,415 | 59,916 | 60,417 | 60,917 | 61,418 | 61,919 | 62,419 | 62,920 | 63,421 | 63,921 | 64,422 | 64,922 | 65,423 |
| 21 | 58,154      | 58,655 | 59,156 | 59,657 | 60,158 | 60,658 | 61,159 | 61,660 | 62,161 | 62,661 | 63,162 | 63,663 | 64,163 | 64,664 | 65,165 |
| 22 | 57,895      | 58,395 | 58,896 | 59,397 | 59,898 | 60,399 | 60,900 | 61,401 | 61,901 | 62,402 | 62,903 | 63,404 | 63,905 | 64,405 | 64,906 |
| 23 | 57,634      | 58,135 | 58,636 | 59,137 | 59,638 | 60,139 | 60,640 | 61,141 | 61,642 | 62,143 | 62,643 | 63,144 | 63,645 | 64,146 | 64,647 |
| 24 | 57,373      | 57,874 | 58,375 | 58,877 | 59,378 | 59,879 | 60,380 | 60,881 | 61,382 | 61,883 | 62,383 | 62,884 | 63,385 | 63,886 | 64,387 |
| 25 | 57,112      | 57,613 | 58,114 | 58,615 | 59,117 | 59,618 | 60,119 | 60,620 | 61,121 | 61,622 | 62,123 | 62,624 | 63,125 | 63,626 | 64,127 |
| 26 | 56,850      | 57,351 | 57,852 | 58,354 | 58,855 | 59,356 | 59,857 | 60,359 | 60,860 | 61,361 | 61,862 | 62,363 | 62,864 | 63,365 | 63,866 |
| 27 | 56,587      | 57,089 | 57,590 | 58,091 | 58,593 | 59,094 | 59,595 | 60,097 | 60,598 | 61,099 | 61,600 | 62,102 | 62,603 | 63,104 | 63,605 |
| 28 | 56,324      | 56,826 | 57,327 | 57,829 | 58,330 | 58,832 | 59,333 | 59,834 | 60,336 | 60,837 | 61,338 | 61,840 | 62,341 | 62,842 | 63,344 |
| 29 | 56,060      | 56,562 | 57,064 | 57,565 | 58,067 | 58,568 | 59,070 | 59,572 | 60,073 | 60,574 | 61,076 | 61,577 | 62,079 | 62,580 | 63,081 |
| 30 | 55,796      | 56,298 | 56,800 | 57,301 | 57,803 | 58,305 | 58,807 | 59,308 | 59,810 | 60,311 | 60,813 | 61,314 | 61,816 | 62,317 | 62,819 |
| 31 | 55,531      | 56,033 | 56,535 | 57,037 | 57,539 | 58,041 | 58,542 | 59,044 | 59,546 | 60,048 | 60,549 | 61,051 | 61,553 | 62,054 | 62,556 |
| 32 | 55,266      | 55,768 | 56,270 | 56,772 | 57,274 | 57,776 | 58,278 | 58,780 | 59,282 | 59,783 | 60,285 | 60,787 | 61,289 | 61,790 | 62,292 |
| 33 | 54,999      | 55,502 | 56,004 | 56,506 | 57,008 | 57,510 | 58,013 | 58,515 | 59,017 | 59,519 | 60,020 | 60,522 | 61,024 | 61,526 | 62,028 |
| 34 | 54,733      | 55,235 | 55,738 | 56,240 | 56,742 | 57,245 | 57,747 | 58,249 | 58,751 | 59,253 | 59,755 | 60,257 | 60,759 | 61,261 | 61,763 |
| 35 | 54,465      | 54,968 | 55,471 | 55,973 | 56,476 | 56,978 | 57,480 | 57,983 | 58,485 | 58,987 | 59,489 | 59,992 | 60,494 | 60,996 | 61,498 |
| 36 | 54,197      | 54,700 | 55,203 | 55,706 | 56,208 | 56,711 | 57,213 | 57,716 | 58,218 | 58,721 | 59,223 | 59,725 | 60,228 | 60,730 | 61,232 |
| 37 | 53,929      | 54,432 | 54,935 | 55,437 | 55,940 | 56,443 | 56,946 | 57,448 | 57,951 | 58,454 | 58,956 | 59,459 | 59,961 | 60,464 | 60,966 |
| 38 | 53,659      | 54,162 | 54,666 | 55,169 | 55,672 | 56,175 | 56,677 | 57,180 | 57,683 | 58,186 | 58,689 | 59,191 | 59,694 | 60,196 | 60,699 |
| 39 | 53,389      | 53,893 | 54,396 | 54,899 | 55,402 | 55,906 | 56,409 | 56,912 | 57,415 | 57,918 | 58,420 | 58,923 | 59,426 | 59,929 | 60,431 |
| 40 | 53,119      | 53,622 | 54,126 | 54,629 | 55,133 | 55,636 | 56,139 | 56,642 | 57,145 | 57,649 | 58,152 | 58,655 | 59,158 | 59,660 | 60,163 |
| 41 | 52,847      | 53,351 | 53,855 | 54,358 | 54,862 | 55,365 | 55,869 | 56,372 | 56,876 | 57,379 | 57,882 | 58,385 | 58,889 | 59,392 | 59,895 |
| 42 | 52,575      | 53,079 | 53,583 | 54,087 | 54,591 | 55,094 | 55,598 | 56,102 | 56,605 | 57,109 | 57,612 | 58,116 | 58,619 | 59,122 | 59,625 |
| 43 | 52,302      | 52,806 | 53,311 | 53,815 | 54,319 | 54,823 | 55,327 | 55,830 | 56,334 | 56,838 | 57,342 | 57,845 | 58,349 | 58,852 | 59,355 |
| 44 | 52,028      | 52,533 | 53,037 | 53,542 | 54,046 | 54,550 | 55,054 | 55,559 | 56,063 | 56,566 | 57,070 | 57,574 | 58,078 | 58,581 | 59,085 |
| 45 | 51,754      | 52,259 | 52,764 | 53,268 | 53,773 | 54,277 | 54,782 | 55,286 | 55,790 | 56,294 | 56,798 | 57,302 | 57,806 | 58,310 | 58,814 |
| 46 | 51,479      | 51,984 | 52,489 | 52,994 | 53,499 | 54,003 | 54,508 | 55,013 | 55,517 | 56,021 | 56,526 | 57,030 | 57,534 | 58,038 | 58,542 |
| 47 | 51,203      | 51,708 | 52,214 | 52,719 | 53,224 | 53,729 | 54,234 | 54,739 | 55,243 | 55,748 | 56,252 | 56,757 | 57,261 | 57,765 | 58,270 |
| 48 | 50,926      | 51,432 | 51,938 | 52,443 | 52,948 | 53,454 | 53,959 | 54,464 | 54,969 | 55,474 | 55,978 | 56,483 | 56,988 | 57,492 | 57,997 |
| 49 | 50,649      | 51,155 | 51,661 | 52,166 | 52,672 | 53,178 | 53,683 | 54,188 | 54,694 | 55,199 | 55,704 | 56,209 | 56,713 | 57,218 | 57,723 |
| 50 | 50,371      | 50,877 | 51,383 | 51,889 | 52,395 | 52,901 | 53,406 | 53,912 | 54,418 | 54,923 | 55,428 | 55,933 | 56,439 | 56,944 | 57,448 |
| 51 | 50,091      | 50,598 | 51,104 | 51,611 | 52,117 | 52,623 | 53,129 | 53,635 | 54,141 | 54,647 | 55,152 | 55,658 | 56,163 | 56,668 | 57,173 |
| 52 | 49,811      | 50,318 | 50,825 | 51,332 | 51,838 | 52,345 | 52,851 | 53,357 | 53,863 | 54,369 | 54,875 | 55,381 | 55,887 | 56,392 | 56,897 |
| 53 | 49,530      | 50,038 | 50,545 | 51,052 | 51,559 | 52,066 | 52,572 | 53,079 | 53,585 | 54,091 | 54,598 | 55,104 | 55,609 | 56,115 | 56,621 |
| 54 | 49,249      | 49,756 | 50,264 | 50,771 | 51,279 | 51,786 | 52,293 | 52,799 | 53,306 | 53,813 | 54,319 | 54,825 | 55,332 | 55,838 | 56,344 |
| 55 | 48,966      | 49,474 | 49,982 | 50,490 | 50,997 | 51,505 | 52,012 | 52,519 | 53,026 | 53,533 | 54,040 | 54,547 | 55,053 | 55,559 | 56,066 |
| 56 | 48,682      | 49,191 | 49,699 | 50,207 | 50,715 | 51,223 | 51,731 | 52,238 | 52,746 | 53,253 | 53,760 | 54,267 | 54,774 | 55,280 | 55,787 |
| 57 | 48,398      | 48,907 | 49,415 | 49,924 | 50,432 | 50,941 | 51,449 | 51,956 | 52,464 | 52,972 | 53,479 | 53,986 | 54,494 | 55,001 | 55,507 |
| 58 | 48,112      | 48,622 | 49,131 | 49,640 | 50,148 | 50,657 | 51,165 | 51,674 | 52,182 | 52,690 | 53,198 | 53,705 | 54,213 | 54,720 | 55,227 |
| 59 | 47,826      | 48,335 | 48,845 | 49,354 | 49,864 | 50,373 | 50,881 | 51,390 | 51,899 | 52,407 | 52,915 | 53,423 | 53,931 | 54,439 | 54,946 |
| 60 | 47,538      | 48,048 | 48,558 | 49,068 | 49,578 | 50,087 | 50,597 | 51,106 | 51,615 | 52,123 | 52,632 | 53,140 | 53,648 | 54,156 | 54,664 |



# CENTER DISTANCE

## TABLE IN TEETH

|             |    | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |    | 142         | 143    | 144    | 145    | 146    | 147    | 148    | 149    | 150    | 151    | 152    | 153    | 154    | 155    | 156    |
| $Z_2 - Z_1$ | 1  | 70,750      | 71,250 | 71,750 | 72,250 | 72,750 | 73,250 | 73,750 | 74,250 | 74,750 | 75,250 | 75,750 | 76,250 | 76,750 | 77,250 | 77,750 |
|             | 2  | 70,500      | 71,000 | 71,500 | 72,000 | 72,500 | 73,000 | 73,500 | 74,000 | 74,500 | 75,000 | 75,500 | 76,000 | 76,500 | 77,000 | 77,500 |
|             | 3  | 70,249      | 70,749 | 71,249 | 71,749 | 72,249 | 72,749 | 73,249 | 73,749 | 74,249 | 74,749 | 75,249 | 75,749 | 76,249 | 76,749 | 77,249 |
|             | 4  | 69,998      | 70,498 | 70,998 | 71,498 | 71,998 | 72,498 | 72,998 | 73,498 | 73,998 | 74,498 | 74,998 | 75,498 | 75,998 | 76,498 | 76,998 |
|             | 5  | 69,746      | 70,246 | 70,746 | 71,246 | 71,746 | 72,246 | 72,746 | 73,246 | 73,746 | 74,246 | 74,746 | 75,246 | 75,746 | 76,246 | 76,746 |
|             | 6  | 69,494      | 69,994 | 70,494 | 70,994 | 71,494 | 71,994 | 72,494 | 72,994 | 73,494 | 73,994 | 74,494 | 74,994 | 75,494 | 75,994 | 76,494 |
|             | 7  | 69,241      | 69,742 | 70,242 | 70,742 | 71,242 | 71,742 | 72,242 | 72,742 | 73,242 | 73,742 | 74,242 | 74,742 | 75,242 | 75,742 | 76,242 |
|             | 8  | 68,989      | 69,489 | 69,989 | 70,489 | 70,989 | 71,489 | 71,989 | 72,489 | 72,989 | 73,489 | 73,990 | 74,490 | 74,990 | 75,490 | 75,990 |
|             | 9  | 68,736      | 69,236 | 69,736 | 70,236 | 70,736 | 71,236 | 71,736 | 72,236 | 72,736 | 73,236 | 73,737 | 74,237 | 74,737 | 75,237 | 75,737 |
|             | 10 | 68,482      | 68,982 | 69,482 | 69,982 | 70,482 | 70,983 | 71,483 | 71,983 | 72,483 | 72,983 | 73,483 | 73,983 | 74,483 | 74,984 | 75,484 |
|             | 11 | 68,228      | 68,728 | 69,228 | 69,728 | 70,229 | 70,729 | 71,229 | 71,729 | 72,229 | 72,729 | 73,230 | 73,730 | 74,230 | 74,730 | 75,230 |
|             | 12 | 67,974      | 68,474 | 68,974 | 69,474 | 69,974 | 70,475 | 70,975 | 71,475 | 71,975 | 72,475 | 72,975 | 73,476 | 73,976 | 74,476 | 74,976 |
|             | 13 | 67,719      | 68,219 | 68,719 | 69,220 | 69,720 | 70,220 | 70,720 | 71,220 | 71,721 | 72,221 | 72,721 | 73,221 | 73,721 | 74,222 | 74,722 |
|             | 14 | 67,464      | 67,964 | 68,464 | 68,964 | 69,465 | 69,965 | 70,465 | 70,965 | 71,466 | 71,966 | 72,466 | 72,966 | 73,467 | 73,967 | 74,467 |
|             | 15 | 67,208      | 67,708 | 68,209 | 68,709 | 69,209 | 69,710 | 70,210 | 70,710 | 71,210 | 71,711 | 72,211 | 72,711 | 73,212 | 73,712 | 74,212 |
|             | 16 | 66,952      | 67,452 | 67,953 | 68,453 | 68,953 | 69,454 | 69,954 | 70,454 | 70,955 | 71,455 | 71,955 | 72,456 | 72,956 | 73,456 | 73,957 |
|             | 17 | 66,696      | 67,196 | 67,696 | 68,197 | 68,697 | 69,198 | 69,698 | 70,198 | 70,699 | 71,199 | 71,699 | 72,200 | 72,700 | 73,200 | 73,701 |
|             | 18 | 66,439      | 66,939 | 67,440 | 67,940 | 68,440 | 68,941 | 69,441 | 69,942 | 70,442 | 70,943 | 71,443 | 71,943 | 72,444 | 72,944 | 73,445 |
|             | 19 | 66,181      | 66,682 | 67,182 | 67,683 | 68,183 | 68,684 | 69,184 | 69,685 | 70,185 | 70,686 | 71,186 | 71,687 | 72,187 | 72,688 | 73,188 |
|             | 20 | 65,924      | 66,424 | 66,925 | 67,425 | 67,926 | 68,426 | 68,927 | 69,427 | 69,928 | 70,428 | 70,929 | 71,430 | 71,930 | 72,430 | 72,931 |
|             | 21 | 65,665      | 66,166 | 66,667 | 67,167 | 67,668 | 68,169 | 68,669 | 69,170 | 69,670 | 70,171 | 70,671 | 71,172 | 71,672 | 72,173 | 72,674 |
|             | 22 | 65,407      | 65,907 | 66,408 | 66,909 | 67,410 | 67,910 | 68,411 | 68,911 | 69,412 | 69,913 | 70,413 | 70,914 | 71,415 | 71,915 | 72,416 |
|             | 23 | 65,148      | 65,648 | 66,149 | 66,650 | 67,151 | 67,651 | 68,152 | 68,653 | 69,154 | 69,654 | 70,155 | 70,656 | 71,156 | 71,657 | 72,158 |
|             | 24 | 64,888      | 65,389 | 65,890 | 66,391 | 66,891 | 67,392 | 67,893 | 68,394 | 68,895 | 69,395 | 69,896 | 70,397 | 70,898 | 71,398 | 71,899 |
|             | 25 | 64,628      | 65,129 | 65,630 | 66,131 | 66,632 | 67,133 | 67,633 | 68,134 | 68,635 | 69,136 | 69,637 | 70,138 | 70,638 | 71,139 | 71,640 |
|             | 26 | 64,367      | 64,868 | 65,369 | 65,870 | 66,371 | 66,872 | 67,373 | 67,874 | 68,375 | 68,876 | 69,377 | 69,878 | 70,379 | 70,880 | 71,380 |
|             | 27 | 64,106      | 64,607 | 65,109 | 65,610 | 66,111 | 66,612 | 67,113 | 67,614 | 68,115 | 68,616 | 69,117 | 69,618 | 70,119 | 70,620 | 71,121 |
|             | 28 | 63,845      | 64,346 | 64,847 | 65,348 | 65,850 | 66,351 | 66,852 | 67,353 | 67,854 | 68,355 | 68,856 | 69,357 | 69,858 | 70,359 | 70,860 |
|             | 29 | 63,583      | 64,084 | 64,585 | 65,087 | 65,588 | 66,089 | 66,590 | 67,092 | 67,593 | 68,094 | 68,595 | 69,096 | 69,597 | 70,098 | 70,599 |
|             | 30 | 63,320      | 63,822 | 64,323 | 64,825 | 65,326 | 65,827 | 66,329 | 66,830 | 67,331 | 67,832 | 68,334 | 68,835 | 69,336 | 69,837 | 70,338 |
|             | 31 | 63,057      | 63,559 | 64,060 | 64,562 | 65,063 | 65,565 | 66,066 | 66,568 | 67,069 | 67,570 | 68,072 | 68,573 | 69,074 | 69,575 | 70,077 |
|             | 32 | 62,794      | 63,295 | 63,797 | 64,299 | 64,800 | 65,302 | 65,803 | 66,305 | 66,806 | 67,308 | 67,809 | 68,311 | 68,812 | 69,313 | 69,815 |
|             | 33 | 62,530      | 63,032 | 63,533 | 64,035 | 64,537 | 65,038 | 65,540 | 66,041 | 66,543 | 67,045 | 67,546 | 68,048 | 68,549 | 69,051 | 69,552 |
|             | 34 | 62,265      | 62,767 | 63,269 | 63,771 | 64,273 | 64,774 | 65,276 | 65,778 | 66,279 | 66,781 | 67,283 | 67,784 | 68,286 | 68,787 | 69,289 |
|             | 35 | 62,000      | 62,502 | 63,004 | 63,506 | 64,008 | 64,510 | 65,012 | 65,514 | 66,015 | 66,517 | 67,019 | 67,521 | 68,022 | 68,524 | 69,026 |
|             | 36 | 61,734      | 62,237 | 62,739 | 63,241 | 63,743 | 64,245 | 64,747 | 65,249 | 65,751 | 66,253 | 66,754 | 67,256 | 67,758 | 68,260 | 68,762 |
|             | 37 | 61,468      | 61,970 | 62,473 | 62,975 | 63,477 | 63,979 | 64,481 | 64,983 | 65,486 | 65,988 | 66,489 | 66,991 | 67,493 | 67,995 | 68,497 |
|             | 38 | 61,201      | 61,704 | 62,206 | 62,709 | 63,211 | 63,713 | 64,215 | 64,718 | 65,220 | 65,722 | 66,224 | 66,726 | 67,228 | 67,730 | 68,232 |
|             | 39 | 60,934      | 61,437 | 61,939 | 62,442 | 62,944 | 63,447 | 63,949 | 64,451 | 64,954 | 65,456 | 65,958 | 66,460 | 66,963 | 67,465 | 67,967 |
|             | 40 | 60,666      | 61,169 | 61,672 | 62,174 | 62,677 | 63,179 | 63,682 | 64,185 | 64,687 | 65,189 | 65,692 | 66,194 | 66,696 | 67,199 | 67,701 |
|             | 41 | 60,398      | 60,900 | 61,403 | 61,906 | 62,409 | 62,912 | 63,414 | 63,917 | 64,420 | 64,922 | 65,425 | 65,927 | 66,430 | 66,932 | 67,434 |
|             | 42 | 60,129      | 60,632 | 61,135 | 61,638 | 62,141 | 62,643 | 63,146 | 63,649 | 64,152 | 64,655 | 65,157 | 65,660 | 66,162 | 66,665 | 67,168 |
|             | 43 | 59,859      | 60,362 | 60,865 | 61,368 | 61,872 | 62,375 | 62,878 | 63,381 | 63,884 | 64,386 | 64,889 | 65,392 | 65,895 | 66,397 | 66,900 |
|             | 44 | 59,588      | 60,092 | 60,595 | 61,099 | 61,602 | 62,105 | 62,608 | 63,112 | 63,615 | 64,118 | 64,621 | 65,124 | 65,626 | 66,129 | 66,632 |
|             | 45 | 59,318      | 59,821 | 60,325 | 60,828 | 61,332 | 61,835 | 62,339 | 62,842 | 63,345 | 63,848 | 64,352 | 64,855 | 65,358 | 65,861 | 66,364 |
|             | 46 | 59,046      | 59,550 | 60,054 | 60,557 | 61,061 | 61,565 | 62,068 | 62,572 | 63,075 | 63,578 | 64,082 | 64,585 | 65,088 | 65,591 | 66,095 |
|             | 47 | 58,774      | 59,278 | 59,782 | 60,286 | 60,790 | 61,293 | 61,797 | 62,301 | 62,804 | 63,308 | 63,811 | 64,315 | 64,818 | 65,322 | 65,825 |
|             | 48 | 58,501      | 59,005 | 59,509 | 60,014 | 60,518 | 61,022 | 61,526 | 62,029 | 62,533 | 63,037 | 63,541 | 64,044 | 64,548 | 65,051 | 65,555 |
|             | 49 | 58,227      | 58,732 | 59,236 | 59,741 | 60,245 | 60,749 | 61,253 | 61,757 | 62,261 | 62,765 | 63,269 | 63,773 | 64,277 | 64,780 | 65,284 |
|             | 50 | 57,953      | 58,458 | 58,963 | 59,467 | 59,972 | 60,476 | 60,980 | 61,485 | 61,989 | 62,493 | 62,997 | 63,501 | 64,005 | 64,509 | 65,013 |
|             | 51 | 57,678      | 58,183 | 58,688 | 59,193 | 59,698 | 60,202 | 60,707 | 61,211 | 61,716 | 62,220 | 62,725 | 63,229 | 63,733 | 64,237 | 64,741 |
|             | 52 | 57,403      | 57,908 | 58,413 | 58,918 | 59,423 | 59,928 | 60,433 | 60,938 | 61,442 | 61,947 | 62,451 | 62,956 | 63,460 | 63,964 | 64,469 |
|             | 53 | 57,127      | 57,632 | 58,137 | 58,643 | 59,148 | 59,653 | 60,158 | 60,663 | 61,168 | 61,673 | 62,177 | 62,682 | 63,187 | 63,691 | 64,195 |
|             | 54 | 56,850      | 57,355 | 57,861 | 58,367 | 58,872 | 59,377 | 59,883 | 60,388 | 60,893 | 61,398 | 61,903 | 62,408 | 62,913 | 63,417 | 63,922 |
|             | 55 | 56,572      | 57,078 | 57,584 | 58,090 | 58,595 | 59,101 | 59,607 | 60,112 | 60,617 | 61,123 | 61,628 | 62,133 | 62,638 | 63,143 | 63,648 |
|             | 56 | 56,293      | 56,800 | 57,306 | 57,812 | 58,318 | 58,824 | 59,330 | 59,835 | 60,341 | 60,847 | 61,352 | 61,857 | 62,362 | 62,868 | 63,373 |
|             | 57 | 56,014      | 56,521 | 57,027 | 57,534 | 58,040 | 58,546 | 59,052 | 59,558 | 60,064 | 60,570 | 61,075 | 61,581 | 62,087 | 62,592 | 63,097 |
|             | 58 | 55,734      | 56,241 | 56,748 | 57,255 | 57,761 | 58,268 | 58,774 | 59,280 | 59,786 | 60,292 | 60,798 | 61,304 | 61,810 | 62,315 | 62,821 |
|             | 59 | 55,453      | 55,961 | 56,468 | 56,975 | 57,482 | 57,988 | 58,495 | 59,002 | 59,508 | 60,014 | 60,521 | 61,027 | 61,533 | 62,038 | 62,544 |
|             | 60 | 55,172      | 55,680 | 56,187 | 56,694 | 57,202 | 57,709 | 58,215 | 58,722 | 59,229 | 59,736 | 60,242 | 60,748 | 61,255 | 61,761 | 62,267 |



# CENTER DISTANCE

## TABLE IN TEETH

|             |    | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |    | 157         | 158    | 159    | 160    | 161    | 162    | 163    | 164    | 165    | 166    | 167    | 168    | 169    | 170    | 171    |
| $Z_2 - Z_1$ | 1  | 78,250      | 78,750 | 79,250 | 79,750 | 80,250 | 80,750 | 81,250 | 81,750 | 82,250 | 82,750 | 83,250 | 83,750 | 84,250 | 84,750 | 85,250 |
|             | 2  | 78,000      | 78,500 | 79,000 | 79,500 | 80,000 | 80,500 | 81,000 | 81,500 | 82,000 | 82,500 | 83,000 | 83,500 | 84,000 | 84,500 | 85,000 |
|             | 3  | 77,749      | 78,249 | 78,749 | 79,249 | 79,749 | 80,249 | 80,749 | 81,249 | 81,749 | 82,249 | 82,749 | 83,249 | 83,749 | 84,249 | 84,749 |
|             | 4  | 77,498      | 77,998 | 78,498 | 78,998 | 79,498 | 79,998 | 80,498 | 80,998 | 81,498 | 81,998 | 82,498 | 82,998 | 83,498 | 83,998 | 84,498 |
|             | 5  | 77,246      | 77,746 | 78,246 | 78,746 | 79,246 | 79,747 | 80,247 | 80,747 | 81,247 | 81,747 | 82,247 | 82,747 | 83,247 | 83,747 | 84,247 |
|             | 6  | 76,995      | 77,495 | 77,995 | 78,495 | 78,995 | 79,495 | 79,995 | 80,495 | 80,995 | 81,495 | 81,995 | 82,495 | 82,995 | 83,495 | 83,995 |
|             | 7  | 76,742      | 77,242 | 77,742 | 78,243 | 78,743 | 79,243 | 79,743 | 80,243 | 80,743 | 81,243 | 81,743 | 82,243 | 82,743 | 83,243 | 83,743 |
|             | 8  | 76,490      | 76,990 | 77,490 | 77,990 | 78,490 | 78,990 | 79,490 | 79,990 | 80,490 | 80,990 | 81,491 | 81,991 | 82,491 | 82,991 | 83,491 |
|             | 9  | 76,237      | 76,737 | 77,237 | 77,737 | 78,237 | 78,737 | 79,238 | 79,738 | 80,238 | 80,738 | 81,238 | 81,738 | 82,238 | 82,738 | 83,238 |
|             | 10 | 75,984      | 76,484 | 76,984 | 77,484 | 77,984 | 78,484 | 78,984 | 79,485 | 79,985 | 80,485 | 80,985 | 81,485 | 81,985 | 82,485 | 82,985 |
|             | 11 | 75,730      | 76,230 | 76,730 | 77,231 | 77,731 | 78,231 | 78,731 | 79,231 | 79,731 | 80,231 | 80,731 | 81,232 | 81,732 | 82,232 | 82,732 |
|             | 12 | 75,476      | 75,976 | 76,477 | 76,977 | 77,477 | 77,977 | 78,477 | 78,977 | 79,478 | 79,978 | 80,478 | 80,978 | 81,478 | 81,978 | 82,478 |
|             | 13 | 75,222      | 75,722 | 76,222 | 76,723 | 77,223 | 77,723 | 78,223 | 78,723 | 79,223 | 79,724 | 80,224 | 80,724 | 81,224 | 81,724 | 82,224 |
|             | 14 | 74,967      | 75,468 | 75,968 | 76,468 | 76,968 | 77,468 | 77,969 | 78,469 | 78,969 | 79,469 | 79,969 | 80,470 | 80,970 | 81,470 | 81,970 |
|             | 15 | 74,712      | 75,213 | 75,713 | 76,213 | 76,713 | 77,214 | 77,714 | 78,214 | 78,714 | 79,214 | 79,715 | 80,215 | 80,715 | 81,215 | 81,716 |
|             | 16 | 74,457      | 74,957 | 75,457 | 75,958 | 76,458 | 76,958 | 77,459 | 77,959 | 78,459 | 78,959 | 79,460 | 79,960 | 80,460 | 80,960 | 81,461 |
|             | 17 | 74,201      | 74,701 | 75,202 | 75,702 | 76,202 | 76,703 | 77,203 | 77,703 | 78,204 | 78,704 | 79,204 | 79,705 | 80,205 | 80,705 | 81,205 |
|             | 18 | 73,945      | 74,445 | 74,946 | 75,446 | 75,946 | 76,447 | 76,947 | 77,447 | 77,948 | 78,448 | 78,948 | 79,449 | 79,949 | 80,449 | 80,950 |
|             | 19 | 73,688      | 74,189 | 74,689 | 75,190 | 75,690 | 76,190 | 76,691 | 77,191 | 77,692 | 78,192 | 78,692 | 79,193 | 79,693 | 80,193 | 80,694 |
|             | 20 | 73,431      | 73,932 | 74,432 | 74,933 | 75,433 | 75,934 | 76,434 | 76,935 | 77,435 | 77,935 | 78,436 | 78,936 | 79,437 | 79,937 | 80,437 |
|             | 21 | 73,174      | 73,675 | 74,175 | 74,676 | 75,176 | 75,677 | 76,177 | 76,678 | 77,178 | 77,679 | 78,179 | 78,679 | 79,180 | 79,680 | 80,181 |
|             | 22 | 72,916      | 73,417 | 73,918 | 74,418 | 74,919 | 75,419 | 75,920 | 76,420 | 76,921 | 77,421 | 77,922 | 78,422 | 78,923 | 79,423 | 79,924 |
|             | 23 | 72,658      | 73,159 | 73,659 | 74,160 | 74,661 | 75,161 | 75,662 | 76,162 | 76,663 | 77,164 | 77,664 | 78,165 | 78,665 | 79,166 | 79,666 |
|             | 24 | 72,400      | 72,900 | 73,401 | 73,902 | 74,402 | 74,903 | 75,404 | 75,904 | 76,405 | 76,906 | 77,406 | 77,907 | 78,407 | 78,908 | 79,409 |
|             | 25 | 72,141      | 72,641 | 73,142 | 73,643 | 74,144 | 74,644 | 75,145 | 75,646 | 76,146 | 76,647 | 77,148 | 77,648 | 78,149 | 78,650 | 79,150 |
|             | 26 | 71,881      | 72,382 | 72,883 | 73,384 | 73,885 | 74,385 | 74,886 | 75,387 | 75,888 | 76,388 | 76,889 | 77,390 | 77,891 | 78,391 | 78,892 |
|             | 27 | 71,621      | 72,122 | 72,623 | 73,124 | 73,625 | 74,126 | 74,627 | 75,128 | 75,628 | 76,129 | 76,630 | 77,131 | 77,632 | 78,132 | 78,633 |
|             | 28 | 71,361      | 71,862 | 72,363 | 72,864 | 73,365 | 73,866 | 74,367 | 74,868 | 75,369 | 75,870 | 76,370 | 76,871 | 77,372 | 77,873 | 78,374 |
|             | 29 | 71,101      | 71,602 | 72,103 | 72,604 | 73,105 | 73,606 | 74,107 | 74,608 | 75,109 | 75,609 | 76,110 | 76,611 | 77,112 | 77,613 | 78,114 |
|             | 30 | 70,839      | 71,341 | 71,842 | 72,343 | 72,844 | 73,345 | 73,846 | 74,347 | 74,848 | 75,349 | 75,850 | 76,351 | 76,852 | 77,353 | 77,854 |
|             | 31 | 70,578      | 71,079 | 71,580 | 72,082 | 72,583 | 73,084 | 73,585 | 74,086 | 74,587 | 75,088 | 75,589 | 76,090 | 76,592 | 77,093 | 77,594 |
|             | 32 | 70,316      | 70,817 | 71,319 | 71,820 | 72,321 | 72,822 | 73,324 | 73,825 | 74,326 | 74,827 | 75,328 | 75,829 | 76,330 | 76,832 | 77,333 |
|             | 33 | 70,053      | 70,555 | 71,056 | 71,558 | 72,059 | 72,560 | 73,062 | 73,563 | 74,064 | 74,565 | 75,067 | 75,568 | 76,069 | 76,570 | 77,071 |
|             | 34 | 69,791      | 70,292 | 70,794 | 71,295 | 71,796 | 72,298 | 72,799 | 73,301 | 73,802 | 74,303 | 74,805 | 75,306 | 75,807 | 76,308 | 76,810 |
|             | 35 | 69,527      | 70,029 | 70,530 | 71,032 | 71,533 | 72,035 | 72,536 | 73,038 | 73,539 | 74,041 | 74,542 | 75,044 | 75,545 | 76,046 | 76,548 |
|             | 36 | 69,263      | 69,765 | 70,267 | 70,768 | 71,270 | 71,772 | 72,273 | 72,775 | 73,276 | 73,778 | 74,279 | 74,781 | 75,282 | 75,784 | 76,285 |
|             | 37 | 68,999      | 69,501 | 70,003 | 70,504 | 71,006 | 71,508 | 72,010 | 72,511 | 73,013 | 73,514 | 74,016 | 74,518 | 75,019 | 75,521 | 76,022 |
|             | 38 | 68,734      | 69,236 | 69,738 | 70,240 | 70,742 | 71,244 | 71,745 | 72,247 | 72,749 | 73,251 | 73,752 | 74,254 | 74,756 | 75,257 | 75,759 |
|             | 39 | 68,469      | 68,971 | 69,473 | 69,975 | 70,477 | 70,979 | 71,481 | 71,983 | 72,485 | 72,986 | 73,488 | 73,990 | 74,492 | 74,993 | 75,495 |
|             | 40 | 68,203      | 68,705 | 69,207 | 69,710 | 70,212 | 70,714 | 71,216 | 71,718 | 72,220 | 72,722 | 73,224 | 73,725 | 74,227 | 74,729 | 75,231 |
|             | 41 | 67,937      | 68,439 | 68,941 | 69,444 | 69,946 | 70,448 | 70,950 | 71,452 | 71,954 | 72,456 | 72,958 | 73,460 | 73,962 | 74,464 | 74,966 |
|             | 42 | 67,670      | 68,172 | 68,675 | 69,177 | 69,680 | 70,182 | 70,684 | 71,186 | 71,688 | 72,191 | 72,693 | 73,195 | 73,697 | 74,199 | 74,701 |
|             | 43 | 67,403      | 67,905 | 68,408 | 68,910 | 69,413 | 69,915 | 70,418 | 70,920 | 71,422 | 71,925 | 72,427 | 72,929 | 73,431 | 73,933 | 74,436 |
|             | 44 | 67,135      | 67,638 | 68,140 | 68,643 | 69,146 | 69,648 | 70,151 | 70,653 | 71,156 | 71,658 | 72,160 | 72,663 | 73,165 | 73,667 | 74,170 |
|             | 45 | 66,867      | 67,369 | 67,872 | 68,375 | 68,878 | 69,380 | 69,883 | 70,386 | 70,888 | 71,391 | 71,893 | 72,396 | 72,898 | 73,401 | 73,903 |
|             | 46 | 66,598      | 67,101 | 67,604 | 68,107 | 68,609 | 69,112 | 69,615 | 70,118 | 70,621 | 71,123 | 71,626 | 72,129 | 72,631 | 73,134 | 73,636 |
|             | 47 | 66,328      | 66,831 | 67,335 | 67,838 | 68,341 | 68,844 | 69,347 | 69,850 | 70,352 | 70,855 | 71,358 | 71,861 | 72,363 | 72,866 | 73,369 |
|             | 48 | 66,058      | 66,562 | 67,065 | 67,568 | 68,071 | 68,574 | 69,078 | 69,581 | 70,084 | 70,587 | 71,090 | 71,592 | 72,095 | 72,598 | 73,101 |
|             | 49 | 65,788      | 66,291 | 66,795 | 67,298 | 67,801 | 68,305 | 68,808 | 69,311 | 69,814 | 70,318 | 70,821 | 71,324 | 71,827 | 72,330 | 72,833 |
|             | 50 | 65,517      | 66,020 | 66,524 | 67,028 | 67,531 | 68,035 | 68,538 | 69,041 | 69,545 | 70,048 | 70,551 | 71,054 | 71,558 | 72,061 | 72,564 |
|             | 51 | 65,245      | 65,749 | 66,253 | 66,756 | 67,260 | 67,764 | 68,267 | 68,771 | 69,274 | 69,778 | 70,281 | 70,785 | 71,288 | 71,791 | 72,294 |
|             | 52 | 64,973      | 65,477 | 65,981 | 66,485 | 66,989 | 67,492 | 67,996 | 68,500 | 69,004 | 69,507 | 70,011 | 70,514 | 71,018 | 71,521 | 72,024 |
|             | 53 | 64,700      | 65,204 | 65,708 | 66,212 | 66,716 | 67,221 | 67,724 | 68,228 | 68,732 | 69,236 | 69,740 | 70,243 | 70,747 | 71,251 | 71,754 |
|             | 54 | 64,426      | 64,931 | 65,435 | 65,940 | 66,444 | 66,948 | 67,452 | 67,956 | 68,460 | 68,964 | 69,468 | 69,972 | 70,476 | 70,980 | 71,483 |
|             | 55 | 64,152      | 64,657 | 65,162 | 65,666 | 66,171 | 66,675 | 67,179 | 67,684 | 68,188 | 68,692 | 69,196 | 69,700 | 70,204 | 70,708 | 71,212 |
|             | 56 | 63,878      | 64,383 | 64,887 | 65,392 | 65,897 | 66,401 | 66,906 | 67,410 | 67,915 | 68,419 | 68,923 | 69,428 | 69,932 | 70,436 | 70,940 |
|             | 57 | 63,602      | 64,107 | 64,613 | 65,118 | 65,622 | 66,127 | 66,632 | 67,137 | 67,641 | 68,146 | 68,650 | 69,155 | 69,659 | 70,163 | 70,667 |
|             | 58 | 63,326      | 63,832 | 64,337 | 64,842 | 65,347 | 65,852 | 66,357 | 66,862 | 67,367 | 67,872 | 68,376 | 68,881 | 69,385 | 69,890 | 70,394 |
|             | 59 | 63,050      | 63,556 | 64,061 | 64,566 | 65,072 | 65,577 | 66,082 | 66,587 | 67,092 | 67,597 | 68,102 | 68,607 | 69,112 | 69,616 | 70,121 |
|             | 60 | 62,773      | 63,279 | 63,784 | 64,290 | 64,796 | 65,301 | 65,806 | 66,312 | 66,817 | 67,322 | 67,827 | 68,332 | 68,837 | 69,342 | 69,847 |





# CENTER DISTANCE

## TABLE IN TEETH

|             |    | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |    | 172         | 173    | 174    | 175    | 176    | 177    | 178    | 179    | 180    | 181    | 182    | 183    | 184    | 185    | 186    |
| $Z_2 - Z_1$ | 1  | 85,750      | 86,250 | 86,750 | 87,250 | 87,750 | 88,250 | 88,750 | 89,250 | 89,750 | 90,250 | 90,750 | 91,250 | 91,750 | 92,250 | 92,750 |
|             | 2  | 85,500      | 86,000 | 86,500 | 87,000 | 87,500 | 88,000 | 88,500 | 89,000 | 89,500 | 90,000 | 90,500 | 91,000 | 91,500 | 92,000 | 92,500 |
|             | 3  | 85,249      | 85,749 | 86,249 | 86,749 | 87,249 | 87,749 | 88,249 | 88,749 | 89,249 | 89,749 | 90,249 | 90,749 | 91,249 | 91,749 | 92,249 |
|             | 4  | 84,998      | 85,498 | 85,998 | 86,498 | 86,998 | 87,498 | 87,998 | 88,498 | 88,998 | 89,498 | 89,998 | 90,498 | 90,998 | 91,498 | 91,998 |
|             | 5  | 84,747      | 85,247 | 85,747 | 86,247 | 86,747 | 87,247 | 87,747 | 88,247 | 88,747 | 89,247 | 89,747 | 90,247 | 90,747 | 91,247 | 91,747 |
|             | 6  | 84,495      | 84,995 | 85,495 | 85,995 | 86,495 | 86,995 | 87,495 | 87,995 | 88,495 | 88,995 | 89,495 | 89,995 | 90,495 | 90,995 | 91,495 |
|             | 7  | 84,243      | 84,743 | 85,243 | 85,743 | 86,243 | 86,743 | 87,243 | 87,743 | 88,243 | 88,743 | 89,243 | 89,744 | 90,244 | 90,744 | 91,244 |
|             | 8  | 83,991      | 84,491 | 84,991 | 85,491 | 85,991 | 86,491 | 86,991 | 87,491 | 87,991 | 88,491 | 88,991 | 89,491 | 89,991 | 90,492 | 90,992 |
|             | 9  | 83,738      | 84,238 | 84,738 | 85,238 | 85,738 | 86,239 | 86,739 | 87,239 | 87,739 | 88,239 | 88,739 | 89,239 | 89,739 | 90,239 | 90,739 |
|             | 10 | 83,485      | 83,985 | 84,485 | 84,986 | 85,486 | 85,986 | 86,486 | 86,986 | 87,486 | 87,986 | 88,486 | 88,986 | 89,486 | 89,986 | 90,486 |
|             | 11 | 83,232      | 83,732 | 84,232 | 84,732 | 85,232 | 85,733 | 86,233 | 86,733 | 87,233 | 87,733 | 88,233 | 88,733 | 89,233 | 89,733 | 90,233 |
|             | 12 | 82,978      | 83,479 | 83,979 | 84,479 | 84,979 | 85,479 | 85,979 | 86,479 | 86,979 | 87,480 | 87,980 | 88,480 | 88,980 | 89,480 | 89,980 |
|             | 13 | 82,725      | 83,225 | 83,725 | 84,225 | 84,725 | 85,225 | 85,725 | 86,226 | 86,726 | 87,226 | 87,726 | 88,226 | 88,726 | 89,226 | 89,727 |
|             | 14 | 82,470      | 82,971 | 83,471 | 83,971 | 84,471 | 84,971 | 85,471 | 85,972 | 86,472 | 86,972 | 87,472 | 87,972 | 88,472 | 88,973 | 89,473 |
|             | 15 | 82,216      | 82,716 | 83,216 | 83,716 | 84,217 | 84,717 | 85,217 | 85,717 | 86,217 | 86,718 | 87,218 | 87,718 | 88,218 | 88,718 | 89,219 |
|             | 16 | 81,961      | 82,461 | 82,961 | 83,462 | 83,962 | 84,462 | 84,962 | 85,463 | 85,963 | 86,463 | 86,963 | 87,463 | 87,964 | 88,464 | 88,964 |
|             | 17 | 81,706      | 82,206 | 82,706 | 83,206 | 83,707 | 84,207 | 84,707 | 85,208 | 85,708 | 86,208 | 86,708 | 87,208 | 87,709 | 88,209 | 88,709 |
|             | 18 | 81,450      | 81,950 | 82,451 | 82,951 | 83,451 | 83,952 | 84,452 | 84,952 | 85,452 | 85,953 | 86,453 | 86,953 | 87,454 | 87,954 | 88,454 |
|             | 19 | 81,194      | 81,694 | 82,195 | 82,695 | 83,195 | 83,696 | 84,196 | 84,696 | 85,197 | 85,697 | 86,197 | 86,698 | 87,198 | 87,698 | 88,199 |
|             | 20 | 80,938      | 81,438 | 81,939 | 82,439 | 82,939 | 83,440 | 83,940 | 84,440 | 84,941 | 85,441 | 85,941 | 86,442 | 86,942 | 87,442 | 87,943 |
|             | 21 | 80,681      | 81,182 | 81,682 | 82,182 | 82,683 | 83,183 | 83,684 | 84,184 | 84,684 | 85,185 | 85,685 | 86,186 | 86,686 | 87,186 | 87,687 |
|             | 22 | 80,424      | 80,925 | 81,425 | 81,926 | 82,426 | 82,927 | 83,427 | 83,927 | 84,428 | 84,928 | 85,429 | 85,929 | 86,430 | 86,930 | 87,430 |
|             | 23 | 80,167      | 80,667 | 81,168 | 81,668 | 82,169 | 82,669 | 83,170 | 83,670 | 84,171 | 84,671 | 85,172 | 85,672 | 86,173 | 86,673 | 87,174 |
|             | 24 | 79,909      | 80,410 | 80,910 | 81,411 | 81,911 | 82,412 | 82,912 | 83,413 | 83,913 | 84,414 | 84,915 | 85,415 | 85,915 | 86,416 | 86,917 |
|             | 25 | 79,651      | 80,152 | 80,652 | 81,153 | 81,653 | 82,154 | 82,655 | 83,155 | 83,656 | 84,156 | 84,657 | 85,157 | 85,658 | 86,159 | 86,659 |
|             | 26 | 79,393      | 79,893 | 80,394 | 80,895 | 81,395 | 81,896 | 82,397 | 82,897 | 83,398 | 83,898 | 84,399 | 84,900 | 85,400 | 85,901 | 86,401 |
|             | 27 | 79,134      | 79,634 | 80,135 | 80,636 | 81,137 | 81,637 | 82,138 | 82,639 | 83,139 | 83,640 | 84,141 | 84,641 | 85,142 | 85,643 | 86,143 |
|             | 28 | 78,875      | 79,375 | 79,876 | 80,377 | 80,878 | 81,378 | 81,879 | 82,380 | 82,881 | 83,381 | 83,882 | 84,383 | 84,883 | 85,384 | 85,885 |
|             | 29 | 78,615      | 79,116 | 79,617 | 80,117 | 80,618 | 81,119 | 81,620 | 82,121 | 82,621 | 83,122 | 83,623 | 84,124 | 84,625 | 85,125 | 85,626 |
|             | 30 | 78,355      | 78,856 | 79,357 | 79,858 | 80,359 | 80,859 | 81,360 | 81,861 | 82,362 | 82,863 | 83,364 | 83,865 | 84,365 | 84,866 | 85,367 |
|             | 31 | 78,095      | 78,596 | 79,097 | 79,598 | 80,098 | 80,599 | 81,100 | 81,601 | 82,102 | 82,603 | 83,104 | 83,605 | 84,106 | 84,607 | 85,107 |
|             | 32 | 77,834      | 78,335 | 78,836 | 79,337 | 79,838 | 80,339 | 80,840 | 81,341 | 81,842 | 82,343 | 82,844 | 83,345 | 83,846 | 84,347 | 84,848 |
|             | 33 | 77,573      | 78,074 | 78,575 | 79,076 | 79,577 | 80,078 | 80,579 | 81,080 | 81,581 | 82,082 | 82,583 | 83,084 | 83,585 | 84,086 | 84,587 |
|             | 34 | 77,311      | 77,812 | 78,313 | 78,815 | 79,316 | 79,817 | 80,318 | 80,819 | 81,320 | 81,821 | 82,323 | 82,824 | 83,325 | 83,826 | 84,327 |
|             | 35 | 77,049      | 77,550 | 78,052 | 78,553 | 79,054 | 79,555 | 80,057 | 80,558 | 81,059 | 81,560 | 82,061 | 82,562 | 83,064 | 83,565 | 84,066 |
|             | 36 | 76,787      | 77,288 | 77,789 | 78,291 | 78,792 | 79,293 | 79,795 | 80,296 | 80,797 | 81,299 | 81,800 | 82,301 | 82,802 | 83,303 | 83,805 |
|             | 37 | 76,524      | 77,025 | 77,527 | 78,028 | 78,530 | 79,031 | 79,532 | 80,034 | 80,535 | 81,036 | 81,538 | 82,039 | 82,540 | 83,042 | 83,543 |
|             | 38 | 76,261      | 76,762 | 77,264 | 77,765 | 78,267 | 78,768 | 79,270 | 79,771 | 80,273 | 80,774 | 81,275 | 81,777 | 82,278 | 82,779 | 83,281 |
|             | 39 | 75,997      | 76,499 | 77,000 | 77,502 | 78,003 | 78,505 | 79,007 | 79,508 | 80,010 | 80,511 | 81,013 | 81,514 | 82,015 | 82,517 | 83,018 |
|             | 40 | 75,733      | 76,235 | 76,736 | 77,238 | 77,740 | 78,241 | 78,743 | 79,245 | 79,746 | 80,248 | 80,749 | 81,251 | 81,752 | 82,254 | 82,755 |
|             | 41 | 75,468      | 75,970 | 76,472 | 76,974 | 77,475 | 77,977 | 78,479 | 78,981 | 79,482 | 79,984 | 80,486 | 80,987 | 81,489 | 81,991 | 82,492 |
|             | 42 | 75,203      | 75,705 | 76,207 | 76,709 | 77,211 | 77,713 | 78,215 | 78,716 | 79,218 | 79,720 | 80,222 | 80,724 | 81,225 | 81,727 | 82,229 |
|             | 43 | 74,938      | 75,440 | 75,942 | 76,444 | 76,946 | 77,448 | 77,950 | 78,452 | 78,954 | 79,456 | 79,957 | 80,459 | 80,961 | 81,463 | 81,965 |
|             | 44 | 74,672      | 75,174 | 75,676 | 76,178 | 76,680 | 77,183 | 77,685 | 78,187 | 78,689 | 79,191 | 79,693 | 80,195 | 80,696 | 81,198 | 81,700 |
|             | 45 | 74,405      | 74,908 | 75,410 | 75,912 | 76,415 | 76,917 | 77,419 | 77,921 | 78,423 | 78,925 | 79,427 | 79,929 | 80,431 | 80,933 | 81,435 |
|             | 46 | 74,139      | 74,641 | 75,144 | 75,646 | 76,148 | 76,651 | 77,153 | 77,655 | 78,157 | 78,660 | 79,162 | 79,664 | 80,166 | 80,668 | 81,170 |
|             | 47 | 73,871      | 74,374 | 74,876 | 75,379 | 75,881 | 76,384 | 76,886 | 77,389 | 77,891 | 78,393 | 78,896 | 79,398 | 79,900 | 80,402 | 80,904 |
|             | 48 | 73,604      | 74,106 | 74,609 | 75,112 | 75,614 | 76,117 | 76,619 | 77,122 | 77,624 | 78,127 | 78,629 | 79,131 | 79,634 | 80,136 | 80,638 |
|             | 49 | 73,335      | 73,838 | 74,341 | 74,844 | 75,346 | 75,849 | 76,352 | 76,854 | 77,357 | 77,860 | 78,362 | 78,865 | 79,367 | 79,869 | 80,372 |
|             | 50 | 73,067      | 73,570 | 74,073 | 74,575 | 75,078 | 75,581 | 76,084 | 76,587 | 77,089 | 77,592 | 78,095 | 78,597 | 79,100 | 79,602 | 80,105 |
|             | 51 | 72,797      | 73,301 | 73,804 | 74,307 | 74,810 | 75,313 | 75,816 | 76,318 | 76,821 | 77,324 | 77,827 | 78,329 | 78,832 | 79,335 | 79,837 |
|             | 52 | 72,528      | 73,031 | 73,534 | 74,037 | 74,541 | 75,044 | 75,547 | 76,050 | 76,553 | 77,056 | 77,558 | 78,061 | 78,564 | 79,067 | 79,570 |
|             | 53 | 72,258      | 72,761 | 73,264 | 73,768 | 74,271 | 74,774 | 75,277 | 75,780 | 76,284 | 76,787 | 77,290 | 77,793 | 78,296 | 78,799 | 79,301 |
|             | 54 | 71,987      | 72,490 | 72,994 | 73,497 | 74,001 | 74,504 | 75,008 | 75,511 | 76,014 | 76,517 | 77,020 | 77,524 | 78,027 | 78,530 | 79,033 |
|             | 55 | 71,716      | 72,219 | 72,723 | 73,227 | 73,730 | 74,234 | 74,737 | 75,241 | 75,744 | 76,247 | 76,751 | 77,254 | 77,757 | 78,260 | 78,764 |
|             | 56 | 71,444      | 71,948 | 72,452 | 72,955 | 73,459 | 73,963 | 74,466 | 74,970 | 75,474 | 75,977 | 76,481 | 76,984 | 77,487 | 77,991 | 78,494 |
|             | 57 | 71,171      | 71,676 | 72,180 | 72,684 | 73,187 | 73,691 | 74,195 | 74,699 | 75,203 | 75,706 | 76,210 | 76,713 | 77,217 | 77,720 | 78,224 |
|             | 58 | 70,899      | 71,403 | 71,907 | 72,411 | 72,915 | 73,419 | 73,923 | 74,427 | 74,931 | 75,435 | 75,939 | 76,442 | 76,946 | 77,450 | 77,953 |
|             | 59 | 70,625      | 71,130 | 71,634 | 72,138 | 72,643 | 73,147 | 73,651 | 74,155 | 74,659 | 75,163 | 75,667 | 76,171 | 76,675 | 77,179 | 77,682 |
|             | 60 | 70,351      | 70,856 | 71,361 | 71,865 | 72,370 | 72,874 | 73,378 | 73,882 | 74,387 | 74,891 | 75,395 | 75,899 | 76,403 | 76,907 | 77,411 |



# CENTER DISTANCE

## TABLE IN TEETH

|           |             | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |         |
|-----------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|           |             | 187         | 188    | 189    | 190    | 191    | 192    | 193    | 194    | 195    | 196    | 197    | 198    | 199    | 200    | 201     |
| <b>1</b>  | $Z_2 - Z_1$ | 93,250      | 93,750 | 94,250 | 94,750 | 95,250 | 95,750 | 96,250 | 96,750 | 97,250 | 97,750 | 98,250 | 98,750 | 99,250 | 99,750 | 100,250 |
| <b>2</b>  |             | 93,000      | 93,500 | 94,000 | 94,500 | 95,000 | 95,500 | 96,000 | 96,500 | 97,000 | 97,500 | 98,000 | 98,500 | 99,000 | 99,500 | 100,000 |
| <b>3</b>  |             | 92,749      | 93,249 | 93,749 | 94,249 | 94,749 | 95,249 | 95,749 | 96,249 | 96,749 | 97,249 | 97,749 | 98,249 | 98,749 | 99,249 | 99,749  |
| <b>4</b>  |             | 92,498      | 92,998 | 93,498 | 93,998 | 94,498 | 94,998 | 95,498 | 95,998 | 96,498 | 96,998 | 97,498 | 97,998 | 98,498 | 98,998 | 99,498  |
| <b>5</b>  |             | 92,247      | 92,747 | 93,247 | 93,747 | 94,247 | 94,747 | 95,247 | 95,747 | 96,247 | 96,747 | 97,247 | 97,747 | 98,247 | 98,747 | 99,247  |
| <b>6</b>  |             | 91,995      | 92,496 | 92,996 | 93,496 | 93,996 | 94,496 | 94,996 | 95,496 | 95,996 | 96,496 | 96,996 | 97,496 | 97,996 | 98,496 | 98,996  |
| <b>7</b>  |             | 91,744      | 92,244 | 92,744 | 93,244 | 93,744 | 94,244 | 94,744 | 95,244 | 95,744 | 96,244 | 96,744 | 97,244 | 97,744 | 98,244 | 98,744  |
| <b>8</b>  |             | 91,492      | 91,992 | 92,492 | 92,992 | 93,492 | 93,992 | 94,492 | 94,992 | 95,492 | 95,992 | 96,492 | 96,992 | 97,492 | 97,992 | 98,492  |
| <b>9</b>  |             | 91,239      | 91,739 | 92,239 | 92,739 | 93,239 | 93,740 | 94,240 | 94,740 | 95,240 | 95,740 | 96,240 | 96,740 | 97,240 | 97,740 | 98,240  |
| <b>10</b> |             | 90,987      | 91,487 | 91,987 | 92,487 | 92,987 | 93,487 | 93,987 | 94,487 | 94,987 | 95,487 | 95,987 | 96,487 | 96,987 | 97,487 | 97,988  |
| <b>11</b> |             | 90,734      | 91,234 | 91,734 | 92,234 | 92,734 | 93,234 | 93,734 | 94,234 | 94,734 | 95,234 | 95,734 | 96,235 | 96,735 | 97,235 | 97,735  |
| <b>12</b> |             | 90,480      | 90,980 | 91,480 | 91,981 | 92,481 | 92,981 | 93,481 | 93,981 | 94,481 | 94,981 | 95,481 | 95,981 | 96,482 | 96,982 | 97,482  |
| <b>13</b> |             | 90,227      | 90,727 | 91,227 | 91,727 | 92,227 | 92,727 | 93,227 | 93,728 | 94,228 | 94,728 | 95,228 | 95,728 | 96,228 | 96,728 | 97,228  |
| <b>14</b> |             | 89,973      | 90,473 | 90,973 | 91,473 | 91,973 | 92,474 | 92,974 | 93,474 | 93,974 | 94,474 | 94,974 | 95,474 | 95,975 | 96,475 | 96,975  |
| <b>15</b> |             | 89,719      | 90,219 | 90,719 | 91,219 | 91,719 | 92,220 | 92,720 | 93,220 | 93,720 | 94,220 | 94,720 | 95,221 | 95,721 | 96,221 | 96,721  |
| <b>16</b> |             | 89,464      | 89,964 | 90,465 | 90,965 | 91,465 | 91,965 | 92,465 | 92,966 | 93,466 | 93,966 | 94,466 | 94,966 | 95,466 | 95,967 | 96,467  |
| <b>17</b> |             | 89,209      | 89,710 | 90,210 | 90,710 | 91,210 | 91,711 | 92,211 | 92,711 | 93,211 | 93,711 | 94,212 | 94,712 | 95,212 | 95,712 | 96,212  |
| <b>18</b> |             | 88,954      | 89,455 | 89,955 | 90,455 | 90,955 | 91,456 | 91,956 | 92,456 | 92,956 | 93,457 | 93,957 | 94,457 | 94,957 | 95,457 | 95,958  |
| <b>19</b> |             | 88,699      | 89,199 | 89,699 | 90,200 | 90,700 | 91,200 | 91,701 | 92,201 | 92,701 | 93,201 | 93,702 | 94,202 | 94,702 | 95,202 | 95,703  |
| <b>20</b> |             | 88,443      | 88,943 | 89,444 | 89,944 | 90,444 | 90,945 | 91,445 | 91,945 | 92,446 | 92,946 | 93,446 | 93,947 | 94,447 | 94,947 | 95,447  |
| <b>21</b> |             | 88,187      | 88,687 | 89,188 | 89,688 | 90,189 | 90,689 | 91,189 | 91,690 | 92,190 | 92,690 | 93,191 | 93,691 | 94,191 | 94,691 | 95,192  |
| <b>22</b> |             | 87,931      | 88,431 | 88,932 | 89,432 | 89,932 | 90,433 | 90,933 | 91,433 | 91,934 | 92,434 | 92,934 | 93,435 | 93,935 | 94,436 | 94,936  |
| <b>23</b> |             | 87,674      | 88,174 | 88,675 | 89,175 | 89,676 | 90,176 | 90,677 | 91,177 | 91,677 | 92,178 | 92,678 | 93,179 | 93,679 | 94,179 | 94,680  |
| <b>24</b> |             | 87,417      | 87,917 | 88,418 | 88,918 | 89,419 | 89,919 | 90,420 | 90,920 | 91,421 | 91,921 | 92,421 | 92,922 | 93,422 | 93,923 | 94,423  |
| <b>25</b> |             | 87,160      | 87,660 | 88,161 | 88,661 | 89,162 | 89,662 | 90,163 | 90,663 | 91,164 | 91,664 | 92,165 | 92,665 | 93,165 | 93,666 | 94,166  |
| <b>26</b> |             | 86,902      | 87,402 | 87,903 | 88,404 | 88,904 | 89,405 | 89,905 | 90,406 | 90,906 | 91,407 | 91,907 | 92,408 | 92,908 | 93,409 | 93,909  |
| <b>27</b> |             | 86,644      | 87,144 | 87,645 | 88,146 | 88,646 | 89,147 | 89,647 | 90,148 | 90,649 | 91,149 | 91,650 | 92,150 | 92,651 | 93,151 | 93,652  |
| <b>28</b> |             | 86,385      | 86,886 | 87,387 | 87,887 | 88,388 | 88,889 | 89,389 | 89,890 | 90,391 | 90,891 | 91,392 | 91,892 | 92,393 | 92,894 | 93,394  |
| <b>29</b> |             | 86,127      | 86,627 | 87,128 | 87,629 | 88,130 | 88,630 | 89,131 | 89,632 | 90,132 | 90,633 | 91,134 | 91,634 | 92,135 | 92,635 | 93,136  |
| <b>30</b> |             | 85,869      | 86,368 | 86,869 | 87,370 | 87,871 | 88,371 | 88,872 | 89,373 | 89,874 | 90,374 | 90,875 | 91,376 | 91,876 | 92,377 | 92,878  |
| <b>31</b> |             | 85,608      | 86,109 | 86,610 | 87,111 | 87,611 | 88,112 | 88,613 | 89,114 | 89,615 | 90,115 | 90,616 | 91,117 | 91,618 | 92,118 | 92,619  |
| <b>32</b> |             | 85,348      | 85,849 | 86,350 | 86,851 | 87,352 | 87,853 | 88,354 | 88,854 | 89,355 | 89,856 | 90,357 | 90,858 | 91,358 | 91,859 | 92,360  |
| <b>33</b> |             | 85,088      | 85,589 | 86,090 | 86,591 | 87,092 | 87,593 | 88,094 | 88,595 | 89,096 | 89,596 | 90,097 | 90,598 | 91,099 | 91,600 | 92,101  |
| <b>34</b> |             | 84,828      | 85,329 | 85,830 | 86,331 | 86,832 | 87,333 | 87,834 | 88,335 | 88,836 | 89,336 | 89,837 | 90,338 | 90,839 | 91,340 | 91,841  |
| <b>35</b> |             | 84,567      | 85,068 | 85,569 | 86,070 | 86,571 | 87,072 | 87,573 | 88,074 | 88,575 | 89,076 | 89,577 | 90,078 | 90,579 | 91,080 | 91,581  |
| <b>36</b> |             | 84,306      | 84,807 | 85,308 | 85,809 | 86,310 | 86,811 | 87,312 | 87,813 | 88,315 | 88,816 | 89,317 | 89,818 | 90,319 | 90,820 | 91,321  |
| <b>37</b> |             | 84,044      | 84,545 | 85,047 | 85,548 | 86,049 | 86,550 | 87,051 | 87,552 | 88,053 | 88,555 | 89,056 | 89,557 | 90,058 | 90,559 | 91,060  |
| <b>38</b> |             | 83,782      | 84,283 | 84,785 | 85,286 | 85,787 | 86,288 | 86,790 | 87,291 | 87,792 | 88,293 | 88,794 | 89,296 | 89,797 | 90,298 | 90,799  |
| <b>39</b> |             | 83,520      | 84,021 | 84,522 | 85,024 | 85,525 | 86,026 | 86,528 | 87,029 | 87,530 | 88,032 | 88,533 | 89,034 | 89,535 | 90,036 | 90,538  |
| <b>40</b> |             | 83,257      | 83,758 | 84,260 | 84,761 | 85,263 | 85,764 | 86,265 | 86,767 | 87,268 | 87,769 | 88,271 | 88,772 | 89,273 | 89,775 | 90,276  |
| <b>41</b> |             | 82,994      | 83,495 | 83,997 | 84,498 | 85,000 | 85,501 | 86,003 | 86,504 | 87,006 | 87,507 | 88,008 | 88,510 | 89,011 | 89,513 | 90,014  |
| <b>42</b> |             | 82,730      | 83,232 | 83,733 | 84,235 | 84,737 | 85,238 | 85,740 | 86,241 | 86,743 | 87,244 | 87,746 | 88,247 | 88,749 | 89,250 | 89,751  |
| <b>43</b> |             | 82,466      | 82,968 | 83,470 | 83,971 | 84,473 | 84,975 | 85,476 | 85,978 | 86,479 | 86,981 | 87,483 | 87,984 | 88,486 | 88,987 | 89,489  |
| <b>44</b> |             | 82,202      | 82,704 | 83,206 | 83,707 | 84,209 | 84,711 | 85,213 | 85,714 | 86,216 | 86,718 | 87,219 | 87,721 | 88,222 | 88,724 | 89,226  |
| <b>45</b> |             | 81,937      | 82,439 | 82,941 | 83,443 | 83,945 | 84,447 | 84,948 | 85,450 | 85,952 | 86,454 | 86,955 | 87,457 | 87,959 | 88,460 | 88,962  |
| <b>46</b> |             | 81,672      | 82,174 | 82,676 | 83,178 | 83,680 | 84,182 | 84,684 | 85,186 | 85,688 | 86,189 | 86,691 | 87,193 | 87,695 | 88,196 | 88,698  |
| <b>47</b> |             | 81,407      | 81,909 | 82,411 | 82,913 | 83,415 | 83,917 | 84,419 | 84,921 | 85,423 | 85,925 | 86,427 | 86,928 | 87,430 | 87,932 | 88,434  |
| <b>48</b> |             | 81,141      | 81,643 | 82,145 | 82,647 | 83,149 | 83,651 | 84,153 | 84,656 | 85,158 | 85,660 | 86,162 | 86,663 | 87,165 | 87,667 | 88,169  |
| <b>49</b> |             | 80,874      | 81,376 | 81,879 | 82,381 | 82,883 | 83,386 | 83,888 | 84,390 | 84,892 | 85,394 | 85,896 | 86,398 | 86,900 | 87,402 | 87,904  |
| <b>50</b> |             | 80,607      | 81,110 | 81,612 | 82,115 | 82,617 | 83,119 | 83,622 | 84,124 | 84,626 | 85,128 | 85,630 | 86,133 | 86,635 | 87,137 | 87,639  |
| <b>51</b> |             | 80,340      | 80,843 | 81,345 | 81,848 | 82,350 | 82,853 | 83,355 | 83,857 | 84,360 | 84,862 | 85,364 | 85,867 | 86,369 | 86,871 | 87,373  |
| <b>52</b> |             | 80,072      | 80,575 | 81,078 | 81,580 | 82,083 | 82,585 | 83,088 | 83,590 | 84,093 | 84,595 | 85,098 | 85,600 | 86,102 | 86,605 | 87,107  |
| <b>53</b> |             | 79,804      | 80,307 | 80,810 | 81,313 | 81,815 | 82,318 | 82,820 | 83,323 | 83,826 | 84,328 | 84,831 | 85,333 | 85,836 | 86,338 | 86,840  |
| <b>54</b> |             | 79,536      | 80,039 | 80,542 | 81,044 | 81,547 | 82,050 | 82,553 | 83,055 | 83,558 | 84,061 | 84,563 | 85,066 | 85,568 | 86,071 | 86,574  |
| <b>55</b> |             | 79,267      | 79,770 | 80,273 | 80,776 | 81,279 | 81,782 | 82,284 | 82,787 | 83,290 | 83,793 | 84,296 | 84,798 | 85,301 | 85,804 | 86,306  |
| <b>56</b> |             | 78,997      | 79,500 | 80,003 | 80,507 | 81,010 | 81,513 | 82,016 | 82,519 | 83,022 | 83,524 | 84,027 | 84,530 | 85,033 | 85,536 | 86,038  |
| <b>57</b> |             | 78,727      | 79,231 | 79,734 | 80,237 | 80,740 | 81,243 | 81,747 | 82,250 | 82,753 | 83,256 | 83,759 | 84,262 | 84,765 | 85,267 | 85,770  |
| <b>58</b> |             | 78,457      | 78,960 | 79,464 | 79,967 | 80,470 | 80,974 | 81,477 | 81,980 | 82,483 | 82,987 | 83,490 | 83,993 | 84,496 | 84,999 | 85,502  |
| <b>59</b> |             | 78,186      | 78,690 | 79,193 | 79,697 | 80,200 | 80,704 | 81,207 | 81,710 | 82,214 | 82,717 | 83,220 | 83,723 | 84,226 | 84,730 | 85,233  |
| <b>60</b> |             | 77,915      | 78,418 | 78,922 | 79,426 | 79,929 | 80,433 | 80,936 | 81,440 | 81,943 | 82,447 | 82,950 | 83,454 | 83,957 | 84,460 | 84,963  |



# CENTER DISTANCE

## TABLE IN TEETH

|             |    | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |    | 67          | 68     | 69     | 70     | 71     | 72     | 73     | 74     | 75     | 76     | 77     | 78     | 79     | 80     | 81     |
| $Z_2 - Z_1$ | 61 | 14,976      | 15,623 | 16,253 | 16,870 | 17,477 | 18,074 | 18,663 | 19,245 | 19,821 | 20,392 | 20,959 | 21,521 | 22,079 | 22,634 | 23,187 |
|             | 62 | 14,486      | 15,156 | 15,805 | 16,438 | 17,057 | 17,664 | 18,263 | 18,854 | 19,437 | 20,015 | 20,587 | 21,154 | 21,717 | 22,277 | 22,833 |
|             | 63 | 13,964      | 14,665 | 15,337 | 15,988 | 16,622 | 17,243 | 17,852 | 18,452 | 19,044 | 19,629 | 20,208 | 20,781 | 21,349 | 21,914 | 22,474 |
|             | 64 | 13,396      | 14,140 | 14,843 | 15,517 | 16,170 | 16,806 | 17,428 | 18,040 | 18,641 | 19,234 | 19,820 | 20,400 | 20,975 | 21,544 | 22,110 |
|             | 65 |             | 13,569 | 14,315 | 15,021 | 15,698 | 16,352 | 16,990 | 17,614 | 18,227 | 18,830 | 19,424 | 20,011 | 20,593 | 21,168 | 21,739 |
|             | 66 |             |        | 13,742 | 14,491 | 15,199 | 15,878 | 16,534 | 17,174 | 17,800 | 18,414 | 19,018 | 19,614 | 20,202 | 20,785 | 21,361 |
|             | 67 |             |        |        | 13,915 | 14,667 | 15,377 | 16,058 | 16,717 | 17,358 | 17,985 | 18,600 | 19,206 | 19,803 | 20,393 | 20,977 |
|             | 68 |             |        |        |        | 14,088 | 14,842 | 15,554 | 16,238 | 16,898 | 17,541 | 18,170 | 18,787 | 19,394 | 19,992 | 20,583 |
|             | 69 |             |        |        |        |        | 14,260 | 15,017 | 15,732 | 16,417 | 17,080 | 17,724 | 18,355 | 18,973 | 19,581 | 20,181 |
|             | 70 |             |        |        |        |        |        | 14,433 | 15,193 | 15,910 | 16,597 | 17,261 | 17,907 | 18,539 | 19,159 | 19,769 |
|             | 71 |             |        |        |        |        |        |        | 14,606 | 15,368 | 16,087 | 16,776 | 17,442 | 18,090 | 18,723 | 19,345 |
|             | 72 |             |        |        |        |        |        |        |        | 14,778 | 15,542 | 16,264 | 16,955 | 17,623 | 18,272 | 18,907 |
|             | 73 |             |        |        |        |        |        |        |        |        | 14,950 | 15,717 | 16,441 | 17,134 | 17,803 | 18,455 |
|             | 74 |             |        |        |        |        |        |        |        |        |        | 15,123 | 15,892 | 16,617 | 17,312 | 17,984 |
|             | 75 |             |        |        |        |        |        |        |        |        |        |        | 15,294 | 16,066 | 16,794 | 17,490 |
| 76          |    |             |        |        |        |        |        |        |        |        |        |        | 15,466 | 16,240 | 16,970 |        |
| 77          |    |             |        |        |        |        |        |        |        |        |        |        |        | 15,638 | 16,414 |        |
| 78          |    |             |        |        |        |        |        |        |        |        |        |        |        |        | 15,809 |        |
| 79          |    |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

|             |        | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |        | 82          | 83     | 84     | 85     | 86     | 87     | 88     | 89     | 90     | 91     | 92     | 93     | 94     | 95     | 96     |
| $Z_2 - Z_1$ | 61     | 23,736      | 24,282 | 24,827 | 25,369 | 25,909 | 26,448 | 26,984 | 27,519 | 28,053 | 28,585 | 29,116 | 29,646 | 30,175 | 30,702 | 31,229 |
|             | 62     | 23,386      | 23,936 | 24,484 | 25,029 | 25,572 | 26,113 | 26,652 | 27,189 | 27,725 | 28,259 | 28,792 | 29,324 | 29,854 | 30,384 | 30,912 |
|             | 63     | 23,031      | 23,585 | 24,136 | 24,685 | 25,231 | 25,774 | 26,316 | 26,856 | 27,394 | 27,931 | 28,466 | 28,999 | 29,531 | 30,062 | 30,592 |
|             | 64     | 22,671      | 23,229 | 23,784 | 24,336 | 24,885 | 25,432 | 25,977 | 26,519 | 27,060 | 27,598 | 28,136 | 28,671 | 29,205 | 29,738 | 30,270 |
|             | 65     | 22,305      | 22,868 | 23,427 | 23,982 | 24,535 | 25,085 | 25,633 | 26,178 | 26,722 | 27,263 | 27,803 | 28,340 | 28,877 | 29,412 | 29,945 |
|             | 66     | 21,933      | 22,501 | 23,064 | 23,624 | 24,181 | 24,734 | 25,285 | 25,834 | 26,380 | 26,924 | 27,466 | 28,006 | 28,545 | 29,082 | 29,617 |
|             | 67     | 21,554      | 22,127 | 22,696 | 23,260 | 23,821 | 24,379 | 24,933 | 25,485 | 26,034 | 26,581 | 27,126 | 27,669 | 28,210 | 28,749 | 29,287 |
|             | 68     | 21,168      | 21,747 | 22,321 | 22,891 | 23,456 | 24,018 | 24,577 | 25,132 | 25,685 | 26,235 | 26,782 | 27,328 | 27,872 | 28,413 | 28,953 |
|             | 69     | 20,774      | 21,360 | 21,940 | 22,515 | 23,085 | 23,652 | 24,215 | 24,774 | 25,330 | 25,884 | 26,435 | 26,983 | 27,530 | 28,074 | 28,616 |
|             | 70     | 20,370      | 20,964 | 21,551 | 22,132 | 22,708 | 23,280 | 23,847 | 24,411 | 24,971 | 25,528 | 26,083 | 26,634 | 27,184 | 27,731 | 28,276 |
|             | 71     | 19,956      | 20,558 | 21,153 | 21,742 | 22,324 | 22,901 | 23,474 | 24,042 | 24,607 | 25,168 | 25,726 | 26,281 | 26,834 | 27,384 | 27,932 |
|             | 72     | 19,530      | 20,143 | 20,747 | 21,343 | 21,932 | 22,516 | 23,094 | 23,668 | 24,237 | 24,803 | 25,365 | 25,924 | 26,480 | 27,033 | 27,584 |
|             | 73     | 19,091      | 19,716 | 20,330 | 20,935 | 21,532 | 22,123 | 22,708 | 23,287 | 23,862 | 24,432 | 24,998 | 25,561 | 26,121 | 26,678 | 27,232 |
|             | 74     | 18,637      | 19,275 | 19,901 | 20,516 | 21,123 | 21,721 | 22,313 | 22,899 | 23,479 | 24,055 | 24,626 | 25,194 | 25,758 | 26,318 | 26,876 |
|             | 75     | 18,164      | 18,818 | 19,458 | 20,085 | 20,702 | 21,310 | 21,910 | 22,503 | 23,090 | 23,672 | 24,248 | 24,821 | 25,389 | 25,954 | 26,515 |
| 76          | 17,669 | 18,344      | 19,000 | 19,642 | 20,270 | 20,888 | 21,498 | 22,099 | 22,693 | 23,281 | 23,863 | 24,441 | 25,014 | 25,584 | 26,149 |        |
| 77          | 17,146 | 17,847      | 18,524 | 19,182 | 19,825 | 20,455 | 21,075 | 21,685 | 22,287 | 22,883 | 23,472 | 24,055 | 24,634 | 25,208 | 25,778 |        |
| 78          | 16,588 | 17,323      | 18,025 | 18,704 | 19,363 | 20,008 | 20,640 | 21,261 | 21,872 | 22,476 | 23,072 | 23,662 | 24,247 | 24,827 | 25,402 |        |
| 79          | 15,981 | 16,762      | 17,499 | 18,203 | 18,884 | 19,545 | 20,191 | 20,824 | 21,446 | 22,059 | 22,664 | 23,261 | 23,852 | 24,438 | 25,019 |        |
| 80          |        | 16,152      | 16,936 | 17,675 | 18,381 | 19,063 | 19,727 | 20,374 | 21,008 | 21,632 | 22,246 | 22,852 | 23,450 | 24,043 | 24,629 |        |
| 81          |        |             | 16,324 | 17,110 | 17,850 | 18,559 | 19,243 | 19,908 | 20,556 | 21,192 | 21,817 | 22,432 | 23,039 | 23,639 | 24,232 |        |
| 82          |        |             |        | 16,495 | 17,283 | 18,026 | 18,737 | 19,422 | 20,088 | 20,739 | 21,376 | 22,002 | 22,618 | 23,227 | 23,828 |        |
| 83          |        |             |        |        | 16,666 | 17,457 | 18,202 | 18,914 | 19,601 | 20,269 | 20,921 | 21,559 | 22,187 | 22,805 | 23,414 |        |
| 84          |        |             |        |        |        | 16,837 | 17,631 | 18,378 | 19,091 | 19,780 | 20,450 | 21,103 | 21,743 | 22,372 | 22,991 |        |
| 85          |        |             |        |        |        |        | 17,009 | 17,804 | 18,553 | 19,269 | 19,959 | 20,630 | 21,285 | 21,926 | 22,556 |        |
| 86          |        |             |        |        |        |        |        | 17,180 | 17,977 | 18,728 | 19,446 | 20,138 | 20,810 | 21,467 | 22,109 |        |
| 87          |        |             |        |        |        |        |        |        | 17,351 | 18,150 | 18,903 | 19,623 | 20,317 | 20,991 | 21,648 |        |
| 88          |        |             |        |        |        |        |        |        |        | 17,522 | 18,323 | 19,078 | 19,799 | 20,495 | 21,171 |        |
| 89          |        |             |        |        |        |        |        |        |        |        | 17,692 | 18,496 | 19,253 | 19,976 | 20,673 |        |
| 90          |        |             |        |        |        |        |        |        |        |        |        | 17,862 | 18,669 | 19,427 | 20,152 |        |
| 91          |        |             |        |        |        |        |        |        |        |        |        |        | 18,033 | 18,841 | 19,602 |        |
| 92          |        |             |        |        |        |        |        |        |        |        |        |        |        | 18,203 | 19,014 |        |
| 93          |        |             |        |        |        |        |        |        |        |        |        |        |        |        | 18,374 |        |



# CENTER DISTANCE

## TABLE IN TEETH

|             |        | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |
|-------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |        | 101         | 102    | 103    | 104    | 105    | 106    | 107    | 108    | 109    | 110    | 111    |
| $Z_2 - Z_1$ | 61     | 33,848      | 34,370 | 34,891 | 35,411 | 35,931 | 36,450 | 36,968 | 37,486 | 38,003 | 38,520 | 39,037 |
|             | 62     | 33,538      | 34,061 | 34,583 | 35,104 | 35,625 | 36,145 | 36,664 | 37,183 | 37,702 | 38,219 | 38,737 |
|             | 63     | 33,226      | 33,750 | 34,273 | 34,796 | 35,317 | 35,838 | 36,359 | 36,879 | 37,398 | 37,917 | 38,435 |
|             | 64     | 32,911      | 33,437 | 33,961 | 34,485 | 35,008 | 35,530 | 36,052 | 36,573 | 37,093 | 37,613 | 38,132 |
|             | 65     | 32,595      | 33,121 | 33,647 | 34,172 | 34,696 | 35,220 | 35,743 | 36,265 | 36,786 | 37,307 | 37,827 |
|             | 66     | 32,276      | 32,804 | 33,331 | 33,858 | 34,383 | 34,908 | 35,432 | 35,955 | 36,477 | 36,999 | 37,520 |
|             | 67     | 31,954      | 32,484 | 33,013 | 33,541 | 34,068 | 34,594 | 35,119 | 35,643 | 36,167 | 36,690 | 37,212 |
|             | 68     | 31,630      | 32,162 | 32,692 | 33,221 | 33,750 | 34,277 | 34,804 | 35,329 | 35,854 | 36,378 | 36,902 |
|             | 69     | 31,304      | 31,837 | 32,369 | 32,900 | 33,430 | 33,959 | 34,487 | 35,014 | 35,540 | 36,065 | 36,590 |
|             | 70     | 30,974      | 31,510 | 32,043 | 32,576 | 33,108 | 33,638 | 34,167 | 34,696 | 35,223 | 35,750 | 36,276 |
|             | 71     | 30,642      | 31,179 | 31,715 | 32,250 | 32,783 | 33,315 | 33,846 | 34,376 | 34,905 | 35,433 | 35,960 |
|             | 72     | 30,307      | 30,846 | 31,384 | 31,921 | 32,456 | 32,989 | 33,522 | 34,054 | 34,584 | 35,113 | 35,642 |
| 73          | 29,969 | 30,510      | 31,050 | 31,589 | 32,126 | 32,661 | 33,196 | 33,729 | 34,261 | 34,792 | 35,322 |        |
| 74          | 29,627 | 30,171      | 30,713 | 31,254 | 31,793 | 32,331 | 32,867 | 33,402 | 33,935 | 34,468 | 34,999 |        |
| 75          | 29,282 | 29,829      | 30,373 | 30,916 | 31,457 | 31,997 | 32,535 | 33,072 | 33,607 | 34,142 | 34,675 |        |
| 76          | 28,933 | 29,482      | 30,030 | 30,575 | 31,119 | 31,660 | 32,201 | 32,739 | 33,277 | 33,813 | 34,348 |        |
| 77          | 28,580 | 29,133      | 29,683 | 30,231 | 30,777 | 31,321 | 31,863 | 32,404 | 32,944 | 33,482 | 34,018 |        |
| 78          | 28,223 | 28,779      | 29,332 | 29,883 | 30,431 | 30,978 | 31,523 | 32,066 | 32,607 | 33,147 | 33,686 |        |
| 79          | 27,862 | 28,421      | 28,977 | 29,531 | 30,082 | 30,632 | 31,179 | 31,725 | 32,268 | 32,810 | 33,351 |        |
| 80          | 27,496 | 28,059      | 28,618 | 29,175 | 29,730 | 30,282 | 30,832 | 31,380 | 31,926 | 32,471 | 33,013 |        |
| 81          | 27,125 | 27,692      | 28,255 | 28,815 | 29,373 | 29,982 | 30,481 | 31,032 | 31,581 | 32,127 | 32,672 |        |
| 82          | 26,748 | 27,319      | 27,887 | 28,451 | 29,012 | 29,571 | 30,127 | 30,680 | 31,232 | 31,781 | 32,329 |        |
| 83          | 26,366 | 26,942      | 27,514 | 28,082 | 28,647 | 29,209 | 29,768 | 30,325 | 30,879 | 31,431 | 31,981 |        |
| 84          | 25,977 | 26,558      | 27,135 | 27,708 | 28,277 | 28,843 | 29,405 | 29,965 | 30,523 | 31,078 | 31,631 |        |
| 85          | 25,582 | 26,169      | 26,750 | 27,328 | 27,901 | 28,471 | 29,038 | 29,602 | 30,162 | 30,721 | 31,276 |        |
| 86          | 25,179 | 25,772      | 26,360 | 26,942 | 27,521 | 28,095 | 28,666 | 29,233 | 29,798 | 30,359 | 30,918 |        |
| 87          | 24,768 | 25,368      | 25,962 | 26,550 | 27,134 | 27,713 | 28,289 | 28,860 | 29,428 | 29,994 | 30,556 |        |
| 88          | 24,348 | 24,956      | 25,557 | 26,151 | 26,741 | 27,325 | 27,906 | 28,482 | 29,054 | 29,623 | 30,189 |        |
| 89          | 23,918 | 24,534      | 25,143 | 25,745 | 26,341 | 26,931 | 27,517 | 28,098 | 28,675 | 29,248 | 29,818 |        |
| 90          | 23,476 | 24,103      | 24,721 | 25,330 | 25,933 | 26,530 | 27,121 | 27,708 | 28,290 | 28,868 | 29,442 |        |
| 91          | 23,022 | 23,660      | 24,288 | 24,906 | 25,517 | 26,121 | 26,719 | 27,321 | 27,899 | 28,482 | 29,060 |        |
| 92          | 22,554 | 23,205      | 23,844 | 24,472 | 25,092 | 25,704 | 26,309 | 26,908 | 27,501 | 28,090 | 28,673 |        |
| 93          | 22,068 | 22,735      | 23,387 | 24,027 | 24,657 | 25,278 | 25,891 | 26,497 | 27,097 | 27,691 | 28,280 |        |
| 94          | 21,563 | 22,248      | 22,916 | 23,569 | 24,210 | 24,841 | 25,463 | 26,078 | 26,685 | 27,285 | 27,881 |        |
| 95          | 21,034 | 21,741      | 22,427 | 23,096 | 23,751 | 24,393 | 25,026 | 25,649 | 26,264 | 26,872 | 27,474 |        |
| 96          | 20,474 | 21,210      | 21,919 | 22,606 | 23,277 | 23,933 | 24,576 | 25,210 | 25,834 | 26,450 | 27,059 |        |
| 97          | 19,876 | 20,649      | 21,386 | 22,096 | 22,785 | 23,457 | 24,114 | 24,759 | 25,394 | 26,019 | 26,636 |        |
| 98          | 19,225 | 20,049      | 20,823 | 21,561 | 22,273 | 22,964 | 23,637 | 24,296 | 24,942 | 25,577 | 26,204 |        |
| 99          |        | 19,395      | 20,221 | 20,997 | 21,737 | 22,45  | 23,142 | 23,817 | 24,477 | 25,124 | 25,761 |        |
| 100         |        |             | 19,565 | 20,393 | 21,17  | 21,913 | 22,628 | 23,321 | 23,997 | 24,658 | 25,307 |        |
| 101         |        |             |        | 19,735 | 20,564 | 21,344 | 22,088 | 22,805 | 23,499 | 24,177 | 24,839 |        |
| 102         |        |             |        |        | 19,904 | 20,736 | 21,518 | 22,263 | 22,981 | 23,678 | 24,356 |        |
| 103         |        |             |        |        |        | 20,074 | 20,908 | 21,691 | 22,438 | 23,158 | 23,855 |        |
| 104         |        |             |        |        |        |        | 20,243 | 21,079 | 21,864 | 22,613 | 23,334 |        |
| 105         |        |             |        |        |        |        |        | 20,413 | 21,251 | 22,038 | 22,788 |        |
| 106         |        |             |        |        |        |        |        |        | 20,582 | 21,422 | 22,211 |        |
| 107         |        |             |        |        |        |        |        |        |        | 20,752 | 21,594 |        |
| 108         |        |             |        |        |        |        |        |        |        |        | 20,921 |        |
| 109         |        |             |        |        |        |        |        |        |        |        |        |        |
| 110         |        |             |        |        |        |        |        |        |        |        |        |        |
| 111         |        |             |        |        |        |        |        |        |        |        |        |        |
| 112         |        |             |        |        |        |        |        |        |        |        |        |        |
| 113         |        |             |        |        |        |        |        |        |        |        |        |        |
| 114         |        |             |        |        |        |        |        |        |        |        |        |        |
| 115         |        |             |        |        |        |        |        |        |        |        |        |        |
| 116         |        |             |        |        |        |        |        |        |        |        |        |        |
| 117         |        |             |        |        |        |        |        |        |        |        |        |        |
| 118         |        |             |        |        |        |        |        |        |        |        |        |        |
| 119         |        |             |        |        |        |        |        |        |        |        |        |        |
| 120         |        |             |        |        |        |        |        |        |        |        |        |        |



# CENTER DISTANCE

## TABLE IN TEETH

|             |        | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |        | 112         | 113    | 114    | 115    | 116    | 117    | 118    | 119    | 120    | 121    | 122    | 123    | 124    | 125    | 126    |
| $Z_2 - Z_1$ | 61     | 39,553      | 40,068 | 40,584 | 41,098 | 41,613 | 42,127 | 42,640 | 43,154 | 43,667 | 44,179 | 44,692 | 45,204 | 45,716 | 46,227 | 46,738 |
|             | 62     | 39,254      | 39,770 | 40,286 | 40,801 | 41,316 | 41,831 | 42,345 | 42,859 | 43,373 | 43,886 | 44,399 | 44,912 | 45,424 | 45,936 | 46,448 |
|             | 63     | 38,953      | 39,470 | 39,987 | 40,503 | 41,019 | 41,534 | 42,049 | 42,564 | 43,078 | 43,592 | 44,106 | 44,619 | 45,132 | 45,645 | 46,157 |
|             | 64     | 38,650      | 39,168 | 39,686 | 40,203 | 40,720 | 41,236 | 41,752 | 42,267 | 42,782 | 43,297 | 43,811 | 44,325 | 44,838 | 45,352 | 45,865 |
|             | 65     | 38,346      | 38,865 | 39,384 | 39,902 | 40,419 | 40,936 | 41,453 | 41,969 | 42,485 | 43,000 | 43,515 | 44,029 | 44,544 | 45,058 | 45,571 |
|             | 66     | 38,041      | 38,561 | 39,080 | 39,599 | 40,117 | 40,635 | 41,152 | 41,669 | 42,186 | 42,702 | 43,217 | 43,733 | 44,248 | 44,762 | 45,276 |
|             | 67     | 37,733      | 38,254 | 38,775 | 39,295 | 39,814 | 40,332 | 40,851 | 41,368 | 41,886 | 42,402 | 42,919 | 43,435 | 43,950 | 44,466 | 44,980 |
|             | 68     | 37,424      | 37,946 | 38,468 | 38,988 | 39,509 | 40,028 | 40,547 | 41,066 | 41,584 | 42,102 | 42,619 | 43,136 | 43,652 | 44,168 | 44,683 |
|             | 69     | 37,114      | 37,637 | 38,159 | 38,681 | 39,202 | 39,723 | 40,243 | 40,762 | 41,281 | 41,799 | 42,317 | 42,835 | 43,352 | 43,869 | 44,385 |
|             | 70     | 36,801      | 37,325 | 37,849 | 38,371 | 38,894 | 39,415 | 39,936 | 40,457 | 40,976 | 41,496 | 42,015 | 42,533 | 43,051 | 43,568 | 44,085 |
|             | 71     | 36,486      | 37,012 | 37,536 | 38,060 | 38,584 | 39,106 | 39,628 | 40,150 | 40,670 | 41,191 | 41,710 | 42,229 | 42,748 | 43,266 | 43,784 |
|             | 72     | 36,170      | 36,696 | 37,222 | 37,747 | 38,272 | 38,795 | 39,318 | 39,841 | 40,363 | 40,884 | 41,404 | 41,924 | 42,444 | 42,963 | 43,482 |
|             | 73     | 35,851      | 36,379 | 36,906 | 37,432 | 37,958 | 38,483 | 39,007 | 39,530 | 40,053 | 40,575 | 41,097 | 41,618 | 42,138 | 42,658 | 43,178 |
|             | 74     | 35,530      | 36,059 | 36,588 | 37,116 | 37,643 | 38,169 | 38,694 | 39,218 | 39,742 | 40,265 | 40,788 | 41,310 | 41,831 | 42,352 | 42,872 |
|             | 75     | 35,207      | 35,738 | 36,268 | 36,797 | 37,325 | 37,852 | 38,379 | 38,904 | 39,429 | 39,954 | 40,477 | 41,000 | 41,523 | 42,044 | 42,566 |
|             | 76     | 34,881      | 35,414 | 35,945 | 36,476 | 37,005 | 37,534 | 38,062 | 38,589 | 39,115 | 39,640 | 40,165 | 40,689 | 41,212 | 41,735 | 42,257 |
|             | 77     | 34,554      | 35,088 | 35,621 | 36,153 | 36,684 | 37,214 | 37,743 | 38,271 | 38,798 | 39,325 | 39,851 | 40,376 | 40,900 | 41,424 | 41,947 |
|             | 78     | 34,223      | 34,759 | 35,294 | 35,827 | 36,360 | 36,891 | 37,422 | 37,951 | 38,480 | 39,008 | 39,535 | 40,061 | 40,587 | 41,111 | 41,636 |
|             | 79     | 33,890      | 34,428 | 34,964 | 35,500 | 36,034 | 36,567 | 37,099 | 37,630 | 38,160 | 38,689 | 39,217 | 39,745 | 40,271 | 40,797 | 41,322 |
|             | 80     | 33,554      | 34,094 | 34,632 | 35,169 | 35,705 | 36,240 | 36,773 | 37,306 | 37,837 | 38,368 | 38,897 | 39,426 | 39,954 | 40,481 | 41,007 |
| 81          | 33,216 | 33,758      | 34,298 | 34,837 | 35,374 | 35,911 | 36,446 | 36,980 | 37,513 | 38,045 | 38,576 | 39,106 | 39,635 | 40,163 | 40,691 |        |
| 82          | 32,874 | 33,418      | 33,960 | 34,501 | 35,041 | 35,579 | 36,116 | 36,651 | 37,186 | 37,719 | 38,252 | 38,783 | 39,314 | 39,843 | 40,372 |        |
| 83          | 32,529 | 33,076      | 33,620 | 34,163 | 34,705 | 35,245 | 35,783 | 36,321 | 36,857 | 37,392 | 37,926 | 38,459 | 38,991 | 39,521 | 40,052 |        |
| 84          | 32,181 | 32,730      | 33,277 | 33,822 | 34,366 | 34,908 | 35,448 | 35,987 | 36,525 | 37,062 | 37,597 | 38,132 | 38,665 | 39,198 | 39,729 |        |
| 85          | 31,830 | 32,381      | 32,930 | 33,478 | 34,024 | 34,568 | 35,110 | 35,652 | 36,191 | 36,730 | 37,267 | 37,803 | 38,338 | 38,872 | 39,405 |        |
| 86          | 31,474 | 32,029      | 32,581 | 33,131 | 33,679 | 34,225 | 34,770 | 35,313 | 35,855 | 36,395 | 36,934 | 37,472 | 38,008 | 38,544 | 39,078 |        |
| 87          | 31,115 | 31,673      | 32,227 | 32,780 | 33,331 | 33,879 | 34,426 | 34,972 | 35,515 | 36,058 | 36,598 | 37,138 | 37,676 | 38,213 | 38,749 |        |
| 88          | 30,752 | 31,312      | 31,870 | 32,426 | 32,979 | 33,530 | 34,080 | 34,627 | 35,173 | 35,718 | 36,260 | 36,802 | 37,342 | 37,880 | 38,418 |        |
| 89          | 30,385 | 30,948      | 31,509 | 32,068 | 32,624 | 33,178 | 33,730 | 34,280 | 34,828 | 35,375 | 35,919 | 36,463 | 37,005 | 37,545 | 38,085 |        |
| 90          | 30,012 | 30,580      | 31,144 | 31,706 | 32,265 | 32,822 | 33,377 | 33,929 | 34,480 | 35,029 | 35,576 | 36,121 | 36,665 | 37,208 | 37,749 |        |
| 91          | 29,635 | 30,207      | 30,775 | 31,340 | 31,903 | 32,462 | 33,020 | 33,575 | 34,128 | 34,680 | 35,229 | 35,777 | 36,323 | 36,867 | 37,410 |        |
| 92          | 29,253 | 29,829      | 30,401 | 30,970 | 31,536 | 32,099 | 32,659 | 33,218 | 33,774 | 34,327 | 34,879 | 35,429 | 35,978 | 36,524 | 37,069 |        |
| 93          | 28,865 | 29,445      | 30,022 | 30,595 | 31,164 | 31,731 | 32,295 | 32,856 | 33,415 | 33,972 | 34,526 | 35,079 | 35,629 | 36,178 | 36,725 |        |
| 94          | 28,471 | 29,056      | 29,637 | 30,215 | 30,788 | 31,359 | 31,926 | 32,491 | 33,053 | 33,612 | 34,170 | 34,725 | 35,278 | 35,829 | 36,378 |        |
| 95          | 28,070 | 28,661      | 29,247 | 29,829 | 30,407 | 30,982 | 31,553 | 32,121 | 32,687 | 33,249 | 33,810 | 34,367 | 34,923 | 35,477 | 36,029 |        |
| 96          | 27,662 | 28,259      | 28,851 | 29,438 | 30,021 | 30,600 | 31,175 | 31,747 | 32,316 | 32,882 | 33,446 | 34,006 | 34,565 | 35,121 | 35,676 |        |
| 97          | 27,246 | 27,850      | 28,448 | 29,041 | 29,629 | 30,213 | 30,792 | 31,369 | 31,941 | 32,511 | 33,078 | 33,642 | 34,203 | 34,762 | 35,319 |        |
| 98          | 26,822 | 27,433      | 28,038 | 28,637 | 29,231 | 29,820 | 30,404 | 30,985 | 31,562 | 32,135 | 32,705 | 33,273 | 33,838 | 34,400 | 34,960 |        |
| 99          | 26,389 | 27,008      | 27,620 | 28,226 | 28,826 | 29,420 | 30,010 | 30,595 | 31,177 | 31,754 | 32,329 | 32,900 | 33,468 | 34,033 | 34,596 |        |
| 100         | 25,945 | 26,573      | 27,194 | 27,807 | 28,414 | 29,014 | 29,610 | 30,200 | 30,787 | 31,369 | 31,947 | 32,522 | 33,094 | 33,663 | 34,229 |        |
| 101         | 25,489 | 26,128      | 26,758 | 27,379 | 27,993 | 28,601 | 29,203 | 29,799 | 30,390 | 30,977 | 31,560 | 32,140 | 32,715 | 33,288 | 33,857 |        |
| 102         | 25,020 | 25,671      | 26,311 | 26,942 | 27,565 | 28,180 | 28,788 | 29,391 | 29,988 | 30,580 | 31,168 | 31,752 | 32,332 | 32,908 | 33,482 |        |
| 103         | 24,535 | 25,200      | 25,853 | 26,494 | 27,126 | 27,750 | 28,366 | 28,976 | 29,579 | 30,177 | 30,770 | 31,359 | 31,943 | 32,524 | 33,101 |        |
| 104         | 24,034 | 24,715      | 25,381 | 26,035 | 26,678 | 27,311 | 27,935 | 28,552 | 29,163 | 29,767 | 30,366 | 30,960 | 31,549 | 32,135 | 32,716 |        |
| 105         | 23,511 | 24,212      | 24,894 | 25,562 | 26,217 | 26,860 | 27,494 | 28,120 | 28,738 | 29,350 | 29,955 | 30,555 | 31,149 | 31,740 | 32,326 |        |
| 106         | 22,963 | 23,687      | 24,389 | 25,073 | 25,743 | 26,398 | 27,043 | 27,678 | 28,305 | 28,924 | 29,536 | 30,142 | 30,743 | 31,339 | 31,930 |        |
| 107         | 22,384 | 23,138      | 23,864 | 24,567 | 25,253 | 25,923 | 26,580 | 27,226 | 27,862 | 28,490 | 29,110 | 29,723 | 30,330 | 30,932 | 31,528 |        |
| 108         | 21,765 | 22,558      | 23,313 | 24,040 | 24,745 | 25,432 | 26,103 | 26,761 | 27,408 | 28,046 | 28,674 | 29,295 | 29,909 | 30,517 | 31,120 |        |
| 109         | 21,090 | 21,936      | 22,731 | 23,488 | 24,217 | 24,923 | 25,611 | 26,283 | 26,943 | 27,591 | 28,229 | 28,859 | 29,481 | 30,096 | 30,705 |        |
| 110         |        | 21,260      | 22,108 | 22,904 | 23,663 | 24,393 | 25,100 | 25,790 | 26,463 | 27,124 | 27,773 | 28,412 | 29,043 | 29,666 | 30,282 |        |
| 111         |        |             | 21,429 | 22,279 | 23,077 | 23,837 | 24,569 | 25,278 | 25,968 | 26,643 | 27,305 | 27,955 | 28,596 | 29,227 | 29,851 |        |
| 112         |        |             |        | 21,598 | 22,450 | 23,250 | 24,012 | 24,745 | 25,455 | 26,147 | 26,823 | 27,486 | 28,137 | 28,779 | 29,411 |        |
| 113         |        |             |        |        | 21,768 | 22,621 | 23,423 | 24,186 | 24,921 | 25,632 | 26,325 | 27,003 | 27,667 | 28,319 | 28,962 |        |
| 114         |        |             |        |        |        | 21,937 | 22,792 | 23,595 | 24,360 | 25,096 | 25,809 | 26,504 | 27,182 | 27,847 | 28,501 |        |
| 115         |        |             |        |        |        |        | 22,106 | 22,963 | 23,768 | 24,535 | 25,272 | 25,986 | 26,682 | 27,362 | 28,028 |        |
| 116         |        |             |        |        |        |        |        | 22,275 | 23,134 | 23,941 | 24,709 | 25,448 | 26,163 | 26,860 | 27,541 |        |
| 117         |        |             |        |        |        |        |        |        | 22,443 | 23,304 | 24,113 | 24,882 | 25,623 | 26,340 | 27,038 |        |
| 118         |        |             |        |        |        |        |        |        |        | 22,612 | 23,475 | 24,285 | 25,056 | 25,798 | 26,516 |        |
| 119         |        |             |        |        |        |        |        |        |        |        | 22,781 | 23,646 | 24,457 | 25,230 | 25,973 |        |
| 120         |        |             |        |        |        |        |        |        |        |        |        | 22,949 | 23,816 | 24,630 | 25,404 |        |





# CENTER DISTANCE

## TABLE IN TEETH

|            |        | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
|------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
|            |        | 127         | 128    | 129    | 130    | 131    | 132    | 133    | 134    | 135    | 136    | 137    | 138    | 139    | 140    | 141 |
| <b>61</b>  | 47,249 | 47,760      | 48,271 | 48,781 | 49,291 | 49,801 | 50,311 | 50,820 | 51,330 | 51,839 | 52,348 | 52,856 | 53,365 | 53,873 | 54,382 |     |
| <b>62</b>  | 46,960 | 47,471      | 47,982 | 48,493 | 49,004 | 49,514 | 50,024 | 50,534 | 51,044 | 51,553 | 52,062 | 52,572 | 53,081 | 53,589 | 54,098 |     |
| <b>63</b>  | 46,669 | 47,181      | 47,693 | 48,204 | 48,715 | 49,226 | 49,736 | 50,247 | 50,757 | 51,267 | 51,777 | 52,286 | 52,795 | 53,305 | 53,814 |     |
| <b>64</b>  | 46,377 | 46,890      | 47,402 | 47,914 | 48,425 | 48,936 | 49,448 | 49,958 | 50,469 | 50,979 | 51,490 | 52,000 | 52,509 | 53,019 | 53,528 |     |
| <b>65</b>  | 46,084 | 46,597      | 47,110 | 47,622 | 48,134 | 48,646 | 49,158 | 49,669 | 50,180 | 50,691 | 51,202 | 51,712 | 52,222 | 52,732 | 53,242 |     |
| <b>66</b>  | 45,790 | 46,304      | 46,817 | 47,330 | 47,843 | 48,355 | 48,867 | 49,379 | 49,891 | 50,402 | 50,913 | 51,424 | 51,934 | 52,445 | 52,955 |     |
| <b>67</b>  | 45,495 | 46,009      | 46,523 | 47,036 | 47,550 | 48,063 | 48,575 | 49,088 | 49,600 | 50,112 | 50,623 | 51,135 | 51,646 | 52,157 | 52,667 |     |
| <b>68</b>  | 45,198 | 45,713      | 46,228 | 46,742 | 47,256 | 47,769 | 48,282 | 48,795 | 49,308 | 49,820 | 50,332 | 50,844 | 51,356 | 51,867 | 52,378 |     |
| <b>69</b>  | 44,901 | 45,416      | 45,931 | 46,446 | 46,960 | 47,475 | 47,988 | 48,502 | 49,015 | 49,528 | 50,041 | 50,553 | 51,065 | 51,577 | 52,088 |     |
| <b>70</b>  | 44,602 | 45,118      | 45,634 | 46,149 | 46,664 | 47,179 | 47,693 | 48,207 | 48,721 | 49,235 | 49,748 | 50,261 | 50,773 | 51,286 | 51,798 |     |
| <b>71</b>  | 44,301 | 44,818      | 45,335 | 45,851 | 46,367 | 46,882 | 47,397 | 47,912 | 48,426 | 48,940 | 49,454 | 49,967 | 50,480 | 50,993 | 51,506 |     |
| <b>72</b>  | 44,000 | 44,517      | 45,035 | 45,551 | 46,068 | 46,584 | 47,099 | 47,615 | 48,130 | 48,644 | 49,159 | 49,673 | 50,186 | 50,700 | 51,213 |     |
| <b>73</b>  | 43,697 | 44,215      | 44,733 | 45,251 | 45,768 | 46,284 | 46,801 | 47,317 | 47,832 | 48,348 | 48,863 | 49,377 | 49,891 | 50,405 | 50,919 |     |
| <b>74</b>  | 43,392 | 43,911      | 44,430 | 44,948 | 45,466 | 45,984 | 46,501 | 47,018 | 47,534 | 48,050 | 48,565 | 49,080 | 49,595 | 50,110 | 50,624 |     |
| <b>75</b>  | 43,086 | 43,606      | 44,126 | 44,645 | 45,164 | 45,682 | 46,200 | 46,717 | 47,234 | 47,751 | 48,267 | 48,783 | 49,298 | 49,813 | 50,328 |     |
| <b>76</b>  | 42,779 | 43,300      | 43,820 | 44,340 | 44,860 | 45,379 | 45,897 | 46,415 | 46,933 | 47,450 | 47,967 | 48,484 | 49,000 | 49,516 | 50,031 |     |
| <b>77</b>  | 42,470 | 42,992      | 43,513 | 44,034 | 44,554 | 45,074 | 45,593 | 46,112 | 46,631 | 47,149 | 47,666 | 48,183 | 48,700 | 49,217 | 49,733 |     |
| <b>78</b>  | 42,159 | 42,682      | 43,204 | 43,726 | 44,247 | 44,768 | 45,288 | 45,808 | 46,327 | 46,846 | 47,364 | 47,882 | 48,399 | 48,917 | 49,433 |     |
| <b>79</b>  | 41,847 | 42,371      | 42,894 | 43,417 | 43,939 | 44,460 | 44,981 | 45,502 | 46,022 | 46,542 | 47,061 | 47,579 | 48,097 | 48,615 | 49,133 |     |
| <b>80</b>  | 41,533 | 42,058      | 42,582 | 43,106 | 43,629 | 44,152 | 44,673 | 45,195 | 45,716 | 46,236 | 46,756 | 47,275 | 47,794 | 48,313 | 48,831 |     |
| <b>81</b>  | 41,217 | 41,744      | 42,269 | 42,794 | 43,318 | 43,841 | 44,364 | 44,886 | 45,408 | 45,929 | 46,450 | 46,970 | 47,490 | 48,009 | 48,528 |     |
| <b>82</b>  | 40,900 | 41,427      | 41,954 | 42,479 | 43,005 | 43,529 | 44,053 | 44,576 | 45,099 | 45,621 | 46,142 | 46,663 | 47,184 | 47,704 | 48,223 |     |
| <b>83</b>  | 40,581 | 41,109      | 41,637 | 42,164 | 42,690 | 43,215 | 43,740 | 44,264 | 44,788 | 45,311 | 45,833 | 46,355 | 46,877 | 47,397 | 47,918 |     |
| <b>84</b>  | 40,260 | 40,789      | 41,318 | 41,846 | 42,373 | 42,900 | 43,426 | 43,951 | 44,476 | 45,000 | 45,523 | 46,046 | 46,568 | 47,090 | 47,611 |     |
| <b>85</b>  | 39,936 | 40,467      | 40,997 | 41,527 | 42,055 | 42,583 | 43,110 | 43,636 | 44,162 | 44,687 | 45,211 | 45,735 | 46,258 | 46,780 | 47,302 |     |
| <b>86</b>  | 39,611 | 40,144      | 40,675 | 41,206 | 41,735 | 42,264 | 42,792 | 43,320 | 43,846 | 44,372 | 44,897 | 45,422 | 45,946 | 46,470 | 46,993 |     |
| <b>87</b>  | 39,284 | 39,818      | 40,351 | 40,882 | 41,413 | 41,943 | 42,473 | 43,001 | 43,529 | 44,056 | 44,582 | 45,108 | 45,633 | 46,158 | 46,681 |     |
| <b>88</b>  | 38,954 | 39,490      | 40,024 | 40,557 | 41,090 | 41,621 | 42,151 | 42,681 | 43,210 | 43,738 | 44,266 | 44,792 | 45,318 | 45,844 | 46,369 |     |
| <b>89</b>  | 38,623 | 39,159      | 39,695 | 40,230 | 40,764 | 41,296 | 41,828 | 42,359 | 42,889 | 43,419 | 43,947 | 44,475 | 45,002 | 45,529 | 46,054 |     |
| <b>90</b>  | 38,288 | 38,827      | 39,364 | 39,901 | 40,436 | 40,970 | 41,503 | 42,035 | 42,567 | 43,097 | 43,627 | 44,156 | 44,684 | 45,212 | 45,739 |     |
| <b>91</b>  | 37,952 | 38,492      | 39,031 | 39,569 | 40,106 | 40,641 | 41,176 | 41,710 | 42,242 | 42,774 | 43,305 | 43,835 | 44,365 | 44,893 | 45,421 |     |
| <b>92</b>  | 37,613 | 38,155      | 38,696 | 39,235 | 39,773 | 40,311 | 40,847 | 41,382 | 41,916 | 42,449 | 42,981 | 43,513 | 44,043 | 44,573 | 45,102 |     |
| <b>93</b>  | 37,271 | 37,815      | 38,358 | 38,899 | 39,439 | 39,978 | 40,515 | 41,052 | 41,588 | 42,122 | 42,656 | 43,188 | 43,720 | 44,251 | 44,781 |     |
| <b>94</b>  | 36,926 | 37,472      | 38,017 | 38,560 | 39,102 | 39,642 | 40,182 | 40,720 | 41,257 | 41,793 | 42,328 | 42,862 | 43,395 | 43,927 | 44,459 |     |
| <b>95</b>  | 36,579 | 37,127      | 37,674 | 38,219 | 38,762 | 39,305 | 39,846 | 40,386 | 40,924 | 41,462 | 41,998 | 42,534 | 43,068 | 43,602 | 44,134 |     |
| <b>96</b>  | 36,228 | 36,779      | 37,327 | 37,875 | 38,420 | 38,965 | 39,507 | 40,049 | 40,589 | 41,128 | 41,666 | 42,203 | 42,739 | 43,274 | 43,808 |     |
| <b>97</b>  | 35,874 | 36,427      | 36,978 | 37,528 | 38,076 | 38,622 | 39,166 | 39,710 | 40,252 | 40,793 | 41,332 | 41,871 | 42,408 | 42,944 | 43,480 |     |
| <b>98</b>  | 35,517 | 36,073      | 36,626 | 37,178 | 37,728 | 38,276 | 38,823 | 39,368 | 39,912 | 40,455 | 40,996 | 41,536 | 42,075 | 42,613 | 43,150 |     |
| <b>99</b>  | 35,157 | 35,715      | 36,271 | 36,825 | 37,377 | 37,928 | 38,477 | 39,024 | 39,570 | 40,114 | 40,657 | 41,199 | 41,740 | 42,279 | 42,817 |     |
| <b>100</b> | 34,792 | 35,353      | 35,912 | 36,469 | 37,024 | 37,577 | 38,128 | 38,677 | 39,225 | 39,771 | 40,316 | 40,860 | 41,402 | 41,943 | 42,483 |     |
| <b>101</b> | 34,424 | 34,988      | 35,550 | 36,110 | 36,667 | 37,222 | 37,776 | 38,327 | 38,877 | 39,426 | 39,972 | 40,518 | 41,062 | 41,605 | 42,146 |     |
| <b>102</b> | 34,052 | 34,619      | 35,184 | 35,747 | 36,307 | 36,865 | 37,421 | 37,974 | 38,527 | 39,077 | 39,626 | 40,173 | 40,719 | 41,264 | 41,807 |     |
| <b>103</b> | 33,675 | 34,246      | 34,814 | 35,380 | 35,943 | 36,504 | 37,062 | 37,619 | 38,173 | 38,726 | 39,277 | 39,826 | 40,374 | 40,921 | 41,466 |     |
| <b>104</b> | 33,294 | 33,869      | 34,440 | 35,009 | 35,575 | 36,139 | 36,700 | 37,259 | 37,817 | 38,372 | 38,925 | 39,477 | 40,027 | 40,575 | 41,122 |     |
| <b>105</b> | 32,908 | 33,487      | 34,062 | 34,634 | 35,204 | 35,771 | 36,335 | 36,897 | 37,457 | 38,014 | 38,570 | 39,124 | 39,676 | 40,227 | 40,775 |     |
| <b>106</b> | 32,517 | 33,100      | 33,679 | 34,255 | 34,828 | 35,398 | 35,966 | 36,531 | 37,093 | 37,654 | 38,212 | 38,768 | 39,323 | 39,875 | 40,426 |     |
| <b>107</b> | 32,120 | 32,708      | 33,291 | 33,872 | 34,448 | 35,022 | 35,593 | 36,161 | 36,726 | 37,290 | 37,851 | 38,409 | 38,966 | 39,521 | 40,074 |     |
| <b>108</b> | 31,717 | 32,310      | 32,898 | 33,483 | 34,064 | 34,641 | 35,215 | 35,787 | 36,356 | 36,922 | 37,486 | 38,047 | 38,607 | 39,164 | 39,720 |     |
| <b>109</b> | 31,308 | 31,906      | 32,500 | 33,089 | 33,674 | 34,256 | 34,834 | 35,409 | 35,981 | 36,550 | 37,117 | 37,682 | 38,244 | 38,804 | 39,362 |     |
| <b>110</b> | 30,892 | 31,496      | 32,095 | 32,689 | 33,279 | 33,865 | 34,447 | 35,026 | 35,602 | 36,175 | 36,745 | 37,312 | 37,877 | 38,440 | 39,001 |     |
| <b>111</b> | 30,468 | 31,079      | 31,684 | 32,284 | 32,879 | 33,469 | 34,056 | 34,639 | 35,219 | 35,795 | 36,369 | 36,939 | 37,507 | 38,073 | 38,636 |     |
| <b>112</b> | 30,036 | 30,654      | 31,266 | 31,871 | 32,472 | 33,068 | 33,659 | 34,247 | 34,831 | 35,411 | 35,988 | 36,562 | 37,133 | 37,702 | 38,268 |     |
| <b>113</b> | 29,595 | 30,221      | 30,840 | 31,452 | 32,059 | 32,660 | 33,257 | 33,849 | 34,438 | 35,022 | 35,603 | 36,181 | 36,756 | 37,328 | 37,897 |     |
| <b>114</b> | 29,144 | 29,779      | 30,406 | 31,026 | 31,639 | 32,246 | 32,849 | 33,446 | 34,039 | 34,628 | 35,213 | 35,795 | 36,373 | 36,949 | 37,521 |     |
| <b>115</b> | 28,683 | 29,327      | 29,963 | 30,591 | 31,211 | 31,825 | 32,434 | 33,037 | 33,635 | 34,229 | 34,819 | 35,404 | 35,987 | 36,566 | 37,142 |     |
| <b>116</b> | 28,208 | 28,864      | 29,510 | 30,146 | 30,775 | 31,397 | 32,012 | 32,621 | 33,225 | 33,824 | 34,418 | 35,009 | 35,595 | 36,178 | 36,758 |     |
| <b>117</b> | 27,720 | 28,388      | 29,045 | 29,692 | 30,330 | 30,959 | 31,582 | 32,198 | 32,808 | 33,413 | 34,012 | 34,608 | 35,199 | 35,786 | 36,370 |     |
| <b>118</b> | 27,216 | 27,899      | 28,569 | 29,227 | 29,875 | 30,513 | 31,144 | 31,767 | 32,384 | 32,995 | 33,600 | 34,201 | 34,797 | 35,389 | 35,977 |     |
| <b>119</b> | 26,693 | 27,394      | 28,078 | 28,749 | 29,408 | 30,057 | 30,697 | 31,328 | 31,952 | 32,570 | 33,182 | 33,788 | 34,389 | 34,986 | 35,579 |     |
| <b>120</b> | 26,149 | 26,870      | 27,571 | 28,258 | 28,929 | 29,590 | 30,239 | 30,880 | 31,512 | 32,137 | 32,756 | 33,368 | 33,975 | 34,577 | 35,175 |     |



# CENTER DISTANCE

## TABLE IN TEETH

|            |        | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
|------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
|            |        | 142         | 143    | 144    | 145    | 146    | 147    | 148    | 149    | 150    | 151    | 152    | 153    | 154    | 155    | 156 |
| <b>61</b>  | 54,890 | 55,398      | 55,905 | 56,413 | 56,920 | 57,428 | 57,935 | 58,442 | 58,949 | 59,456 | 59,963 | 60,469 | 60,976 | 61,482 | 61,989 |     |
| <b>62</b>  | 54,606 | 55,115      | 55,623 | 56,131 | 56,639 | 57,146 | 57,654 | 58,161 | 58,669 | 59,176 | 59,683 | 60,190 | 60,697 | 61,203 | 61,710 |     |
| <b>63</b>  | 54,322 | 54,831      | 55,340 | 55,848 | 56,356 | 56,864 | 57,372 | 57,880 | 58,387 | 58,895 | 59,402 | 59,909 | 60,417 | 60,923 | 61,430 |     |
| <b>64</b>  | 54,038 | 54,547      | 55,055 | 55,564 | 56,073 | 56,581 | 57,089 | 57,597 | 58,105 | 58,613 | 59,121 | 59,628 | 60,136 | 60,643 | 61,150 |     |
| <b>65</b>  | 53,752 | 54,261      | 54,771 | 55,280 | 55,789 | 56,297 | 56,806 | 57,314 | 57,823 | 58,331 | 58,839 | 59,346 | 59,854 | 60,362 | 60,869 |     |
| <b>66</b>  | 53,465 | 53,975      | 54,485 | 54,994 | 55,503 | 56,013 | 56,522 | 57,030 | 57,539 | 58,047 | 58,556 | 59,064 | 59,572 | 60,080 | 60,588 |     |
| <b>67</b>  | 53,178 | 53,688      | 54,198 | 54,708 | 55,218 | 55,727 | 56,236 | 56,746 | 57,255 | 57,763 | 58,272 | 58,781 | 59,289 | 59,797 | 60,305 |     |
| <b>68</b>  | 52,889 | 53,400      | 53,910 | 54,421 | 54,931 | 55,441 | 55,950 | 56,460 | 56,969 | 57,479 | 57,988 | 58,496 | 59,005 | 59,514 | 60,022 |     |
| <b>69</b>  | 52,600 | 53,111      | 53,622 | 54,133 | 54,643 | 55,154 | 55,664 | 56,174 | 56,683 | 57,193 | 57,702 | 58,211 | 58,721 | 59,229 | 59,738 |     |
| <b>70</b>  | 52,310 | 52,821      | 53,333 | 53,844 | 54,355 | 54,865 | 55,376 | 55,886 | 56,396 | 56,906 | 57,416 | 57,926 | 58,435 | 58,944 | 59,454 |     |
| <b>71</b>  | 52,018 | 52,530      | 53,042 | 53,554 | 54,065 | 54,576 | 55,087 | 55,598 | 56,109 | 56,619 | 57,129 | 57,639 | 58,149 | 58,659 | 59,168 |     |
| <b>72</b>  | 51,726 | 52,238      | 52,751 | 53,263 | 53,775 | 54,286 | 54,798 | 55,309 | 55,820 | 56,331 | 56,841 | 57,352 | 57,862 | 58,372 | 58,882 |     |
| <b>73</b>  | 51,433 | 51,946      | 52,459 | 52,971 | 53,483 | 53,996 | 54,507 | 55,019 | 55,531 | 56,042 | 56,553 | 57,064 | 57,574 | 58,085 | 58,595 |     |
| <b>74</b>  | 51,138 | 51,652      | 52,165 | 52,678 | 53,191 | 53,704 | 54,216 | 54,728 | 55,240 | 55,752 | 56,263 | 56,774 | 57,285 | 57,796 | 58,307 |     |
| <b>75</b>  | 50,843 | 51,357      | 51,871 | 52,385 | 52,898 | 53,411 | 53,924 | 54,436 | 54,949 | 55,461 | 55,973 | 56,484 | 56,996 | 57,507 | 58,018 |     |
| <b>76</b>  | 50,546 | 51,061      | 51,575 | 52,090 | 52,604 | 53,117 | 53,631 | 54,144 | 54,656 | 55,169 | 55,681 | 56,194 | 56,705 | 57,217 | 57,729 |     |
| <b>77</b>  | 50,249 | 50,764      | 51,279 | 51,794 | 52,308 | 52,822 | 53,336 | 53,850 | 54,363 | 54,876 | 55,389 | 55,902 | 56,414 | 56,926 | 57,438 |     |
| <b>78</b>  | 49,950 | 50,466      | 50,981 | 51,497 | 52,012 | 52,527 | 53,041 | 53,555 | 54,069 | 54,583 | 55,096 | 55,609 | 56,122 | 56,634 | 57,147 |     |
| <b>79</b>  | 49,650 | 50,166      | 50,683 | 51,199 | 51,714 | 52,230 | 52,745 | 53,259 | 53,774 | 54,288 | 54,802 | 55,315 | 55,829 | 56,342 | 56,854 |     |
| <b>80</b>  | 49,349 | 49,866      | 50,383 | 50,899 | 51,416 | 51,932 | 52,447 | 52,962 | 53,477 | 53,992 | 54,506 | 55,021 | 55,534 | 56,048 | 56,561 |     |
| <b>81</b>  | 49,046 | 49,564      | 50,082 | 50,599 | 51,116 | 51,633 | 52,149 | 52,665 | 53,180 | 53,695 | 54,210 | 54,725 | 55,239 | 55,753 | 56,267 |     |
| <b>82</b>  | 48,743 | 49,261      | 49,780 | 50,298 | 50,815 | 51,332 | 51,849 | 52,366 | 52,882 | 53,398 | 53,913 | 54,428 | 54,943 | 55,458 | 55,972 |     |
| <b>83</b>  | 48,438 | 48,957      | 49,476 | 49,995 | 50,513 | 51,031 | 51,548 | 52,066 | 52,582 | 53,099 | 53,615 | 54,130 | 54,648 | 55,161 | 55,676 |     |
| <b>84</b>  | 48,132 | 48,652      | 49,172 | 49,691 | 50,210 | 50,728 | 51,247 | 51,764 | 52,282 | 52,799 | 53,315 | 53,832 | 54,348 | 54,863 | 55,379 |     |
| <b>85</b>  | 47,824 | 48,345      | 48,866 | 49,386 | 49,905 | 50,425 | 50,943 | 51,462 | 51,980 | 52,498 | 53,015 | 53,532 | 54,048 | 54,565 | 55,081 |     |
| <b>86</b>  | 47,515 | 48,037      | 48,558 | 49,079 | 49,600 | 50,120 | 50,639 | 51,158 | 51,677 | 52,195 | 52,713 | 53,231 | 53,748 | 54,265 | 54,781 |     |
| <b>87</b>  | 47,205 | 47,727      | 48,250 | 48,771 | 49,293 | 49,813 | 50,334 | 50,853 | 51,373 | 51,892 | 52,410 | 52,929 | 53,447 | 53,964 | 54,481 |     |
| <b>88</b>  | 46,893 | 47,417      | 47,940 | 48,462 | 48,984 | 49,506 | 50,027 | 50,547 | 51,068 | 51,587 | 52,107 | 52,625 | 53,144 | 53,662 | 54,180 |     |
| <b>89</b>  | 46,580 | 47,104      | 47,628 | 48,152 | 48,674 | 49,197 | 49,719 | 50,240 | 50,761 | 51,281 | 51,801 | 52,321 | 52,840 | 53,359 | 53,877 |     |
| <b>90</b>  | 46,265 | 46,790      | 47,315 | 47,840 | 48,363 | 48,887 | 49,409 | 49,931 | 50,453 | 50,974 | 51,495 | 52,015 | 52,535 | 53,055 | 53,574 |     |
| <b>91</b>  | 45,948 | 46,475      | 47,001 | 47,526 | 48,051 | 48,575 | 49,098 | 49,621 | 50,144 | 50,666 | 51,187 | 51,709 | 52,229 | 52,749 | 53,269 |     |
| <b>92</b>  | 45,630 | 46,158      | 46,685 | 47,211 | 47,737 | 48,262 | 48,786 | 49,310 | 49,833 | 50,356 | 50,879 | 51,400 | 51,922 | 52,443 | 52,963 |     |
| <b>93</b>  | 45,311 | 45,839      | 46,367 | 46,895 | 47,421 | 47,947 | 48,473 | 48,997 | 49,522 | 50,045 | 50,568 | 51,091 | 51,613 | 52,135 | 52,656 |     |
| <b>94</b>  | 44,989 | 45,519      | 46,048 | 46,576 | 47,104 | 47,631 | 48,157 | 48,683 | 49,208 | 49,733 | 50,257 | 50,780 | 51,303 | 51,826 | 52,348 |     |
| <b>95</b>  | 44,666 | 45,197      | 45,727 | 46,257 | 46,785 | 47,313 | 47,841 | 48,367 | 48,893 | 49,419 | 49,944 | 50,468 | 50,992 | 51,515 | 52,038 |     |
| <b>96</b>  | 44,341 | 44,873      | 45,405 | 45,935 | 46,465 | 46,994 | 47,522 | 48,050 | 48,577 | 49,104 | 49,629 | 50,155 | 50,679 | 51,203 | 51,727 |     |
| <b>97</b>  | 44,014 | 44,548      | 45,080 | 45,612 | 46,143 | 46,673 | 47,203 | 47,731 | 48,259 | 48,787 | 49,314 | 49,840 | 50,365 | 50,890 | 51,415 |     |
| <b>98</b>  | 43,685 | 44,220      | 44,754 | 45,287 | 45,819 | 46,351 | 46,881 | 47,411 | 47,940 | 48,468 | 48,996 | 49,523 | 50,050 | 50,576 | 51,101 |     |
| <b>99</b>  | 43,354 | 43,891      | 44,426 | 44,960 | 45,494 | 46,026 | 46,558 | 47,089 | 47,619 | 48,149 | 48,677 | 49,205 | 49,733 | 50,260 | 50,786 |     |
| <b>100</b> | 43,021 | 43,559      | 44,096 | 44,631 | 45,166 | 45,700 | 46,233 | 46,765 | 47,296 | 47,827 | 48,357 | 48,886 | 49,415 | 49,942 | 50,470 |     |
| <b>101</b> | 42,686 | 43,226      | 43,764 | 44,301 | 44,837 | 45,372 | 45,906 | 46,440 | 46,972 | 47,504 | 48,035 | 48,565 | 49,095 | 49,623 | 50,152 |     |
| <b>102</b> | 42,349 | 42,890      | 43,429 | 43,968 | 44,505 | 45,042 | 45,578 | 46,112 | 46,646 | 47,179 | 47,711 | 48,242 | 48,773 | 49,303 | 49,832 |     |
| <b>103</b> | 42,009 | 42,552      | 43,093 | 43,633 | 44,172 | 44,710 | 45,247 | 45,783 | 46,318 | 46,852 | 47,386 | 47,918 | 48,450 | 48,981 | 49,511 |     |
| <b>104</b> | 41,667 | 42,212      | 42,754 | 43,296 | 43,837 | 44,376 | 44,914 | 45,452 | 45,988 | 46,524 | 47,058 | 47,592 | 48,125 | 48,657 | 49,188 |     |
| <b>105</b> | 41,323 | 41,869      | 42,414 | 42,957 | 43,499 | 44,040 | 44,580 | 45,119 | 45,656 | 46,193 | 46,729 | 47,264 | 47,798 | 48,331 | 48,864 |     |
| <b>106</b> | 40,976 | 41,524      | 42,070 | 42,615 | 43,159 | 43,702 | 44,243 | 44,784 | 45,323 | 45,861 | 46,398 | 46,934 | 47,470 | 48,004 | 48,538 |     |
| <b>107</b> | 40,626 | 41,176      | 41,724 | 42,271 | 42,817 | 43,361 | 43,904 | 44,446 | 44,987 | 45,527 | 46,065 | 46,603 | 47,140 | 47,675 | 48,210 |     |
| <b>108</b> | 40,273 | 40,825      | 41,376 | 41,925 | 42,472 | 43,018 | 43,563 | 44,107 | 44,649 | 45,190 | 45,730 | 46,269 | 46,807 | 47,344 | 47,881 |     |
| <b>109</b> | 39,918 | 40,472      | 41,025 | 41,576 | 42,125 | 42,673 | 43,220 | 43,765 | 44,309 | 44,852 | 45,393 | 45,934 | 46,473 | 47,012 | 47,549 |     |
| <b>110</b> | 39,559 | 40,116      | 40,671 | 41,224 | 41,775 | 42,325 | 42,874 | 43,421 | 43,966 | 44,511 | 45,054 | 45,596 | 46,137 | 46,677 | 47,216 |     |
| <b>111</b> | 39,197 | 39,757      | 40,314 | 40,869 | 41,423 | 41,975 | 42,525 | 43,074 | 43,622 | 44,168 | 44,713 | 45,256 | 45,799 | 46,340 | 46,881 |     |
| <b>112</b> | 38,832 | 39,394      | 39,954 | 40,511 | 41,067 | 41,622 | 42,174 | 42,725 | 43,274 | 43,822 | 44,369 | 44,914 | 45,459 | 46,001 | 46,543 |     |
| <b>113</b> | 38,464 | 39,028      | 39,591 | 40,151 | 40,709 | 41,265 | 41,820 | 42,373 | 42,925 | 43,475 | 44,023 | 44,570 | 45,116 | 45,661 | 46,204 |     |
| <b>114</b> | 38,091 | 38,659      | 39,224 | 39,787 | 40,348 | 40,906 | 41,463 | 42,019 | 42,572 | 43,124 | 43,674 | 44,223 | 44,771 | 45,317 | 45,862 |     |
| <b>115</b> | 37,715 | 38,286      | 38,854 | 39,420 | 39,983 | 40,544 | 41,104 | 41,661 | 42,217 | 42,771 | 43,323 | 43,874 | 44,424 | 44,972 | 45,518 |     |
| <b>116</b> | 37,335 | 37,909      | 38,480 | 39,049 | 39,615 | 40,179 | 40,741 | 41,301 | 41,859 | 42,415 | 42,970 | 43,523 | 44,074 | 44,624 | 45,172 |     |
| <b>117</b> | 36,950 | 37,528      | 38,102 | 38,674 | 39,243 | 39,810 | 40,375 | 40,937 | 41,498 | 42,056 | 42,613 | 43,168 | 43,722 | 44,273 | 44,824 |     |
| <b>118</b> | 36,561 | 37,143      | 37,721 | 38,296 | 38,868 | 39,438 | 40,005 | 40,571 | 41,134 | 41,695 | 42,254 | 42,811 | 43,366 | 43,920 | 44,473 |     |
| <b>119</b> | 36,167 | 36,753      | 37,334 | 37,913 | 38,489 | 39,062 | 39,632 | 40,200 | 40,766 | 41,330 | 41,891 | 42,451 | 43,009 | 43,565 | 44,119 |     |
| <b>120</b> | 35,768 | 36,358      | 36,944 | 37,526 | 38,106 | 38,682 | 39,256 | 39,827 | 40,395 | 40,961 | 41,526 | 42,088 | 42,648 | 43,206 | 43,763 |     |



# CENTER DISTANCE

## TABLE IN TEETH

|             |        | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |        | 157         | 158    | 159    | 160    | 161    | 162    | 163    | 164    | 165    | 166    | 167    | 168    | 169    | 170    | 171    |
| $Z_2 - Z_1$ | 61     | 62,495      | 63,001 | 63,507 | 64,013 | 64,519 | 65,024 | 65,530 | 66,036 | 66,541 | 67,046 | 67,552 | 68,057 | 68,562 | 69,067 | 69,572 |
|             | 62     | 62,216      | 62,723 | 63,229 | 63,735 | 64,241 | 64,747 | 65,253 | 65,759 | 66,264 | 66,770 | 67,275 | 67,781 | 68,286 | 68,792 | 69,297 |
|             | 63     | 61,937      | 62,444 | 62,950 | 63,457 | 63,963 | 64,469 | 64,975 | 65,481 | 65,987 | 66,493 | 66,999 | 67,504 | 68,010 | 68,515 | 69,021 |
|             | 64     | 61,657      | 62,164 | 62,671 | 63,178 | 63,684 | 64,191 | 64,697 | 65,203 | 65,709 | 66,215 | 66,721 | 67,227 | 67,733 | 68,239 | 68,744 |
|             | 65     | 61,377      | 61,884 | 62,391 | 62,898 | 63,405 | 63,911 | 64,418 | 64,924 | 65,431 | 65,937 | 66,443 | 66,950 | 67,456 | 67,962 | 68,467 |
|             | 66     | 61,095      | 61,603 | 62,110 | 62,617 | 63,124 | 63,631 | 64,138 | 64,645 | 65,152 | 65,658 | 66,165 | 66,671 | 67,178 | 67,684 | 68,190 |
|             | 67     | 60,813      | 61,321 | 61,829 | 62,336 | 62,844 | 63,351 | 63,858 | 64,365 | 64,872 | 65,379 | 65,886 | 66,392 | 66,899 | 67,405 | 67,912 |
|             | 68     | 60,530      | 61,038 | 61,546 | 62,054 | 62,562 | 63,070 | 63,577 | 64,084 | 64,592 | 65,099 | 65,606 | 66,113 | 66,619 | 67,126 | 67,633 |
|             | 69     | 60,247      | 60,755 | 61,264 | 61,772 | 62,280 | 62,788 | 63,295 | 63,803 | 64,311 | 64,818 | 65,325 | 65,832 | 66,339 | 66,846 | 67,353 |
|             | 70     | 59,962      | 60,471 | 60,980 | 61,488 | 61,997 | 62,505 | 63,013 | 63,521 | 64,029 | 64,536 | 65,044 | 65,551 | 66,059 | 66,566 | 67,073 |
|             | 71     | 59,677      | 60,187 | 60,695 | 61,204 | 61,713 | 62,222 | 62,730 | 63,238 | 63,746 | 64,254 | 64,762 | 65,270 | 65,777 | 66,285 | 66,792 |
|             | 72     | 59,391      | 59,901 | 60,410 | 60,919 | 61,428 | 61,937 | 62,446 | 62,955 | 63,463 | 63,971 | 64,480 | 64,988 | 65,495 | 66,003 | 66,511 |
|             | 73     | 59,105      | 59,615 | 60,124 | 60,634 | 61,143 | 61,652 | 62,161 | 62,670 | 63,179 | 63,688 | 64,196 | 64,705 | 65,213 | 65,721 | 66,229 |
|             | 74     | 58,817      | 59,328 | 59,838 | 60,348 | 60,857 | 61,367 | 61,876 | 62,385 | 62,894 | 63,403 | 63,912 | 64,421 | 64,929 | 65,438 | 65,946 |
|             | 75     | 58,529      | 59,040 | 59,550 | 60,060 | 60,570 | 61,080 | 61,590 | 62,100 | 62,609 | 63,118 | 63,627 | 64,136 | 64,645 | 65,154 | 65,662 |
|             | 76     | 58,240      | 58,751 | 59,262 | 59,772 | 60,283 | 60,793 | 61,303 | 61,813 | 62,323 | 62,833 | 63,342 | 63,851 | 64,360 | 64,869 | 65,378 |
|             | 77     | 57,950      | 58,461 | 58,972 | 59,484 | 59,994 | 60,505 | 61,016 | 61,526 | 62,036 | 62,546 | 63,056 | 63,565 | 64,075 | 64,584 | 65,093 |
|             | 78     | 57,659      | 58,171 | 58,682 | 59,194 | 59,705 | 60,216 | 60,727 | 61,238 | 61,748 | 62,259 | 62,769 | 63,279 | 63,789 | 64,298 | 64,808 |
|             | 79     | 57,367      | 57,879 | 58,391 | 58,903 | 59,415 | 59,927 | 60,438 | 60,949 | 61,460 | 61,971 | 62,481 | 62,991 | 63,502 | 64,012 | 64,521 |
|             | 80     | 57,074      | 57,587 | 58,100 | 58,612 | 59,124 | 59,636 | 60,148 | 60,659 | 61,171 | 61,682 | 62,193 | 62,703 | 63,214 | 63,724 | 64,234 |
| 81          | 56,781 | 57,294      | 57,807 | 58,320 | 58,832 | 59,345 | 59,857 | 60,369 | 60,880 | 61,392 | 61,903 | 62,414 | 62,925 | 63,436 | 63,947 |        |
| 82          | 56,486 | 57,000      | 57,513 | 58,027 | 58,540 | 59,052 | 59,565 | 60,077 | 60,589 | 61,101 | 61,613 | 62,125 | 62,636 | 63,147 | 63,658 |        |
| 83          | 56,190 | 56,705      | 57,219 | 57,732 | 58,246 | 58,759 | 59,272 | 59,785 | 60,298 | 60,810 | 61,322 | 61,834 | 62,346 | 62,857 | 63,369 |        |
| 84          | 55,894 | 56,409      | 56,923 | 57,437 | 57,951 | 58,465 | 58,979 | 59,492 | 60,005 | 60,518 | 61,030 | 61,543 | 62,055 | 62,567 | 63,078 |        |
| 85          | 55,596 | 56,112      | 56,627 | 57,141 | 57,656 | 58,170 | 58,684 | 59,198 | 59,711 | 60,225 | 60,738 | 61,250 | 61,763 | 62,275 | 62,787 |        |
| 86          | 55,298 | 55,814      | 56,329 | 56,844 | 57,359 | 57,874 | 58,389 | 58,903 | 59,417 | 59,931 | 60,444 | 60,957 | 61,470 | 61,983 | 62,496 |        |
| 87          | 54,998 | 55,515      | 56,031 | 56,547 | 57,062 | 57,577 | 58,092 | 58,607 | 59,121 | 59,636 | 60,150 | 60,663 | 61,177 | 61,690 | 62,203 |        |
| 88          | 54,697 | 55,214      | 55,731 | 56,248 | 56,764 | 57,279 | 57,795 | 58,310 | 58,825 | 59,340 | 59,854 | 60,368 | 60,882 | 61,396 | 61,909 |        |
| 89          | 54,396 | 54,913      | 55,431 | 55,948 | 56,464 | 56,981 | 57,497 | 58,012 | 58,528 | 59,043 | 59,558 | 60,073 | 60,587 | 61,101 | 61,615 |        |
| 90          | 54,093 | 54,611      | 55,129 | 55,646 | 56,164 | 56,681 | 57,197 | 57,714 | 58,230 | 58,745 | 59,261 | 59,776 | 60,291 | 60,805 | 61,320 |        |
| 91          | 53,789 | 54,308      | 54,826 | 55,344 | 55,862 | 56,380 | 56,897 | 57,414 | 57,930 | 58,447 | 58,963 | 59,478 | 59,994 | 60,509 | 61,024 |        |
| 92          | 53,483 | 54,003      | 54,522 | 55,041 | 55,560 | 56,078 | 56,596 | 57,113 | 57,630 | 58,147 | 58,663 | 59,180 | 59,696 | 60,211 | 60,726 |        |
| 93          | 53,177 | 53,697      | 54,217 | 54,737 | 55,256 | 55,775 | 56,293 | 56,811 | 57,329 | 57,846 | 58,363 | 58,880 | 59,396 | 59,913 | 60,428 |        |
| 94          | 52,869 | 53,390      | 53,911 | 54,431 | 54,951 | 55,470 | 55,990 | 56,508 | 57,027 | 57,545 | 58,062 | 58,579 | 59,096 | 59,613 | 60,130 |        |
| 95          | 52,560 | 53,082      | 53,604 | 54,125 | 54,645 | 55,165 | 55,685 | 56,204 | 56,723 | 57,242 | 57,760 | 58,278 | 58,795 | 59,313 | 59,830 |        |
| 96          | 52,250 | 52,773      | 53,295 | 53,817 | 54,338 | 54,859 | 55,379 | 55,899 | 56,419 | 56,938 | 57,457 | 57,975 | 58,493 | 59,011 | 59,529 |        |
| 97          | 51,939 | 52,462      | 52,985 | 53,507 | 54,029 | 54,551 | 55,072 | 55,593 | 56,113 | 56,633 | 57,152 | 57,672 | 58,190 | 58,709 | 59,227 |        |
| 98          | 51,626 | 52,150      | 52,674 | 53,197 | 53,720 | 54,242 | 54,764 | 55,285 | 55,806 | 56,327 | 56,847 | 57,367 | 57,886 | 58,405 | 58,924 |        |
| 99          | 51,312 | 51,837      | 52,361 | 52,885 | 53,409 | 53,932 | 54,455 | 54,977 | 55,498 | 56,020 | 56,540 | 57,061 | 57,581 | 58,101 | 58,620 |        |
| 100         | 50,996 | 51,522      | 52,048 | 52,572 | 53,097 | 53,621 | 54,144 | 54,667 | 55,189 | 55,711 | 56,233 | 56,754 | 57,275 | 57,795 | 58,315 |        |
| 101         | 50,679 | 51,206      | 51,732 | 52,258 | 52,783 | 53,308 | 53,832 | 54,356 | 54,879 | 55,402 | 55,924 | 56,446 | 56,967 | 57,488 | 58,009 |        |
| 102         | 50,361 | 50,888      | 51,416 | 51,942 | 52,468 | 52,994 | 53,519 | 54,043 | 54,567 | 55,091 | 55,614 | 56,136 | 56,658 | 57,180 | 57,701 |        |
| 103         | 50,040 | 50,569      | 51,098 | 51,625 | 52,152 | 52,679 | 53,204 | 53,730 | 54,254 | 54,779 | 55,303 | 55,826 | 56,349 | 56,871 | 57,393 |        |
| 104         | 49,719 | 50,249      | 50,778 | 51,307 | 51,835 | 52,362 | 52,889 | 53,415 | 53,940 | 54,465 | 54,990 | 55,514 | 56,038 | 56,561 | 57,083 |        |
| 105         | 49,396 | 49,927      | 50,457 | 50,986 | 51,515 | 52,044 | 52,571 | 53,098 | 53,625 | 54,151 | 54,676 | 55,201 | 55,725 | 56,249 | 56,773 |        |
| 106         | 49,071 | 49,603      | 50,134 | 50,665 | 51,195 | 51,724 | 52,253 | 52,781 | 53,308 | 53,835 | 54,361 | 54,887 | 55,412 | 55,937 | 56,461 |        |
| 107         | 48,744 | 49,277      | 49,810 | 50,342 | 50,873 | 51,403 | 51,932 | 52,461 | 52,990 | 53,517 | 54,045 | 54,571 | 55,097 | 55,623 | 56,148 |        |
| 108         | 48,416 | 48,950      | 49,484 | 50,017 | 50,549 | 51,080 | 51,611 | 52,141 | 52,670 | 53,199 | 53,727 | 54,254 | 54,781 | 55,307 | 55,833 |        |
| 109         | 48,086 | 48,621      | 49,156 | 49,690 | 50,223 | 50,756 | 51,288 | 51,818 | 52,349 | 52,878 | 53,407 | 53,936 | 54,463 | 54,991 | 55,517 |        |
| 110         | 47,754 | 48,291      | 48,827 | 49,362 | 49,896 | 50,430 | 50,963 | 51,495 | 52,026 | 52,557 | 53,087 | 53,616 | 54,145 | 54,673 | 55,200 |        |
| 111         | 47,420 | 47,958      | 48,496 | 49,032 | 49,568 | 50,102 | 50,636 | 51,169 | 51,702 | 52,233 | 52,764 | 53,295 | 53,824 | 54,353 | 54,882 |        |
| 112         | 47,084 | 47,624      | 48,162 | 48,700 | 49,237 | 49,773 | 50,308 | 50,842 | 51,376 | 51,909 | 52,441 | 52,972 | 53,503 | 54,033 | 54,562 |        |
| 113         | 46,746 | 47,287      | 47,827 | 48,367 | 48,905 | 49,442 | 49,978 | 50,514 | 51,048 | 51,582 | 52,115 | 52,648 | 53,179 | 53,710 | 54,241 |        |
| 114         | 46,406 | 46,949      | 47,490 | 48,031 | 48,570 | 49,109 | 49,647 | 50,183 | 50,719 | 51,254 | 51,788 | 52,322 | 52,855 | 53,387 | 53,918 |        |
| 115         | 46,064 | 46,608      | 47,151 | 47,693 | 48,234 | 48,774 | 49,313 | 49,851 | 50,388 | 50,924 | 51,460 | 51,994 | 52,528 | 53,061 | 53,594 |        |
| 116         | 45,720 | 46,265      | 46,810 | 47,354 | 47,896 | 48,437 | 48,978 | 49,517 | 50,055 | 50,593 | 51,130 | 51,665 | 52,200 | 52,734 | 53,268 |        |
| 117         | 45,373 | 45,920      | 46,467 | 47,012 | 47,556 | 48,099 | 48,640 | 49,181 | 49,721 | 50,260 | 50,798 | 51,335 | 51,871 | 52,406 | 52,940 |        |
| 118         | 45,024 | 45,573      | 46,121 | 46,668 | 47,214 | 47,758 | 48,301 | 48,843 | 49,384 | 49,925 | 50,464 | 51,002 | 51,539 | 52,076 | 52,611 |        |
| 119         | 44,672 | 45,223      | 45,773 | 46,322 | 46,869 | 47,415 | 47,960 | 48,503 | 49,046 | 49,588 | 50,128 | 50,668 | 51,206 | 51,744 | 52,281 |        |
| 120         | 44,318 | 44,871      | 45,423 | 45,973 | 46,522 | 47,070 | 47,616 | 48,161 | 48,706 | 49,249 | 49,790 | 50,331 | 50,871 | 51,410 | 51,948 |        |





# CENTER DISTANCE

## TABLE IN TEETH

|             |        | $Z_b - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |        | 172         | 173    | 174    | 175    | 176    | 177    | 178    | 179    | 180    | 181    | 182    | 183    | 184    | 185    | 186    |
| $Z_2 - Z_1$ | 61     | 70,077      | 70,582 | 71,086 | 71,591 | 72,096 | 72,600 | 73,105 | 73,609 | 74,114 | 74,618 | 75,122 | 75,626 | 76,131 | 76,635 | 77,139 |
|             | 62     | 69,802      | 70,307 | 70,812 | 71,317 | 71,822 | 72,326 | 72,831 | 73,336 | 73,840 | 74,345 | 74,849 | 75,353 | 75,858 | 76,362 | 76,866 |
|             | 63     | 69,526      | 70,031 | 70,537 | 71,042 | 71,547 | 72,052 | 72,557 | 73,061 | 73,566 | 74,071 | 74,575 | 75,080 | 75,584 | 76,089 | 76,593 |
|             | 64     | 69,250      | 69,755 | 70,261 | 70,766 | 71,271 | 71,776 | 72,282 | 72,787 | 73,292 | 73,796 | 74,301 | 74,806 | 75,311 | 75,815 | 76,320 |
|             | 65     | 68,973      | 69,479 | 69,984 | 70,490 | 70,995 | 71,501 | 72,006 | 72,511 | 73,016 | 73,521 | 74,026 | 74,531 | 75,036 | 75,541 | 76,046 |
|             | 66     | 68,696      | 69,202 | 69,708 | 70,213 | 70,719 | 71,224 | 71,730 | 72,235 | 72,741 | 73,246 | 73,751 | 74,256 | 74,761 | 75,266 | 75,771 |
|             | 67     | 68,418      | 68,924 | 69,430 | 69,936 | 70,442 | 70,948 | 71,453 | 71,959 | 72,464 | 72,970 | 73,475 | 73,981 | 74,486 | 74,991 | 75,496 |
|             | 68     | 68,139      | 68,646 | 69,152 | 69,658 | 70,164 | 70,670 | 71,176 | 71,682 | 72,188 | 72,693 | 73,199 | 73,704 | 74,210 | 74,715 | 75,221 |
|             | 69     | 67,860      | 68,367 | 68,873 | 69,379 | 69,886 | 70,392 | 70,898 | 71,404 | 71,910 | 72,416 | 72,922 | 73,428 | 73,933 | 74,439 | 74,944 |
|             | 70     | 67,580      | 68,087 | 68,594 | 69,100 | 69,607 | 70,113 | 70,620 | 71,126 | 71,632 | 72,138 | 72,644 | 73,150 | 73,656 | 74,162 | 74,668 |
|             | 71     | 67,300      | 67,807 | 68,314 | 68,821 | 69,327 | 69,834 | 70,341 | 70,847 | 71,354 | 71,860 | 72,366 | 72,873 | 73,379 | 73,885 | 74,391 |
|             | 72     | 67,018      | 67,526 | 68,033 | 68,540 | 69,047 | 69,554 | 70,061 | 70,568 | 71,075 | 71,581 | 72,088 | 72,594 | 73,100 | 73,607 | 74,113 |
|             | 73     | 66,737      | 67,244 | 67,752 | 68,259 | 68,767 | 69,274 | 69,781 | 70,288 | 70,795 | 71,302 | 71,808 | 72,315 | 72,822 | 73,328 | 73,834 |
|             | 74     | 66,454      | 66,962 | 67,470 | 67,978 | 68,485 | 68,993 | 69,500 | 70,007 | 70,515 | 71,022 | 71,529 | 72,036 | 72,542 | 73,049 | 73,556 |
|             | 75     | 66,171      | 66,679 | 67,187 | 67,695 | 68,203 | 68,711 | 69,219 | 69,726 | 70,234 | 70,741 | 71,248 | 71,755 | 72,262 | 72,769 | 73,276 |
|             | 76     | 65,887      | 66,396 | 66,904 | 67,412 | 67,921 | 68,429 | 68,937 | 69,444 | 69,952 | 70,460 | 70,967 | 71,474 | 71,982 | 72,489 | 72,996 |
|             | 77     | 65,602      | 66,111 | 66,620 | 67,129 | 67,637 | 68,146 | 68,654 | 69,162 | 69,670 | 70,178 | 70,685 | 71,193 | 71,701 | 72,208 | 72,715 |
|             | 78     | 65,317      | 65,826 | 66,335 | 66,844 | 67,353 | 67,862 | 68,370 | 68,879 | 69,387 | 69,895 | 70,403 | 70,911 | 71,419 | 71,926 | 72,434 |
|             | 79     | 65,031      | 65,541 | 66,050 | 66,559 | 67,068 | 67,577 | 68,086 | 68,595 | 69,103 | 69,612 | 70,120 | 70,628 | 71,136 | 71,644 | 72,152 |
|             | 80     | 64,744      | 65,254 | 65,764 | 66,274 | 66,783 | 67,292 | 67,801 | 68,310 | 68,819 | 69,328 | 69,837 | 70,345 | 70,853 | 71,362 | 71,870 |
| 81          | 64,457 | 64,967      | 65,476 | 65,987 | 66,497 | 67,006 | 67,516 | 68,025 | 68,534 | 69,043 | 69,552 | 70,061 | 70,570 | 71,078 | 71,587 |        |
| 82          | 64,169 | 64,679      | 65,190 | 65,700 | 66,210 | 66,720 | 67,230 | 67,739 | 68,249 | 68,758 | 69,267 | 69,776 | 70,285 | 70,794 | 71,303 |        |
| 83          | 63,880 | 64,391      | 64,901 | 65,412 | 65,922 | 66,433 | 66,943 | 67,453 | 67,963 | 68,472 | 68,982 | 69,491 | 70,000 | 70,509 | 71,018 |        |
| 84          | 63,590 | 64,101      | 64,612 | 65,123 | 65,634 | 66,145 | 66,655 | 67,165 | 67,676 | 68,186 | 68,695 | 69,205 | 69,715 | 70,224 | 70,733 |        |
| 85          | 63,299 | 63,811      | 64,323 | 64,834 | 65,345 | 65,856 | 66,367 | 66,877 | 67,388 | 67,898 | 68,408 | 68,918 | 69,428 | 69,938 | 70,448 |        |
| 86          | 63,008 | 63,520      | 64,032 | 64,544 | 65,055 | 65,567 | 66,078 | 66,589 | 67,100 | 67,610 | 68,121 | 68,631 | 69,141 | 69,651 | 70,161 |        |
| 87          | 62,716 | 63,228      | 63,741 | 64,253 | 64,765 | 65,276 | 65,788 | 66,299 | 66,810 | 67,321 | 67,832 | 68,343 | 68,853 | 69,364 | 69,874 |        |
| 88          | 62,423 | 62,936      | 63,448 | 63,961 | 64,473 | 64,985 | 65,497 | 66,009 | 66,521 | 67,032 | 67,543 | 68,054 | 68,565 | 69,076 | 69,586 |        |
| 89          | 62,129 | 62,642      | 63,155 | 63,668 | 64,181 | 64,693 | 65,206 | 65,718 | 66,230 | 66,742 | 67,253 | 67,765 | 68,276 | 68,787 | 69,298 |        |
| 90          | 61,834 | 62,348      | 62,861 | 63,375 | 63,888 | 64,401 | 64,914 | 65,426 | 65,938 | 66,451 | 66,963 | 67,474 | 67,986 | 68,497 | 69,008 |        |
| 91          | 61,538 | 62,052      | 62,567 | 63,080 | 63,594 | 64,107 | 64,621 | 65,133 | 65,646 | 66,159 | 66,671 | 67,183 | 67,695 | 68,207 | 68,719 |        |
| 92          | 61,242 | 61,756      | 62,270 | 62,785 | 63,299 | 63,813 | 64,327 | 64,840 | 65,353 | 65,866 | 66,379 | 66,891 | 67,404 | 67,916 | 68,428 |        |
| 93          | 60,944 | 61,459      | 61,974 | 62,489 | 63,004 | 63,518 | 64,032 | 64,546 | 65,059 | 65,573 | 66,086 | 66,599 | 67,112 | 67,624 | 68,136 |        |
| 94          | 60,646 | 61,161      | 61,677 | 62,192 | 62,707 | 63,222 | 63,736 | 64,251 | 64,765 | 65,278 | 65,792 | 66,305 | 66,819 | 67,331 | 67,844 |        |
| 95          | 60,346 | 60,863      | 61,379 | 61,894 | 62,410 | 62,925 | 63,440 | 63,955 | 64,469 | 64,983 | 65,497 | 66,011 | 66,525 | 67,038 | 67,551 |        |
| 96          | 60,046 | 60,563      | 61,079 | 61,596 | 62,112 | 62,627 | 63,143 | 63,658 | 64,173 | 64,688 | 65,202 | 65,716 | 66,230 | 66,744 | 67,257 |        |
| 97          | 59,745 | 60,262      | 60,778 | 61,296 | 61,812 | 62,329 | 62,845 | 63,360 | 63,876 | 64,391 | 64,906 | 65,420 | 65,935 | 66,449 | 66,963 |        |
| 98          | 59,442 | 59,960      | 60,477 | 60,995 | 61,512 | 62,029 | 62,545 | 63,062 | 63,577 | 64,093 | 64,608 | 65,124 | 65,638 | 66,153 | 66,667 |        |
| 99          | 59,139 | 59,657      | 60,176 | 60,693 | 61,211 | 61,728 | 62,245 | 62,762 | 63,278 | 63,795 | 64,310 | 64,826 | 65,341 | 65,856 | 66,371 |        |
| 100         | 58,834 | 59,354      | 59,872 | 60,391 | 60,909 | 61,427 | 61,944 | 62,462 | 62,979 | 63,495 | 64,011 | 64,528 | 65,043 | 65,559 | 66,074 |        |
| 101         | 58,529 | 59,049      | 59,568 | 60,087 | 60,606 | 61,124 | 61,642 | 62,160 | 62,678 | 63,195 | 63,712 | 64,228 | 64,745 | 65,261 | 66,776 |        |
| 102         | 58,222 | 58,743      | 59,263 | 59,782 | 60,302 | 60,821 | 61,339 | 61,858 | 62,376 | 62,893 | 63,411 | 63,928 | 64,445 | 64,961 | 65,478 |        |
| 103         | 57,915 | 58,436      | 58,956 | 59,477 | 59,997 | 60,516 | 61,035 | 61,554 | 62,073 | 62,591 | 63,109 | 63,627 | 64,144 | 64,661 | 65,178 |        |
| 104         | 57,606 | 58,127      | 58,649 | 59,170 | 59,690 | 60,211 | 60,730 | 61,250 | 61,769 | 62,288 | 62,806 | 63,325 | 63,842 | 64,360 | 64,877 |        |
| 105         | 57,296 | 57,818      | 58,340 | 58,862 | 59,383 | 59,904 | 60,424 | 60,945 | 61,464 | 61,984 | 62,503 | 63,022 | 63,540 | 64,058 | 64,576 |        |
| 106         | 56,984 | 57,508      | 58,030 | 58,553 | 59,075 | 59,596 | 60,117 | 60,638 | 61,159 | 61,678 | 62,198 | 62,717 | 63,236 | 63,755 | 64,273 |        |
| 107         | 56,672 | 57,196      | 57,720 | 58,243 | 58,765 | 59,287 | 59,809 | 60,331 | 60,852 | 61,372 | 61,892 | 62,412 | 62,932 | 63,451 | 63,970 |        |
| 108         | 56,358 | 56,883      | 57,407 | 57,931 | 58,455 | 58,977 | 59,500 | 60,022 | 60,544 | 61,064 | 61,586 | 62,106 | 62,626 | 63,146 | 63,666 |        |
| 109         | 56,043 | 56,569      | 57,094 | 57,619 | 58,143 | 58,666 | 59,189 | 59,712 | 60,235 | 60,757 | 61,278 | 61,799 | 62,320 | 62,840 | 63,360 |        |
| 110         | 55,727 | 56,254      | 56,779 | 57,305 | 57,830 | 58,354 | 58,878 | 59,401 | 59,924 | 60,447 | 60,969 | 61,491 | 62,012 | 62,533 | 63,054 |        |
| 111         | 55,410 | 55,937      | 56,464 | 56,990 | 57,515 | 58,040 | 58,565 | 59,089 | 59,613 | 60,136 | 60,659 | 61,182 | 61,704 | 62,225 | 62,747 |        |
| 112         | 55,091 | 55,619      | 56,146 | 56,673 | 57,200 | 57,726 | 58,251 | 58,776 | 59,301 | 59,825 | 60,348 | 60,871 | 61,394 | 61,916 | 62,438 |        |
| 113         | 54,770 | 55,299      | 55,828 | 56,356 | 56,883 | 57,410 | 57,936 | 58,462 | 58,987 | 59,512 | 60,036 | 60,560 | 61,083 | 61,606 | 62,129 |        |
| 114         | 54,449 | 54,979      | 55,508 | 56,037 | 56,565 | 57,092 | 57,619 | 58,146 | 58,672 | 59,198 | 59,723 | 60,247 | 60,771 | 61,295 | 61,818 |        |
| 115         | 54,125 | 54,656      | 55,187 | 55,716 | 56,245 | 56,774 | 57,302 | 57,829 | 58,356 | 58,882 | 59,408 | 59,933 | 60,458 | 60,983 | 61,507 |        |
| 116         | 53,801 | 54,332      | 54,864 | 55,394 | 55,924 | 56,454 | 56,983 | 57,511 | 58,039 | 58,566 | 59,092 | 59,618 | 60,144 | 60,669 | 61,194 |        |
| 117         | 53,474 | 54,007      | 54,540 | 55,071 | 55,602 | 56,132 | 56,662 | 57,191 | 57,720 | 58,248 | 58,775 | 59,302 | 59,828 | 60,354 | 60,880 |        |
| 118         | 53,146 | 53,680      | 54,214 | 54,746 | 55,278 | 55,810 | 56,340 | 56,870 | 57,400 | 57,929 | 58,457 | 58,985 | 59,512 | 60,038 | 60,565 |        |
| 119         | 52,817 | 53,352      | 53,887 | 54,420 | 54,953 | 55,485 | 56,017 | 56,548 | 57,078 | 57,608 | 58,137 | 58,666 | 59,194 | 59,721 | 60,248 |        |
| 120         | 52,486 | 53,022      | 53,559 | 54,092 | 54,626 | 55,160 | 55,692 | 56,224 | 56,756 | 57,286 | 57,816 | 58,346 | 58,875 | 59,403 | 59,931 |        |



# CENTER DISTANCE

## TABLE IN TEETH

|             |        | $Z_2 - Z_1$ |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |        | 187         | 188    | 189    | 190    | 191    | 192    | 193    | 194    | 195    | 196    | 197    | 198    | 199    | 200    | 201    |
| $Z_2 - Z_1$ | 61     | 77,643      | 78,147 | 78,650 | 79,154 | 79,658 | 80,162 | 80,666 | 81,169 | 81,673 | 82,176 | 82,680 | 83,183 | 83,687 | 84,190 | 84,693 |
|             | 62     | 77,370      | 77,874 | 78,378 | 78,882 | 79,386 | 79,890 | 80,394 | 80,898 | 81,402 | 81,905 | 82,409 | 82,913 | 83,416 | 83,920 | 84,423 |
|             | 63     | 77,098      | 77,602 | 78,106 | 78,610 | 79,114 | 79,618 | 80,122 | 80,626 | 81,130 | 81,634 | 82,138 | 82,641 | 83,145 | 83,649 | 84,152 |
|             | 64     | 76,824      | 77,329 | 77,833 | 78,337 | 78,842 | 79,346 | 79,850 | 80,354 | 80,858 | 81,362 | 81,866 | 82,370 | 82,874 | 83,377 | 83,881 |
|             | 65     | 76,550      | 77,055 | 77,560 | 78,064 | 78,568 | 79,073 | 79,577 | 80,081 | 80,585 | 81,090 | 81,594 | 82,098 | 82,602 | 83,106 | 83,610 |
|             | 66     | 76,276      | 76,781 | 77,285 | 77,790 | 78,295 | 78,799 | 79,304 | 79,808 | 80,313 | 80,817 | 81,321 | 81,825 | 82,329 | 82,834 | 83,338 |
|             | 67     | 76,001      | 76,506 | 77,011 | 77,516 | 78,021 | 78,525 | 79,030 | 79,535 | 80,039 | 80,544 | 81,048 | 81,552 | 82,057 | 82,561 | 83,065 |
|             | 68     | 75,726      | 76,231 | 76,736 | 77,241 | 77,746 | 78,251 | 78,756 | 79,260 | 79,765 | 80,270 | 80,774 | 81,279 | 81,783 | 82,288 | 82,792 |
|             | 69     | 75,450      | 75,955 | 76,460 | 76,966 | 77,471 | 77,976 | 78,481 | 78,986 | 79,491 | 79,995 | 80,500 | 81,005 | 81,510 | 82,014 | 82,519 |
|             | 70     | 75,173      | 75,679 | 76,184 | 76,690 | 77,195 | 77,700 | 78,206 | 78,711 | 79,216 | 79,721 | 80,226 | 80,731 | 81,235 | 81,740 | 82,245 |
|             | 71     | 74,896      | 75,402 | 75,908 | 76,413 | 76,919 | 77,424 | 77,930 | 78,435 | 78,940 | 79,445 | 79,951 | 80,456 | 80,961 | 81,465 | 81,970 |
|             | 72     | 74,619      | 75,125 | 75,631 | 76,136 | 76,642 | 77,148 | 77,653 | 78,159 | 78,664 | 79,170 | 79,675 | 80,180 | 80,685 | 81,190 | 81,695 |
|             | 73     | 74,341      | 74,847 | 75,353 | 75,859 | 76,365 | 76,871 | 77,377 | 77,882 | 78,388 | 78,893 | 79,399 | 79,904 | 80,410 | 80,915 | 81,420 |
|             | 74     | 74,062      | 74,568 | 75,075 | 75,581 | 76,087 | 76,593 | 77,099 | 77,605 | 78,111 | 78,617 | 79,122 | 79,628 | 80,133 | 80,639 | 81,144 |
|             | 75     | 73,783      | 74,289 | 74,796 | 75,302 | 75,809 | 76,315 | 76,821 | 77,327 | 77,833 | 78,339 | 78,845 | 79,351 | 79,857 | 80,362 | 80,868 |
|             | 76     | 73,503      | 74,010 | 74,517 | 75,023 | 75,530 | 76,036 | 76,543 | 77,049 | 77,555 | 78,061 | 78,568 | 79,074 | 79,579 | 80,085 | 80,591 |
|             | 77     | 73,222      | 73,730 | 74,237 | 74,744 | 75,250 | 75,757 | 76,264 | 76,770 | 77,277 | 77,783 | 78,289 | 78,796 | 79,302 | 79,808 | 80,314 |
|             | 78     | 72,942      | 73,449 | 73,956 | 74,463 | 74,970 | 75,477 | 75,984 | 76,491 | 76,998 | 77,504 | 78,011 | 78,517 | 79,023 | 79,530 | 80,036 |
|             | 79     | 72,660      | 73,167 | 73,675 | 74,182 | 74,690 | 75,197 | 75,704 | 76,211 | 76,718 | 77,225 | 77,731 | 78,238 | 78,745 | 79,251 | 79,757 |
|             | 80     | 72,378      | 72,885 | 73,393 | 73,901 | 74,408 | 74,916 | 75,423 | 75,930 | 76,438 | 76,945 | 77,452 | 77,959 | 78,465 | 78,972 | 79,478 |
| 81          | 72,095 | 72,603      | 73,111 | 73,619 | 74,127 | 74,634 | 75,142 | 75,649 | 76,157 | 76,664 | 77,171 | 77,678 | 78,185 | 78,692 | 79,199 |        |
| 82          | 71,811 | 72,320      | 72,828 | 73,336 | 73,844 | 74,352 | 74,860 | 75,368 | 75,875 | 76,383 | 76,890 | 77,398 | 77,905 | 78,412 | 78,919 |        |
| 83          | 71,527 | 72,036      | 72,544 | 73,053 | 73,561 | 74,069 | 74,577 | 75,085 | 75,593 | 76,101 | 76,609 | 77,116 | 77,624 | 78,131 | 78,638 |        |
| 84          | 71,242 | 71,751      | 72,260 | 72,769 | 73,277 | 73,786 | 74,294 | 74,803 | 75,311 | 75,819 | 76,327 | 76,834 | 77,342 | 77,850 | 78,357 |        |
| 85          | 70,957 | 71,466      | 71,975 | 72,484 | 72,993 | 73,502 | 74,011 | 74,519 | 75,027 | 75,536 | 76,044 | 76,552 | 77,060 | 77,568 | 78,075 |        |
| 86          | 70,671 | 71,180      | 71,690 | 72,199 | 72,708 | 73,217 | 73,726 | 74,235 | 74,744 | 75,252 | 75,761 | 76,269 | 76,777 | 77,285 | 77,793 |        |
| 87          | 70,384 | 70,894      | 71,404 | 71,913 | 72,423 | 72,932 | 73,441 | 73,950 | 74,459 | 74,968 | 75,477 | 75,985 | 76,494 | 77,002 | 77,510 |        |
| 88          | 70,097 | 70,607      | 71,117 | 71,627 | 72,137 | 72,646 | 73,156 | 73,665 | 74,174 | 74,683 | 75,192 | 75,701 | 76,210 | 76,718 | 77,227 |        |
| 89          | 69,808 | 70,319      | 70,829 | 71,340 | 71,850 | 72,360 | 72,869 | 73,379 | 73,889 | 74,398 | 74,907 | 75,416 | 75,925 | 76,434 | 76,943 |        |
| 90          | 69,519 | 70,030      | 70,541 | 71,052 | 71,562 | 72,072 | 72,582 | 73,092 | 73,602 | 74,112 | 74,621 | 75,131 | 75,640 | 76,149 | 76,658 |        |
| 91          | 69,230 | 69,741      | 70,252 | 70,763 | 71,274 | 71,784 | 72,295 | 72,805 | 73,315 | 73,825 | 74,335 | 74,845 | 75,354 | 75,864 | 76,373 |        |
| 92          | 68,940 | 69,451      | 69,963 | 70,474 | 70,985 | 71,496 | 72,007 | 72,517 | 73,028 | 73,538 | 74,048 | 74,558 | 75,068 | 75,578 | 76,087 |        |
| 93          | 68,648 | 69,160      | 69,672 | 70,184 | 70,695 | 71,206 | 71,718 | 72,228 | 72,739 | 73,250 | 73,760 | 74,271 | 74,781 | 75,291 | 75,801 |        |
| 94          | 68,357 | 68,869      | 69,381 | 69,893 | 70,405 | 70,916 | 71,428 | 71,939 | 72,450 | 72,961 | 73,472 | 73,983 | 74,493 | 75,003 | 75,514 |        |
| 95          | 68,064 | 68,577      | 69,089 | 69,602 | 70,114 | 70,626 | 71,138 | 71,649 | 72,161 | 72,672 | 73,183 | 73,694 | 74,205 | 74,715 | 75,226 |        |
| 96          | 67,771 | 68,284      | 68,797 | 69,309 | 69,822 | 70,334 | 70,846 | 71,358 | 71,870 | 72,382 | 72,893 | 73,404 | 73,916 | 74,427 | 74,937 |        |
| 97          | 67,477 | 67,990      | 68,503 | 69,017 | 69,529 | 70,042 | 70,555 | 71,067 | 71,579 | 72,091 | 72,603 | 73,114 | 73,626 | 74,137 | 74,648 |        |
| 98          | 67,182 | 67,696      | 68,209 | 68,723 | 69,236 | 69,749 | 70,262 | 70,775 | 71,287 | 71,800 | 72,312 | 72,824 | 73,335 | 73,847 | 74,359 |        |
| 99          | 66,886 | 67,400      | 67,914 | 68,428 | 68,942 | 69,455 | 69,969 | 70,482 | 70,995 | 71,507 | 72,020 | 72,532 | 73,044 | 73,556 | 74,068 |        |
| 100         | 66,589 | 67,104      | 67,619 | 68,133 | 68,647 | 69,161 | 69,675 | 70,188 | 70,701 | 71,214 | 71,727 | 72,240 | 72,753 | 73,265 | 73,777 |        |
| 101         | 66,292 | 66,807      | 67,322 | 67,837 | 68,351 | 68,866 | 69,380 | 69,894 | 70,407 | 70,921 | 71,434 | 71,947 | 72,460 | 72,973 | 73,485 |        |
| 102         | 65,993 | 66,509      | 67,025 | 67,540 | 68,055 | 68,570 | 69,084 | 69,598 | 70,113 | 70,626 | 71,140 | 71,653 | 72,167 | 72,680 | 73,193 |        |
| 103         | 65,694 | 66,211      | 66,726 | 67,242 | 67,758 | 68,273 | 68,788 | 69,302 | 69,817 | 70,331 | 70,845 | 71,359 | 71,873 | 72,386 | 72,899 |        |
| 104         | 65,394 | 65,911      | 66,427 | 66,944 | 67,459 | 67,975 | 68,490 | 69,006 | 69,521 | 70,035 | 70,550 | 71,064 | 71,578 | 72,092 | 72,605 |        |
| 105         | 65,093 | 65,610      | 66,127 | 66,644 | 67,160 | 67,677 | 68,192 | 68,708 | 69,223 | 69,738 | 70,253 | 70,768 | 71,282 | 71,797 | 72,311 |        |
| 106         | 64,791 | 65,309      | 65,827 | 66,344 | 66,861 | 67,377 | 67,893 | 68,410 | 68,925 | 69,441 | 69,956 | 70,471 | 70,986 | 71,501 | 72,015 |        |
| 107         | 64,489 | 65,007      | 65,525 | 66,042 | 66,560 | 67,077 | 67,594 | 68,110 | 68,626 | 69,142 | 69,658 | 70,174 | 70,689 | 71,204 | 71,719 |        |
| 108         | 64,185 | 64,704      | 65,222 | 65,740 | 66,258 | 66,776 | 67,293 | 67,810 | 68,327 | 68,843 | 69,359 | 69,875 | 70,391 | 70,907 | 71,422 |        |
| 109         | 63,880 | 64,399      | 64,918 | 65,437 | 65,956 | 66,474 | 66,991 | 67,509 | 68,026 | 68,543 | 69,060 | 69,576 | 70,092 | 70,608 | 71,124 |        |
| 110         | 63,574 | 64,094      | 64,614 | 65,133 | 65,652 | 66,171 | 66,689 | 67,207 | 67,725 | 68,242 | 68,759 | 69,276 | 69,793 | 70,309 | 70,825 |        |
| 111         | 63,268 | 63,788      | 64,308 | 64,828 | 65,348 | 65,867 | 66,386 | 66,904 | 67,422 | 67,940 | 68,458 | 68,975 | 69,493 | 70,009 | 70,526 |        |
| 112         | 62,960 | 63,481      | 64,002 | 64,522 | 65,042 | 65,562 | 66,081 | 66,600 | 67,119 | 67,638 | 68,156 | 68,674 | 69,191 | 69,709 | 70,226 |        |
| 113         | 62,651 | 63,173      | 63,694 | 64,215 | 64,736 | 65,256 | 65,776 | 66,296 | 66,815 | 67,334 | 67,853 | 68,371 | 68,889 | 69,407 | 69,925 |        |
| 114         | 62,341 | 62,863      | 63,385 | 63,907 | 64,428 | 64,949 | 65,470 | 65,990 | 66,510 | 67,030 | 67,549 | 68,068 | 68,586 | 69,105 | 69,623 |        |
| 115         | 62,030 | 62,553      | 63,076 | 63,598 | 64,120 | 64,642 | 65,163 | 65,683 | 66,204 | 66,724 | 67,244 | 67,763 | 68,282 | 68,801 | 69,320 |        |
| 116         | 61,718 | 62,242      | 62,765 | 63,288 | 63,811 | 64,333 | 64,854 | 65,376 | 65,897 | 66,418 | 66,938 | 67,458 | 67,978 | 68,497 | 69,016 |        |
| 117         | 61,405 | 61,929      | 62,453 | 62,977 | 63,500 | 64,023 | 64,545 | 65,067 | 65,589 | 66,110 | 66,631 | 67,152 | 67,672 | 68,192 | 68,711 |        |
| 118         | 61,090 | 61,616      | 62,140 | 62,665 | 63,188 | 63,714 | 64,235 | 64,758 | 65,280 | 65,802 | 66,323 | 66,844 | 67,365 | 67,886 | 68,406 |        |
| 119         | 60,775 | 61,301      | 61,826 | 62,351 | 62,876 | 63,400 | 63,924 | 64,447 | 64,970 | 65,492 | 66,014 | 66,536 | 67,058 | 67,579 | 68,099 |        |
| 120         | 60,458 | 60,985      | 61,511 | 62,037 | 62,562 | 63,087 | 63,611 | 64,135 | 64,659 | 65,182 | 65,705 | 66,227 | 66,749 | 67,271 | 67,792 |        |



MEGADYNE MEGASYNC™

IMPERIAL  
IMPERIAL DD

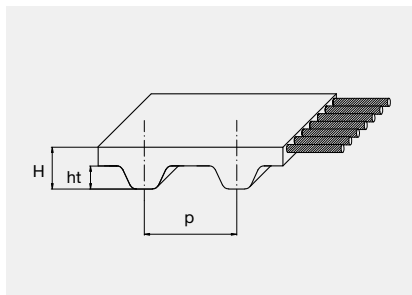


# MEGADYNE MEGASYNC™

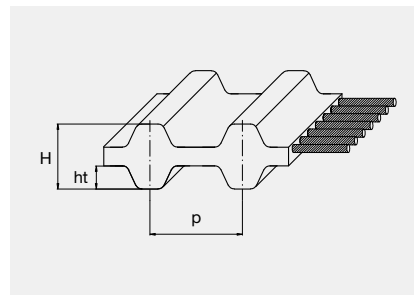
## IMPERIAL AND IMPERIAL DD

Megadyne MEGASYNC™ Imperial and Imperial DD belts are a class of belt very widely used in several kinds of applications. These belts are made with polychloroprene compound. Special compounds with different features are available on request. Here are some belt's characteristics.

### IMPERIAL



### IMPERIAL DD



| PITCH             |    | MXL   | XL    | L     | H      | XH     | XXH    | XLDD  | LDD   | HDD    |
|-------------------|----|-------|-------|-------|--------|--------|--------|-------|-------|--------|
| Pitch length (mm) | p  | 2,032 | 5,080 | 9,525 | 12,700 | 22,225 | 31,750 | 5,080 | 9,525 | 12,700 |
| Teeth height (mm) | ht | 0,51  | 1,27  | 1,91  | 2,29   | 6,35   | 9,53   | 1,27  | 1,91  | 2,29   |
| Belt height (mm)  | H  | 1,14  | 2,40  | 3,60  | 4,40   | 11,40  | 15,30  | 3,05  | 4,60  | 5,90   |

#### RESISTANCE TO: STD BELT RESISTANCE

|                      |               |
|----------------------|---------------|
| Water                | <b>Medium</b> |
| Acids / Alkalis      | <b>None</b>   |
| Solvents             | <b>None</b>   |
| Mineral oils         | <b>Low</b>    |
| Oils                 | <b>Low</b>    |
| Greases              | <b>Medium</b> |
| Fuels                | <b>None</b>   |
| Environmental agents | <b>Medium</b> |

#### OTHER FEATURES

|                   |                         |
|-------------------|-------------------------|
|                   | <b>Min: -25 °C</b>      |
| Temperature range | <b>Max: 80 °C</b>       |
|                   | <b>Max peak: 100 °C</b> |
| Hardness          | <b>74 +/- 4 ShA</b>     |



# MEGADYNE MEGASYNC™

## IMPERIAL AND IMPERIAL DD

### STANDARD TOLERANCES

| WIDTH TOLERANCES    |       |                 |        |                         |                            |               |
|---------------------|-------|-----------------|--------|-------------------------|----------------------------|---------------|
| BELT WIDTH (inches) |       | BELT WIDTH (mm) |        | TOLERANCE ON BELT WIDTH |                            |               |
| MORE THAN           | UP TO | MORE THAN       | UP TO  | BELT LENGTH (inches)    |                            |               |
|                     |       |                 |        | UP TO 33"               | MORE THAN 33"<br>UP TO 66" | MORE THAN 66" |
| -                   | 044   | -               | 11,10  | +0,4 / -0,8             | +0,4 / -0,8                | -             |
| 044                 | 150   | 11,10           | 38,10  | ±0,8                    | +0,8 / -1,2                | +0,8 / -1,2   |
| 150                 | 200   | 38,10           | 50,80  | +0,8 / -1,2             | ±1,2                       | +1,2 / -1,6   |
| 200                 | 300   | 50,80           | 76,20  | +1,2 / -1,6             | ±1,6                       | +1,6 / -2,0   |
| 300                 | 400   | 76,20           | 101,60 | -                       | +1,3 / -1,5                | +1,3 / -1,5   |
| 400                 | 500   | 101,60          | 127,00 | -                       | +1,3 / -1,5                | +1,3 / -1,5   |

| LENGTH TOLERANCES |       |                |                  |       |                |
|-------------------|-------|----------------|------------------|-------|----------------|
| BELT LENGTH (mm)  |       | TOLERANCE (mm) | BELT LENGTH (mm) |       | TOLERANCE (mm) |
| MORE THAN         | UP TO |                | MORE THAN        | UP TO |                |
| -                 | 254   | ±0,40          | 2.286            | 2.540 | ±1,00          |
| 254               | 381   | ±0,45          | 2.540            | 2.794 | ±1,05          |
| 381               | 508   | ±0,50          | 2.794            | 3.048 | ±1,10          |
| 508               | 762   | ±0,60          | 3.048            | 3.302 | ±1,15          |
| 762               | 991   | ±0,65          | 3.302            | 3.556 | ±1,20          |
| 991               | 1.220 | ±0,75          | 3.556            | 3.810 | ±1,25          |
| 1.220             | 1.524 | ±0,80          | 3.810            | 4.064 | ±1,30          |
| 1.524             | 1.778 | ±0,85          | 4.064            | 4.318 | ±1,35          |
| 1.778             | 2.032 | ±0,90          | 4.318            | 4.572 | ±1,40          |
| 2.032             | 2.286 | ±0,95          | -                | -     | -              |

| THICKNESS TOLERANCES |                             |                       |         |         |
|----------------------|-----------------------------|-----------------------|---------|---------|
| PITCH                | NOMINAL BELT THICKNESS (mm) | TOLERANCE DEGREE (mm) |         |         |
|                      |                             | STANDARD BELT         | GRADE 2 | GRADE 1 |
| MXL                  | 1,14                        | ±0,25                 | ±0,15   | ±0,15   |
| XL                   | 2,40                        | ±0,25                 | ±0,15   | ±0,15   |
| L                    | 3,60                        | ±0,25                 | ±0,25   | ±0,15   |
| H                    | 4,40                        | ±0,60                 | ±0,25   | ±0,15   |
| XH                   | 11,40                       | ±0,60                 | ±0,25   | -       |
| XXH                  | 15,30                       | ±0,60                 | ±0,25   | -       |

For specific application, where you might require different tolerances, please contact our Application Department.

| STANDARD WIDTHS |        |             |      |      |      |      |       |       |       |       |       |       |        |        |
|-----------------|--------|-------------|------|------|------|------|-------|-------|-------|-------|-------|-------|--------|--------|
| PITCH           | (inch) | BELT WIDTHS |      |      |      |      |       |       |       |       |       |       |        |        |
|                 |        | 012         | 019  | 025  | 031  | 037  | 050   | 075   | 100   | 150   | 200   | 300   | 400    | 500    |
|                 | (mm)   | 3,05        | 4,83 | 6,35 | 7,87 | 9,40 | 12,70 | 19,05 | 25,40 | 38,10 | 50,80 | 76,20 | 101,60 | 127,00 |
| MXL             |        | •           | •    | •    |      |      |       |       |       |       |       |       |        |        |
| XL - XL DD      |        |             |      | •    | •    | •    |       |       |       |       |       |       |        |        |
| L - L DD        |        |             |      |      |      |      | •     | •     | •     |       |       |       |        |        |
| H - H DD        |        |             |      |      |      |      |       | •     | •     | •     | •     | •     |        |        |
| XH              |        |             |      |      |      |      |       |       |       |       | •     | •     | •      |        |
| XXH             |        |             |      |      |      |      |       |       |       |       | •     | •     | •      | •      |

# IMPERIAL AND IMPERIAL DD - RANGE

| MXL      |                   |
|----------|-------------------|
| CODE     | PITCH LENGTH (mm) |
| 360 MXL  | 91,44             |
| 432 MXL  | 109,73            |
| 440 MXL  | 111,76            |
| 456 MXL  | 115,82            |
| 480 MXL  | 121,92            |
| 488 MXL  | 123,95            |
| 496 MXL  | 125,98            |
| 536 MXL  | 136,14            |
| 544 MXL  | 138,18            |
| 576 MXL  | 146,30            |
| 584 MXL  | 148,34            |
| 608 MXL  | 154,43            |
| 632 MXL  | 160,53            |
| 640 MXL  | 162,56            |
| 656 MXL  | 166,62            |
| 664 MXL  | 168,66            |
| 680 MXL  | 172,72            |
| 704 MXL  | 178,82            |
| 720 MXL  | 182,88            |
| 736 MXL  | 186,94            |
| 752 MXL  | 191,00            |
| 760 MXL  | 193,04            |
| 768 MXL  | 195,00            |
| 776 MXL  | 197,10            |
| 800 MXL  | 203,20            |
| 808 MXL  | 205,23            |
| 824 MXL  | 209,30            |
| 840 MXL  | 213,36            |
| 880 MXL  | 223,52            |
| 888 MXL  | 225,55            |
| 912 MXL  | 231,65            |
| 920 MXL  | 233,68            |
| 944 MXL  | 239,78            |
| 952 MXL  | 241,81            |
| 960 MXL  | 243,84            |
| 976 MXL  | 247,90            |
| 984 MXL  | 249,94            |
| 1000 MXL | 254,00            |
| 1008 MXL | 256,03            |
| 1016 MXL | 258,06            |
| 1040 MXL | 264,16            |
| 1056 MXL | 268,22            |
| 1072 MXL | 272,29            |
| 1120 MXL | 284,48            |
| 1160 MXL | 294,64            |
| 1176 MXL | 298,70            |
| 1184 MXL | 300,74            |
| 1200 MXL | 304,80            |
| 1224 MXL | 310,90            |
| 1240 MXL | 314,96            |
| 1280 MXL | 325,12            |
| 1296 MXL | 329,10            |
| 1400 MXL | 355,60            |
| 1440 MXL | 365,70            |
| 1472 MXL | 373,89            |
| 1496 MXL | 379,98            |
| 1520 MXL | 386,08            |
| 1600 MXL | 406,40            |
| 1680 MXL | 426,72            |
| 1696 MXL | 430,78            |
| 1768 MXL | 449,07            |
| 1800 MXL | 457,20            |
| 1832 MXL | 465,33            |
| 1856 MXL | 471,42            |
| 1888 MXL | 479,55            |
| 1984 MXL | 503,94            |
| 1992 MXL | 505,97            |
| 2048 MXL | 520,19            |
| 2240 MXL | 568,96            |
| 2248 MXL | 570,90            |
| 2360 MXL | 599,44            |
| 2384 MXL | 605,54            |
| 2480 MXL | 629,92            |
| 2496 MXL | 633,98            |
| 2520 MXL | 640,08            |
| 2584 MXL | 656,34            |
| 2624 MXL | 666,40            |
| 2776 MXL | 705,10            |
| 2864 MXL | 727,46            |
| 2880 MXL | 731,52            |
| 2976 MXL | 755,90            |
| 3024 MXL | 778,25            |
| 3064 MXL | 778,26            |
| 3104 MXL | 788,42            |
| 3200 MXL | 812,80            |
| 3296 MXL | 837,18            |

| MXL      |                   |
|----------|-------------------|
| CODE     | PITCH LENGTH (mm) |
| 3424 MXL | 869,70            |
| 3472 MXL | 881,89            |
| 3480 MXL | 883,92            |
| 3520 MXL | 894,08            |
| 3632 MXL | 922,53            |
| 3704 MXL | 940,82            |
| 3944 MXL | 1001,78           |
| 4000 MXL | 1016,00           |
| 4064 MXL | 1032,26           |
| 4200 MXL | 1066,80           |
| 4280 MXL | 1087,12           |
| 4320 MXL | 1097,28           |
| 4456 MXL | 1131,82           |
| 4736 MXL | 1202,94           |
| 4800 MXL | 1219,20           |
| 5224 MXL | 1326,90           |

| STANDARD WIDTHS |      |
|-----------------|------|
|                 |      |
| 12              | 3,05 |
| 19              | 4,83 |
| 25              | 6,35 |

| XL     |                   |
|--------|-------------------|
| CODE   | PITCH LENGTH (mm) |
| 54 XL  | 137,16            |
| 60 XL  | 152,40            |
| 70 XL  | 177,80            |
| 72 XL  | 182,88            |
| 80 XL  | 203,20            |
| 90 XL  | 228,60            |
| 98 XL  | 248,92            |
| 100 XL | 254,00            |
| 102 XL | 259,08            |
| 104 XL | 264,16            |
| 106 XL | 269,24            |
| 110 XL | 279,40            |
| 120 XL | 304,80            |
| 128 XL | 352,12            |
| 130 XL | 330,20            |
| 140 XL | 355,60            |
| 142 XL | 360,68            |
| 146 XL | 370,84            |
| 150 XL | 381,00            |
| 152 XL | 386,08            |
| 156 XL | 396,24            |
| 160 XL | 406,40            |
| 162 XL | 411,48            |
| 164 XL | 416,56            |
| 170 XL | 431,80            |
| 176 XL | 447,04            |
| 180 XL | 457,20            |
| 182 XL | 462,28            |
| 188 XL | 477,52            |
| 190 XL | 482,60            |
| 194 XL | 492,76            |
| 198 XL | 502,92            |
| 200 XL | 508,00            |
| 202 XL | 513,08            |
| 210 XL | 533,40            |
| 212 XL | 538,48            |
| 214 XL | 543,56            |
| 220 XL | 558,80            |
| 228 XL | 579,12            |
| 230 XL | 584,20            |
| 234 XL | 594,36            |
| 240 XL | 609,60            |
| 250 XL | 635,00            |
| 254 XL | 645,16            |
| 260 XL | 660,40            |
| 270 XL | 685,80            |
| 276 XL | 701,04            |
| 280 XL | 711,20            |
| 290 XL | 736,60            |
| 300 XL | 762,00            |
| 310 XL | 787,40            |
| 316 XL | 802,64            |
| 320 XL | 812,80            |
| 330 XL | 838,20            |
| 340 XL | 863,60            |
| 344 XL | 873,76            |
| 350 XL | 889,00            |

| XL       |                   |
|----------|-------------------|
| CODE     | PITCH LENGTH (mm) |
| 352 XL   | 894,08            |
| 360 XL   | 914,40            |
| 364 XL   | 924,56            |
| 380 XL   | 965,20            |
| 384 XL   | 975,36            |
| 388 XL   | 985,52            |
| 390 XL   | 990,60            |
| 392 XL   | 995,68            |
| 412 XL   | 1046,48           |
| 434 XL   | 1102,36           |
| 460 XL   | 1168,40           |
| 4320 MXL | 1234,44           |
| 490 XL   | 1244,60           |
| 530 XL   | 1346,20           |
| 592 XL   | 1503,68           |
| 600 XL   | 1524,00           |
| 710 XL   | 1803,40           |
| 950 XL   | 2413,00           |
| 1014 XL  | 2575,56           |
| 1180 XL  | 2997,20           |
| 1280 XL  | 3251,20           |

| STANDARD WIDTHS |      |
|-----------------|------|
|                 |      |
| 25              | 6,35 |
| 31              | 7,87 |
| 37              | 9,40 |

| L      |                   |
|--------|-------------------|
| CODE   | PITCH LENGTH (mm) |
| 124 L  | 314,32            |
| 135 L  | 342,90            |
| 150 L  | 381,00            |
| 165 L  | 419,10            |
| 173 L  | 438,15            |
| 187 L  | 476,25            |
| 202 L  | 514,35            |
| 210 L  | 533,40            |
| 220 L  | 561,90            |
| 225 L  | 571,50            |
| 240 L  | 609,60            |
| 255 L  | 647,70            |
| 270 L  | 685,80            |
| 285 L  | 723,90            |
| 300 L  | 762,00            |
| 320 L  | 809,60            |
| 322 L  | 819,15            |
| 334 L  | 848,36            |
| 345 L  | 876,30            |
| 367 L  | 933,45            |
| 390 L  | 990,60            |
| 405 L  | 1028,70           |
| 412 L  | 1047,75           |
| 420 L  | 1066,80           |
| 424 L  | 1076,30           |
| 427 L  | 1085,80           |
| 450 L  | 1143,00           |
| 480 L  | 1219,20           |
| 510 L  | 1295,40           |
| 540 L  | 1371,60           |
| 581 L  | 1476,30           |
| 600 L  | 1524,00           |
| 630 L  | 1600,20           |
| 660 L  | 1676,40           |
| 728 L  | 1847,85           |
| 817 L  | 2076,45           |
| 1103 L | 2800,35           |

| STANDARD WIDTHS |       |
|-----------------|-------|
|                 |       |
| 50              | 12,70 |
| 75              | 19,05 |
| 100             | 25,40 |

| H      |                   |
|--------|-------------------|
| CODE   | PITCH LENGTH (mm) |
| 240 H  | 609,60            |
| 255 H  | 647,70            |
| 270 H  | 685,80            |
| 300 H  | 762,00            |
| 330 H  | 838,20            |
| 350 H  | 889,00            |
| 360 H  | 914,40            |
| 375 H  | 952,50            |
| 390 H  | 990,60            |
| 410 H  | 1041,40           |
| 420 H  | 1066,80           |
| 450 H  | 1143,00           |
| 480 H  | 1219,20           |
| 490 H  | 1244,60           |
| 510 H  | 1295,40           |
| 540 H  | 1371,60           |
| 560 H  | 1422,40           |
| 570 H  | 1447,80           |
| 580 H  | 1473,20           |
| 600 H  | 1524,00           |
| 630 H  | 1600,20           |
| 660 H  | 1676,40           |
| 670 H  | 1701,80           |
| 700 H  | 1778,00           |
| 725 H  | 1841,50           |
| 750 H  | 1905,00           |
| 800 H  | 2032,00           |
| 850 H  | 2159,00           |
| 900 H  | 2286,00           |
| 950 H  | 2413,00           |
| 985 H  | 2501,90           |
| 1000 H | 2540,00           |
| 1020 H | 2590,80           |
| 1050 H | 2667,00           |
| 1100 H | 2794,00           |
| 1120 H | 2844,80           |
| 1140 H | 2895,60           |
| 1150 H | 2921,00           |
| 1250 H | 3175,00           |
| 1400 H | 3556,00           |
| 1645 H | 4178,30           |
| 1700 H | 4318,00           |

| STANDARD WIDTHS |       |
|-----------------|-------|
|                 |       |
| 75              | 19,05 |
| 100             | 25,40 |
| 150             | 38,10 |
| 200             | 50,80 |
| 300             | 76,20 |

| XH      |                   |
|---------|-------------------|
| CODE    | PITCH LENGTH (mm) |
| 507 XH  | 1289,00           |
| 534 XH  | 1355,72           |
| 560 XH  | 1422,40           |
| 630 XH  | 1600,20           |
| 700 XH  | 1778,00           |
| 770 XH  | 1955,80           |
| 840 XH  | 2133,60           |
| 980 XH  | 2489,20           |
| 1120 XH | 2844,80           |
| 1260 XH | 3200,40           |
| 1400 XH | 3556,00           |
| 1540 XH | 3911,60           |
| 1750 XH | 4445,00           |

| STANDARD WIDTHS |        |
|-----------------|--------|
|                 |        |
| 200             | 50,80  |
| 300             | 76,20  |
| 400             | 101,60 |

| XXH      |                   |
|----------|-------------------|
| CODE     | PITCH LENGTH (mm) |
| 700 XXH  | 1778,00           |
| 800 XXH  | 2032,00           |
| 900 XXH  | 2286,00           |
| 1000 XXH | 2540,00           |
| 1200 XXH | 3048,00           |
| 1400 XXH | 3556,00           |
| 1600 XXH | 4064,00           |
| 1800 XXH | 4572,00           |

| STANDARD WIDTHS |        |
|-----------------|--------|
|                 |        |
| 200             | 50,80  |
| 300             | 76,20  |
| 400             | 101,60 |
| 500             | 127,00 |

| XL DD      |                   |
|------------|-------------------|
| CODE       | PITCH LENGTH (mm) |
| 120 XL DD  | 304,80            |
| 130 XL DD  | 330,20            |
| 140 XL DD  | 355,60            |
| 146 XL DD  | 370,84            |
| 150 XL DD  | 381,00            |
| 156 XL DD  | 396,24            |
| 160 XL DD  | 406,40            |
| 170 XL DD  | 431,80            |
| 176 XL DD  | 447,04            |
| 180 XL DD  | 457,20            |
| 182 XL DD  | 462,28            |
| 188 XL DD  | 477,52            |
| 190 XL DD  | 482,60            |
| 198 XL DD  | 502,92            |
| 200 XL DD  | 508,00            |
| 202 XL DD  | 513,08            |
| 210 XL DD  | 533,40            |
| 212 XL DD  | 538,48            |
| 214 XL DD  | 543,56            |
| 220 XL DD  | 558,80            |
| 228 XL DD  | 579,12            |
| 230 XL DD  | 584,20            |
| 234 XL DD  | 594,36            |
| 240 XL DD  | 609,60            |
| 250 XL DD  | 635,00            |
| 260 XL DD  | 660,40            |
| 270 XL DD  | 685,80            |
| 276 XL DD  | 701,04            |
| 280 XL DD  | 711,20            |
| 290 XL DD  | 736,60            |
| 310 XL DD  | 787,40            |
| 316 XL DD  | 802,64            |
| 320 XL DD  | 812,80            |
| 330 XL DD  | 838,20            |
| 344 XL DD  | 873,76            |
| 352 XL DD  | 894,08            |
| 364 XL DD  | 924,56            |
| 380 XL DD  | 965,20            |
| 384 XL DD  | 975,36            |
| 388 XL DD  | 985,52            |
| 390 XL DD  | 990,60            |
| 392 XL DD  | 995,68            |
| 434 XL DD  | 1102,36           |
| 460 XL DD  | 1168,40           |
| 486 XL DD  | 1234,44           |
| 530 XL DD  | 1346,20           |
| 600 XL DD  | 1524,00           |
| 710 XL DD  | 1803,40           |
| 950 XL DD  | 2413,00           |
| 1014 XL DD | 2575,56           |

| STANDARD WIDTHS |      |
|-----------------|------|
|                 |      |
| 25              | 6,35 |
| 31              | 7,87 |
| 37              | 9,40 |

| L DD      |                   |
|-----------|-------------------|
| CODE      | PITCH LENGTH (mm) |
| 124 L DD  | 314,32            |
| 135 L DD  | 342,90            |
| 150 L DD  | 381,00            |
| 173 L DD  | 438,15            |
| 187 L DD  | 476,25            |
| 202 L DD  | 514,35            |
| 210 L DD  | 533,40            |
| 225 L DD  | 571,50            |
| 240 L DD  | 609,60            |
| 255 L DD  | 647,70            |
| 270 L DD  | 685,80            |
| 285 L DD  | 723,90            |
| 300 L DD  | 762,00            |
| 322 L DD  | 819,15            |
| 334 L DD  | 848,36            |
| 345 L DD  | 876,30            |
| 367 L DD  | 933,45            |
| 390 L DD  | 990,60            |
| 405 L DD  | 1028,70           |
| 412 L DD  | 1047,75           |
| 420 L DD  | 1066,80           |
| 450 L DD  | 1143,00           |
| 480 L DD  | 1219,20           |
| 510 L DD  | 1295,40           |
| 540 L DD  | 1371,60           |
| 600 L DD  | 1524,00           |
| 728 L DD  | 1847,85           |
| 817 L DD  | 2076,45           |
| 1103 L DD | 2800,35           |

| STANDARD WIDTHS |       |
|-----------------|-------|
|                 |       |
| 50              | 12,70 |
| 75              | 19,05 |
| 100             | 25,40 |

| H DD      |                   |
|-----------|-------------------|
| CODE      | PITCH LENGTH (mm) |
| 240 H DD  | 609,60            |
| 255 H DD  | 647,70            |
| 270 H DD  | 685,80            |
| 300 H DD  | 762,00            |
| 330 H DD  | 838,20            |
| 360 H DD  | 914,40            |
| 390 H DD  | 990,60            |
| 400 H DD  | 1016,00           |
| 410 H DD  | 1041,40           |
| 420 H DD  | 1066,80           |
| 450 H DD  | 1143,00           |
| 480 H DD  | 1219,20           |
| 510 H DD  | 1295,40           |
| 540 H DD  | 1371,60           |
| 570 H DD  | 1447,80           |
| 600 H DD  | 1524,00           |
| 630 H DD  | 1600,20           |
| 660 H DD  | 1676,40           |
| 670 H DD  | 1701,80           |
| 700 H DD  | 1778,00           |
| 725 H DD  | 1841,50           |
| 750 H DD  | 1905,00           |
| 800 H DD  | 2032,00           |
| 850 H DD  | 2159,00           |
| 900 H DD  | 2286,00           |
| 1000 H DD | 2540,00           |
| 1020 H DD | 2590,80           |
| 1100 H DD | 2794,00           |
| 1120 H DD | 2844,80           |
| 1140 H DD | 2895,60           |
| 1150 H DD | 29                |





# MEGADYNE MEGASYNC™

MXL

**BASIC PERFORMANCE Pb IN W FOR MEGASYNC MXL - 25 mm WIDE (W / 25 mm)**

| D (mm) | 6,47 | 7,11 | 7,76 | 9,06 | 9,70 | 10,35 | 11,64 | 12,94 | 13,58 | 14,23 | 15,52 | 18,11 | 19,40 | 20,70 |
|--------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Z      | 10   | 11   | 12   | 14   | 15   | 16    | 18    | 20    | 21    | 22    | 24    | 28    | 30    | 32    |
| RPM    |      |      |      |      |      |       |       |       |       |       |       |       |       |       |
| 100    | 3    | 3    | 3    | 4    | 4    | 4     | 5     | 6     | 6     | 6     | 7     | 8     | 8     | 9     |
| 200    | 6    | 6    | 7    | 8    | 8    | 9     | 10    | 11    | 12    | 12    | 13    | 15    | 17    | 18    |
| 300    | 8    | 9    | 10   | 12   | 12   | 13    | 15    | 17    | 17    | 18    | 20    | 23    | 25    | 26    |
| 400    | 11   | 12   | 13   | 15   | 17   | 18    | 20    | 22    | 23    | 24    | 26    | 31    | 33    | 35    |
| 500    | 14   | 15   | 17   | 19   | 21   | 22    | 25    | 28    | 29    | 30    | 33    | 39    | 41    | 44    |
| 600    | 17   | 18   | 20   | 23   | 25   | 26    | 30    | 33    | 35    | 36    | 40    | 46    | 50    | 53    |
| 725    | 20   | 22   | 24   | 28   | 30   | 32    | 36    | 40    | 42    | 44    | 48    | 56    | 60    | 64    |
| 800    | 22   | 24   | 26   | 31   | 33   | 35    | 40    | 44    | 46    | 48    | 53    | 62    | 66    | 71    |
| 900    | 25   | 27   | 30   | 35   | 37   | 40    | 45    | 50    | 52    | 55    | 60    | 69    | 74    | 79    |
| 950    | 26   | 29   | 31   | 37   | 39   | 42    | 47    | 52    | 55    | 58    | 63    | 73    | 79    | 84    |
| 1000   | 28   | 30   | 33   | 39   | 41   | 44    | 50    | 55    | 58    | 61    | 66    | 77    | 83    | 88    |
| 1100   | 30   | 33   | 36   | 42   | 45   | 48    | 55    | 61    | 64    | 67    | 73    | 85    | 91    | 97    |
| 1200   | 33   | 36   | 40   | 46   | 50   | 53    | 60    | 66    | 69    | 73    | 79    | 93    | 99    | 106   |
| 1300   | 36   | 39   | 43   | 50   | 54   | 57    | 64    | 72    | 75    | 79    | 86    | 100   | 107   | 115   |
| 1400   | 39   | 42   | 46   | 54   | 58   | 62    | 69    | 77    | 81    | 85    | 93    | 108   | 116   | 123   |
| 1425   | 39   | 43   | 47   | 55   | 59   | 63    | 71    | 79    | 82    | 86    | 94    | 110   | 118   | 126   |
| 1500   | 41   | 45   | 50   | 58   | 62   | 66    | 74    | 83    | 87    | 91    | 99    | 116   | 124   | 132   |
| 1600   | 44   | 48   | 53   | 62   | 66   | 71    | 79    | 88    | 93    | 97    | 106   | 123   | 132   | 141   |
| 1700   | 47   | 52   | 56   | 66   | 70   | 75    | 84    | 94    | 98    | 103   | 112   | 131   | 140   | 150   |
| 1800   | 50   | 55   | 60   | 69   | 74   | 79    | 89    | 99    | 104   | 109   | 119   | 139   | 149   | 158   |
| 1900   | 52   | 58   | 63   | 73   | 79   | 84    | 94    | 105   | 110   | 115   | 126   | 146   | 157   | 167   |
| 2000   | 55   | 61   | 66   | 77   | 83   | 88    | 99    | 110   | 116   | 121   | 132   | 154   | 165   | 176   |
| 2200   | 61   | 67   | 73   | 85   | 91   | 97    | 109   | 121   | 127   | 133   | 145   | 169   | 182   | 194   |
| 2400   | 66   | 73   | 79   | 93   | 99   | 106   | 119   | 132   | 139   | 145   | 158   | 185   | 198   | 211   |
| 2600   | 72   | 79   | 86   | 100  | 107  | 115   | 129   | 143   | 150   | 157   | 172   | 200   | 214   | 229   |
| 2800   | 77   | 85   | 93   | 108  | 116  | 123   | 139   | 154   | 162   | 169   | 185   | 215   | 231   | 246   |
| 2850   | 79   | 86   | 94   | 110  | 118  | 126   | 141   | 157   | 165   | 172   | 188   | 219   | 235   | 250   |
| 3000   | 83   | 91   | 99   | 116  | 124  | 132   | 149   | 165   | 173   | 182   | 198   | 231   | 247   | 263   |
| 3200   | 88   | 97   | 106  | 123  | 132  | 141   | 158   | 176   | 185   | 194   | 211   | 246   | 263   | 281   |
| 3400   | 94   | 103  | 112  | 131  | 140  | 150   | 168   | 187   | 196   | 206   | 224   | 261   | 280   | 298   |
| 3600   | 99   | 109  | 119  | 139  | 149  | 158   | 178   | 198   | 208   | 218   | 237   | 276   | 296   | 315   |
| 3800   | 105  | 115  | 126  | 146  | 157  | 167   | 188   | 209   | 219   | 230   | 250   | 292   | 312   | 333   |
| 4000   | 110  | 121  | 132  | 154  | 165  | 176   | 198   | 220   | 231   | 242   | 263   | 307   | 328   | 350   |
| 4200   | 116  | 127  | 139  | 162  | 173  | 185   | 208   | 231   | 242   | 254   | 276   | 322   | 345   | 367   |
| 4400   | 121  | 133  | 145  | 169  | 182  | 194   | 218   | 242   | 254   | 266   | 289   | 337   | 361   | 384   |
| 4600   | 127  | 139  | 152  | 177  | 190  | 202   | 227   | 253   | 265   | 278   | 302   | 352   | 377   | 402   |
| 4800   | 132  | 145  | 158  | 185  | 198  | 211   | 237   | 263   | 276   | 289   | 315   | 367   | 393   | 419   |
| 5000   | 138  | 151  | 165  | 192  | 206  | 220   | 247   | 274   | 288   | 301   | 328   | 382   | 409   | 436   |
| 5200   | 143  | 157  | 172  | 200  | 214  | 229   | 257   | 285   | 299   | 313   | 341   | 397   | 425   | 453   |
| 5400   | 149  | 163  | 178  | 208  | 223  | 237   | 267   | 296   | 311   | 325   | 354   | 412   | 441   | 470   |
| 5600   | 154  | 169  | 185  | 215  | 231  | 246   | 276   | 307   | 322   | 337   | 367   | 427   | 457   | 486   |
| 5800   | 160  | 175  | 191  | 223  | 239  | 255   | 286   | 318   | 333   | 349   | 380   | 442   | 473   | 503   |
| 6000   | 165  | 182  | 198  | 231  | 247  | 263   | 296   | 328   | 345   | 361   | 393   | 457   | 488   | 520   |
| 6500   | 179  | 197  | 214  | 250  | 267  | 285   | 320   | 355   | 373   | 390   | 425   | 494   | 528   | 562   |
| 7000   | 192  | 212  | 231  | 269  | 288  | 307   | 345   | 382   | 401   | 420   | 457   | 530   | 567   | 603   |
| 7500   | 206  | 227  | 247  | 288  | 308  | 328   | 369   | 409   | 429   | 449   | 488   | 567   | 605   | 643   |
| 8000   | 220  | 242  | 263  | 307  | 328  | 350   | 393   | 436   | 457   | 478   | 520   | 603   | 643   | 684   |
| 8500   | 233  | 257  | 280  | 326  | 349  | 372   | 417   | 462   | 485   | 507   | 551   | 638   | 681   | 724   |
| 9000   | 247  | 272  | 296  | 345  | 369  | 393   | 441   | 488   | 512   | 536   | 582   | 674   | 719   | 763   |
| 9500   | 261  | 286  | 312  | 363  | 389  | 414   | 465   | 515   | 539   | 564   | 613   | 709   | 755   | 801   |
| 10000  | 274  | 301  | 328  | 382  | 409  | 436   | 488   | 541   | 567   | 592   | 643   | 743   | 792   | 839   |
| 10500  | 288  | 316  | 345  | 401  | 429  | 457   | 512   | 567   | 594   | 621   | 674   | 777   | 828   | 877   |
| 11000  | 301  | 331  | 361  | 420  | 449  | 478   | 536   | 592   | 621   | 649   | 704   | 811   | 863   | 914   |
| 11500  | 315  | 346  | 377  | 438  | 469  | 499   | 559   | 618   | 647   | 676   | 733   | 844   | 898   | 950   |
| 12000  | 328  | 361  | 393  | 457  | 488  | 520   | 582   | 643   | 674   | 704   | 763   | 877   | 932   | 985   |
| 12500  | 342  | 376  | 409  | 475  | 508  | 541   | 605   | 669   | 700   | 731   | 792   | 909   | 965   | 1020  |
| 13000  | 355  | 390  | 425  | 494  | 528  | 562   | 628   | 694   | 726   | 758   | 821   | 941   | 998   | 1053  |
| 13500  | 369  | 405  | 441  | 512  | 547  | 582   | 651   | 719   | 752   | 785   | 849   | 972   | 1030  | 1086  |
| 14000  | 382  | 420  | 457  | 530  | 567  | 603   | 674   | 743   | 777   | 811   | 877   | 1002  | 1062  | 1118  |
| 14500  | 396  | 434  | 473  | 549  | 586  | 623   | 696   | 768   | 803   | 837   | 905   | 1032  | 1092  | 1150  |
| 15000  | 409  | 449  | 488  | 567  | 605  | 643   | 719   | 792   | 828   | 863   | 932   | 1062  | 1122  | 1180  |
| 16000  | 436  | 478  | 520  | 603  | 643  | 684   | 763   | 839   | 877   | 914   | 985   | 1118  | 1180  | 1238  |
| 17000  | 462  | 507  | 551  | 638  | 681  | 724   | 806   | 886   | 925   | 963   | 1037  | 1172  | 1234  | 1291  |
| 18000  | 488  | 536  | 582  | 674  | 719  | 763   | 849   | 932   | 972   | 1011  | 1086  | 1223  | 1285  | 1340  |
| 19000  | 515  | 564  | 613  | 709  | 755  | 801   | 891   | 976   | 1017  | 1058  | 1134  | 1272  | 1331  | 1385  |
| 20000  | 541  | 592  | 643  | 743  | 792  | 839   | 932   | 1020  | 1062  | 1102  | 1180  | 1316  | 1374  | 1425  |



# MEGADYNE MEGASYNC™

## XL - XL DD

**BASIC PERFORMANCE Pb IN kW FOR MEGASYNC XL AND XL DD - 25 mm WIDE (kW / 25 mm)**

| D (mm) | 16,17 | 17,79 | 19,40 | 22,64 | 24,26 | 25,87 | 29,11 | 32,34 | 33,96 | 35,57 | 38,81 | 45,28 | 48,51 | 51,74 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Z      | 10    | 11    | 12    | 14    | 15    | 16    | 18    | 20    | 21    | 22    | 24    | 28    | 30    | 32    |
| RPM    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 100    | 0,02  | 0,02  | 0,02  | 0,02  | 0,02  | 0,02  | 0,03  | 0,03  | 0,03  | 0,03  | 0,04  | 0,04  | 0,05  | 0,05  |
| 200    | 0,03  | 0,03  | 0,04  | 0,04  | 0,05  | 0,05  | 0,05  | 0,06  | 0,06  | 0,07  | 0,07  | 0,09  | 0,09  | 0,10  |
| 300    | 0,05  | 0,05  | 0,05  | 0,06  | 0,07  | 0,07  | 0,08  | 0,09  | 0,10  | 0,10  | 0,11  | 0,13  | 0,14  | 0,15  |
| 400    | 0,06  | 0,07  | 0,07  | 0,09  | 0,09  | 0,10  | 0,11  | 0,12  | 0,13  | 0,13  | 0,15  | 0,17  | 0,18  | 0,19  |
| 500    | 0,08  | 0,08  | 0,09  | 0,11  | 0,11  | 0,12  | 0,14  | 0,15  | 0,16  | 0,17  | 0,18  | 0,21  | 0,23  | 0,24  |
| 600    | 0,09  | 0,10  | 0,11  | 0,13  | 0,14  | 0,15  | 0,16  | 0,18  | 0,19  | 0,20  | 0,22  | 0,26  | 0,27  | 0,29  |
| 725    | 0,11  | 0,12  | 0,13  | 0,15  | 0,17  | 0,18  | 0,20  | 0,22  | 0,23  | 0,24  | 0,26  | 0,31  | 0,33  | 0,35  |
| 800    | 0,12  | 0,13  | 0,15  | 0,17  | 0,18  | 0,19  | 0,22  | 0,24  | 0,26  | 0,27  | 0,29  | 0,34  | 0,36  | 0,39  |
| 900    | 0,14  | 0,15  | 0,16  | 0,19  | 0,21  | 0,22  | 0,25  | 0,27  | 0,29  | 0,30  | 0,33  | 0,38  | 0,41  | 0,44  |
| 950    | 0,14  | 0,16  | 0,17  | 0,20  | 0,22  | 0,23  | 0,26  | 0,29  | 0,30  | 0,32  | 0,35  | 0,40  | 0,43  | 0,46  |
| 1000   | 0,15  | 0,17  | 0,18  | 0,21  | 0,23  | 0,24  | 0,27  | 0,30  | 0,32  | 0,33  | 0,36  | 0,43  | 0,46  | 0,49  |
| 1100   | 0,17  | 0,18  | 0,20  | 0,23  | 0,25  | 0,27  | 0,30  | 0,33  | 0,35  | 0,37  | 0,40  | 0,47  | 0,50  | 0,53  |
| 1200   | 0,18  | 0,20  | 0,22  | 0,26  | 0,27  | 0,29  | 0,33  | 0,36  | 0,38  | 0,40  | 0,44  | 0,51  | 0,55  | 0,58  |
| 1300   | 0,20  | 0,22  | 0,24  | 0,28  | 0,30  | 0,32  | 0,36  | 0,39  | 0,41  | 0,43  | 0,47  | 0,55  | 0,59  | 0,63  |
| 1400   | 0,21  | 0,23  | 0,26  | 0,30  | 0,32  | 0,34  | 0,38  | 0,43  | 0,45  | 0,47  | 0,51  | 0,59  | 0,64  | 0,68  |
| 1425   | 0,22  | 0,24  | 0,26  | 0,30  | 0,32  | 0,35  | 0,39  | 0,43  | 0,45  | 0,48  | 0,52  | 0,60  | 0,65  | 0,69  |
| 1500   | 0,23  | 0,25  | 0,27  | 0,32  | 0,34  | 0,36  | 0,41  | 0,46  | 0,48  | 0,50  | 0,55  | 0,64  | 0,68  | 0,73  |
| 1600   | 0,24  | 0,27  | 0,29  | 0,34  | 0,36  | 0,39  | 0,44  | 0,49  | 0,51  | 0,53  | 0,58  | 0,68  | 0,73  | 0,77  |
| 1700   | 0,26  | 0,28  | 0,31  | 0,36  | 0,39  | 0,41  | 0,46  | 0,52  | 0,54  | 0,57  | 0,62  | 0,72  | 0,77  | 0,82  |
| 1800   | 0,27  | 0,30  | 0,33  | 0,38  | 0,41  | 0,44  | 0,49  | 0,55  | 0,57  | 0,60  | 0,65  | 0,76  | 0,82  | 0,87  |
| 1900   | 0,29  | 0,32  | 0,35  | 0,40  | 0,43  | 0,46  | 0,52  | 0,58  | 0,60  | 0,63  | 0,69  | 0,80  | 0,86  | 0,92  |
| 2000   | 0,30  | 0,33  | 0,36  | 0,43  | 0,46  | 0,49  | 0,55  | 0,61  | 0,64  | 0,67  | 0,73  | 0,84  | 0,90  | 0,96  |
| 2200   | 0,33  | 0,37  | 0,40  | 0,47  | 0,50  | 0,53  | 0,60  | 0,67  | 0,70  | 0,73  | 0,80  | 0,93  | 0,99  | 1,06  |
| 2400   | 0,36  | 0,40  | 0,44  | 0,51  | 0,55  | 0,58  | 0,65  | 0,73  | 0,76  | 0,80  | 0,87  | 1,01  | 1,08  | 1,15  |
| 2600   | 0,39  | 0,43  | 0,47  | 0,55  | 0,59  | 0,63  | 0,71  | 0,79  | 0,82  | 0,86  | 0,94  | 1,09  | 1,17  | 1,24  |
| 2800   | 0,43  | 0,47  | 0,51  | 0,59  | 0,64  | 0,68  | 0,76  | 0,84  | 0,89  | 0,93  | 1,01  | 1,17  | 1,25  | 1,33  |
| 2850   | 0,43  | 0,48  | 0,52  | 0,60  | 0,65  | 0,69  | 0,78  | 0,86  | 0,90  | 0,94  | 1,03  | 1,19  | 1,28  | 1,36  |
| 3000   | 0,46  | 0,50  | 0,55  | 0,64  | 0,68  | 0,73  | 0,82  | 0,90  | 0,95  | 0,99  | 1,08  | 1,25  | 1,34  | 1,42  |
| 3200   | 0,49  | 0,53  | 0,58  | 0,68  | 0,73  | 0,77  | 0,87  | 0,96  | 1,01  | 1,06  | 1,15  | 1,33  | 1,42  | 1,51  |
| 3400   | 0,52  | 0,57  | 0,62  | 0,72  | 0,77  | 0,82  | 0,92  | 1,02  | 1,07  | 1,12  | 1,22  | 1,41  | 1,51  | 1,60  |
| 3600   | 0,55  | 0,60  | 0,65  | 0,76  | 0,82  | 0,87  | 0,97  | 1,08  | 1,13  | 1,18  | 1,29  | 1,49  | 1,59  | 1,69  |
| 3800   | 0,58  | 0,63  | 0,69  | 0,80  | 0,86  | 0,92  | 1,03  | 1,14  | 1,19  | 1,25  | 1,36  | 1,57  | 1,67  | 1,78  |
| 4000   | 0,61  | 0,67  | 0,73  | 0,84  | 0,90  | 0,96  | 1,08  | 1,20  | 1,25  | 1,31  | 1,42  | 1,65  | 1,76  | 1,86  |
| 4200   | 0,64  | 0,70  | 0,76  | 0,89  | 0,95  | 1,01  | 1,13  | 1,25  | 1,31  | 1,37  | 1,49  | 1,72  | 1,84  | 1,95  |
| 4400   | 0,67  | 0,73  | 0,80  | 0,93  | 0,99  | 1,06  | 1,18  | 1,31  | 1,37  | 1,44  | 1,56  | 1,80  | 1,91  | 2,03  |
| 4600   | 0,70  | 0,76  | 0,83  | 0,97  | 1,04  | 1,10  | 1,24  | 1,37  | 1,43  | 1,50  | 1,63  | 1,87  | 1,99  | 2,11  |
| 4800   | 0,73  | 0,80  | 0,87  | 1,01  | 1,08  | 1,15  | 1,29  | 1,42  | 1,49  | 1,56  | 1,69  | 1,95  | 2,07  | 2,19  |
| 5000   | 0,76  | 0,83  | 0,90  | 1,05  | 1,12  | 1,20  | 1,34  | 1,48  | 1,55  | 1,62  | 1,76  | 2,02  | 2,15  | 2,27  |
| 5200   | 0,79  | 0,86  | 0,94  | 1,09  | 1,17  | 1,24  | 1,39  | 1,54  | 1,61  | 1,68  | 1,82  | 2,09  | 2,22  | 2,34  |
| 5400   | 0,82  | 0,90  | 0,97  | 1,13  | 1,21  | 1,29  | 1,44  | 1,59  | 1,67  | 1,74  | 1,88  | 2,16  | 2,29  | 2,42  |
| 5600   |       |       |       |       | 1,25  | 1,33  | 1,49  | 1,65  | 1,72  | 1,80  | 1,95  | 2,23  | 2,36  | 2,49  |
| 5800   |       |       |       |       | 1,30  | 1,38  | 1,54  | 1,70  | 1,78  | 1,86  | 2,01  | 2,30  | 2,43  | 2,56  |
| 6000   |       |       |       |       | 1,34  | 1,42  | 1,59  | 1,76  | 1,84  | 1,91  | 2,07  | 2,36  | 2,50  | 2,63  |
| 6500   |       |       |       |       | 1,45  | 1,54  | 1,72  | 1,89  | 1,97  | 2,06  | 2,22  | 2,52  | 2,67  | 2,80  |
| 7000   |       |       |       |       | 1,55  | 1,65  | 1,84  | 2,02  | 2,11  | 2,19  | 2,36  | 2,68  | 2,82  | 2,95  |
| 7500   |       |       |       |       |       |       | 1,95  | 2,15  | 2,24  | 2,33  | 2,50  | 2,82  | 2,96  | 3,09  |
| 8000   |       |       |       |       |       |       | 2,07  | 2,27  | 2,36  | 2,46  | 2,63  | 2,95  | 3,09  | 3,21  |
| 8500   |       |       |       |       |       |       | 2,18  | 2,39  | 2,48  | 2,58  | 2,76  | 3,07  | 3,21  | 3,32  |
| 9000   |       |       |       |       |       |       | 2,29  | 2,50  | 2,60  | 2,70  | 2,88  | 3,18  | 3,31  | 3,41  |
| 9500   |       |       |       |       |       |       | 2,40  | 2,61  | 2,71  | 2,81  | 2,99  | 3,28  | 3,40  | 3,48  |
| 10000  |       |       |       |       |       |       | 2,50  | 2,72  | 2,82  | 2,91  | 3,09  | 3,37  | 3,47  | 3,54  |
| 10500  |       |       |       |       |       |       | 2,60  | 2,82  | 2,92  | 3,01  | 3,18  | 3,44  | 3,52  | 3,57  |
| 11000  |       |       |       |       |       |       | 2,70  | 2,91  | 3,01  | 3,11  | 3,27  | 3,50  | 3,56  | 3,58  |
| 11500  |       |       |       |       |       |       | 2,79  | 3,01  | 3,10  | 3,19  | 3,35  | 3,54  | 3,58  | 3,57  |
| 12000  |       |       |       |       |       |       | 2,88  | 3,09  | 3,18  | 3,27  | 3,41  | 3,57  | 3,58  | 3,54  |
| 12500  |       |       |       |       |       |       | 2,96  | 3,17  | 3,26  | 3,34  | 3,47  | 3,58  | 3,56  | 3,49  |
| 13000  |       |       |       |       |       |       | 3,04  | 3,24  | 3,33  | 3,40  | 3,51  | 3,58  | 3,52  | 3,41  |
| 13500  |       |       |       |       |       |       | 3,11  | 3,31  | 3,39  | 3,45  | 3,55  | 3,56  | 3,46  | 3,30  |
| 14000  |       |       |       |       |       |       | 3,18  | 3,37  | 3,44  | 3,50  | 3,57  | 3,52  | 3,38  | 3,16  |
| 14500  |       |       |       |       |       |       | 3,25  | 3,42  | 3,49  | 3,54  | 3,58  | 3,46  | 3,28  | 3,00  |
| 15000  |       |       |       |       |       |       | 3,31  | 3,47  | 3,52  | 3,56  | 3,58  | 3,38  | 3,15  | 2,81  |

- Under these conditions life's reduction is expected.
- Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.
- Both of the above conditions exist.





# MEGADYNE MEGASYNC™

## L - L DD

**BASIC PERFORMANCE P<sub>b</sub> IN kW FOR MEGASYNC L AND L DD - 25 mm WIDE (kW / 25 mm)**

| D (mm) | 30,32 | 36,38 | 42,45 | 48,51 | 54,57 | 60,64 | 66,70 | 72,77 | 78,83 | 84,89 | 90,96 | 97,02 | 109,15 | 121,28 | 145,53 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Z      | 10    | 12    | 14    | 16    | 18    | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 36     | 40     | 48     |
| RPM    |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |
| 100    | 0,04  | 0,05  | 0,05  | 0,06  | 0,07  | 0,08  | 0,08  | 0,09  | 0,10  | 0,11  | 0,11  | 0,12  | 0,14   | 0,15   | 0,18   |
| 200    | 0,08  | 0,09  | 0,11  | 0,12  | 0,14  | 0,15  | 0,17  | 0,18  | 0,20  | 0,21  | 0,23  | 0,24  | 0,28   | 0,31   | 0,37   |
| 300    | 0,11  | 0,14  | 0,16  | 0,18  | 0,21  | 0,23  | 0,25  | 0,28  | 0,30  | 0,32  | 0,34  | 0,37  | 0,41   | 0,46   | 0,55   |
| 400    | 0,15  | 0,18  | 0,21  | 0,24  | 0,28  | 0,31  | 0,34  | 0,37  | 0,40  | 0,43  | 0,46  | 0,49  | 0,55   | 0,61   | 0,73   |
| 500    | 0,19  | 0,23  | 0,27  | 0,31  | 0,34  | 0,38  | 0,42  | 0,46  | 0,50  | 0,53  | 0,57  | 0,61  | 0,69   | 0,76   | 0,91   |
| 600    | 0,23  | 0,28  | 0,32  | 0,37  | 0,41  | 0,46  | 0,50  | 0,55  | 0,60  | 0,64  | 0,69  | 0,73  | 0,82   | 0,91   | 1,09   |
| 700    | 0,27  | 0,32  | 0,37  | 0,43  | 0,48  | 0,53  | 0,59  | 0,64  | 0,69  | 0,75  | 0,80  | 0,85  | 0,96   | 1,06   | 1,27   |
| 725    | 0,28  | 0,33  | 0,39  | 0,44  | 0,50  | 0,55  | 0,61  | 0,66  | 0,72  | 0,77  | 0,83  | 0,88  | 0,99   | 1,10   | 1,32   |
| 800    | 0,31  | 0,37  | 0,43  | 0,49  | 0,55  | 0,61  | 0,67  | 0,73  | 0,79  | 0,85  | 0,91  | 0,97  | 1,09   | 1,21   | 1,45   |
| 900    | 0,34  | 0,41  | 0,48  | 0,55  | 0,62  | 0,69  | 0,76  | 0,82  | 0,89  | 0,96  | 1,03  | 1,09  | 1,23   | 1,36   | 1,62   |
| 950    | 0,36  | 0,44  | 0,51  | 0,58  | 0,65  | 0,72  | 0,80  | 0,87  | 0,94  | 1,01  | 1,08  | 1,15  | 1,29   | 1,43   | 1,71   |
| 1000   | 0,38  | 0,46  | 0,53  | 0,61  | 0,69  | 0,76  | 0,84  | 0,91  | 0,99  | 1,06  | 1,14  | 1,21  | 1,36   | 1,51   | 1,80   |
| 1100   | 0,42  | 0,50  | 0,59  | 0,67  | 0,76  | 0,84  | 0,92  | 1,00  | 1,09  | 1,17  | 1,25  | 1,33  | 1,49   | 1,65   | 1,97   |
| 1200   | 0,46  | 0,55  | 0,64  | 0,73  | 0,82  | 0,91  | 1,00  | 1,09  | 1,18  | 1,27  | 1,36  | 1,45  | 1,62   | 1,80   | 2,13   |
| 1300   | 0,50  | 0,60  | 0,69  | 0,79  | 0,89  | 0,99  | 1,09  | 1,18  | 1,28  | 1,38  | 1,47  | 1,57  | 1,75   | 1,94   | 2,30   |
| 1400   | 0,53  | 0,64  | 0,75  | 0,85  | 0,96  | 1,06  | 1,17  | 1,27  | 1,38  | 1,48  | 1,58  | 1,68  | 1,88   | 2,08   | 2,46   |
| 1425   | 0,54  | 0,65  | 0,76  | 0,87  | 0,98  | 1,08  | 1,19  | 1,29  | 1,40  | 1,50  | 1,61  | 1,71  | 1,91   | 2,11   | 2,50   |
| 1500   | 0,57  | 0,69  | 0,80  | 0,91  | 1,03  | 1,14  | 1,25  | 1,36  | 1,47  | 1,58  | 1,69  | 1,80  | 2,01   | 2,22   | 2,62   |
| 1600   | 0,61  | 0,73  | 0,85  | 0,97  | 1,09  | 1,21  | 1,33  | 1,45  | 1,57  | 1,68  | 1,80  | 1,91  | 2,13   | 2,35   | 2,77   |
| 1700   | 0,65  | 0,78  | 0,91  | 1,03  | 1,16  | 1,29  | 1,41  | 1,54  | 1,66  | 1,78  | 1,90  | 2,02  | 2,26   | 2,48   | 2,92   |
| 1800   | 0,69  | 0,82  | 0,96  | 1,09  | 1,23  | 1,36  | 1,49  | 1,62  | 1,75  | 1,88  | 2,01  | 2,13  | 2,38   | 2,62   | 3,06   |
| 1900   | 0,72  | 0,87  | 1,01  | 1,15  | 1,29  | 1,43  | 1,57  | 1,71  | 1,85  | 1,98  | 2,11  | 2,24  | 2,50   | 2,74   | 3,21   |
| 2000   | 0,76  | 0,91  | 1,06  | 1,21  | 1,36  | 1,51  | 1,65  | 1,80  | 1,94  | 2,08  | 2,22  | 2,35  | 2,62   | 2,87   | 3,34   |
| 2200   | 0,84  | 1,00  | 1,17  | 1,33  | 1,49  | 1,65  | 1,81  | 1,97  | 2,12  | 2,27  | 2,42  | 2,56  | 2,84   | 3,11   | 3,60   |
| 2400   | 0,91  | 1,09  | 1,27  | 1,45  | 1,62  | 1,80  | 1,97  | 2,13  | 2,30  | 2,46  | 2,62  | 2,77  | 3,06   | 3,34   | 3,83   |
| 2600   | 0,99  | 1,18  | 1,38  | 1,57  | 1,75  | 1,94  | 2,12  | 2,30  | 2,47  | 2,64  | 2,81  | 2,97  | 3,27   | 3,56   | 4,04   |
| 2800   | 1,06  | 1,27  | 1,48  | 1,68  | 1,88  | 2,08  | 2,27  | 2,46  | 2,64  | 2,82  | 2,99  | 3,16  | 3,47   | 3,76   | 4,23   |
| 2850   | 1,08  | 1,29  | 1,50  | 1,71  | 1,91  | 2,11  | 2,31  | 2,50  | 2,68  | 2,86  | 3,04  | 3,21  | 3,52   | 3,81   | 4,27   |
| 3000   | 1,14  | 1,36  | 1,58  | 1,80  | 2,01  | 2,22  | 2,42  | 2,62  | 2,81  | 2,99  | 3,17  | 3,34  | 3,66   | 3,94   | 4,39   |
| 3200   | 1,21  | 1,45  | 1,68  | 1,91  | 2,13  | 2,35  | 2,56  | 2,77  | 2,97  | 3,16  | 3,34  | 3,52  | 3,83   | 4,11   | 4,51   |
| 3400   | 1,29  | 1,54  | 1,78  | 2,02  | 2,26  | 2,48  | 2,71  | 2,92  | 3,12  | 3,32  | 3,50  | 3,68  | 3,99   | 4,26   | 4,61   |
| 3600   | 1,36  | 1,62  | 1,88  | 2,13  | 2,38  | 2,62  | 2,84  | 3,06  | 3,27  | 3,47  | 3,66  | 3,83  | 4,14   | 4,39   | 4,67   |
| 3800   | 1,43  | 1,71  | 1,98  | 2,24  | 2,50  | 2,74  | 2,98  | 3,21  | 3,42  | 3,62  | 3,81  | 3,98  | 4,27   | 4,50   | 4,70   |
| 4000   | 1,51  | 1,80  | 2,08  | 2,35  | 2,62  | 2,87  | 3,11  | 3,34  | 3,56  | 3,76  | 3,94  | 4,11  | 4,39   | 4,58   | 4,68   |
| 4200   | 1,58  | 1,88  | 2,17  | 2,46  | 2,73  | 2,99  | 3,24  | 3,47  | 3,69  | 3,89  | 4,07  | 4,23  | 4,49   | 4,64   | 4,63   |
| 4400   | 1,65  | 1,97  | 2,27  | 2,56  | 2,84  | 3,11  | 3,36  | 3,60  | 3,81  | 4,01  | 4,19  | 4,34  | 4,57   | 4,68   | 4,53   |
| 4600   | 1,72  | 2,05  | 2,36  | 2,67  | 2,96  | 3,23  | 3,48  | 3,72  | 3,93  | 4,13  | 4,29  | 4,43  | 4,63   | 4,70   | 4,40   |
| 4800   | 1,80  | 2,13  | 2,46  | 2,77  | 3,06  | 3,34  | 3,60  | 3,83  | 4,04  | 4,23  | 4,39  | 4,51  | 4,67   | 4,68   | 4,21   |
| 5000   | 1,87  | 2,22  | 2,55  | 2,87  | 3,17  | 3,45  | 3,71  | 3,94  | 4,15  | 4,33  | 4,47  | 4,58  | 4,69   | 4,64   | 3,98   |
| 5200   | 1,94  | 2,30  | 2,64  | 2,97  | 3,27  | 3,56  | 3,81  | 4,04  | 4,24  | 4,41  | 4,54  | 4,63  | 4,69   | 4,57   | 3,69   |
| 5400   | 2,01  | 2,38  | 2,73  | 3,06  | 3,37  | 3,66  | 3,92  | 4,14  | 4,33  | 4,49  | 4,60  | 4,67  | 4,67   | 4,47   | 3,36   |
| 5600   | 2,08  | 2,46  | 2,82  | 3,16  | 3,47  | 3,76  | 4,01  | 4,23  | 4,41  | 4,55  | 4,64  | 4,69  | 4,63   | 4,34   | 2,97   |
| 5800   | 2,15  | 2,54  | 2,91  | 3,25  | 3,57  | 3,85  | 4,10  | 4,31  | 4,48  | 4,60  | 4,68  | 4,70  | 4,56   | 4,18   | 2,53   |
| 6000   | 2,20  | 2,62  | 2,99  | 3,34  | 3,66  | 3,94  | 4,19  | 4,39  | 4,54  | 4,64  | 4,69  | 4,68  | 4,47   | 3,98   | 2,02   |
| 6200   | 2,28  | 2,69  | 3,08  | 3,43  | 3,75  | 4,03  | 4,27  | 4,45  | 4,59  | 4,67  | 4,70  | 4,65  | 4,35   | 3,75   |        |
| 6400   | 2,35  | 2,77  | 3,16  | 3,52  | 3,83  | 4,11  | 4,34  | 4,51  | 4,63  | 4,69  | 4,68  | 4,60  | 4,21   | 3,48   |        |
| 6600   | 2,42  | 2,84  | 3,24  | 3,60  | 3,92  | 4,19  | 4,40  | 4,57  | 4,66  | 4,70  | 4,65  | 4,53  | 4,04   | 3,17   |        |
| 6800   | 2,48  | 2,92  | 3,32  | 3,68  | 3,99  | 4,26  | 4,46  | 4,61  | 4,69  | 4,69  | 4,61  | 4,45  | 3,84   | 2,83   |        |
| 7000   | 2,55  | 2,99  | 3,40  | 3,76  | 4,07  | 4,33  | 4,52  | 4,64  | 4,70  | 4,67  | 4,55  | 4,34  | 3,62   | 2,45   |        |

□ Under these conditions life's reduction is expected.

■ Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.



# MEGADYNE MEGASYNC™

## H - H DD

**BASIC PERFORMANCE P<sub>b</sub> IN kW FOR MEGASYNC H AND H DD - 25 mm WIDE (kW / 25 mm)**

| D (mm) | 56,60 | 64,68 | 72,77 | 80,85 | 88,94 | 97,02 | 105,11 | 113,19 | 121,28 | 129,36 | 145,53 | 161,70 | 194,04 |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Z      | 14    | 16    | 18    | 20    | 22    | 24    | 26     | 28     | 30     | 32     | 36     | 40     | 48     |
| RPM    |       |       |       |       |       |       |        |        |        |        |        |        |        |
| 100    | 0,18  | 0,21  | 0,23  | 0,26  | 0,29  | 0,31  | 0,34   | 0,36   | 0,39   | 0,42   | 0,47   | 0,52   | 0,62   |
| 200    | 0,36  | 0,42  | 0,47  | 0,52  | 0,57  | 0,62  | 0,68   | 0,73   | 0,78   | 0,83   | 0,93   | 1,04   | 1,25   |
| 400    | 0,73  | 0,83  | 0,93  | 1,04  | 1,14  | 1,25  | 1,35   | 1,45   | 1,56   | 1,66   | 1,87   | 2,07   | 2,49   |
| 500    | 0,91  | 1,04  | 1,17  | 1,30  | 1,43  | 1,56  | 1,69   | 1,82   | 1,94   | 2,07   | 2,33   | 2,59   | 3,10   |
| 600    | 1,09  | 1,25  | 1,40  | 1,56  | 1,71  | 1,87  | 2,02   | 2,18   | 2,33   | 2,49   | 2,79   | 3,10   | 3,71   |
| 700    | 1,27  | 1,45  | 1,63  | 1,82  | 2,00  | 2,18  | 2,36   | 2,54   | 2,72   | 2,90   | 3,25   | 3,61   | 4,32   |
| 725    | 1,32  | 1,51  | 1,69  | 1,88  | 2,07  | 2,25  | 2,44   | 2,63   | 2,81   | 3,00   | 3,37   | 3,74   | 4,47   |
| 800    | 1,45  | 1,66  | 1,87  | 2,07  | 2,28  | 2,49  | 2,69   | 2,90   | 3,10   | 3,31   | 3,71   | 4,12   | 4,92   |
| 900    | 1,63  | 1,87  | 2,10  | 2,33  | 2,56  | 2,79  | 3,02   | 3,25   | 3,48   | 3,71   | 4,17   | 4,62   | 5,51   |
| 950    | 1,72  | 1,97  | 2,22  | 2,46  | 2,70  | 2,95  | 3,19   | 3,43   | 3,67   | 3,91   | 4,39   | 4,87   | 5,81   |
| 1000   | 1,82  | 2,07  | 2,33  | 2,59  | 2,84  | 3,10  | 3,36   | 3,61   | 3,86   | 4,12   | 4,62   | 5,12   | 6,10   |
| 1100   | 2,00  | 2,28  | 2,56  | 2,84  | 3,13  | 3,41  | 3,69   | 3,97   | 4,24   | 4,52   | 5,07   | 5,61   | 6,68   |
| 1200   | 2,18  | 2,49  | 2,79  | 3,10  | 3,41  | 3,71  | 4,02   | 4,32   | 4,62   | 4,92   | 5,51   | 6,10   | 7,25   |
| 1300   | 2,36  | 2,69  | 3,02  | 3,36  | 3,69  | 4,03  | 4,34   | 4,67   | 4,99   | 5,31   | 5,95   | 6,58   | 7,80   |
| 1400   |       | 2,90  | 3,25  | 3,61  | 3,97  | 4,32  | 4,67   | 5,02   | 5,36   | 5,71   | 6,39   | 7,06   | 8,35   |
| 1425   |       | 2,95  | 3,31  | 3,67  | 4,03  | 4,39  | 4,75   | 5,10   | 5,46   | 5,81   | 6,50   | 7,17   | 8,49   |
| 1500   |       | 3,10  | 3,48  | 3,86  | 4,24  | 4,62  | 4,99   | 5,36   | 5,73   | 6,10   | 6,82   | 7,53   | 8,89   |
| 1600   |       | 3,31  | 3,71  | 4,12  | 4,52  | 4,92  | 5,31   | 5,71   | 6,10   | 6,48   | 7,25   | 7,99   | 9,41   |
| 1700   |       | 3,51  | 3,94  | 4,37  | 4,79  | 5,22  | 5,63   | 6,05   | 6,46   | 6,87   | 7,67   | 8,44   | 9,92   |
| 1800   |       | 3,71  | 4,17  | 4,62  | 5,07  | 5,51  | 5,95   | 6,39   | 6,82   | 7,25   | 8,08   | 8,89   | 10,42  |
| 1900   |       | 3,91  | 4,39  | 4,87  | 5,34  | 5,81  | 6,27   | 6,72   | 7,17   | 7,62   | 8,49   | 9,33   | 10,90  |
| 2000   |       | 4,12  | 4,62  | 5,12  | 5,61  | 6,10  | 6,58   | 7,06   | 7,53   | 7,99   | 8,89   | 9,76   | 11,37  |
| 2200   |       | 4,52  | 5,07  | 5,61  | 6,15  | 6,68  | 7,20   | 7,71   | 8,22   | 8,71   | 9,67   | 10,58  | 12,25  |
| 2400   |       | 4,92  | 5,51  | 6,10  | 6,68  | 7,25  | 7,80   | 8,35   | 8,89   | 9,41   | 10,42  | 11,17  | 13,06  |
| 2600   |       |       | 5,95  | 6,58  | 7,20  | 7,80  | 8,40   | 8,98   | 9,54   | 10,09  | 11,14  | 12,11  | 13,79  |
| 2800   |       |       | 6,39  | 7,06  | 7,71  | 8,35  | 8,98   | 9,59   | 10,17  | 10,74  | 11,82  | 12,80  | 14,44  |
| 2850   |       |       | 6,50  | 7,17  | 7,84  | 8,49  | 9,12   | 9,73   | 10,33  | 10,90  | 11,98  | 12,96  | 14,58  |
| 3000   |       |       | 6,82  | 7,53  | 8,22  | 8,89  | 9,54   | 10,17  | 10,78  | 11,37  | 12,46  | 13,44  | 14,99  |
| 3200   |       |       | 7,25  | 7,99  | 8,71  | 9,41  | 10,09  | 10,74  | 11,37  | 11,97  | 13,06  | 14,02  | 15,44  |
| 3400   |       |       |       | 8,44  | 9,20  | 9,92  | 10,62  | 11,29  | 11,93  | 12,53  | 13,62  | 14,54  | 15,79  |
| 3600   |       |       |       | 8,89  | 9,67  | 10,42 | 11,14  | 11,82  | 12,46  | 13,06  | 14,13  | 14,99  | 16,02  |
| 3800   |       |       |       | 9,33  | 10,13 | 10,90 | 11,63  | 12,32  | 12,96  | 13,56  | 14,58  | 15,37  | 16,14  |
| 4000   |       |       |       | 9,76  | 10,58 | 11,37 | 12,11  | 12,80  | 13,44  | 14,02  | 14,99  | 15,68  | 16,13  |
| 4200   |       |       |       | 10,17 | 11,02 | 11,82 | 12,56  | 13,25  | 13,88  | 14,44  | 15,34  | 15,92  | 15,98  |
| 4400   |       |       |       | 10,58 | 11,45 | 12,25 | 13,00  | 13,68  | 14,82  | 14,82  | 15,63  | 16,07  | 15,70  |
| 4600   |       |       |       | 10,98 | 11,86 | 12,67 | 13,41  | 14,07  | 14,65  | 15,15  | 15,86  | 16,14  | 15,28  |
| 4800   |       |       |       | 11,37 | 12,25 | 13,06 | 13,79  | 14,44  | 14,99  | 15,44  | 16,02  | 16,13  | 14,70  |
| 5000   |       |       |       | 11,75 | 12,63 | 13,44 | 14,15  | 14,77  | 15,28  | 15,68  | 16,12  | 16,02  | 13,96  |
| 5200   |       |       |       | 12,11 | 13,00 | 13,79 | 14,49  | 15,07  | 15,54  | 15,88  | 16,15  | 15,81  | 13,05  |
| 5400   |       |       |       | 12,46 | 13,15 | 14,13 | 14,79  | 15,34  | 15,75  | 16,02  | 16,10  | 15,51  | 11,98  |
| 5600   |       |       |       | 12,80 | 13,64 | 14,44 | 15,07  | 15,57  | 15,92  | 16,11  | 16,48  | 15,10  | 10,73  |
| 5800   |       |       |       | 13,13 | 13,99 | 14,72 | 15,32  | 15,76  | 16,04  | 16,15  | 16,79  | 14,58  | 9,29   |
| 6000   |       |       |       | 13,44 | 14,28 | 14,99 | 15,54  | 15,92  | 16,12  | 16,13  | 15,51  | 13,96  | 7,66   |

□ Under these conditions life's reduction is expected.

□ Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.



# MEGADYNE MEGASYNC™

XH

**BASIC PERFORMANCE Pb IN kW FOR MEGASYNC XH - 25 mm WIDE (kW / 25 mm)**

| D (mm) | 127,34 | 141,49 | 155,64 | 169,79 | 183,94 | 198,08 | 212,23 | 226,38 | 240,53 | 254,68 | 282,98 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z      | 18     | 20     | 22     | 24     | 26     | 28     | 30     | 32     | 34     | 36     | 40     |
| RPM    |        |        |        |        |        |        |        |        |        |        |        |
| 100    | 0,56   | 0,62   | 0,68   | 0,74   | 0,81   | 0,87   | 0,93   | 0,99   | 1,05   | 1,12   | 1,24   |
| 200    | 1,12   | 1,24   | 1,36   | 1,49   | 1,61   | 1,73   | 1,86   | 1,98   | 2,10   | 2,23   | 2,47   |
| 300    | 1,67   | 1,86   | 2,04   | 2,23   | 2,41   | 2,60   | 2,78   | 2,96   | 3,15   | 3,33   | 3,70   |
| 400    | 2,23   | 2,47   | 2,72   | 2,96   | 3,21   | 3,45   | 3,70   | 3,94   | 4,18   | 4,42   | 4,90   |
| 500    | 2,78   | 3,09   | 3,39   | 3,70   | 4,00   | 4,30   | 4,60   | 4,90   | 5,20   | 5,49   | 6,08   |
| 600    | 3,33   | 3,70   | 4,06   | 4,42   | 4,78   | 5,14   | 5,49   | 5,84   | 6,20   | 6,54   | 7,23   |
| 700    | 3,88   | 4,30   | 4,72   | 5,14   | 5,55   | 5,96   | 6,37   | 6,77   | 7,17   | 7,57   | 8,34   |
| 725    | 4,01   | 4,45   | 4,88   | 5,31   | 5,74   | 6,17   | 6,59   | 7,00   | 7,41   | 7,82   | 8,61   |
| 800    | 4,42   | 4,90   | 5,37   | 5,84   | 6,31   | 6,77   | 7,23   | 7,68   | 8,12   | 8,56   | 9,41   |
| 900    | 4,96   | 5,49   | 6,02   | 6,54   | 7,06   | 7,57   | 8,07   | 8,56   | 9,04   | 9,52   | 10,44  |
| 950    | 5,23   | 5,79   | 6,34   | 6,89   | 7,43   | 7,96   | 8,48   | 8,99   | 9,49   | 9,98   | 10,93  |
| 1000   | 5,49   | 6,08   | 6,66   | 7,23   | 7,79   | 8,34   | 8,88   | 9,41   | 9,93   | 10,44  | 11,41  |
| 1100   | 6,02   | 6,66   | 7,28   | 7,90   | 8,51   | 9,10   | 9,67   | 10,24  | 10,78  | 11,31  | 12,32  |
| 1200   | 6,54   | 7,23   | 7,90   | 8,56   | 9,20   | 9,83   | 10,44  | 11,03  | 11,59  | 12,14  | 13,16  |
| 1300   | 7,06   | 7,79   | 8,51   | 9,20   | 9,88   | 10,54  | 11,17  | 11,78  | 12,36  | 12,92  | 13,93  |
| 1400   |        | 8,34   | 9,10   | 9,83   | 10,54  | 11,22  | 11,87  | 12,49  | 13,08  | 13,63  | 14,63  |
| 1425   |        | 8,48   | 9,24   | 9,98   | 10,70  | 11,38  | 12,04  | 12,66  | 13,25  | 13,80  | 14,79  |
| 1500   |        | 8,88   | 9,67   | 10,44  | 11,17  | 11,87  | 12,53  | 13,16  | 13,75  | 14,29  | 15,24  |
| 1600   |        | 9,41   | 10,24  | 11,03  | 11,78  | 12,49  | 13,16  | 13,78  | 14,36  | 14,88  | 15,76  |
| 1700   |        | 9,93   | 10,78  | 11,59  | 12,36  | 13,08  | 13,75  | 14,36  | 14,91  | 15,40  | 16,18  |
| 1800   |        |        | 11,31  | 12,14  | 12,92  | 13,63  | 14,29  | 14,88  | 15,40  | 15,85  | 16,50  |
| 1900   |        |        | 11,82  | 12,66  | 13,44  | 14,15  | 14,79  | 15,35  | 15,83  | 16,22  | 16,72  |
| 2000   |        |        | 12,32  | 13,16  | 13,93  | 14,63  | 15,24  | 15,76  | 16,18  | 16,36  | 16,82  |
| 2100   |        |        | 12,79  | 13,63  | 14,39  | 15,06  | 15,64  | 16,10  | 16,46  | 16,50  | 16,80  |
| 2200   |        |        | 13,24  | 14,08  | 14,82  | 15,46  | 15,98  | 16,39  | 16,66  | 16,70  | 16,65  |
| 2300   |        |        | 13,67  | 14,49  | 15,21  | 15,80  | 16,27  | 16,60  | 16,79  | 16,81  | 16,37  |
| 2400   |        |        | 14,08  | 14,88  | 15,56  | 16,10  | 16,50  | 16,75  | 16,82  | 16,82  | 15,96  |
| 2500   |        |        | 14,46  | 15,24  | 15,87  | 16,35  | 16,67  | 16,82  | 16,77  | 16,72  | 15,40  |
| 2600   |        |        | 14,82  | 15,56  | 16,14  | 16,55  | 16,78  | 16,81  | 16,63  | 16,53  | 16,69  |
| 2700   |        |        | 15,15  | 15,85  | 16,37  | 16,70  | 16,82  | 16,72  | 16,39  | 15,80  | 13,82  |
| 2800   |        |        |        | 16,10  | 16,55  | 16,79  | 16,80  | 16,56  | 16,05  | 15,27  | 12,79  |
| 2850   |        |        |        | 16,22  | 16,63  | 16,81  | 16,76  | 16,44  | 15,84  | 14,95  | 12,22  |
| 2900   |        |        |        | 16,32  | 16,69  | 16,82  | 16,70  | 16,30  | 15,61  | 14,61  | 11,60  |
| 3000   |        |        |        | 16,50  | 16,78  | 16,80  | 16,53  | 15,96  | 15,06  | 13,82  | 10,23  |
| 3200   |        |        |        | 16,75  | 16,81  | 16,56  | 15,96  | 14,99  | 13,63  | 11,85  |        |
| 3400   |        |        |        | 16,82  | 16,63  | 16,05  | 15,06  | 13,63  | 11,72  |        |        |
| 3600   |        |        |        | 16,72  | 16,22  | 15,27  | 13,82  | 11,85  |        |        |        |
| 3800   |        |        |        | 16,44  | 15,58  | 14,19  | 12,22  |        |        |        |        |
| 4000   |        |        |        | 15,96  | 14,69  | 12,79  | 10,23  |        |        |        |        |
| 4200   |        |        |        | 15,27  | 13,53  | 11,07  |        |        |        |        |        |
| 4400   |        |        |        | 14,36  | 12,10  |        |        |        |        |        |        |
| 4500   |        |        |        | 13,82  | 11,27  |        |        |        |        |        |        |

- Under these conditions life's reduction is expected.
- Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.
- Both of the above conditions exist.



# MEGADYNE MEGASYNC™

XXH

**BASIC PERFORMANCE Pb IN kW FOR MEGASYNC XXH - 25 mm WIDE (kW / 25 mm)**

| D (mm) | 181,91 | 202,13 | 222,34 | 242,55 | 262,76 | 303,19 | 343,62 | 404,25 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z      | 18     | 20     | 22     | 24     | 26     | 30     | 34     | 40     |
| RPM    |        |        |        |        |        |        |        |        |
| 100    | 0,98   | 1,09   | 1,19   | 1,30   | 1,41   | 1,63   | 1,84   | 2,17   |
| 200    | 1,95   | 2,17   | 2,38   | 2,60   | 2,81   | 3,24   | 3,67   | 4,31   |
| 300    | 2,92   | 3,24   | 3,57   | 3,89   | 4,21   | 4,84   | 5,47   | 6,41   |
| 400    | 3,89   | 4,31   | 4,74   | 5,16   | 5,58   | 6,41   | 7,24   | 8,45   |
| 500    | 4,84   | 5,37   | 5,89   | 6,41   | 6,93   | 7,94   | 8,94   | 10,39  |
| 600    | 5,79   | 6,41   | 7,03   | 7,64   | 8,25   | 9,43   | 10,58  | 12,22  |
| 700    | 6,72   | 7,44   | 8,15   | 8,84   | 9,53   | 10,86  | 12,13  | 13,91  |
| 725    | 6,95   | 7,69   | 8,42   | 9,14   | 9,84   | 11,20  | 12,50  | 14,31  |
| 800    | 7,64   | 8,45   | 9,23   | 10,01  | 10,76  | 12,22  | 13,58  | 15,45  |
| 900    | 8,54   | 9,43   | 10,29  | 11,13  | 11,95  | 13,50  | 14,93  | 16,80  |
| 950    | 8,99   | 9,91   | 10,81  | 11,68  | 12,52  | 14,11  | 15,55  | 17,40  |
| 1000   | 9,43   | 10,39  | 11,32  | 12,22  | 13,08  | 14,70  | 16,15  | 17,95  |
| 1100   | 10,29  | 11,32  | 12,30  | 13,25  | 14,15  | 15,80  | 17,23  | 18,88  |
| 1200   | 11,13  | 12,22  | 13,25  | 14,23  | 15,15  | 16,80  | 18,16  | 19,56  |
| 1300   | 11,95  | 13,08  | 14,15  | 15,15  | 16,08  | 17,69  | 18,92  | 19,97  |
| 1400   |        | 13,91  | 15,00  | 16,01  | 16,93  | 18,45  | 19,50  | 20,08  |
| 1425   |        | 14,11  | 15,21  | 16,22  | 17,12  | 18,62  | 19,92  | 20,06  |
| 1500   |        | 14,70  | 15,80  | 16,80  | 17,69  | 19,07  | 19,89  | 19,88  |
| 1600   |        | 15,45  | 16,55  | 17,52  | 18,35  | 19,56  | 20,07  | 19,34  |
| 1700   |        | 16,15  | 17,23  | 18,16  | 18,92  | 19,89  | 20,03  | 18,44  |
| 1800   |        | 16,80  | 17,85  | 18,71  | 19,38  | 20,06  | 19,75  | 17,15  |
| 1900   |        | 17,40  | 18,40  | 19,18  | 19,73  | 20,06  | 19,23  | 15,46  |
| 2000   |        | 17,45  | 18,88  | 19,56  | 19,97  | 19,88  | 18,44  | 13,34  |
| 2100   |        | 18,45  | 19,29  | 19,84  | 20,08  | 19,51  | 17,37  | 10,77  |
| 2200   |        | 18,88  | 19,61  | 20,01  | 20,05  | 18,93  | 16,01  |        |
| 2300   |        | 19,25  | 19,86  | 20,08  | 19,90  | 18,15  | 14,35  |        |
| 2400   |        | 19,56  | 20,01  | 20,04  | 19,60  | 17,15  | 12,37  |        |
| 2500   |        | 19,80  | 20,08  | 19,88  | 19,15  | 15,92  | 10,05  |        |
| 2600   |        | 19,97  | 20,05  | 19,60  | 18,54  | 14,46  |        |        |
| 2700   |        | 20,06  | 19,93  | 19,19  | 17,78  | 12,74  |        |        |
| 2800   |        | 20,08  | 19,71  | 18,65  | 16,85  | 10,77  |        |        |
| 2850   |        | 20,06  | 19,55  | 18,33  | 16,32  |        |        |        |
| 2900   |        | 20,02  | 19,37  | 17,97  | 15,74  |        |        |        |
| 3000   |        | 19,88  | 18,93  | 17,15  | 14,56  |        |        |        |
| 3100   |        | 19,65  | 18,38  | 16,19  | 12,99  |        |        |        |
| 3200   |        | 19,34  | 17,71  | 15,07  | 11,32  |        |        |        |
| 3300   |        | 18,89  | 16,93  | 13,80  |        |        |        |        |
| 3400   |        | 18,44  | 16,01  | 12,37  |        |        |        |        |
| 3500   |        | 17,84  | 14,97  | 10,77  |        |        |        |        |

- Under these conditions life's reduction is expected.
- Under these conditions linear speed exceeds 30 m/s, we suggest to use special pulleys.
- Both of the above conditions exist.



MEGADYNE MEGASYNC™

STD & HTB



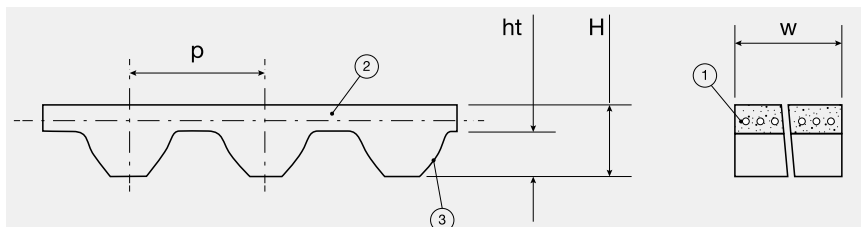
# MEGADYNE MEGASYNC™

## STD AND HTB

Megadyne MEGASYNC™ STD and HTB belts are a class of belt very widely used in several kinds of applications. These belts are made with polychloroprene compound. Special compounds with different features are available on request.

Here are some belt's characteristics.

### STD



| PITCH             |    | STD 8M |
|-------------------|----|--------|
| Pitch length (mm) | p  | 8,00   |
| Teeth height (mm) | ht | 3,05   |
| Belt height (mm)  | H  | 5,30   |

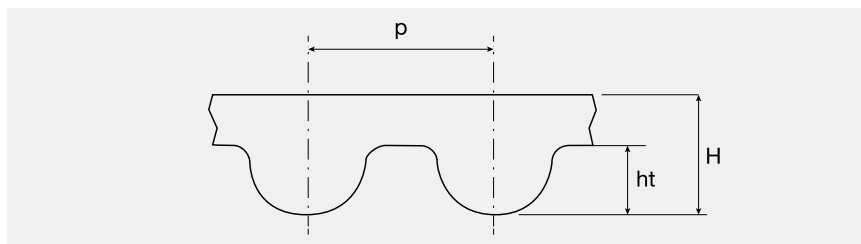
#### RESISTANCE TO: STD BELT RESISTANCE

|                      |               |
|----------------------|---------------|
| Water                | <b>Medium</b> |
| Acids / Alkalis      | <b>None</b>   |
| Solvents             | <b>None</b>   |
| Mineral oils         | <b>Low</b>    |
| Oils                 | <b>Low</b>    |
| Greases              | <b>Medium</b> |
| Fuels                | <b>None</b>   |
| Environmental agents | <b>Medium</b> |

#### OTHER FEATURES

|                   |  |
|-------------------|--|
| Temperature range | <b>Min: -25 °C</b><br><b>Max: 80 °C</b><br><b>Max peak: 100 °C</b> |
| Hardness          | <b>74 +/-4 ShA</b>   |

### HTB



| PITCH             |    | 3M   | 5M   | 8M   | 14M   |
|-------------------|----|------|------|------|-------|
| Pitch length (mm) | p  | 3,00 | 5,00 | 8,00 | 14,00 |
| Teeth height (mm) | ht | 1,21 | 2,08 | 3,38 | 6,02  |
| Belt height (mm)  | H  | 2,40 | 3,80 | 6,00 | 10,00 |

#### RESISTANCE TO: STD BELT RESISTANCE

|                      |               |
|----------------------|---------------|
| Water                | <b>Medium</b> |
| Acids / Alkalis      | <b>None</b>   |
| Solvents             | <b>None</b>   |
| Mineral oils         | <b>Low</b>    |
| Oils                 | <b>Low</b>    |
| Greases              | <b>Medium</b> |
| Fuels                | <b>None</b>   |
| Environmental agents | <b>Medium</b> |

#### OTHER FEATURES

|                   |  |
|-------------------|--|
| Temperature range | <b>Min: -25 °C</b><br><b>Max: 80 °C</b><br><b>Max peak: 100 °C</b> |
| Hardness          | <b>74 +/-4 ShA</b>   |

MEGASYNC™

# STD AND HTB - RANGE

| STD 8     |                   | HTB 3M      |                   | HTB 5M      |                   | HTB 8M      |                   | HTB 14M      |                   |
|-----------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|--------------|-------------------|
| CODE      | PITCH LENGTH (mm) | CODE        | PITCH LENGTH (mm) | CODE        | PITCH LENGTH (mm) | CODE        | PITCH LENGTH (mm) | CODE         | PITCH LENGTH (mm) |
| 656 STD8  | 656               | 171 HTB 3M  | 171               | 215 HTB 5M  | 215               | 288 HTB 8M  | 288               | 966 HTB 14M  | 966               |
| 800 STD8  | 800               | 174 HTB 3M  | 174               | 240 HTB 5M  | 240               | 480 HTB 8M  | 480               | 1064 HTB 14M | 1064              |
| 720 STD8  | 720               | 177 HTB 3M  | 177               | 270 HTB 5M  | 270               | 536 HTB 8M  | 536               | 1190 HTB 14M | 1190              |
| 760 STD8  | 760               | 216 HTB 3M  | 216               | 320 HTB 5M  | 320               | 560 HTB 8M  | 560               | 1344 HTB 14M | 1344              |
| 840 STD8  | 840               | 225 HTB 3M  | 225               | 340 HTB 5M  | 340               | 600 HTB 8M  | 600               | 1400 HTB 14M | 1400              |
| 848 STD8  | 848               | 246 HTB 3M  | 246               | 350 HTB 5M  | 350               | 616 HTB 8M  | 616               | 1456 HTB 14M | 1456              |
| 880 STD8  | 880               | 255 HTB 3M  | 255               | 355 HTB 5M  | 355               | 632 HTB 8M  | 632               | 1512 HTB 14M | 1512              |
| 896 STD8  | 896               | 264 HTB 3M  | 264               | 375 HTB 5M  | 375               | 640 HTB 8M  | 640               | 1540 HTB 14M | 1540              |
| 920 STD8  | 920               | 276 HTB 3M  | 276               | 385 HTB 5M  | 385               | 656 HTB 8M  | 656               | 1610 HTB 14M | 1610              |
| 936 STD8  | 936               | 285 HTB 3M  | 285               | 400 HTB 5M  | 400               | 720 HTB 8M  | 720               | 1764 HTB 14M | 1764              |
| 960 STD8  | 960               | 300 HTB 3M  | 300               | 420 HTB 5M  | 420               | 760 HTB 8M  | 760               | 1778 HTB 14M | 1778              |
| 976 STD8  | 976               | 306 HTB 3M  | 306               | 450 HTB 5M  | 450               | 800 HTB 8M  | 800               | 1890 HTB 14M | 1890              |
| 1000 STD8 | 1000              | 312 HTB 3M  | 312               | 475 HTB 5M  | 475               | 840 HTB 8M  | 840               | 2100 HTB 14M | 2100              |
| 1040 STD8 | 1040              | 318 HTB 3M  | 318               | 500 HTB 5M  | 500               | 856 HTB 8M  | 856               | 2310 HTB 14M | 2310              |
| 1056 STD8 | 1056              | 336 HTB 3M  | 336               | 520 HTB 5M  | 520               | 880 HTB 8M  | 880               | 2450 HTB 14M | 2450              |
| 1064 STD8 | 1064              | 375 HTB 3M  | 375               | 525 HTB 5M  | 525               | 912 HTB 8M  | 912               | 2590 HTB 14M | 2590              |
| 1080 STD8 | 1080              | 420 HTB 3M  | 420               | 535 HTB 5M  | 535               | 920 HTB 8M  | 920               | 2800 HTB 14M | 2800              |
| 1096 STD8 | 1096              | 447 HTB 3M  | 447               | 540 HTB 5M  | 540               | 960 HTB 8M  | 960               | 3150 HTB 14M | 3150              |
| 1104 STD8 | 1104              | 483 HTB 3M  | 483               | 550 HTB 5M  | 550               | 1000 HTB 8M | 1000              | 3360 HTB 14M | 3360              |
| 1120 STD8 | 1120              | 501 HTB 3M  | 501               | 560 HTB 5M  | 560               | 1040 HTB 8M | 1040              | 3500 HTB 14M | 3500              |
| 1152 STD8 | 1152              | 537 HTB 3M  | 537               | 575 HTB 5M  | 575               | 1080 HTB 8M | 1080              | 3850 HTB 14M | 3850              |
| 1160 STD8 | 1160              | 558 HTB 3M  | 558               | 615 HTB 5M  | 615               | 1120 HTB 8M | 1120              | 4326 HTB 14M | 4326              |
| 1168 STD8 | 1168              | 564 HTB 3M  | 564               | 630 HTB 5M  | 630               | 1152 HTB 8M | 1152              | 4578 HTB 14M | 4578              |
| 1184 STD8 | 1184              | 585 HTB 3M  | 585               | 635 HTB 5M  | 635               | 1200 HTB 8M | 1200              |              |                   |
| 1200 STD8 | 1200              | 633 HTB 3M  | 633               | 645 HTB 5M  | 645               | 1224 HTB 8M | 1224              |              |                   |
| 1216 STD8 | 1216              | 1002 HTB 3M | 1002              | 655 HTB 5M  | 655               | 1256 HTB 8M | 1256              |              |                   |
| 1224 STD8 | 1224              |             |                   | 670 HTB 5M  | 670               | 1280 HTB 8M | 1280              |              |                   |
| 1248 STD8 | 1248              |             |                   | 710 HTB 5M  | 710               | 1304 HTB 8M | 1304              |              |                   |
| 1256 STD8 | 1256              |             |                   | 740 HTB 5M  | 740               | 1360 HTB 8M | 1360              |              |                   |
| 1280 STD8 | 1280              |             |                   | 750 HTB 5M  | 750               | 1400 HTB 8M | 1400              |              |                   |
| 1304 STD8 | 1304              |             |                   | 770 HTB 5M  | 770               | 1440 HTB 8M | 1440              |              |                   |
| 1320 STD8 | 1320              |             |                   | 800 HTB 5M  | 800               | 1552 HTB 8M | 1552              |              |                   |
| 1328 STD8 | 1328              |             |                   | 825 HTB 5M  | 825               | 1600 HTB 8M | 1600              |              |                   |
| 1344 STD8 | 1344              |             |                   | 835 HTB 5M  | 835               | 1760 HTB 8M | 1760              |              |                   |
| 1352 STD8 | 1352              |             |                   | 850 HTB 5M  | 850               | 1800 HTB 8M | 1800              |              |                   |
| 1360 STD8 | 1360              |             |                   | 890 HTB 5M  | 890               | 2000 HTB 8M | 2000              |              |                   |
| 1384 STD8 | 1384              |             |                   | 900 HTB 5M  | 900               | 2032 HTB 8M | 2032              |              |                   |
| 1400 STD8 | 1400              |             |                   | 925 HTB 5M  | 925               | 2104 HTB 8M | 2104              |              |                   |
| 1408 STD8 | 1408              |             |                   | 950 HTB 5M  | 950               | 2240 HTB 8M | 2240              |              |                   |
| 1424 STD8 | 1424              |             |                   | 965 HTB 5M  | 965               | 2400 HTB 8M | 2400              |              |                   |
| 1440 STD8 | 1440              |             |                   | 980 HTB 5M  | 980               | 2600 HTB 8M | 2600              |              |                   |
| 1552 STD8 | 1552              |             |                   | 1000 HTB 5M | 1000              | 2800 HTB 8M | 2800              |              |                   |
| 1728 STD8 | 1728              |             |                   | 1050 HTB 5M | 1050              | 4400 HTB 8M | 4400              |              |                   |
| 1800 STD8 | 1800              |             |                   | 1145 HTB 5M | 1145              |             |                   |              |                   |
| 1912 STD8 | 1912              |             |                   | 1160 HTB 5M | 1160              |             |                   |              |                   |
| 2304 STD8 | 2304              |             |                   | 1225 HTB 5M | 1225              |             |                   |              |                   |
| 2000 STD8 | 2000              |             |                   | 1250 HTB 5M | 1250              |             |                   |              |                   |
|           |                   |             |                   | 1270 HTB 5M | 1270              |             |                   |              |                   |
|           |                   |             |                   | 1350 HTB 5M | 1350              |             |                   |              |                   |
|           |                   |             |                   | 1400 HTB 5M | 1400              |             |                   |              |                   |
|           |                   |             |                   | 1420 HTB 5M | 1420              |             |                   |              |                   |
|           |                   |             |                   | 1500 HTB 5M | 1500              |             |                   |              |                   |
|           |                   |             |                   | 1595 HTB 5M | 1595              |             |                   |              |                   |
|           |                   |             |                   | 2000 HTB 5M | 2000              |             |                   |              |                   |
|           |                   |             |                   | 2100 HTB 5M | 2100              |             |                   |              |                   |



MEGADYNE MEGASYNC™

RPP & RPP DD





# MEGADYNE MEGASYNC™

## RPP AND RPP DD

Megadyne MEGASYNC™ RPP and RPP DD belts are a high-power and high-precision class of belt. Compared to MEGASYNC™ Imperial, they can transmit more power in the same width or can allow a reduction of width to transmit the same power. This kind of belt uses a parabolic profile with the purpose to transmit more power and reduce the kind of accidents as tooth jump and to reduce noise.

The parabolic profile has a progressive pressure angle since the tooth root up to the top. This allows to have a taller tooth with the same pitch length. These two features lead to the following advantages:

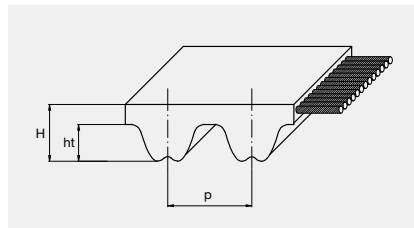
- Reduction interference between the pulley and the belt and its related wearing coming from the torque peaks;
- Less noise;
- More resistance to tooth jump and to tooth shear;
- Higher transmittable torques;
- Less pre-tension.

Looking at the tooth design, it has a groove on the top. This allows a local deformation leading to the following advantages:

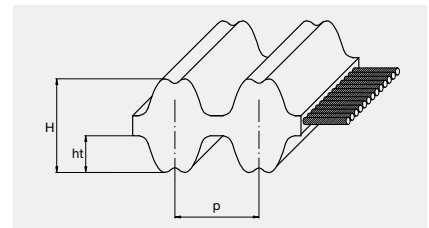
- A smoother engagement;
- A better meshing of the tooth in the pulley groove;
- A more uniform sharing of engaging teeth's stress;
- Less noise because of the smoother engagement;
- Less wearing because of the less slippage during engagement.

RPP profile have been designed even to be interchangeable with existing deep groove profiles and run on pulleys according to ISO 13050.

### RPP



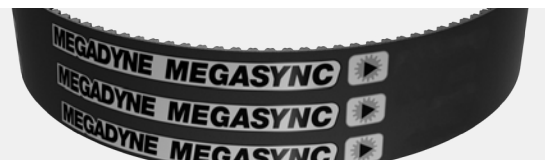
### RPP DD



| PITCH             |    | RPP3 | RPP5 | RPP8 | RPP14 | RPP5 DD | RPP8 DD | RPP14 DD |
|-------------------|----|------|------|------|-------|---------|---------|----------|
| Pitch length (mm) | p  | 3,00 | 5,00 | 8,00 | 14,00 | 5,00    | 8,00    | 14,00    |
| Teeth height (mm) | ht | 1,15 | 2,00 | 3,20 | 6,00  | 2,00    | 3,20    | 5,70     |
| Belt height (mm)  | H  | 2,40 | 3,80 | 5,40 | 9,70  | 5,20    | 7,80    | 14,00    |

| RESISTANCE TO:       | STD BELT RESISTANCE |
|----------------------|---------------------|
| Water                | <b>Medium</b>       |
| Acids / Alkalis      | <b>None</b>         |
| Solvents             | <b>None</b>         |
| Mineral oils         | <b>Low</b>          |
| Oils                 | <b>Low</b>          |
| Greases              | <b>Medium</b>       |
| Fuels                | <b>None</b>         |
| Environmental agents | <b>Medium</b>       |

| OTHER FEATURES    |   |
|-------------------|---|
| Temperature range | <b>Min: -25 °C</b><br><b>Max: 80 °C</b> |
|                   | <b>Max peak: 100 °C</b>                 |
| Hardness          | <b>74 +/-4 ShA</b>                      |



# MEGADYNE MEGASYNC™

## RPP AND RPP DD

### STANDARD TOLERANCES

| WIDTH TOLERANCES |        |                         |                          |                |
|------------------|--------|-------------------------|--------------------------|----------------|
| BELT WIDTH (mm)  |        | TOLERANCE ON BELT WIDTH |                          |                |
|                  |        | BELT LENGTH (mm)        |                          |                |
| MORE THAN        | UP TO  | UP TO 838               | MORE THAN 838 UP TO 1676 | MORE THAN 1676 |
| -                | 11,10  | +0,5 / -0,8             | +0,5 / 0,8               | -              |
| 11,10            | 38,10  | ±0,8                    | +0,8 / -1,3              | +0,8 / -1,3    |
| 38,10            | 50,80  | +0,8 / -1,3             | ±1,3                     | +1,3 / -1,5    |
| 50,80            | 76,20  | +1,3 / -1,5             | ±1,5                     | +1,5 / -2,0    |
| 76,20            | 170,00 | +1,3 / -1,5             | +1,3 / -2,0              | ±2,0           |

| LENGTH TOLERANCES |       |  |  |
|-------------------|-------|--|--|
| BELT LENGTH [mm]  |       | TOLERANCE (mm)   | CENTER DISTANCE TOLERANCE (mm)   |
| MORE THAN         | UP TO |  |  |
| 254               | 381   | ±0,45  | ±0,225   |
| 381               | 508   | ±0,50  | ±0,250   |
| 508               | 762   | ±0,60  | ±0,300   |
| 762               | 991   | ±0,65  | ±0,325   |
| 991               | 1,220 | ±0,75  | ±0,375   |
| 1,220             | 1,524 | ±0,80  | ±0,400   |
| 1,524             | 1,778 | ±0,85  | ±0,425   |
| 1,778             | 2,032 | ±0,90  | ±0,450   |
| 2,032             | 2,286 | ±0,95  | ±0,475   |
| over 2,286        |       | $\pm \left[ 0,95 + \left( \frac{L - 2286}{254} \cdot 0,03 \right) \right]$ | $\pm \left[ 0,475 + \left( \frac{L - 2286}{254} \cdot 0,015 \right) \right]$ |

| THICKNESS TOLERANCES |                             |                       |         |         |
|----------------------|-----------------------------|-----------------------|---------|---------|
| PITCH                | NOMINAL BELT THICKNESS (mm) | TOLERANCE DEGREE (mm) |         |         |
|                      |                             | STANDARD BELT         | GRADE 2 | GRADE 1 |
| RPP3                 | 2,40                        | ±0,60                 | ±0,25   | ±0,15   |
| RPP5                 | 3,80                        | ±0,60                 | ±0,25   | ±0,15   |
| RPP8                 | 5,40                        | ±0,60                 | ±0,25   | ±0,15   |
| RPP14                | 9,70                        | ±0,60                 | ±0,25   | ±0,15   |

For specific application, where you might require different tolerances, please contact our Application Department.

| STANDARD WIDTHS  |                  |   |    |    |    |    |    |    |    |    |     |     |
|------------------|------------------|---|----|----|----|----|----|----|----|----|-----|-----|
| PITCH            | BELT WIDTHS (mm) |   |    |    |    |    |    |    |    |    |     |     |
|                  | 6                | 9 | 15 | 20 | 25 | 30 | 40 | 50 | 55 | 85 | 115 | 170 |
| RPP3             | •                | • | •  |    |    |    |    |    |    |    |     |     |
| RPP5 / RPP5 DD   |                  | • | •  |    | •  |    |    |    |    |    |     |     |
| RPP8 / RPP8 DD   |                  |   |    | •  |    | •  |    | •  |    | •  |     |     |
| RPP14 / RPP14 DD |                  |   |    |    |    |    | •  |    | •  | •  | •   | •   |

# RPP AND RPP DD - RANGE

| RRP3     |                   |
|----------|-------------------|
| CODE     | PITCH LENGTH (mm) |
| 90 RPP3  | 90                |
| 105 RPP3 | 105               |
| 129 RPP3 | 129               |
| 141 RPP3 | 141               |
| 144 RPP3 | 144               |
| 147 RPP3 | 147               |
| 150 RPP3 | 150               |
| 159 RPP3 | 159               |
| 168 RPP3 | 168               |
| 174 RPP3 | 174               |
| 177 RPP3 | 177               |
| 180 RPP3 | 180               |
| 186 RPP3 | 186               |
| 195 RPP3 | 195               |
| 201 RPP3 | 201               |
| 204 RPP3 | 204               |
| 210 RPP3 | 210               |
| 213 RPP3 | 213               |
| 225 RPP3 | 225               |
| 231 RPP3 | 231               |
| 240 RPP3 | 240               |
| 243 RPP3 | 243               |
| 246 RPP3 | 246               |
| 249 RPP3 | 249               |
| 252 RPP3 | 252               |
| 255 RPP3 | 255               |
| 261 RPP3 | 261               |
| 264 RPP3 | 264               |
| 267 RPP3 | 267               |
| 270 RPP3 | 270               |
| 276 RPP3 | 276               |
| 285 RPP3 | 285               |
| 288 RPP3 | 288               |
| 291 RPP3 | 291               |
| 297 RPP3 | 297               |
| 300 RPP3 | 300               |
| 312 RPP3 | 312               |
| 318 RPP3 | 318               |
| 327 RPP3 | 327               |
| 327 RPP3 | 330               |
| 330 RPP3 | 330               |
| 333 RPP3 | 333               |
| 336 RPP3 | 336               |
| 339 RPP3 | 339               |
| 345 RPP3 | 345               |
| 351 RPP3 | 351               |
| 357 RPP3 | 357               |
| 363 RPP3 | 363               |
| 375 RPP3 | 375               |
| 384 RPP3 | 384               |
| 390 RPP3 | 390               |
| 393 RPP3 | 393               |
| 405 RPP3 | 405               |
| 420 RPP3 | 420               |
| 423 RPP3 | 423               |
| 432 RPP3 | 432               |
| 447 RPP3 | 447               |
| 474 RPP3 | 474               |
| 480 RPP3 | 480               |
| 486 RPP3 | 486               |
| 489 RPP3 | 489               |
| 495 RPP3 | 495               |
| 501 RPP3 | 501               |
| 510 RPP3 | 510               |
| 513 RPP3 | 513               |
| 522 RPP3 | 522               |
| 531 RPP3 | 531               |
| 537 RPP3 | 537               |
| 564 RPP3 | 564               |
| 570 RPP3 | 570               |
| 573 RPP3 | 573               |
| 576 RPP3 | 576               |
| 579 RPP3 | 579               |
| 582 RPP3 | 582               |
| 597 RPP3 | 597               |
| 600 RPP3 | 600               |
| 633 RPP3 | 633               |
| 648 RPP3 | 648               |
| 669 RPP3 | 669               |
| 711 RPP3 | 711               |
| 735 RPP3 | 735               |

| RRP3      |                   |
|-----------|-------------------|
| CODE      | PITCH LENGTH (mm) |
| 738 RPP3  | 738               |
| 747 RPP3  | 747               |
| 756 RPP3  | 756               |
| 804 RPP3  | 804               |
| 882 RPP3  | 882               |
| 945 RPP3  | 945               |
| 1062 RPP3 | 1062              |
| 1125 RPP3 | 1125              |
| 1245 RPP3 | 1245              |
| 1263 RPP3 | 1263              |
| 1500 RPP3 | 1500              |
| 1530 RPP3 | 1530              |
| 1863 RPP3 | 1863              |

| RPP5      |                   |
|-----------|-------------------|
| CODE      | PITCH LENGTH (mm) |
| 180 RPP5  | 180               |
| 225 RPP5  | 225               |
| 235 RPP5  | 235               |
| 245 RPP5  | 245               |
| 255 RPP5  | 255               |
| 265 RPP5  | 265               |
| 270 RPP5  | 270               |
| 280 RPP5  | 280               |
| 285 RPP5  | 285               |
| 295 RPP5  | 295               |
| 300 RPP5  | 300               |
| 305 RPP5  | 305               |
| 325 RPP5  | 325               |
| 330 RPP5  | 330               |
| 345 RPP5  | 345               |
| 350 RPP5  | 350               |
| 375 RPP5  | 375               |
| 400 RPP5  | 400               |
| 420 RPP5  | 420               |
| 425 RPP5  | 425               |
| 450 RPP5  | 450               |
| 455 RPP5  | 455               |
| 460 RPP5  | 460               |
| 465 RPP5  | 465               |
| 475 RPP5  | 475               |
| 500 RPP5  | 500               |
| 525 RPP5  | 525               |
| 535 RPP5  | 535               |
| 565 RPP5  | 565               |
| 575 RPP5  | 575               |
| 580 RPP5  | 580               |
| 600 RPP5  | 600               |
| 610 RPP5  | 610               |
| 615 RPP5  | 615               |
| 635 RPP5  | 635               |
| 640 RPP5  | 640               |
| 650 RPP5  | 650               |
| 670 RPP5  | 670               |
| 675 RPP5  | 675               |
| 700 RPP5  | 700               |
| 705 RPP5  | 705               |
| 710 RPP5  | 710               |
| 725 RPP5  | 725               |
| 740 RPP5  | 740               |
| 750 RPP5  | 750               |
| 755 RPP5  | 755               |
| 800 RPP5  | 800               |
| 835 RPP5  | 835               |
| 850 RPP5  | 850               |
| 890 RPP5  | 890               |
| 900 RPP5  | 900               |
| 935 RPP5  | 935               |
| 940 RPP5  | 940               |
| 950 RPP5  | 950               |
| 980 RPP5  | 980               |
| 1000 RPP5 | 1000              |
| 1025 RPP5 | 1025              |
| 1050 RPP5 | 1050              |
| 1100 RPP5 | 1100              |

| RPP5      |                   |
|-----------|-------------------|
| CODE      | PITCH LENGTH (mm) |
| 1125 RPP5 | 1125              |
| 1135 RPP5 | 1135              |
| 1195 RPP5 | 1195              |
| 1200 RPP5 | 1200              |
| 1240 RPP5 | 1240              |
| 1270 RPP5 | 1270              |
| 1420 RPP5 | 1420              |
| 1500 RPP5 | 1500              |
| 1595 RPP5 | 1595              |
| 1605 RPP5 | 1605              |
| 1690 RPP5 | 1690              |
| 1790 RPP5 | 1790              |
| 1800 RPP5 | 1800              |
| 1870 RPP5 | 1870              |
| 1895 RPP5 | 1895              |
| 1945 RPP5 | 1945              |
| 2000 RPP5 | 2000              |
| 2250 RPP5 | 2250              |
| 2350 RPP5 | 2350              |
| 2525 RPP5 | 2525              |

| RPP8      |                   |
|-----------|-------------------|
| CODE      | PITCH LENGTH (mm) |
| 248 RPP8  | 248               |
| 288 RPP8  | 288               |
| 320 RPP8  | 320               |
| 352 RPP8  | 352               |
| 360 RPP8  | 360               |
| 376 RPP8  | 376               |
| 384 RPP8  | 384               |
| 408 RPP8  | 408               |
| 416 RPP8  | 416               |
| 424 RPP8  | 424               |
| 456 RPP8  | 456               |
| 480 RPP8  | 480               |
| 536 RPP8  | 536               |
| 544 RPP8  | 544               |
| 560 RPP8  | 560               |
| 600 RPP8  | 600               |
| 608 RPP8  | 608               |
| 632 RPP8  | 632               |
| 640 RPP8  | 640               |
| 680 RPP8  | 680               |
| 720 RPP8  | 720               |
| 760 RPP8  | 760               |
| 800 RPP8  | 800               |
| 840 RPP8  | 840               |
| 880 RPP8  | 880               |
| 896 RPP8  | 896               |
| 920 RPP8  | 920               |
| 960 RPP8  | 960               |
| 976 RPP8  | 976               |
| 992 RPP8  | 992               |
| 1000 RPP8 | 1000              |
| 1040 RPP8 | 1040              |
| 1064 RPP8 | 1064              |
| 1080 RPP8 | 1080              |
| 1120 RPP8 | 1120              |
| 1160 RPP8 | 1160              |
| 1200 RPP8 | 1200              |
| 1224 RPP8 | 1224              |
| 1280 RPP8 | 1280              |
| 1344 RPP8 | 1344              |
| 1352 RPP8 | 1352              |
| 1424 RPP8 | 1424              |
| 1440 RPP8 | 1440              |
| 1464 RPP8 | 1464              |
| 1512 RPP8 | 1512              |
| 1544 RPP8 | 1544              |
| 1584 RPP8 | 1584              |
| 1600 RPP8 | 1600              |
| 1680 RPP8 | 1680              |
| 1760 RPP8 | 1760              |
| 1792 RPP8 | 1792              |
| 1800 RPP8 | 1800              |

| RPP8      |                   |
|-----------|-------------------|
| CODE      | PITCH LENGTH (mm) |
| 1904 RPP8 | 1904              |
| 2000 RPP8 | 2000              |
| 2200 RPP8 | 2200              |
| 2240 RPP8 | 2240              |
| 2272 RPP8 | 2272              |
| 2400 RPP8 | 2400              |
| 2520 RPP8 | 2520              |
| 2600 RPP8 | 2600              |
| 2800 RPP8 | 2800              |
| 2840 RPP8 | 2840              |
| 3048 RPP8 | 3048              |
| 3200 RPP8 | 3200              |
| 3280 RPP8 | 3280              |
| 3600 RPP8 | 3600              |
| 4000 RPP8 | 4000              |
| 4400 RPP8 | 4400              |

| RPP14      |                   |
|------------|-------------------|
| CODE       | PITCH LENGTH (mm) |
| 966 RPP14  | 966               |
| 994 RPP14  | 994               |
| 1092 RPP14 | 1092              |
| 1106 RPP14 | 1106              |
| 1120 RPP14 | 1120              |
| 1190 RPP14 | 1190              |
| 1260 RPP14 | 1260              |
| 1288 RPP14 | 1288              |
| 1344 RPP14 | 1344              |
| 1400 RPP14 | 1400              |
| 1442 RPP14 | 1442              |
| 1512 RPP14 | 1512              |
| 1568 RPP14 | 1568              |
| 1610 RPP14 | 1610              |
| 1750 RPP14 | 1750              |
| 1764 RPP14 | 1764              |
| 1778 RPP14 | 1778              |
| 1848 RPP14 | 1848              |
| 1890 RPP14 | 1890              |
| 1904 RPP14 | 1904              |
| 1960 RPP14 | 1960              |
| 2100 RPP14 | 2100              |
| 2240 RPP14 | 2240              |
| 2310 RPP14 | 2310              |
| 2380 RPP14 | 2380              |
| 2450 RPP14 | 2450              |
| 2520 RPP14 | 2520              |
| 2590 RPP14 | 2590              |
| 2660 RPP14 | 2660              |
| 2800 RPP14 | 2800              |
| 2968 RPP14 | 2968              |
| 3136 RPP14 | 3136              |
| 3150 RPP14 | 3150              |
| 3304 RPP14 | 3304              |
| 3360 RPP14 | 3360              |
| 3500 RPP14 | 3500              |
| 3850 RPP14 | 3850              |
| 3920 RPP14 | 3920              |
| 4326 RPP14 | 4326              |
| 4410 RPP14 | 4410              |
| 4578 RPP14 | 4578              |
| 4956 RPP14 | 4956              |

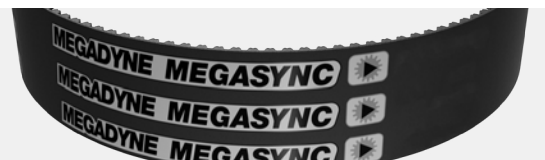
| RPP5 DD     |                   |
|-------------|-------------------|
| CODE        | PITCH LENGTH (mm) |
| 600 RPP5 DD | 600               |
| 610 RPP5 DD | 610               |
| 615 RPP5 DD | 615               |
| 635 RPP5 DD | 635               |
| 640 RPP5 DD | 640               |

| RPP5 DD      |                   |
|--------------|-------------------|
| CODE         | PITCH LENGTH (mm) |
| 650 RPP5 DD  | 650               |
| 670 RPP5 DD  | 670               |
| 675 RPP5 DD  | 675               |
| 700 RPP5 DD  | 700               |
| 705 RPP5 DD  | 705               |
| 710 RPP5 DD  | 710               |
| 725 RPP5 DD  | 725               |
| 740 RPP5 DD  | 740               |
| 750 RPP5 DD  | 750               |
| 755 RPP5 DD  | 755               |
| 800 RPP5 DD  | 800               |
| 835 RPP5 DD  | 835               |
| 850 RPP5 DD  | 850               |
| 890 RPP5 DD  | 890               |
| 900 RPP5 DD  | 900               |
| 935 RPP5 DD  | 935               |
| 940 RPP5 DD  | 940               |
| 950 RPP5 DD  | 950               |
| 980 RPP5 DD  | 980               |
| 1000 RPP5 DD | 1000              |
| 1025 RPP5 DD | 1025              |
| 1050 RPP5 DD | 1050              |
| 1100 RPP5 DD | 1100              |
| 1125 RPP5 DD | 1125              |
| 1135 RPP5 DD | 1135              |
| 1195 RPP5 DD | 1195              |
| 1200 RPP5 DD | 1200              |
| 1240 RPP5 DD | 1240              |
| 1270 RPP5 DD | 1270              |
| 1420 RPP5 DD | 1420              |
| 1500 RPP5 DD | 1500              |
| 1595 RPP5 DD | 1595              |
| 1605 RPP5 DD | 1605              |
| 1690 RPP5 DD | 1690              |
| 1790 RPP5 DD | 1790              |
| 1800 RPP5 DD | 1800              |
| 1870 RPP5 DD | 1870              |
| 1895 RPP5 DD | 1895              |
| 1945 RPP5 DD | 1945              |
| 2000 RPP5 DD | 2000              |
| 2250 RPP5 DD | 2250              |
| 2350 RPP5 DD | 2350              |
| 2525 RPP5 DD | 2525              |

| RPP8 DD      |                   |
|--------------|-------------------|
| CODE         | PITCH LENGTH (mm) |
| 600 RPP8 DD  | 600               |
| 608 RPP8 DD  | 608               |
| 632 RPP8 DD  | 632               |
| 640 RPP8 DD  | 640               |
| 680 RPP8 DD  | 680               |
| 720 RPP8 DD  | 720               |
| 800 RPP8 DD  | 800               |
| 840 RPP8 DD  | 840               |
| 880 RPP8 DD  | 880               |
| 896 RPP8 DD  | 896               |
| 920 RPP8 DD  | 920               |
| 960 RPP8 DD  | 960               |
| 1000 RPP8 DD | 1000              |
| 1040 RPP8 DD | 1040              |
| 1080 RPP8 DD | 1080              |
| 1120 RPP8 DD | 1120              |
| 1160 RPP8 DD | 1160              |
| 1200 RPP8 DD | 1200              |
| 1224 RPP8 DD | 1224              |
| 1280 RPP8 DD | 1280              |
| 1352 RPP8 DD | 1352              |
| 1424 RPP8 DD | 1424              |
| 1440 RPP8 DD | 1440              |
| 1464 RPP8 DD | 1464              |
| 1600 RPP8 DD | 1600              |
| 1680 RPP8 DD | 1680              |
| 1760 RPP8 DD | 1760              |
| 1792 RPP8 DD | 1792              |
| 1800 RPP8 DD | 1800              |

| RPP8 DD      |                   |
|--------------|-------------------|
| CODE         | PITCH LENGTH (mm) |
| 1904 RPP8 DD | 1904              |
| 2000 RPP8 DD | 2000              |
| 2200 RPP8 DD | 2200              |
| 2240 RPP8 DD | 2240              |
| 2272 RPP8 DD | 2272              |
| 2400 RPP8 DD | 2400              |
| 2520 RPP8 DD | 2520              |
| 2600 RPP8 DD | 2600              |
| 2800 RPP8 DD | 2800              |
| 2840 RPP8 DD | 2840              |
| 3048 RPP8 DD | 3048              |
| 3200 RPP8 DD | 3200              |
| 3280 RPP8 DD | 3280              |
| 3600 RPP8 DD | 3600              |
| 4000 RPP8 DD | 4000              |
| 4400 RPP8 DD | 4400              |

| RPP14 DD      |                   |
|---------------|-------------------|
| CODE          | PITCH LENGTH (mm) |
| 966 RPP14 DD  | 966               |
| 994 RPP14 DD  | 994               |
| 1092 RPP14 DD | 1092              |
| 1106 RPP14 DD | 1106              |
| 1120 RPP14 DD | 1120              |
| 1190 RPP14 DD | 1190              |
| 1260 RPP14 DD | 1260              |
| 1288 RPP14 DD | 1288              |
| 1344 RPP14 DD | 1344              |
| 1400 RPP14 DD | 1400              |
| 1442 RPP14 DD | 1442              |
| 1512 RPP14 DD | 1512              |
| 1568 RPP14 DD | 1568              |
| 1610 RPP14 DD | 1610              |
| 1750 RPP14 DD | 1750              |
| 1764 RPP14 DD | 1764              |
| 1778 RPP14 DD | 1778              |
| 1848 RPP14 DD | 1848              |
| 1890 RPP14 DD | 1890              |
| 1904 RPP14 DD | 1904              |
| 1960 RPP14 DD | 1960              |
| 2100 RPP14 DD | 2100              |
| 2240 RPP14 DD | 2240              |
| 2310 RPP14 DD | 2310              |
| 2380 RPP14 DD | 2380              |
| 2450 RPP14 DD | 2450              |
| 2520 RPP14 DD | 2520              |
| 2590 RPP14 DD | 2590              |
| 2660 RPP14 DD | 2660              |
| 2800 RPP14 DD | 2800              |
| 2968 RPP14 DD | 2968              |
| 3136 RPP14 DD | 3136              |
| 3150 RPP14 DD | 3150              |
| 3304 RPP14 DD | 3304              |
| 3360 RPP14 DD | 3360              |
| 3500 RPP14 DD | 3500              |
| 3850 RPP14 DD | 3850              |
| 3920 RPP14 DD | 3920              |
| 4326 RPP14 DD | 4326              |
| 4410 RPP14 DD | 4410              |
| 4578 RPP14 DD | 4578              |
| 4956 RPP14 DD | 4956              |

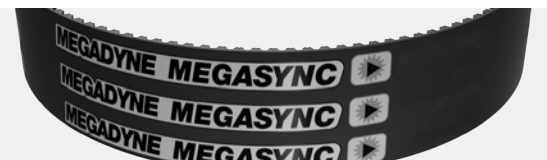


# MEGADYNE MEGASYNC™

## RPP3

**BASIC PERFORMANCE Pb IN W FOR MEGASYNC RPP3 - 6 mm WIDE (W / 6 mm)**

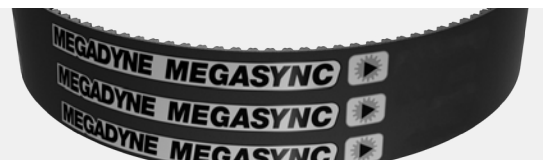
| D (mm) | 9,55 | 11,46 | 13,37 | 15,28 | 17,19 | 19,10 | 22,92 | 26,74 | 30,56 | 38,2 | 45,84 | 53,48 | 61,12 | 68,75 | 76,39 |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| Z      | 10   | 12    | 14    | 16    | 18    | 20    | 24    | 28    | 32    | 40   | 48    | 56    | 64    | 72    | 80    |
| RPM    |      |       |       |       |       |       |       |       |       |      |       |       |       |       |       |
| 10     | 1    | 1     | 1     | 1     | 2     | 2     | 2     | 3     | 3     | 4    | 5     | 6     | 8     | 9     | 10    |
| 20     | 1    | 2     | 2     | 2     | 3     | 3     | 4     | 5     | 6     | 7    | 9     | 11    | 13    | 15    | 17    |
| 30     | 2    | 2     | 3     | 3     | 4     | 4     | 5     | 6     | 7     | 10   | 12    | 15    | 17    | 20    | 22    |
| 50     | 3    | 3     | 4     | 5     | 5     | 6     | 8     | 9     | 11    | 14   | 18    | 21    | 25    | 29    | 33    |
| 70     | 3    | 4     | 5     | 6     | 7     | 8     | 10    | 12    | 14    | 18   | 23    | 28    | 32    | 37    | 42    |
| 100    | 5    | 6     | 7     | 8     | 9     | 10    | 13    | 16    | 18    | 24   | 30    | 36    | 42    | 49    | 55    |
| 200    | 8    | 10    | 11    | 13    | 16    | 18    | 22    | 26    | 31    | 40   | 50    | 61    | 71    | 82    | 93    |
| 300    | 10   | 13    | 16    | 18    | 21    | 24    | 30    | 36    | 42    | 55   | 68    | 82    | 96    | 111   | 126   |
| 400    | 13   | 16    | 19    | 23    | 26    | 30    | 37    | 44    | 62    | 80   | 100   | 120   | 141   | 163   | 185   |
| 500    | 15   | 19    | 23    | 27    | 31    | 35    | 44    | 52    | 71    | 92   | 115   | 138   | 162   | 187   | 212   |
| 600    | 17   | 22    | 26    | 31    | 35    | 40    | 50    | 60    | 79    | 103  | 129   | 155   | 182   | 209   | 237   |
| 700    | 20   | 24    | 29    | 34    | 40    | 45    | 56    | 67    | 87    | 114  | 142   | 171   | 201   | 231   | 262   |
| 800    | 22   | 27    | 32    | 38    | 44    | 50    | 62    | 75    | 96    | 125  | 155   | 187   | 219   | 253   | 286   |
| 900    | 24   | 29    | 35    | 42    | 48    | 54    | 68    | 81    | 103   | 135  | 168   | 202   | 237   | 273   | 310   |
| 1000   | 26   | 32    | 38    | 45    | 52    | 59    | 73    | 88    | 111   | 145  | 181   | 217   | 255   | 293   | 332   |
| 1100   | 28   | 34    | 41    | 48    | 56    | 63    | 79    | 95    | 119   | 155  | 193   | 232   | 272   | 313   | 355   |
| 1200   | 29   | 37    | 44    | 52    | 59    | 67    | 84    | 101   | 126   | 164  | 204   | 246   | 288   | 332   | 376   |
| 1300   | 31   | 39    | 47    | 55    | 63    | 72    | 89    | 107   | 133   | 174  | 216   | 260   | 305   | 351   | 397   |
| 1400   | 33   | 41    | 49    | 58    | 67    | 76    | 94    | 113   | 140   | 183  | 227   | 273   | 321   | 369   | 418   |
| 1500   | 35   | 43    | 52    | 61    | 70    | 80    | 99    | 119   | 147   | 192  | 239   | 287   | 336   | 387   | 438   |
| 1600   | 36   | 45    | 55    | 64    | 74    | 84    | 104   | 125   | 154   | 201  | 250   | 300   | 352   | 404   | 458   |
| 1700   | 38   | 47    | 57    | 67    | 77    | 88    | 109   | 131   | 160   | 209  | 260   | 313   | 367   | 422   | 477   |
| 1800   | 40   | 50    | 60    | 70    | 81    | 91    | 114   | 137   | 167   | 218  | 271   | 326   | 381   | 438   | 496   |
| 1900   | 41   | 52    | 62    | 73    | 84    | 95    | 118   | 142   | 174   | 227  | 281   | 338   | 396   | 455   | 515   |
| 2000   | 43   | 54    | 64    | 76    | 87    | 99    | 123   | 148   | 199   | 259  | 322   | 386   | 452   | 519   | 586   |
| 2400   | 49   | 61    | 74    | 87    | 100   | 113   | 141   | 169   | 223   | 290  | 360   | 431   | 504   | 578   | 652   |
| 2800   | 55   | 69    | 83    | 97    | 112   | 127   | 158   | 190   | 246   | 320  | 396   | 474   | 553   | 633   | 713   |
| 3200   | 61   | 76    | 92    | 108   | 124   | 140   | 174   | 210   | 268   | 348  | 430   | 514   | 599   | 684   | 768   |
| 3600   | 67   | 83    | 100   | 117   | 135   | 153   | 190   | 229   | 289   | 375  | 463   | 552   | 642   | 731   | 819   |
| 4000   | 72   | 90    | 108   | 127   | 146   | 166   | 206   | 247   | 338   | 438  | 538   | 637   | 735   | 830   | 922   |
| 5000   | 85   | 106   | 128   | 150   | 172   | 195   | 242   | 290   | 384   | 493  | 602   | 707   | 808   | 903   | 989   |
| 6000   | 98   | 122   | 146   | 171   | 197   | 223   | 275   | 329   | 425   | 542  | 655   | 762   | 859   | 945   | 1017  |
| 7000   | 110  | 136   | 163   | 191   | 220   | 248   | 307   | 366   | 462   | 584  | 697   | 799   | 886   | 954   | 999   |
| 8000   | 121  | 150   | 180   | 210   | 241   | 273   | 336   | 399   | 522   | 644  | 745   | 818   | 858   | 858   | 813   |
| 10000  | 142  | 176   | 211   | 246   | 281   | 316   | 387   | 456   | 564   | 670  | 736   | 752   | 706   | 588   |       |
| 12000  | 162  | 200   | 239   | 277   | 316   | 354   | 429   | 499   | 585   | 685  | 664   | 586   |       |       |       |
| 14000  | 180  | 222   | 264   | 305   | 346   | 386   | 461   | 528   |       |      |       |       |       |       |       |



# MEGADYNE MEGASYNC™

## RPP5 - RPP5 DD

| BASIC PERFORMANCE P <sub>b</sub> IN W FOR MEGASYNC RPP5 AND RPP5 DD - 9 mm WIDE (W / 9 mm) |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| D (mm)   | 22,28 | 25,46 | 28,65 | 31,83 | 38,20 | 44,56 | 50,93 | 63,66 | 76,39 | 89,13 | 101,86 | 114,59 | 127,32 | 114,59 | 127,32 |
| Z  | 14    | 16    | 18    | 20    | 24    | 28    | 32    | 36    | 40    | 44    | 48     | 56     | 64     | 72     | 80     |
| RPM  |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |
| 10   | 5     | 6     | 7     | 7     | 9     | 11    | 13    | 15    | 17    | 19    | 21     | 26     | 30     | 35     | 39     |
| 20   | 8     | 10    | 11    | 13    | 16    | 19    | 22    | 25    | 29    | 32    | 36     | 43     | 51     | 58     | 66     |
| 30   | 11    | 13    | 15    | 17    | 21    | 25    | 30    | 34    | 39    | 44    | 49     | 59     | 69     | 79     | 90     |
| 50   | 16    | 19    | 22    | 25    | 31    | 37    | 44    | 51    | 57    | 64    | 71     | 86     | 101    | 116    | 132    |
| 70   | 21    | 25    | 28    | 32    | 40    | 48    | 56    | 65    | 74    | 83    | 92     | 110    | 130    | 149    | 169    |
| 100  | 27    | 32    | 37    | 42    | 52    | 63    | 74    | 85    | 96    | 108   | 120    | 144    | 169    | 195    | 221    |
| 200  | 46    | 54    | 62    | 71    | 88    | 106   | 124   | 143   | 162   | 182   | 202    | 243    | 285    | 328    | 372    |
| 300  | 62    | 73    | 84    | 96    | 119   | 143   | 168   | 194   | 220   | 246   | 273    | 329    | 386    | 445    | 504    |
| 400  | 77    | 91    | 105   | 119   | 148   | 178   | 209   | 240   | 273   | 306   | 339    | 408    | 479    | 551    | 626    |
| 500  | 91    | 107   | 124   | 140   | 175   | 210   | 247   | 284   | 322   | 361   | 401    | 482    | 566    | 652    | 739    |
| 600  | 105   | 123   | 142   | 161   | 200   | 241   | 283   | 325   | 369   | 414   | 459    | 553    | 648    | 747    | 847    |
| 700  | 118   | 138   | 159   | 181   | 225   | 270   | 317   | 365   | 414   | 465   | 516    | 620    | 727    | 837    | 950    |
| 800  | 130   | 153   | 176   | 200   | 248   | 299   | 351   | 404   | 458   | 513   | 570    | 685    | 803    | 925    | 1048   |
| 900  | 142   | 167   | 192   | 218   | 271   | 326   | 383   | 441   | 500   | 560   | 622    | 748    | 877    | 1009   | 1143   |
| 1000   | 154   | 180   | 208   | 236   | 293   | 353   | 414   | 477   | 541   | 606   | 673    | 808    | 948    | 1090   | 1235   |
| 1100   | 165   | 194   | 223   | 253   | 315   | 379   | 445   | 519   | 581   | 651   | 722    | 867    | 1017   | 1169   | 1324   |
| 1200   | 176   | 207   | 238   | 270   | 336   | 404   | 474   | 546   | 619   | 694   | 770    | 925    | 1084   | 1246   | 1410   |
| 1300   | 187   | 220   | 253   | 287   | 357   | 429   | 504   | 580   | 657   | 736   | 817    | 981    | 1149   | 1320   | 1494   |
| 1400   | 198   | 232   | 267   | 303   | 377   | 454   | 532   | 612   | 694   | 778   | 862    | 1035   | 1212   | 1392   | 1575   |
| 1500   | 208   | 244   | 281   | 319   | 397   | 477   | 560   | 644   | 713   | 818   | 907    | 1089   | 1274   | 1463   | 1654   |
| 1600   | 219   | 256   | 295   | 335   | 417   | 501   | 587   | 676   | 776   | 858   | 951    | 1141   | 1335   | 1531   | 1731   |
| 1700   | 229   | 268   | 309   | 351   | 436   | 524   | 614   | 707   | 801   | 897   | 994    | 1192   | 1393   | 1598   | 1805   |
| 1800   | 239   | 280   | 322   | 366   | 455   | 547   | 641   | 737   | 835   | 935   | 1036   | 1241   | 1451   | 1663   | 1877   |
| 1900   | 249   | 292   | 336   | 381   | 473   | 569   | 667   | 767   | 869   | 972   | 1077   | 1290   | 1507   | 1726   | 1947   |
| 2000   | 258   | 303   | 349   | 396   | 492   | 591   | 692   | 796   | 902   | 1009  | 1117   | 1338   | 1562   | 1787   | 2014   |
| 2400   | 296   | 347   | 399   | 453   | 563   | 675   | 791   | 909   | 1028  | 1149  | 1271   | 1518   | 1767   | 2015   | 2263   |
| 2800   | 332   | 389   | 448   | 507   | 630   | 755   | 884   | 1014  | 1146  | 1279  | 1413   | 1682   | 1950   | 2215   | 2476   |
| 3200   | 366   | 429   | 494   | 559   | 694   | 831   | 971   | 1113  | 1256  | 1400  | 1543   | 1830   | 2112   | 2387   | 2652   |
| 3600   | 399   | 468   | 538   | 609   | 755   | 903   | 1054  | 1206  | 1359  | 1511  | 1663   | 1962   | 2252   | 2528   | 2789   |
| 4000   | 432   | 505   | 581   | 657   | 813   | 972   | 1132  | 1293  | 1453  | 1613  | 1770   | 2077   | 2368   | 2638   | 2883   |
| 5000   | 508   | 594   | 681   | 769   | 948   | 1128  | 1307  | 1484  | 1657  | 1825  | 1886   | 2286   | 2547   | 2759   |        |
| 6000   | 578   | 675   | 773   | 871   | 1068  | 1262  | 1452  | 1635  | 1809  | 1971  | 2120   | 2372   | 2548   |        |        |
| 7000   | 644   | 749   | 856   | 962   | 1171  | 1374  | 1566  | 1744  | 1905  | 2046  | 2164   | 2318   | 2347   |        |        |
| 8000   | 704   | 818   | 931   | 1043  | 1259  | 1462  | 1646  | 1806  | 1939  | 2040  | 2105   | 2108   | 1914   |        |        |
| 10000  | 811   | 935   | 1056  | 1171  | 1382  | 1559  | 1693  | 1776  | 1800  | 1756  | 1637   |        |        |        |        |
| 12000  | 899   | 1026  | 1144  | 1252  | 1427  | 1538  | 1570  | 1507  |       |       |        |        |        |        |        |
| 14000  | 966   | 1087  | 1193  | 1280  | 1386  | 1382  | 1248  |       |       |       |        |        |        |        |        |

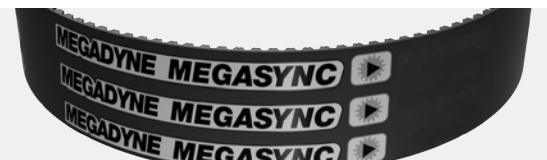


# MEGADYNE MEGASYNC™

## RPP8 - RPP8 DD

**BASIC PERFORMANCE Pb IN kW FOR MEGASYNC RPP8 AND RPP8 DD - 20 mm WIDE (kW / 20 mm)**

| D (mm) | 56,02 | 61,12 | 66,21 | 71,30 | 76,39 | 81,49 | 86,58 | 91,67 | 96,77 | 101,86 | 112,05 | 122,23 | 142,60 | 162,97 | 183,35 | 203,72 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Z      | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38    | 40     | 44     | 48     | 56     | 64     | 72     | 80     |
| RPM    |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |
| 10     | 0,06  | 0,07  | 0,08  | 0,08  | 0,09  | 0,10  | 0,11  | 0,11  | 0,12  | 0,13   | 0,14   | 0,16   | 0,19   | 0,22   | 0,26   | 0,29   |
| 20     | 0,11  | 0,12  | 0,13  | 0,14  | 0,15  | 0,16  | 0,18  | 0,19  | 0,20  | 0,22   | 0,24   | 0,27   | 0,32   | 0,38   | 0,44   | 0,49   |
| 30     | 0,14  | 0,16  | 0,17  | 0,19  | 0,21  | 0,22  | 0,24  | 0,26  | 0,27  | 0,29   | 0,33   | 0,36   | 0,44   | 0,51   | 0,59   | 0,67   |
| 50     | 0,21  | 0,23  | 0,26  | 0,28  | 0,30  | 0,33  | 0,35  | 0,38  | 0,40  | 0,43   | 0,48   | 0,53   | 0,64   | 0,75   | 0,87   | 0,98   |
| 70     | 0,27  | 0,30  | 0,33  | 0,36  | 0,39  | 0,42  | 0,45  | 0,49  | 0,52  | 0,55   | 0,62   | 0,69   | 0,82   | 0,97   | 1,12   | 1,27   |
| 100    | 0,35  | 0,39  | 0,43  | 0,47  | 0,51  | 0,55  | 0,59  | 0,63  | 0,68  | 0,72   | 0,81   | 0,90   | 1,08   | 1,27   | 1,46   | 1,65   |
| 200    | 0,59  | 0,66  | 0,72  | 0,79  | 0,86  | 0,93  | 1,00  | 1,07  | 1,14  | 1,21   | 1,36   | 1,51   | 1,81   | 2,13   | 2,45   | 2,78   |
| 300    | 0,80  | 0,89  | 0,98  | 1,07  | 1,16  | 1,26  | 1,35  | 1,45  | 1,54  | 1,64   | 1,84   | 2,04   | 2,46   | 2,88   | 3,32   | 3,77   |
| 400    | 0,99  | 1,10  | 1,21  | 1,33  | 1,44  | 1,56  | 1,67  | 1,79  | 1,91  | 2,03   | 2,28   | 2,53   | 3,05   | 3,57   | 4,12   | 4,67   |
| 500    | 1,17  | 1,30  | 1,43  | 1,57  | 1,70  | 1,84  | 1,98  | 2,12  | 2,26  | 2,40   | 2,70   | 2,99   | 3,60   | 4,22   | 4,86   | 5,51   |
| 600    | 1,35  | 1,49  | 1,64  | 1,80  | 1,95  | 2,11  | 2,27  | 2,43  | 2,59  | 2,76   | 3,09   | 3,43   | 4,12   | 4,83   | 5,56   | 6,31   |
| 700    | 1,51  | 1,68  | 1,85  | 2,02  | 2,19  | 2,37  | 2,55  | 2,73  | 2,91  | 3,09   | 3,47   | 3,84   | 4,62   | 5,42   | 6,24   | 7,07   |
| 800    | 1,67  | 1,85  | 2,04  | 2,23  | 2,42  | 2,62  | 2,81  | 3,01  | 3,21  | 3,42   | 3,83   | 4,25   | 5,10   | 5,98   | 6,88   | 7,79   |
| 900    | 1,82  | 2,02  | 2,23  | 2,43  | 2,64  | 2,86  | 3,07  | 3,29  | 3,51  | 3,77   | 4,18   | 4,63   | 5,57   | 6,52   | 7,50   | 8,49   |
| 1000   | 1,97  | 2,19  | 2,41  | 2,63  | 2,86  | 3,09  | 3,32  | 3,55  | 3,79  | 4,03   | 4,52   | 5,01   | 6,01   | 7,04   | 8,09   | 9,16   |
| 1100   | 2,12  | 2,35  | 2,59  | 2,83  | 3,07  | 3,31  | 3,56  | 3,81  | 4,07  | 4,32   | 4,84   | 5,37   | 6,45   | 7,55   | 8,67   | 9,80   |
| 1200   | 2,26  | 2,51  | 2,76  | 3,01  | 3,27  | 3,54  | 3,80  | 4,07  | 4,34  | 4,61   | 5,16   | 5,72   | 6,87   | 8,03   | 9,22   | 10,42  |
| 1300   | 2,40  | 2,66  | 2,93  | 3,20  | 3,47  | 3,75  | 4,03  | 4,31  | 4,60  | 4,89   | 5,47   | 6,07   | 7,27   | 8,51   | 9,75   | 11,02  |
| 1400   | 2,53  | 2,81  | 3,09  | 3,38  | 3,67  | 3,96  | 4,26  | 4,56  | 4,86  | 5,16   | 5,78   | 6,40   | 7,67   | 8,96   | 10,27  | 11,59  |
| 1500   | 2,67  | 2,96  | 3,26  | 3,56  | 3,86  | 4,17  | 4,48  | 4,79  | 5,11  | 5,43   | 6,07   | 6,73   | 8,05   | 9,40   | 10,76  | 12,13  |
| 1600   | 2,80  | 3,10  | 3,41  | 3,73  | 4,05  | 4,37  | 4,69  | 5,02  | 5,35  | 5,69   | 6,36   | 7,04   | 8,43   | 9,83   | 11,24  | 12,66  |
| 1700   | 2,93  | 3,25  | 3,57  | 3,90  | 4,23  | 4,57  | 4,91  | 5,25  | 5,59  | 5,94   | 6,64   | 7,35   | 8,79   | 10,24  | 11,50  | 13,16  |
| 1800   | 3,05  | 3,39  | 3,72  | 4,07  | 4,41  | 4,76  | 5,11  | 5,47  | 5,83  | 6,19   | 6,92   | 7,65   | 9,14   | 10,64  | 11,70  | 13,60  |
| 1900   | 3,18  | 3,52  | 3,87  | 4,23  | 4,59  | 4,95  | 5,32  | 5,69  | 6,06  | 6,43   | 7,19   | 7,95   | 9,48   | 11,02  | 12,56  | 14,09  |
| 2000   | 3,30  | 3,66  | 4,02  | 4,39  | 4,76  | 5,14  | 5,52  | 5,90  | 6,28  | 6,67   | 7,45   | 8,23   | 9,81   | 11,39  | 12,97  | 15,52  |
| 2200   | 3,54  | 3,92  | 4,32  | 4,70  | 5,10  | 5,50  | 5,90  | 6,31  | 6,72  | 7,13   | 7,95   | 8,78   | 10,44  | 12,09  | 13,72  | 15,31  |
| 2400   | 3,77  | 4,18  | 4,59  | 5,00  | 5,42  | 5,85  | 6,27  | 6,70  | 7,13  | 7,56   | 8,43   | 9,30   | 11,03  | 12,73  | 14,39  | 16,00  |
| 2600   | 3,99  | 4,42  | 4,86  | 5,30  | 5,74  | 6,18  | 6,63  | 7,08  | 7,53  | 7,98   | 8,88   | 9,78   | 11,57  | 13,31  | 14,99  | 16,59  |
| 2800   | 4,21  | 4,66  | 5,12  | 5,58  | 6,04  | 6,51  | 6,97  | 7,44  | 7,91  | 8,38   | 9,31   | 10,24  | 12,07  | 13,83  | 15,50  | 17,06  |
| 3000   | 4,42  | 4,90  | 5,37  | 5,85  | 6,33  | 6,82  | 7,30  | 7,79  | 8,27  | 8,76   | 9,72   | 10,67  | 12,52  | 14,29  | 15,93  | 17,43  |
| 3500   | 4,93  | 5,45  | 5,97  | 6,49  | 7,02  | 7,54  | 8,06  | 8,58  | 9,10  | 9,61   | 10,62  | 11,60  | 13,46  | 15,14  |        |        |
| 4000   |       |       |       |       | 7,64  | 8,19  | 8,73  | 9,28  | 9,81  | 10,33  | 11,35  | 12,32  | 14,08  |        |        |        |
| 4500   |       |       |       |       |       | 8,75  | 9,31  | 9,86  | 10,40 | 10,92  | 11,91  | 12,82  |        |        |        |        |
| 5000   |       |       |       |       |       |       | 9,80  | 10,34 | 10,86 | 11,35  | 12,27  | 13,08  |        |        |        |        |
| 5500   |       |       |       |       |       |       |       |       | 11,18 | 11,63  | 12,44  |        |        |        |        |        |
| 6000   |       |       |       |       |       |       |       |       | 11,36 | 11,75  | 12,38  |        |        |        |        |        |

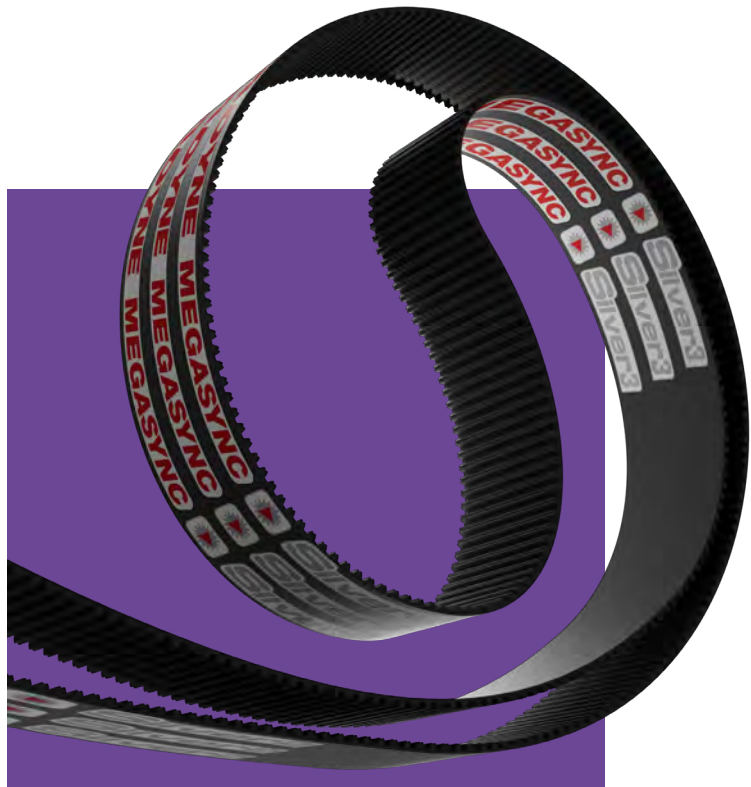


# MEGADYNE MEGASYNC™

## RPP14 - RPP14 DD

**BASIC PERFORMANCE Pb IN kW FOR MEGASYNC RPP14 AND RPP14 DD - 40 mm WIDE (kW / 40 mm)**

| D (mm) | 124,78 | 129,23 | 133,69 | 142,6 | 151,51 | 160,43 | 169,34 | 178,25 | 196,08 | 213,9 | 231,73 | 249,55 | 267,38 | 285,21 | 303,03 | 320,86 | 356,51 |
|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| Z      | 28     | 29     | 30     | 32    | 34     | 36     | 38     | 40     | 44     | 48    | 52     | 56     | 60     | 64     | 68     | 72     | 80     |
| RPM    |        |        |        |       |        |        |        |        |        |       |        |        |        |        |        |        |        |
| 10     | 0,43   | 0,45   | 0,47   | 0,51  | 0,54   | 0,58   | 0,62   | 0,66   | 0,74   | 0,82  | 0,91   | 0,99   | 1,08   | 1,16   | 1,25   | 1,34   | 1,52   |
| 20     | 0,73   | 0,76   | 0,79   | 0,85  | 0,92   | 0,98   | 1,05   | 1,11   | 1,25   | 1,38  | 1,52   | 1,67   | 1,81   | 1,96   | 2,10   | 2,25   | 2,56   |
| 30     | 0,98   | 1,03   | 1,07   | 1,15  | 1,24   | 1,33   | 1,42   | 1,51   | 1,69   | 1,88  | 2,07   | 2,26   | 2,45   | 2,65   | 2,85   | 3,05   | 3,46   |
| 50     | 1,44   | 1,50   | 1,57   | 1,69  | 1,82   | 1,95   | 2,08   | 2,21   | 2,48   | 2,75  | 3,03   | 3,31   | 3,60   | 3,89   | 4,18   | 4,48   | 5,08   |
| 70     | 1,86   | 1,94   | 2,02   | 2,18  | 2,34   | 2,51   | 2,68   | 2,85   | 3,19   | 3,54  | 3,90   | 4,26   | 4,63   | 5,00   | 5,38   | 5,76   | 6,54   |
| 100    | 2,42   | 2,53   | 2,63   | 2,85  | 3,06   | 3,28   | 3,50   | 3,72   | 4,17   | 4,63  | 5,10   | 5,57   | 6,05   | 6,54   | 7,03   | 7,53   | 8,54   |
| 200    | 4,08   | 4,25   | 4,43   | 4,79  | 5,15   | 5,51   | 5,88   | 6,25   | 7,01   | 7,78  | 8,57   | 9,36   | 10,17  | 10,99  | 11,81  | 12,65  | 14,35  |
| 300    | 5,52   | 5,76   | 6,00   | 6,48  | 6,97   | 7,47   | 7,97   | 8,47   | 9,50   | 10,54 | 11,60  | 12,67  | 13,76  | 14,87  | 15,98  | 17,11  | 19,41  |
| 400    | 6,85   | 7,14   | 7,44   | 8,04  | 8,64   | 9,26   | 9,87   | 10,50  | 11,77  | 13,06 | 14,37  | 15,69  | 17,04  | 18,40  | 19,78  | 21,17  | 23,99  |
| 500    | 8,09   | 8,44   | 8,79   | 9,49  | 10,21  | 10,93  | 11,66  | 12,39  | 13,89  | 15,40 | 16,94  | 18,50  | 20,08  | 21,68  | 23,30  | 24,92  | 28,22  |
| 600    | 9,27   | 9,67   | 10,07  | 10,87 | 11,69  | 12,51  | 13,34  | 14,19  | 15,89  | 17,62 | 19,37  | 21,15  | 22,94  | 24,75  | 26,58  | 28,42  | 32,15  |
| 700    | 10,39  | 10,84  | 11,28  | 12,19 | 13,10  | 14,02  | 14,95  | 15,89  | 17,79  | 19,71 | 21,67  | 23,64  | 25,63  | 27,64  | 29,66  | 31,70  | 35,80  |
| 800    | 11,47  | 11,96  | 12,45  | 13,45 | 14,45  | 15,46  | 16,48  | 17,51  | 19,60  | 21,71 | 23,84  | 26,00  | 28,17  | 30,36  | 32,55  | 34,76  | 39,19  |
| 900    | 12,51  | 13,04  | 13,58  | 14,66 | 15,75  | 16,85  | 17,95  | 19,07  | 21,33  | 23,61 | 25,91  | 28,23  | 30,57  | 32,91  | 35,26  | 37,62  | 42,32  |
| 1000   | 13,51  | 14,06  | 14,66  | 15,82 | 16,99  | 18,18  | 19,37  | 20,56  | 22,98  | 25,42 | 27,88  | 30,35  | 32,82  | 35,31  | 37,79  | 40,27  | 45,20  |
| 1100   | 14,48  | 15,10  | 15,71  | 16,95 | 18,20  | 19,45  | 20,72  | 21,99  | 24,56  | 27,14 | 29,74  | 32,34  | 34,95  | 37,55  | 40,14  | 42,72  | 47,81  |
| 1200   | 15,42  | 16,07  | 16,72  | 18,03 | 19,36  | 20,69  | 22,02  | 23,37  | 26,07  | 28,78 | 31,50  | 34,22  | 36,93  | 39,63  | 42,30  | 44,96  | 50,16  |
| 1300   | 16,33  | 17,02  | 17,70  | 19,08 | 20,47  | 21,87  | 23,28  | 24,68  | 27,51  | 30,34 | 33,17  | 35,98  | 38,78  | 41,55  | 44,29  | 46,98  | 52,23  |
| 1400   | 17,21  | 17,93  | 18,65  | 20,10 | 21,55  | 23,01  | 24,48  | 25,94  | 28,88  | 31,81 | 34,73  | 37,63  | 40,49  | 43,31  | 46,08  | 48,79  | 54,01  |
| 1500   | 18,07  | 18,82  | 19,57  | 21,08 | 22,59  | 24,11  | 25,63  | 27,16  | 30,18  | 33,20 | 36,20  | 39,15  | 42,05  | 44,90  | 47,67  | 50,37  | 55,48  |
| 1600   | 18,90  | 19,68  | 20,46  | 22,02 | 23,59  | 25,16  | 26,73  | 28,30  | 31,42  | 34,51 | 37,56  | 40,55  | 43,47  | 46,31  | 49,06  | 51,71  | 56,65  |
| 1700   | 19,70  | 20,50  | 21,31  | 22,93 | 24,55  | 26,17  | 27,78  | 29,39  | 32,58  | 35,73 | 38,81  | 41,82  | 44,73  | 47,55  | 50,24  | 52,81  | 57,49  |
| 1800   | 20,48  | 21,31  | 22,14  | 23,81 | 25,47  | 27,13  | 28,78  | 30,42  | 33,67  | 36,86 | 39,96  | 42,96  | 45,84  | 48,60  | 51,21  | 53,65  | 58,00  |
| 1900   | 21,23  | 22,08  | 22,94  | 24,65 | 26,35  | 28,05  | 29,73  | 31,40  | 34,69  | 37,90 | 40,99  | 43,96  | 46,79  | 49,46  | 51,94  | 54,23  | 58,15  |
| 2000   | 21,95  | 22,83  | 23,71  | 25,45 | 27,19  | 28,92  | 30,63  | 32,32  | 35,64  | 38,84 | 41,92  | 44,83  | 47,57  | 50,12  | 52,45  |        |        |
| 2500   | 25,19  | 26,15  | 27,09  | 28,96 | 30,79  | 32,58  | 34,32  | 36,00  | 39,19  | 42,11 | 44,70  | 46,94  |        |        |        |        |        |
| 3000   |        |        | 29,69  | 31,54 | 33,31  | 34,98  | 36,56  | 38,03  |        |       |        |        |        |        |        |        |        |
| 3500   |        |        | 31,43  | 33,10 | 34,63  | 35,99  | 37,19  | 38,19  |        |       |        |        |        |        |        |        |        |
| 4000   |        |        |        | 33,55 | 34,63  |        |        |        |        |       |        |        |        |        |        |        |        |



MEGADYNE MEGASYNC™

SILVER3



# MEGADYNE MEGASYNC™

## SILVER3



Megadyne MEGASYNC™ Silver3 belts have been developed to give a more powerful alternative to MEGASYNC™ RPP belts. Competing against high-performance transmission systems, using chains and gears, that always have disadvantages in terms of weight, noise, lubrication and maintenance costs.

Due to the greater power they can transmit, MEGASYNC™ Silver3 can be used to improve and easily upgrade existing drives working with MEGASYNC™. Interchangeability is the key factor to flexible approach when upgrading with MEGASYNC™ Silver, ensuring that the other key equipments component are able to handle the increased transmitted power.

The third generation of RPC Silver is made with materials of the highest quality and strength. Employing innovative manufacturing processes and techniques, the homogeneous construction of all components and a higher cohesive bond imparts superior torque capacity, thus positioning Silver3 at a high-performance level.

Silver3 offers a wealth of improved properties and is distinguished above all by the increased power capacity. Thanks to the use of "state-of-the-art" materials, Silver3 is particularly recommended for efficient and compact drives which experience high starting torques and allow the design more flexibility due to the following advantages:

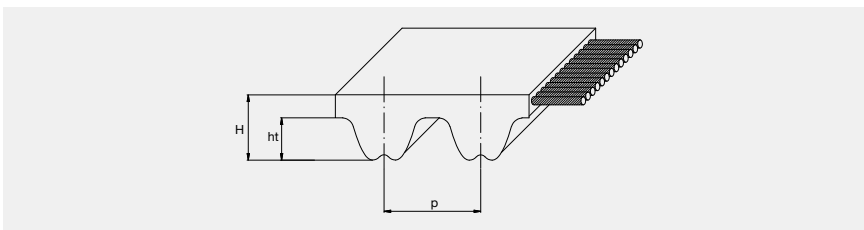
- 1.** Increase of power load capacity by up to +20%, compared to the previous Silver2; consequently more compact and lightweight drives are possible under the same power rating
- 2.** Break the equation "More Performance"="More Cost", as Silver3 retains the same selling price of the previous Silver2 generation, while offering a consistent improvement in performance
- 3.** Allows the existing RPP and Silver2 systems to be upgraded without the necessity to replace the pulleys; thus extending the service life of existing drives at zero-cost. Silver3 belts are available in 5M, 8M and 14M pitches, with the same range of lengths of the previous Silver generation. Each type is available both in sleeves and single belts, maintaining the same basic dimensions and widths.
- 4.** MEGASYNC™ Silver3 belts have RPC profile, designed to be interchangeable with existing deep groove profiles and run on pulleys according to ISO 13050.
- 5.** MEGASYNC™ Silver3 5M, 8M and 14M belts are antistatic according to ISO 9563.



# MEGADYNE MEGASYNC™

## SILVER3

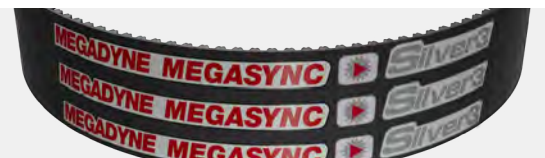
### SILVER3



| PITCH             |    | SILVER3 5M | SILVER3 8M | SILVER3 14M |
|-------------------|----|------------|------------|-------------|
| Pitch length (mm) | p  | 5,00       | 8,00       | 14,00       |
| Teeth height (mm) | ht | 2,00       | 3,20       | 6,00        |
| Belt height (mm)  | H  | 3,80       | 5,40       | 9,70        |

| RESISTANCE TO:       | STD BELT RESISTANCE |
|----------------------|---------------------|
| Water                | <b>Medium</b>       |
| Acids / Alkalis      | <b>None</b>         |
| Solvents             | <b>None</b>         |
| Mineral oils         | <b>Low</b>          |
| Oils                 | <b>Low</b>          |
| Greases              | <b>Medium</b>       |
| Fuels                | <b>None</b>         |
| Environmental agents | <b>Medium</b>       |

| OTHER FEATURES              |   |
|-----------------------------|---|
| Temperature range           | <b>Min: -25 °C</b><br><b>Max: 80 °C</b> |
|                             | <b>Max peak: 100 °C</b>                 |
| Hardness                    | <b>90 +/- 4 ShA</b>                     |
| Antistatic (for 8M and 14M) | <b>According to ISO 9563</b>            |



# MEGADYNE MEGASYNC™

## SILVER3

### STANDARD TOLERANCES

| WIDTH TOLERANCES |        |                         |                          |                |
|------------------|--------|-------------------------|--------------------------|----------------|
| BELT WIDTH (mm)  |        | TOLERANCE ON BELT WIDTH |                          |                |
|                  |        | BELT LENGTH (mm)        |                          |                |
| MORE THAN        | UP TO  | UP TO 838               | MORE THAN 838 UP TO 1676 | MORE THAN 1676 |
| -                | 11,10  | +0,5 / -0,8             | +0,5 / 0,8               | -              |
| 11,10            | 38,10  | ±0,8                    | +0,8 / -1,3              | +0,8 / -1,3    |
| 38,10            | 50,80  | +0,8 / -1,3             | ±1,3                     | +1,3 / -1,5    |
| 50,80            | 76,20  | +1,3 / -1,5             | ±1,5                     | +1,5 / -2,0    |
| 76,20            | 170,00 | +1,3 / -1,5             | +1,3 / -2,0              | ±2,0           |

| LENGTH TOLERANCES |       |  |  |
|-------------------|-------|--|--|
| BELT LENGTH (mm)  |       | TOLERANCE (mm)   | CENTER DISTANCE TOLERANCE (mm)   |
| MORE THAN         | UP TO |  |  |
| 254               | 381   | ±0,45  | ±0,225   |
| 381               | 508   | ±0,50  | ±0,250   |
| 508               | 762   | ±0,60  | ±0,300   |
| 762               | 991   | ±0,65  | ±0,325   |
| 991               | 1,220 | ±0,75  | ±0,375   |
| 1,220             | 1,524 | ±0,80  | ±0,400   |
| 1,524             | 1,778 | ±0,85  | ±0,425   |
| 1,778             | 2,032 | ±0,90  | ±0,450   |
| 2,032             | 2,286 | ±0,95  | ±0,475   |
| over 2,286        |       | $\pm \left[ 0,95 + \left( \frac{L - 2286}{254} \cdot 0,03 \right) \right]$ | $\pm \left[ 0,475 + \left( \frac{L - 2286}{254} \cdot 0,015 \right) \right]$ |

| THICKNESS TOLERANCES |                             |                       |         |         |
|----------------------|-----------------------------|-----------------------|---------|---------|
| PITCH                | NOMINAL BELT THICKNESS (mm) | TOLERANCE DEGREE (mm) |         |         |
|                      |                             | STANDARD BELT         | GRADE 2 | GRADE 1 |
| SLV3 5M              | 3,80                        | ±0,60                 | ±0,25   | ±0,15   |
| SLV3 8M              | 5,40                        | ±0,60                 | ±0,25   | ±0,15   |
| SLV3 14M             | 9,70                        | ±0,60                 | ±0,25   | ±0,15   |

For specific application, where you might require different tolerances, please contact our Application Department.

| STANDARD WIDTHS |                  |    |    |    |    |    |    |    |    |     |     |
|-----------------|------------------|----|----|----|----|----|----|----|----|-----|-----|
| PITCH           | BELT WIDTHS (mm) |    |    |    |    |    |    |    |    |     |     |
|                 | 9                | 15 | 20 | 25 | 30 | 40 | 50 | 55 | 85 | 115 | 170 |
| SLV3 5M         | •                | •  |    | •  |    |    |    |    |    |     |     |
| SLV3 8M         |                  |    | •  |    | •  |    | •  |    | •  |     |     |
| SLV3 14M        |                  |    |    |    |    | •  |    | •  | •  | •   | •   |

# SILVER3 - RANGE

| SILVER3 5M   |                   |
|--------------|-------------------|
| CODE         | PITCH LENGTH (mm) |
| 180 SLV3 5M  | 180               |
| 225 SLV3 5M  | 225               |
| 235 SLV3 5M  | 235               |
| 245 SLV3 5M  | 245               |
| 255 SLV3 5M  | 255               |
| 265 SLV3 5M  | 265               |
| 270 SLV3 5M  | 270               |
| 280 SLV3 5M  | 280               |
| 285 SLV3 5M  | 285               |
| 295 SLV3 5M  | 295               |
| 300 SLV3 5M  | 300               |
| 305 SLV3 5M  | 305               |
| 325 SLV3 5M  | 325               |
| 330 SLV3 5M  | 330               |
| 345 SLV3 5M  | 345               |
| 350 SLV3 5M  | 350               |
| 375 SLV3 5M  | 375               |
| 400 SLV3 5M  | 400               |
| 420 SLV3 5M  | 420               |
| 425 SLV3 5M  | 425               |
| 450 SLV3 5M  | 450               |
| 455 SLV3 5M  | 455               |
| 460 SLV3 5M  | 460               |
| 465 SLV3 5M  | 465               |
| 475 SLV3 5M  | 475               |
| 500 SLV3 5M  | 500               |
| 525 SLV3 5M  | 525               |
| 535 SLV3 5M  | 535               |
| 565 SLV3 5M  | 565               |
| 575 SLV3 5M  | 575               |
| 580 SLV3 5M  | 580               |
| 600 SLV3 5M  | 600               |
| 610 SLV3 5M  | 610               |
| 615 SLV3 5M  | 615               |
| 635 SLV3 5M  | 635               |
| 640 SLV3 5M  | 640               |
| 650 SLV3 5M  | 650               |
| 670 SLV3 5M  | 670               |
| 675 SLV3 5M  | 675               |
| 700 SLV3 5M  | 700               |
| 705 SLV3 5M  | 705               |
| 710 SLV3 5M  | 710               |
| 725 SLV3 5M  | 725               |
| 740 SLV3 5M  | 740               |
| 750 SLV3 5M  | 750               |
| 755 SLV3 5M  | 755               |
| 800 SLV3 5M  | 800               |
| 835 SLV3 5M  | 835               |
| 850 SLV3 5M  | 850               |
| 890 SLV3 5M  | 890               |
| 900 SLV3 5M  | 900               |
| 935 SLV3 5M  | 935               |
| 940 SLV3 5M  | 940               |
| 950 SLV3 5M  | 950               |
| 980 SLV3 5M  | 980               |
| 1000 SLV3 5M | 1000              |
| 1025 SLV3 5M | 1025              |
| 1050 SLV3 5M | 1050              |
| 1100 SLV3 5M | 1100              |
| 1125 SLV3 5M | 1125              |
| 1135 SLV3 5M | 1135              |
| 1195 SLV3 5M | 1195              |

| SILVER3 5M   |                   |
|--------------|-------------------|
| CODE         | PITCH LENGTH (mm) |
| 1200 SLV3 5M | 1200              |
| 1240 SLV3 5M | 1240              |
| 1270 SLV3 5M | 1270              |
| 1420 SLV3 5M | 1420              |
| 1500 SLV3 5M | 1500              |
| 1595 SLV3 5M | 1595              |
| 1605 SLV3 5M | 1605              |
| 1690 SLV3 5M | 1690              |
| 1790 SLV3 5M | 1790              |
| 1800 SLV3 5M | 1800              |
| 1870 SLV3 5M | 1870              |
| 1895 SLV3 5M | 1895              |
| 1945 SLV3 5M | 1945              |
| 2000 SLV3 5M | 2000              |
| 2250 SLV3 5M | 2250              |
| 2350 SLV3 5M | 2350              |
| 2525 SLV3 5M | 2525              |

| SILVER3 8M   |                   |
|--------------|-------------------|
| CODE         | PITCH LENGTH (mm) |
| 248 SLV3 8M  | 248               |
| 288 SLV3 8M  | 288               |
| 320 SLV3 8M  | 320               |
| 352 SLV3 8M  | 352               |
| 360 SLV3 8M  | 360               |
| 376 SLV3 8M  | 376               |
| 384 SLV3 8M  | 384               |
| 408 SLV3 8M  | 408               |
| 416 SLV3 8M  | 416               |
| 424 SLV3 8M  | 424               |
| 456 SLV3 8M  | 456               |
| 480 SLV3 8M  | 480               |
| 536 SLV3 8M  | 536               |
| 544 SLV3 8M  | 544               |
| 560 SLV3 8M  | 560               |
| 600 SLV3 8M  | 600               |
| 608 SLV3 8M  | 608               |
| 632 SLV3 8M  | 632               |
| 640 SLV3 8M  | 640               |
| 680 SLV3 8M  | 680               |
| 720 SLV3 8M  | 720               |
| 760 SLV3 8M  | 760               |
| 800 SLV3 8M  | 800               |
| 840 SLV3 8M  | 840               |
| 880 SLV3 8M  | 880               |
| 896 SLV3 8M  | 896               |
| 920 SLV3 8M  | 920               |
| 960 SLV3 8M  | 960               |
| 976 SLV3 8M  | 976               |
| 1000 SLV3 8M | 1000              |
| 1040 SLV3 8M | 1040              |
| 1064 SLV3 8M | 1064              |
| 1080 SLV3 8M | 1080              |
| 1120 SLV3 8M | 1120              |
| 1160 SLV3 8M | 1160              |
| 1200 SLV3 8M | 1200              |
| 1224 SLV3 8M | 1224              |
| 1280 SLV3 8M | 1280              |
| 1352 SLV3 8M | 1352              |

| SILVER3 8M   |                   |
|--------------|-------------------|
| CODE         | PITCH LENGTH (mm) |
| 1424 SLV3 8M | 1424              |
| 1440 SLV3 8M | 1440              |
| 1464 SLV3 8M | 1464              |
| 1512 SLV3 8M | 1512              |
| 1584 SLV3 8M | 1584              |
| 1600 SLV3 8M | 1600              |
| 1680 SLV3 8M | 1680              |
| 1760 SLV3 8M | 1760              |
| 1800 SLV3 8M | 1800              |
| 1904 SLV3 8M | 1904              |
| 2000 SLV3 8M | 2000              |
| 2200 SLV3 8M | 2200              |
| 2240 SLV3 8M | 2240              |
| 2272 SLV3 8M | 2272              |
| 2400 SLV3 8M | 2400              |
| 2520 SLV3 8M | 2520              |
| 2600 SLV3 8M | 2600              |
| 2800 SLV3 8M | 2800              |
| 2840 SLV3 8M | 2840              |
| 3048 SLV3 8M | 3048              |
| 3200 SLV3 8M | 3200              |
| 3280 SLV3 8M | 3280              |
| 3600 SLV3 8M | 3600              |
| 4000 SLV3 8M | 4000              |
| 4400 SLV3 8M | 4400              |

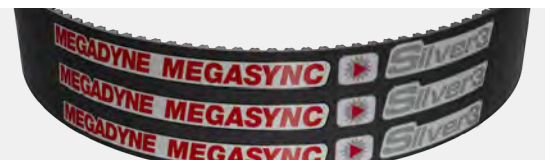
| SILVER3 14M   |                   |
|---------------|-------------------|
| CODE          | PITCH LENGTH (mm) |
| 966 SLV3 14M  | 966               |
| 994 SLV3 14M  | 994               |
| 1092 SLV3 14M | 1092              |
| 1106 SLV3 14M | 1106              |
| 1120 SLV3 14M | 1120              |
| 1190 SLV3 14M | 1190              |
| 1260 SLV3 14M | 1260              |
| 1288 SLV3 14M | 1288              |
| 1344 SLV3 14M | 1344              |
| 1400 SLV3 14M | 1400              |
| 1442 SLV3 14M | 1442              |
| 1512 SLV3 14M | 1512              |
| 1568 SLV3 14M | 1568              |
| 1610 SLV3 14M | 1610              |
| 1750 SLV3 14M | 1750              |
| 1764 SLV3 14M | 1764              |
| 1778 SLV3 14M | 1778              |
| 1848 SLV3 14M | 1848              |
| 1890 SLV3 14M | 1890              |
| 1904 SLV3 14M | 1904              |
| 1960 SLV3 14M | 1960              |
| 2100 SLV3 14M | 2100              |
| 2240 SLV3 14M | 2240              |
| 2310 SLV3 14M | 2310              |
| 2380 SLV3 14M | 2380              |
| 2450 SLV3 14M | 2450              |
| 2520 SLV3 14M | 2520              |
| 2590 SLV3 14M | 2590              |
| 2660 SLV3 14M | 2660              |
| 2800 SLV3 14M | 2800              |
| 2968 SLV3 14M | 2968              |

| SILVER3 14M   |                   |
|---------------|-------------------|
| CODE          | PITCH LENGTH (mm) |
| 3136 SLV3 14M | 3136              |
| 3150 SLV3 14M | 3150              |
| 3304 SLV3 14M | 3304              |
| 3360 SLV3 14M | 3360              |
| 3500 SLV3 14M | 3500              |
| 3850 SLV3 14M | 3850              |
| 3920 SLV3 14M | 3920              |
| 4326 SLV3 14M | 4326              |
| 4410 SLV3 14M | 4410              |
| 4578 SLV3 14M | 4578              |
| 4956 SLV3 14M | 4956              |

| SILVER3 8DD*  |                   |
|---------------|-------------------|
| CODE          | PITCH LENGTH (mm) |
| 600 SLV3-8DD  | 600               |
| 608 SLV3-8DD  | 608               |
| 632 SLV3-8DD  | 632               |
| 640 SLV3-8DD  | 640               |
| 680 SLV3-8DD  | 680               |
| 720 SLV3-8DD  | 720               |
| 760 SLV3-8DD  | 760               |
| 800 SLV3-8DD  | 800               |
| 840 SLV3-8DD  | 840               |
| 880 SLV3-8DD  | 880               |
| 896 SLV3-8DD  | 896               |
| 920 SLV3-8DD  | 920               |
| 960 SLV3-8DD  | 960               |
| 1000 SLV3-8DD | 1000              |
| 1040 SLV3-8DD | 1040              |
| 1080 SLV3-8DD | 1080              |
| 1120 SLV3-8DD | 1120              |
| 1200 SLV3-8DD | 1200              |
| 1224 SLV3-8DD | 1224              |
| 1280 SLV3-8DD | 1280              |
| 1352 SLV3-8DD | 1352              |
| 1424 SLV3-8DD | 1424              |
| 1440 SLV3-8DD | 1440              |
| 1464 SLV3-8DD | 1464              |
| 1600 SLV3-8DD | 1600              |
| 1680 SLV3-8DD | 1680              |
| 1760 SLV3-8DD | 1760              |
| 1792 SLV3-8DD | 1792              |
| 1800 SLV3-8DD | 1800              |
| 1904 SLV3-8DD | 1904              |
| 2000 SLV3-8DD | 2000              |
| 2200 SLV3-8DD | 2200              |
| 2240 SLV3-8DD | 2240              |
| 2272 SLV3-8DD | 2272              |
| 2400 SLV3-8DD | 2400              |
| 2520 SLV3-8DD | 2520              |
| 2600 SLV3-8DD | 2600              |
| 2800 SLV3-8DD | 2800              |
| 2840 SLV3-8DD | 2840              |
| 3048 SLV3-8DD | 3048              |
| 3200 SLV3-8DD | 3200              |
| 3280 SLV3-8DD | 3280              |
| 3600 SLV3-8DD | 3600              |
| 4000 SLV3-8DD | 4000              |
| 4400 SLV3-8DD | 4400              |

| SILVER3 14DD*  |                   |
|----------------|-------------------|
| CODE           | PITCH LENGTH (mm) |
| 966 SLV3-14DD  | 966               |
| 994 SLV3-14DD  | 994               |
| 1092 SLV3-14DD | 1092              |
| 1106 SLV3-14DD | 1106              |
| 1120 SLV3-14DD | 1120              |
| 1190 SLV3-14DD | 1190              |
| 1260 SLV3-14DD | 1260              |
| 1288 SLV3-14DD | 1288              |
| 1344 SLV3-14DD | 1344              |
| 1400 SLV3-14DD | 1400              |
| 1442 SLV3-14DD | 1442              |
| 1568 SLV3-14DD | 1568              |
| 1610 SLV3-14DD | 1610              |
| 1750 SLV3-14DD | 1750              |
| 1764 SLV3-14DD | 1764              |
| 1778 SLV3-14DD | 1778              |
| 1848 SLV3-14DD | 1848              |
| 1890 SLV3-14DD | 1890              |
| 1904 SLV3-14DD | 1904              |
| 1960 SLV3-14DD | 1960              |
| 2100 SLV3-14DD | 2100              |
| 2240 SLV3-14DD | 2240              |
| 2310 SLV3-14DD | 2310              |
| 2380 SLV3-14DD | 2380              |
| 2450 SLV3-14DD | 2450              |
| 2520 SLV3-14DD | 2520              |
| 2590 SLV3-14DD | 2590              |
| 2660 SLV3-14DD | 2660              |
| 2800 SLV3-14DD | 2800              |
| 2968 SLV3-14DD | 2968              |
| 3136 SLV3-14DD | 3136              |
| 3150 SLV3-14DD | 3150              |
| 3304 SLV3-14DD | 3304              |
| 3360 SLV3-14DD | 3360              |
| 3500 SLV3-14DD | 3500              |
| 3850 SLV3-14DD | 3850              |
| 3920 SLV3-14DD | 3920              |
| 4326 SLV3-14DD | 4326              |
| 4410 SLV3-14DD | 4410              |
| 4578 SLV3-14DD | 4578              |
| 4956 SLV3-14DD | 4956              |

(\*) ON DEMAND



# MEGADYNE MEGASYNC™

## SILVER3 5M

**BASIC PERFORMANCE Pb IN W FOR SILVER3 5M - 9 mm WIDE (W / 9 mm)**

| D (mm) | 28,65 | 31,83 | 35,01 | 38,20 | 41,38 | 44,56 | 50,93 | 57,3  | 63,66 | 70,03  | 76,39  | 89,13  | 101,86 | 114,59 | 127,32 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Z      | 18    | 20    | 22    | 24    | 26    | 28    | 32    | 36    | 40    | 44     | 48     | 56     | 64     | 72     | 80     |
| RPM    |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |
| 10     | 7     | 8     | 10    | 12    | 13    | 14    | 16    | 18    | 20    | 21     | 23     | 27     | 31     | 35     | 39     |
| 20     | 12    | 15    | 18    | 21    | 24    | 27    | 31    | 35    | 39    | 43     | 47     | 55     | 62     | 70     | 78     |
| 30     | 17    | 21    | 25    | 29    | 34    | 39    | 47    | 53    | 59    | 64     | 70     | 82     | 94     | 105    | 117    |
| 50     | 26    | 32    | 39    | 46    | 53    | 61    | 78    | 88    | 98    | 107    | 117    | 136    | 156    | 175    | 195    |
| 70     | 35    | 43    | 51    | 61    | 71    | 81    | 105   | 123   | 136   | 150    | 164    | 191    | 218    | 246    | 273    |
| 100    | 48    | 58    | 70    | 82    | 96    | 110   | 142   | 175   | 195   | 214    | 234    | 273    | 312    | 351    | 390    |
| 200    | 86    | 105   | 126   | 149   | 173   | 200   | 257   | 300   | 333   | 367    | 400    | 467    | 533    | 600    | 667    |
| 300    | 122   | 149   | 179   | 211   | 245   | 282   | 363   | 450   | 500   | 550    | 600    | 700    | 800    | 900    | 1.000  |
| 400    | 156   | 191   | 229   | 269   | 314   | 361   | 465   | 581   | 667   | 733    | 800    | 933    | 1.066  | 1.200  | 1.333  |
| 500    | 189   | 231   | 277   | 326   | 380   | 437   | 562   | 703   | 833   | 916    | 1.000  | 1.166  | 1.333  | 1.499  | 1.665  |
| 600    | 221   | 270   | 323   | 381   | 444   | 510   | 657   | 822   | 1.000 | 1.100  | 1.200  | 1.399  | 1.599  | 1.798  | 1.998  |
| 700    | 252   | 308   | 369   | 435   | 506   | 582   | 750   | 937   | 1.144 | 1.283  | 1.399  | 1.632  | 1.865  | 2.097  | 2.330  |
| 800    | 283   | 345   | 413   | 487   | 567   | 653   | 840   | 1.051 | 1.283 | 1.466  | 1.599  | 1.865  | 2.131  | 2.396  | 2.661  |
| 900    | 312   | 381   | 457   | 539   | 627   | 722   | 929   | 1.162 | 1.418 | 1.649  | 1.798  | 2.097  | 2.396  | 2.694  | 2.992  |
| 1000   | 342   | 417   | 500   | 590   | 686   | 790   | 1.017 | 1.271 | 1.552 | 1.832  | 1.998  | 2.330  | 2.661  | 2.992  | 3.323  |
| 1100   | 371   | 453   | 542   | 640   | 744   | 857   | 1.103 | 1.379 | 1.683 | 2.014  | 2.197  | 2.562  | 2.926  | 3.290  | 3.653  |
| 1200   | 399   | 488   | 584   | 689   | 802   | 923   | 1.188 | 1.485 | 1.813 | 2.171  | 2.396  | 2.794  | 3.191  | 3.587  | 3.982  |
| 1300   | 428   | 522   | 626   | 738   | 858   | 988   | 1.272 | 1.590 | 1.941 | 2.325  | 2.595  | 3.025  | 3.455  | 3.883  | 4.310  |
| 1400   | 456   | 556   | 666   | 786   | 914   | 1.052 | 1.355 | 1.693 | 2.067 | 2.476  | 2.794  | 3.257  | 3.719  | 4.179  | 4.638  |
| 1500   | 483   | 590   | 707   | 833   | 970   | 1.116 | 1.437 | 1.796 | 2.192 | 2.626  | 2.992  | 3.488  | 3.982  | 4.474  | 4.964  |
| 1600   | 511   | 623   | 747   | 881   | 1.025 | 1.179 | 1.518 | 1.897 | 2.316 | 2.774  | 3.191  | 3.719  | 4.245  | 4.769  | 5.290  |
| 1700   | 538   | 657   | 786   | 927   | 1.079 | 1.241 | 1.598 | 1.998 | 2.438 | 2.920  | 3.389  | 3.949  | 4.507  | 5.062  | 5.615  |
| 1800   | 565   | 689   | 826   | 973   | 1.133 | 1.303 | 1.678 | 2.097 | 2.560 | 3.065  | 3.587  | 4.179  | 4.769  | 5.355  | 5.939  |
| 1900   | 591   | 722   | 865   | 1.019 | 1.186 | 1.365 | 1.757 | 2.195 | 2.680 | 3.209  | 3.783  | 4.409  | 5.030  | 5.647  | 6.261  |
| 2000   | 618   | 754   | 903   | 1.065 | 1.239 | 1.425 | 1.835 | 2.293 | 2.799 | 3.351  | 3.950  | 4.638  | 5.290  | 5.939  | 6.582  |
| 2400   | 705   | 861   | 1.031 | 1.216 | 1.414 | 1.627 | 2.094 | 2.616 | 3.192 | 3.822  | 4.504  | 5.550  | 6.325  | 7.094  | 7.854  |
| 2800   | 822   | 1.003 | 1.202 | 1.416 | 1.648 | 1.895 | 2.439 | 3.047 | 3.717 | 4.449  | 5.241  | 6.454  | 7.348  | 8.232  | 9.102  |
| 3000   | 872   | 1.064 | 1.274 | 1.501 | 1.747 | 2.009 | 2.585 | 3.228 | 3.938 | 4.712  | 5.551  | 6.903  | 7.854  | 8.793  | 9.716  |
| 3200   | 905   | 1.104 | 1.322 | 1.558 | 1.813 | 2.085 | 2.682 | 3.349 | 4.084 | 4.887  | 5.756  | 7.348  | 8.357  | 9.348  | 10.322 |
| 3600   | 1.017 | 1.241 | 1.485 | 1.750 | 2.036 | 2.341 | 3.011 | 3.758 | 4.582 | 5.481  | 6.454  | 8.232  | 9.348  | 10.442 | 11.509 |
| 4000   | 1.111 | 1.356 | 1.623 | 1.912 | 2.223 | 2.556 | 3.286 | 4.100 | 4.997 | 5.975  | 7.033  | 9.102  | 10.322 | 11.509 | 12.659 |
| 4500   | 1.227 | 1.496 | 1.790 | 2.109 | 2.451 | 2.817 | 3.620 | 4.515 | 5.500 | 6.572  | 7.731  | 10.171 | 11.509 | 12.801 |        |
| 5000   | 1.339 | 1.633 | 1.953 | 2.300 | 2.673 | 3.072 | 3.945 | 4.916 | 5.985 | 7.147  | 8.403  | 11.183 | 12.659 |        |        |
| 6000   | 1.557 | 1.897 | 2.267 | 2.668 | 3.099 | 3.558 | 4.563 | 5.679 | 6.902 | 8.231  | 9.661  | 12.816 |        |        |        |
| 7000   | 1.764 | 2.148 | 2.566 | 3.017 | 3.500 | 4.016 | 5.141 | 6.386 | 7.747 | 9.221  | 10.802 |        |        |        |        |
| 8000   | 1.962 | 2.387 | 2.848 | 3.345 | 3.878 | 4.444 | 5.676 | 7.036 | 8.517 | 10.113 |        |        |        |        |        |
| 10000  | 2.329 | 2.826 | 3.364 | 3.940 | 4.555 | 5.206 | 6.613 |       |       |        |        |        |        |        |        |
| 12000  | 2.655 | 3.211 | 3.808 | 4.446 | 5.121 | 5.832 |       |       |       |        |        |        |        |        |        |
| 14000  | 2.937 | 3.536 | 4.176 | 4.853 |       |       |       |       |       |        |        |        |        |        |        |



# MEGADYNE MEGASYNC™

## SILVER3 8M

**BASIC PERFORMANCE IN kW FOR SILVER3 8M - 20 mm WIDE (kW / 20 mm)**

| D (mm) | 56,02 | 61,12 | 66,21 | 71,30 | 76,39 | 81,49 | 86,58 | 91,67 | 96,77 | 101,86 | 112,05 | 122,23 | 142,60 | 162,97 | 183,35 | 203,72 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Z      | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38    | 40     | 44     | 48     | 56     | 64     | 72     | 80     |
| RPM    |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |
| 10     | 0,07  | 0,08  | 0,09  | 0,09  | 0,10  | 0,11  | 0,11  | 0,12  | 0,13  | 0,13   | 0,15   | 0,16   | 0,19   | 0,21   | 0,24   | 0,27   |
| 20     | 0,15  | 0,16  | 0,17  | 0,19  | 0,20  | 0,21  | 0,23  | 0,24  | 0,25  | 0,27   | 0,29   | 0,32   | 0,37   | 0,43   | 0,48   | 0,53   |
| 30     | 0,22  | 0,24  | 0,26  | 0,28  | 0,30  | 0,32  | 0,34  | 0,36  | 0,38  | 0,40   | 0,44   | 0,48   | 0,56   | 0,64   | 0,72   | 0,80   |
| 50     | 0,35  | 0,39  | 0,43  | 0,47  | 0,50  | 0,53  | 0,57  | 0,60  | 0,63  | 0,67   | 0,73   | 0,80   | 0,93   | 1,07   | 1,20   | 1,33   |
| 70     | 0,47  | 0,53  | 0,60  | 0,65  | 0,70  | 0,75  | 0,79  | 0,84  | 0,89  | 0,93   | 1,03   | 1,12   | 1,31   | 1,49   | 1,68   | 1,87   |
| 100    | 0,66  | 0,74  | 0,83  | 0,92  | 1,00  | 1,07  | 1,13  | 1,20  | 1,27  | 1,33   | 1,47   | 1,60   | 1,87   | 2,13   | 2,40   | 2,67   |
| 200    | 1,25  | 1,41  | 1,58  | 1,75  | 1,92  | 2,11  | 2,27  | 2,40  | 2,53  | 2,67   | 2,93   | 3,20   | 3,73   | 4,27   | 4,80   | 5,33   |
| 300    | 1,81  | 2,05  | 2,29  | 2,54  | 2,80  | 3,07  | 3,34  | 3,60  | 3,80  | 4,00   | 4,40   | 4,80   | 5,60   | 6,40   | 7,20   | 8,00   |
| 400    | 2,37  | 2,67  | 2,99  | 3,32  | 3,65  | 4,00  | 4,35  | 4,72  | 5,07  | 5,33   | 5,87   | 6,40   | 7,46   | 8,53   | 9,59   | 10,66  |
| 500    | 2,91  | 3,29  | 3,68  | 4,08  | 4,49  | 4,92  | 5,35  | 5,80  | 6,25  | 6,66   | 7,33   | 8,00   | 9,33   | 10,66  | 11,99  | 13,32  |
| 600    | 3,44  | 3,89  | 4,35  | 4,83  | 5,32  | 5,82  | 6,33  | 6,86  | 7,40  | 7,95   | 8,80   | 9,59   | 11,19  | 12,79  | 14,38  | 15,97  |
| 700    | 3,97  | 4,49  | 5,02  | 5,57  | 6,13  | 6,71  | 7,30  | 7,91  | 8,53  | 9,17   | 10,26  | 11,19  | 13,05  | 14,91  | 16,77  | 18,63  |
| 800    | 4,49  | 5,08  | 5,68  | 6,30  | 6,94  | 7,59  | 8,26  | 8,95  | 9,66  | 10,37  | 11,72  | 12,79  | 14,91  | 17,04  | 19,16  | 21,27  |
| 900    | 5,01  | 5,66  | 6,33  | 7,02  | 7,73  | 8,46  | 9,21  | 9,98  | 10,76 | 11,57  | 13,19  | 14,38  | 16,77  | 19,16  | 21,54  | 23,91  |
| 1000   | 5,52  | 6,24  | 6,98  | 7,74  | 8,52  | 9,33  | 10,15 | 11,00 | 11,86 | 12,75  | 14,56  | 15,97  | 18,63  | 21,27  | 23,91  | 26,55  |
| 1100   | 6,03  | 6,81  | 7,62  | 8,45  | 9,31  | 10,19 | 11,09 | 12,01 | 12,95 | 13,92  | 15,90  | 17,57  | 20,48  | 23,38  | 26,28  | 29,17  |
| 1200   | 6,54  | 7,38  | 8,26  | 9,16  | 10,09 | 11,04 | 12,02 | 13,01 | 14,04 | 15,08  | 17,23  | 19,16  | 22,33  | 25,49  | 28,65  | 31,79  |
| 1300   | 7,04  | 7,95  | 8,89  | 9,86  | 10,86 | 11,88 | 12,94 | 14,01 | 15,11 | 16,23  | 18,54  | 20,74  | 24,18  | 27,60  | 31,01  | 34,40  |
| 1400   | 7,54  | 8,51  | 9,52  | 10,56 | 11,63 | 12,72 | 13,85 | 15,00 | 16,18 | 17,38  | 19,85  | 22,33  | 26,02  | 29,70  | 33,36  | 37,00  |
| 1460   | 7,83  | 8,85  | 9,90  | 10,98 | 12,09 | 13,23 | 14,40 | 15,59 | 16,81 | 18,06  | 20,63  | 23,28  | 27,12  | 30,95  | 34,77  | 38,56  |
| 1500   | 8,03  | 9,07  | 10,14 | 11,25 | 12,39 | 13,56 | 14,76 | 15,98 | 17,24 | 18,52  | 21,15  | 23,88  | 27,86  | 31,79  | 35,70  | 39,59  |
| 1600   | 8,52  | 9,63  | 10,77 | 11,94 | 13,15 | 14,39 | 15,66 | 16,96 | 18,29 | 19,65  | 22,44  | 25,34  | 29,70  | 33,88  | 38,04  | 42,17  |
| 1700   | 9,01  | 10,18 | 11,39 | 12,63 | 13,90 | 15,22 | 16,56 | 17,93 | 19,34 | 20,77  | 23,72  | 26,78  | 31,53  | 35,96  | 40,37  | 44,74  |
| 1800   | 9,50  | 10,73 | 12,00 | 13,31 | 14,66 | 16,04 | 17,45 | 18,90 | 20,38 | 21,89  | 25,00  | 28,22  | 33,36  | 38,04  | 42,69  | 47,30  |
| 1900   | 9,99  | 11,28 | 12,61 | 13,99 | 15,40 | 16,85 | 18,34 | 19,86 | 21,42 | 23,00  | 26,27  | 29,65  | 35,18  | 40,11  | 45,00  | 49,84  |
| 2000   | 10,47 | 11,82 | 13,22 | 14,66 | 16,15 | 17,67 | 19,22 | 20,82 | 22,45 | 24,11  | 27,53  | 31,07  | 37,00  | 42,17  | 47,30  | 52,37  |
| 2800   | 14,27 | 16,11 | 18,01 | 19,96 | 21,97 | 24,03 | 26,14 | 28,30 | 30,50 | 32,75  | 37,36  | 42,12  | 51,36  | 58,38  | 65,27  | 72,02  |
| 2920   | 14,83 | 16,74 | 18,71 | 20,74 | 22,83 | 24,97 | 27,16 | 29,40 | 31,68 | 34,01  | 38,79  | 43,74  | 53,48  | 60,76  | 67,89  |        |
| 3000   | 15,02 | 16,96 | 18,96 | 21,01 | 23,12 | 25,29 | 27,51 | 29,77 | 32,09 | 34,44  | 39,28  | 44,28  | 54,70  | 62,34  | 69,63  |        |
| 3500   | 17,50 | 19,75 | 22,07 | 24,46 | 26,91 | 29,42 | 31,99 | 34,61 | 37,29 | 40,01  | 45,60  | 51,37  | 63,35  | 72,02  |        |        |
| 4000   | 19,76 | 22,29 | 24,90 | 27,59 | 30,35 | 33,17 | 36,05 | 38,99 | 41,99 | 45,04  | 51,29  | 57,72  | 71,04  |        |        |        |
| 4500   | 21,99 | 24,79 | 27,69 | 30,66 | 33,71 | 36,83 | 40,02 | 43,26 | 46,57 | 49,93  | 56,80  | 63,85  |        |        |        |        |
| 5000   | 24,17 | 27,25 | 30,42 | 33,68 | 37,01 | 40,41 | 43,89 | 47,42 | 51,02 | 54,67  | 62,12  |        |        |        |        |        |
| 5500   | 26,33 | 29,67 | 33,10 | 36,63 | 40,23 | 43,91 | 47,66 | 51,47 | 55,34 | 59,26  |        |        |        |        |        |        |



# MEGADYNE MEGASYNC™

## SILVER3 14M

| BASIC PERFORMANCE IN kW FOR SILVER3 14M - 40 mm WIDE (kW / 40 mm) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D (mm)  | 124,78 | 129,23 | 133,69 | 142,60 | 151,52 | 160,43 | 169,34 | 178,25 | 196,08 | 213,90 | 231,73 | 249,55 | 267,38 | 285,21 | 303,03 | 320,86 | 356,51 |
| Z   | 28     | 29     | 30     | 32     | 34     | 36     | 38     | 40     | 44     | 48     | 52     | 56     | 60     | 64     | 68     | 72     | 80     |
| RPM   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10  | 0,44   | 0,46   | 0,48   | 0,51   | 0,54   | 0,57   | 0,60   | 0,63   | 0,70   | 0,76   | 0,83   | 0,89   | 0,95   | 1,02   | 1,08   | 1,14   | 1,27   |
| 20  | 0,89   | 0,92   | 0,95   | 1,02   | 1,08   | 1,14   | 1,21   | 1,27   | 1,40   | 1,52   | 1,65   | 1,78   | 1,90   | 2,03   | 2,16   | 2,28   | 2,54   |
| 30  | 1,33   | 1,38   | 1,43   | 1,52   | 1,62   | 1,71   | 1,81   | 1,90   | 2,09   | 2,28   | 2,48   | 2,67   | 2,86   | 3,05   | 3,24   | 3,43   | 3,81   |
| 50  | 2,13   | 2,23   | 2,32   | 2,51   | 2,70   | 2,86   | 3,01   | 3,17   | 3,49   | 3,81   | 4,13   | 4,44   | 4,76   | 5,08   | 5,39   | 5,71   | 6,35   |
| 70  | 2,88   | 3,00   | 3,13   | 3,38   | 3,63   | 3,89   | 4,15   | 4,42   | 4,89   | 5,33   | 5,78   | 6,22   | 6,66   | 7,11   | 7,55   | 8,00   | 8,88   |
| 100   | 3,95   | 4,12   | 4,29   | 4,64   | 4,99   | 5,35   | 5,70   | 6,07   | 6,80   | 7,55   | 8,25   | 8,88   | 9,52   | 10,15  | 10,79  | 11,42  | 12,69  |
| 200   | 7,32   | 7,64   | 7,95   | 8,59   | 9,24   | 9,90   | 10,56  | 11,23  | 12,59  | 13,98  | 15,38  | 16,82  | 18,27  | 19,74  | 21,22  | 22,73  | 25,37  |
| 300   | 10,50  | 10,95  | 11,40  | 12,32  | 13,25  | 14,19  | 15,14  | 16,10  | 18,05  | 20,03  | 22,05  | 24,10  | 26,18  | 28,28  | 30,41  | 32,57  | 36,95  |
| 400   | 13,55  | 14,14  | 14,72  | 15,91  | 17,11  | 18,32  | 19,55  | 20,78  | 23,30  | 25,86  | 28,46  | 31,10  | 33,78  | 36,49  | 39,24  | 42,01  | 47,65  |
| 500   | 16,52  | 17,23  | 17,95  | 19,39  | 20,85  | 22,33  | 23,82  | 25,33  | 28,40  | 31,51  | 34,68  | 37,89  | 41,15  | 44,45  | 47,78  | 51,16  | 58,00  |
| 600   | 19,42  | 20,26  | 21,10  | 22,79  | 24,51  | 26,24  | 28,00  | 29,77  | 33,37  | 37,02  | 40,74  | 44,51  | 48,33  | 52,19  | 56,10  | 60,05  | 68,06  |
| 720   | 22,83  | 23,81  | 24,80  | 26,79  | 28,80  | 30,84  | 32,90  | 34,98  | 39,19  | 43,48  | 47,84  | 52,25  | 56,72  | 61,24  | 65,81  | 70,43  | 79,78  |
| 800   | 25,06  | 26,14  | 27,22  | 29,40  | 31,61  | 33,85  | 36,10  | 38,38  | 43,01  | 47,70  | 52,47  | 57,30  | 62,20  | 67,14  | 72,14  | 77,18  | 87,39  |
| 900   | 27,81  | 29,01  | 30,20  | 32,63  | 35,07  | 37,55  | 40,05  | 42,58  | 47,69  | 52,89  | 58,17  | 63,51  | 68,91  | 74,37  | 79,88  | 85,44  | 96,68  |
| 1000  | 30,53  | 31,83  | 33,15  | 35,80  | 38,49  | 41,20  | 43,94  | 46,70  | 52,31  | 57,99  | 63,76  | 69,60  | 75,50  | 81,45  | 87,46  | 93,51  | 105,74 |
| 1100  | 33,20  | 34,62  | 36,05  | 38,93  | 41,85  | 44,79  | 47,77  | 50,77  | 56,84  | 63,01  | 69,25  | 75,57  | 81,95  | 88,38  | 94,87  | 101,40 | 114,56 |
| 1200  | 35,85  | 37,38  | 38,92  | 42,02  | 45,16  | 48,34  | 51,54  | 54,77  | 61,31  | 67,94  | 74,65  | 81,43  | 88,27  | 95,17  | 102,11 | 109,09 | 123,14 |
| 1300  | 38,46  | 40,10  | 41,75  | 45,08  | 48,44  | 51,83  | 55,26  | 58,72  | 65,71  | 72,79  | 79,95  | 87,18  | 94,47  | 101,80 | 109,18 | 116,59 | 131,47 |
| 1400  | 41,04  | 42,79  | 44,54  | 48,09  | 51,67  | 55,29  | 58,93  | 62,61  | 70,04  | 77,56  | 85,15  | 92,82  | 100,53 | 108,29 | 116,08 | 123,90 | 139,56 |
| 1460  | 42,57  | 44,39  | 46,21  | 49,88  | 53,59  | 57,33  | 61,11  | 64,91  | 72,60  | 80,38  | 88,23  | 96,15  | 104,11 | 112,11 | 120,14 | 128,18 | 144,29 |
| 1600  | 46,12  | 48,07  | 50,04  | 54,01  | 58,01  | 62,05  | 66,12  | 70,22  | 78,50  | 86,86  | 95,28  | 103,76 | 112,28 | 120,81 | 129,36 | 137,91 | 154,95 |
| 1700  | 48,62  | 50,68  | 52,75  | 56,92  | 61,13  | 65,37  | 69,65  | 73,95  | 82,63  | 91,39  | 100,20 | 109,06 | 117,95 | 126,84 | 135,73 | 144,60 |        |
| 1800  | 51,09  | 53,25  | 55,42  | 59,79  | 64,20  | 68,65  | 73,12  | 77,62  | 86,70  | 95,84  | 105,03 | 114,25 | 123,49 | 132,71 | 141,92 | 151,09 |        |
| 1900  | 53,53  | 55,79  | 58,06  | 62,63  | 67,24  | 71,88  | 76,55  | 81,24  | 90,70  | 100,21 | 109,76 | 119,32 | 128,88 | 138,42 | 147,91 |        |        |
| 2000  | 55,95  | 58,31  | 60,68  | 65,44  | 70,24  | 75,07  | 79,93  | 84,81  | 94,63  | 104,50 | 114,39 | 124,27 | 134,14 | 143,96 |        |        |        |
| 2400  | 65,39  | 68,11  | 70,84  | 76,34  | 81,86  | 87,40  | 92,96  | 98,53  | 109,67 | 120,80 | 131,86 |        |        |        |        |        |        |
| 2800  | 74,42  | 77,48  | 80,55  | 86,70  | 92,86  | 99,02  | 105,18 | 111,33 | 123,56 |        |        |        |        |        |        |        |        |
| 2920  | 77,05  | 80,20  | 83,36  | 89,70  | 96,03  | 102,37 | 108,69 | 114,99 | 127,49 |        |        |        |        |        |        |        |        |
| 3000  | 78,78  | 82,00  | 85,22  | 91,67  | 98,12  | 104,56 | 110,98 | 117,37 | 130,05 |        |        |        |        |        |        |        |        |
| 3500  | 89,24  | 92,80  | 96,36  | 103,47 | 110,53 | 117,54 |        |        |        |        |        |        |        |        |        |        |        |
| 4000  | 99,01  | 102,86 | 106,70 | 114,31 |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 4500  | 108,06 | 112,13 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |





MEGADYNE MEGASYNC™

GOLD2



# MEGADYNE MEGASYNC™

## GOLD2



Gold2 belts have RPC profile, designed even to be interchangeable with existing deep toothed profile, which include HTB, RPP profiles and run on pulleys according to ISO 13050. MEGASYNC™ Gold2 belts are antistatic according to ISO 9563.

Megadyne MEGASYNC™ Gold2 belts have been developed to give a more powerful alternative to RPP and Silver3 belts to compete against high-performance transmission systems using chains and gears, that always have a disadvantage in terms of weight, noise, lubrication and maintenance costs.

MEGASYNC™ Gold3 can be used to improve and easily upgrade already existing drives working with both MEGASYNC™ RPP and MEGASYNC™ Silver. Also, we always suggest to check that every other transmission component can withstand the increased transmitted power, especially if you are going to replace a MEGASYNC™ RPP, because of the wide power upgrade.

The design of Gold2 timing belts offer:

- Increased performance compared to MEGASYNC™ RPP and to MEGASYNC™ Silver3
- The possibility to keep using the same RPP pulleys.

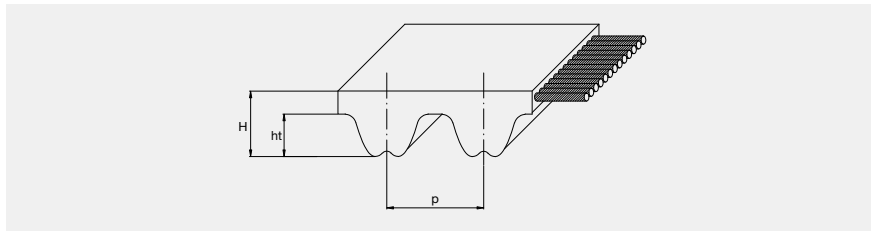
MEGASYNC™ Gold2 14M belts have two nylon plies on the teeth to:

- Improve belt resistance to wearing
- Reduce friction and noise levels.

Because of these features, replacing an MEGASYNC™ RPP or Silver3 with an MEGASYNC™ Gold2 can:

- Reduce belt width thanks to the higher power rate; this allows also to reduce the required pulley width. They both lead to a significant transmission weight reduction
- Reduce the pulley diameters thanks to the higher power rate; this leads to a lower belt linear speed and to the consequent noise reduction.

### GOLD2



| PITCH             |    | GOLD2 5M | GOLD2 8M | GOLD2 14M |
|-------------------|----|----------|----------|-----------|
| Pitch length (mm) | p  | 5,00     | 8,00     | 14,00     |
| Teeth height (mm) | ht | 2,00     | 3,20     | 6,00      |
| Belt height (mm)  | H  | 3,80     | 5,40     | 9,70      |

#### RESISTANCE TO: STD BELT RESISTANCE

|                      |               |
|----------------------|---------------|
| Water                | <b>Medium</b> |
| Acids / Alkalis      | <b>None</b>   |
| Solvents             | <b>None</b>   |
| Mineral oils         | <b>Low</b>    |
| Oils                 | <b>Low</b>    |
| Greases              | <b>Medium</b> |
| Fuels                | <b>None</b>   |
| Environmental agents | <b>Medium</b> |

#### OTHER FEATURES

|                   |                              |
|-------------------|------------------------------|
| Temperature range | <b>Min: -25 °C</b>           |
|                   | <b>Max: 80 °C</b>            |
|                   | <b>Max peak: 100 °C</b>      |
| Hardness          | <b>90 +/-4 ShA</b>           |
| Antistatic        | <b>According to ISO 9563</b> |



# MEGADYNE MEGASYNC™

## GOLD2

### STANDARD TOLERANCES

| WIDTH TOLERANCES |        |                         |                          |                |
|------------------|--------|-------------------------|--------------------------|----------------|
| BELT WIDTH (mm)  |        | TOLERANCE ON BELT WIDTH |                          |                |
|                  |        | BELT LENGTH (mm)        |                          |                |
| MORE THAN        | UP TO  | UP TO 838               | MORE THAN 838 UP TO 1676 | MORE THAN 1676 |
| -                | 11,10  | +0,5 / -0,8             | +0,5 / 0,8               | -              |
| 11,10            | 38,10  | ±0,8                    | +0,8 / -1,3              | +0,8 / -1,3    |
| 38,10            | 50,80  | +0,8 / -1,3             | ±1,3                     | +1,3 / -1,5    |
| 50,80            | 76,20  | +1,3 / -1,5             | ±1,5                     | +1,5 / -2,0    |
| 76,20            | 170,00 | +1,3 / -1,5             | +1,3 / -2,0              | ±2,0           |

| LENGTH TOLERANCES |       |  |  |
|-------------------|-------|--|--|
| BELT LENGTH (mm)  |       | TOLERANCE (mm)   | CENTER DISTANCE TOLERANCE (MM)   |
| MORE THAN         | UP TO |  |  |
| 254               | 381   | ±0,45  | ±0,225   |
| 381               | 508   | ±0,50  | ±0,250   |
| 508               | 762   | ±0,60  | ±0,300   |
| 762               | 991   | ±0,65  | ±0,325   |
| 991               | 1,220 | ±0,75  | ±0,375   |
| 1,220             | 1,524 | ±0,80  | ±0,400   |
| 1,524             | 1,778 | ±0,85  | ±0,425   |
| 1,778             | 2,032 | ±0,90  | ±0,450   |
| 2,032             | 2,286 | ±0,95  | ±0,475   |
| over 2,286        |       | $\pm \left[ 0,95 + \left( \frac{L - 2286}{254} \cdot 0,03 \right) \right]$ | $\pm \left[ 0,475 + \left( \frac{L - 2286}{254} \cdot 0,015 \right) \right]$ |

| THICKNESS TOLERANCES |                             |                       |         |         |
|----------------------|-----------------------------|-----------------------|---------|---------|
| PITCH                | NOMINAL BELT THICKNESS (mm) | TOLERANCE DEGREE (mm) |         |         |
|                      |                             | STANDARD BELT         | GRADE 2 | GRADE 1 |
| GLD2 5M              | 3,80                        | ±0,60                 | ±0,25   | ±0,15   |
| GLD2 8M              | 5,40                        | ±0,60                 | ±0,25   | ±0,15   |
| GLD2 14M             | 9,70                        | ±0,60                 | ±0,25   | ±0,15   |

For specific application, where you might require different tolerances, please contact our Application Department.

| STANDARD WIDTHS |                  |    |    |    |    |    |    |    |    |     |     |
|-----------------|------------------|----|----|----|----|----|----|----|----|-----|-----|
| PITCH           | BELT WIDTHS (mm) |    |    |    |    |    |    |    |    |     |     |
|                 | 9                | 15 | 20 | 25 | 30 | 40 | 50 | 55 | 85 | 115 | 170 |
| GLD2 5M         | •                | •  |    | •  |    |    |    |    |    |     |     |
| GLD2 8M         |                  |    | •  |    | •  |    | •  |    | •  |     |     |
| GLD2 14M        |                  |    |    |    |    | •  |    | •  | •  | •   | •   |



# MEGADYNE MEGASYNC™

## GOLD2 RANGE

### GOLD2 5M

| CODE         | PITCH LENGTH (mm) |
|--------------|-------------------|
| 180 GLD2 5M  | 180               |
| 225 GLD2 5M  | 225               |
| 235 GLD2 5M  | 235               |
| 245 GLD2 5M  | 245               |
| 255 GLD2 5M  | 255               |
| 265 GLD2 5M  | 265               |
| 270 GLD2 5M  | 270               |
| 280 GLD2 5M  | 280               |
| 285 GLD2 5M  | 285               |
| 295 GLD2 5M  | 295               |
| 300 GLD2 5M  | 300               |
| 305 GLD2 5M  | 305               |
| 325 GLD2 5M  | 325               |
| 330 GLD2 5M  | 330               |
| 345 GLD2 5M  | 345               |
| 350 GLD2 5M  | 350               |
| 375 GLD2 5M  | 375               |
| 400 GLD2 5M  | 400               |
| 420 GLD2 5M  | 420               |
| 425 GLD2 5M  | 425               |
| 450 GLD2 5M  | 450               |
| 455 GLD2 5M  | 455               |
| 460 GLD2 5M  | 460               |
| 465 GLD2 5M  | 465               |
| 475 GLD2 5M  | 475               |
| 500 GLD2 5M  | 500               |
| 525 GLD2 5M  | 525               |
| 535 GLD2 5M  | 535               |
| 565 GLD2 5M  | 565               |
| 575 GLD2 5M  | 575               |
| 580 GLD2 5M  | 580               |
| 600 GLD2 5M  | 600               |
| 610 GLD2 5M  | 610               |
| 615 GLD2 5M  | 615               |
| 635 GLD2 5M  | 635               |
| 640 GLD2 5M  | 640               |
| 650 GLD2 5M  | 650               |
| 670 GLD2 5M  | 670               |
| 675 GLD2 5M  | 675               |
| 700 GLD2 5M  | 700               |
| 705 GLD2 5M  | 705               |
| 710 GLD2 5M  | 710               |
| 725 GLD2 5M  | 725               |
| 740 GLD2 5M  | 740               |
| 750 GLD2 5M  | 750               |
| 755 GLD2 5M  | 755               |
| 800 GLD2 5M  | 800               |
| 835 GLD2 5M  | 835               |
| 850 GLD2 5M  | 850               |
| 890 GLD2 5M  | 890               |
| 900 GLD2 5M  | 900               |
| 935 GLD2 5M  | 935               |
| 940 GLD2 5M  | 940               |
| 950 GLD2 5M  | 950               |
| 980 GLD2 5M  | 980               |
| 1000 GLD2 5M | 1000              |
| 1025 GLD2 5M | 1025              |
| 1050 GLD2 5M | 1050              |
| 1100 GLD2 5M | 1100              |
| 1125 GLD2 5M | 1125              |
| 1135 GLD2 5M | 1135              |
| 1195 GLD2 5M | 1195              |

### GOLD2 5M

| CODE         | PITCH LENGTH (mm) |
|--------------|-------------------|
| 1200 GLD2 5M | 1200              |
| 1240 GLD2 5M | 1240              |
| 1270 GLD2 5M | 1270              |
| 1420 GLD2 5M | 1420              |
| 1500 GLD2 5M | 1500              |
| 1595 GLD2 5M | 1595              |
| 1605 GLD2 5M | 1605              |
| 1690 GLD2 5M | 1690              |
| 1790 GLD2 5M | 1790              |
| 1800 GLD2 5M | 1800              |
| 1870 GLD2 5M | 1870              |
| 1895 GLD2 5M | 1895              |
| 1945 GLD2 5M | 1945              |
| 2000 GLD2 5M | 2000              |
| 2250 GLD2 5M | 2250              |
| 2350 GLD2 5M | 2350              |
| 2525 GLD2 5M | 2525              |

### GOLD2 8M

| CODE         | PITCH LENGTH (mm) |
|--------------|-------------------|
| 248 GLD2 8M  | 248               |
| 288 GLD2 8M  | 288               |
| 320 GLD2 8M  | 320               |
| 352 GLD2 8M  | 352               |
| 360 GLD2 8M  | 360               |
| 376 GLD2 8M  | 376               |
| 384 GLD2 8M  | 384               |
| 408 GLD2 8M  | 408               |
| 416 GLD2 8M  | 416               |
| 424 GLD2 8M  | 424               |
| 456 GLD2 8M  | 456               |
| 480 GLD2 8M  | 480               |
| 536 GLD2 8M  | 536               |
| 544 GLD2 8M  | 544               |
| 560 GLD2 8M  | 560               |
| 600 GLD2 8M  | 600               |
| 608 GLD2 8M  | 608               |
| 632 GLD2 8M  | 632               |
| 640 GLD2 8M  | 640               |
| 680 GLD2 8M  | 680               |
| 720 GLD2 8M  | 720               |
| 760 GLD2 8M  | 760               |
| 800 GLD2 8M  | 800               |
| 840 GLD2 8M  | 840               |
| 880 GLD2 8M  | 880               |
| 896 GLD2 8M  | 896               |
| 920 GLD2 8M  | 920               |
| 960 GLD2 8M  | 960               |
| 976 GLD2 8M  | 976               |
| 1000 GLD2 8M | 1000              |
| 1040 GLD2 8M | 1040              |
| 1064 GLD2 8M | 1064              |
| 1080 GLD2 8M | 1080              |
| 1120 GLD2 8M | 1120              |
| 1160 GLD2 8M | 1160              |
| 1200 GLD2 8M | 1200              |
| 1224 GLD2 8M | 1224              |
| 1280 GLD2 8M | 1280              |
| 1352 GLD2 8M | 1352              |

### GOLD2 8M

| CODE         | PITCH LENGTH (mm) |
|--------------|-------------------|
| 1424 GLD2 8M | 1424              |
| 1440 GLD2 8M | 1440              |
| 1464 GLD2 8M | 1464              |
| 1512 GLD2 8M | 1512              |
| 1584 GLD2 8M | 1584              |
| 1600 GLD2 8M | 1600              |
| 1680 GLD2 8M | 1680              |
| 1760 GLD2 8M | 1760              |
| 1800 GLD2 8M | 1800              |
| 1904 GLD2 8M | 1904              |
| 2000 GLD2 8M | 2000              |
| 2200 GLD2 8M | 2200              |
| 2240 GLD2 8M | 2240              |
| 2272 GLD2 8M | 2272              |
| 2400 GLD2 8M | 2400              |
| 2520 GLD2 8M | 2520              |
| 2600 GLD2 8M | 2600              |
| 2800 GLD2 8M | 2800              |
| 2840 GLD2 8M | 2840              |
| 3048 GLD2 8M | 3048              |
| 3200 GLD2 8M | 3200              |
| 3280 GLD2 8M | 3280              |
| 3600 GLD2 8M | 3600              |
| 4000 GLD2 8M | 4000              |
| 4400 GLD2 8M | 4400              |

### GOLD2 14M

| CODE          | PITCH LENGTH (mm) |
|---------------|-------------------|
| 966 GLD2 14M  | 966               |
| 994 GLD2 14M  | 994               |
| 1092 GLD2 14M | 1092              |
| 1106 GLD2 14M | 1106              |
| 1120 GLD2 14M | 1120              |
| 1190 GLD2 14M | 1190              |
| 1260 GLD2 14M | 1260              |
| 1288 GLD2 14M | 1288              |
| 1344 GLD2 14M | 1344              |
| 1400 GLD2 14M | 1400              |
| 1442 GLD2 14M | 1442              |
| 1512 GLD2 14M | 1512              |
| 1568 GLD2 14M | 1568              |
| 1610 GLD2 14M | 1610              |
| 1750 GLD2 14M | 1750              |
| 1764 GLD2 14M | 1764              |
| 1778 GLD2 14M | 1778              |
| 1848 GLD2 14M | 1848              |
| 1890 GLD2 14M | 1890              |
| 1904 GLD2 14M | 1904              |
| 1960 GLD2 14M | 1960              |
| 2100 GLD2 14M | 2100              |
| 2240 GLD2 14M | 2240              |
| 2310 GLD2 14M | 2310              |
| 2380 GLD2 14M | 2380              |
| 2450 GLD2 14M | 2450              |
| 2520 GLD2 14M | 2520              |
| 2590 GLD2 14M | 2590              |
| 2660 GLD2 14M | 2660              |
| 2800 GLD2 14M | 2800              |
| 2968 GLD2 14M | 2968              |

### GOLD2 14M

| CODE          | PITCH LENGTH (mm) |
|---------------|-------------------|
| 3136 GLD2 14M | 3136              |
| 3150 GLD2 14M | 3150              |
| 3304 GLD2 14M | 3304              |
| 3360 GLD2 14M | 3360              |
| 3500 GLD2 14M | 3500              |
| 3850 GLD2 14M | 3850              |
| 3920 GLD2 14M | 3920              |
| 4326 GLD2 14M | 4326              |
| 4410 GLD2 14M | 4410              |
| 4578 GLD2 14M | 4578              |
| 4956 GLD2 14M | 4956              |

### GOLD2 8DD\*

| CODE          | PITCH LENGTH (mm) |
|---------------|-------------------|
| 600 GLD2-8DD  | 600               |
| 608 GLD2-8DD  | 608               |
| 632 GLD2-8DD  | 632               |
| 640 GLD2-8DD  | 640               |
| 680 GLD2-8DD  | 680               |
| 720 GLD2-8DD  | 720               |
| 760 GLD2-8DD  | 760               |
| 800 GLD2-8DD  | 800               |
| 840 GLD2-8DD  | 840               |
| 880 GLD2-8DD  | 880               |
| 896 GLD2-8DD  | 896               |
| 920 GLD2-8DD  | 920               |
| 960 GLD2-8DD  | 960               |
| 1000 GLD2-8DD | 1000              |
| 1040 GLD2-8DD | 1040              |
| 1080 GLD2-8DD | 1080              |
| 1120 GLD2-8DD | 1120              |
| 1200 GLD2-8DD | 1200              |
| 1224 GLD2-8DD | 1224              |
| 1280 GLD2-8DD | 1280              |
| 1352 GLD2-8DD | 1352              |
| 1424 GLD2-8DD | 1424              |
| 1440 GLD2-8DD | 1440              |
| 1464 GLD2-8DD | 1464              |
| 1600 GLD2-8DD | 1600              |
| 1680 GLD2-8DD | 1680              |
| 1760 GLD2-8DD | 1760              |
| 1792 GLD2-8DD | 1792              |
| 1800 GLD2-8DD | 1800              |
| 1904 GLD2-8DD | 1904              |
| 2000 GLD2-8DD | 2000              |
| 2200 GLD2-8DD | 2200              |
| 2240 GLD2-8DD | 2240              |
| 2272 GLD2-8DD | 2272              |
| 2400 GLD2-8DD | 2400              |
| 2520 GLD2-8DD | 2520              |
| 2600 GLD2-8DD | 2600              |
| 2800 GLD2-8DD | 2800              |
| 2840 GLD2-8DD | 2840              |
| 3048 GLD2-8DD | 3048              |
| 3200 GLD2-8DD | 3200              |
| 3280 GLD2-8DD | 3280              |
| 3600 GLD2-8DD | 3600              |
| 4000 GLD2-8DD | 4000              |
| 4400 GLD2-8DD | 4400              |

### GOLD2 14DD\*

| CODE           | PITCH LENGTH (mm) |
|----------------|-------------------|
| 966 GLD2-14DD  | 966               |
| 994 GLD2-14DD  | 994               |
| 1092 GLD2-14DD | 1092              |
| 1106 GLD2-14DD | 1106              |
| 1120 GLD2-14DD | 1120              |
| 1190 GLD2-14DD | 1190              |
| 1260 GLD2-14DD | 1260              |
| 1288 GLD2-14DD | 1288              |
| 1344 GLD2-14DD | 1344              |
| 1400 GLD2-14DD | 1400              |
| 1442 GLD2-14DD | 1442              |
| 1568 GLD2-14DD | 1568              |
| 1610 GLD2-14DD | 1610              |
| 1750 GLD2-14DD | 1750              |
| 1764 GLD2-14DD | 1764              |
| 1778 GLD2-14DD | 1778              |
| 1848 GLD2-14DD | 1848              |
| 1890 GLD2-14DD | 1890              |
| 1904 GLD2-14DD | 1904              |
| 1960 GLD2-14DD | 1960              |
| 2100 GLD2-14DD | 2100              |
| 2240 GLD2-14DD | 2240              |
| 2310 GLD2-14DD | 2310              |
| 2380 GLD2-14DD | 2380              |
| 2450 GLD2-14DD | 2450              |
| 2520 GLD2-14DD | 2520              |
| 2590 GLD2-14DD | 2590              |
| 2660 GLD2-14DD | 2660              |
| 2800 GLD2-14DD | 2800              |
| 2968 GLD2-14DD | 2968              |
| 3136 GLD2-14DD | 3136              |
| 3150 GLD2-14DD | 3150              |
| 3304 GLD2-14DD | 3304              |
| 3360 GLD2-14DD | 3360              |
| 3500 GLD2-14DD | 3500              |
| 3850 GLD2-14DD | 3850              |
| 3920 GLD2-14DD | 3920              |
| 4326 GLD2-14DD | 4326              |
| 4410 GLD2-14DD | 4410              |
| 4578 GLD2-14DD | 4578              |
| 4956 GLD2-14DD | 4956              |

(\* ) ON DEMAND



# MEGADYNE MEGASYNC™

## GOLD2 5M

**BASIC PERFORMANCE IN W FOR GOLD2 5M - 9 mm WIDE (W / 9 mm)**

| D (mm) | 28,65 | 31,83 | 35,01 | 38,2  | 41,38 | 44,56 | 50,93 | 57,3  | 63,66  | 70,03  | 76,39  | 89,13  | 101,86 | 114,59 | 127,32 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Z      | 18    | 20    | 22    | 24    | 26    | 28    | 32    | 36    | 40     | 44     | 48     | 56     | 64     | 72     | 80     |
| RPM    |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |
| 10     | 8     | 10    | 12    | 14    | 16    | 19    | 24    | 30    | 37     | 40     | 44     | 51     | 59     | 66     | 73     |
| 20     | 15    | 18    | 22    | 26    | 30    | 34    | 44    | 55    | 67     | 81     | 88     | 103    | 117    | 132    | 147    |
| 30     | 21    | 26    | 31    | 36    | 42    | 48    | 62    | 78    | 95     | 114    | 132    | 154    | 176    | 198    | 220    |
| 50     | 32    | 40    | 47    | 56    | 65    | 75    | 97    | 121   | 147    | 177    | 208    | 257    | 293    | 330    | 367    |
| 70     | 43    | 53    | 63    | 75    | 87    | 100   | 129   | 161   | 197    | 235    | 278    | 359    | 411    | 462    | 513    |
| 100    | 59    | 72    | 86    | 101   | 118   | 136   | 175   | 218   | 267    | 319    | 377    | 505    | 587    | 660    | 733    |
| 200    | 106   | 130   | 155   | 183   | 213   | 245   | 316   | 395   | 482    | 578    | 681    | 913    | 1.067  | 1.200  | 1.333  |
| 300    | 150   | 183   | 220   | 259   | 302   | 347   | 447   | 559   | 682    | 817    | 964    | 1.291  | 1.600  | 1.800  | 2.000  |
| 400    | 192   | 235   | 281   | 331   | 386   | 444   | 572   | 715   | 872    | 1.045  | 1.232  | 1.650  | 2.126  | 2.400  | 2.666  |
| 500    | 233   | 284   | 340   | 401   | 467   | 537   | 692   | 865   | 1.056  | 1.265  | 1.491  | 1.997  | 2.572  | 2.999  | 3.332  |
| 600    | 272   | 332   | 397   | 469   | 545   | 628   | 808   | 1.010 | 1.234  | 1.478  | 1.743  | 2.334  | 3.006  | 3.598  | 3.998  |
| 700    | 310   | 378   | 453   | 535   | 622   | 716   | 922   | 1.153 | 1.407  | 1.686  | 1.988  | 2.662  | 3.429  | 4.198  | 4.663  |
| 800    | 347   | 424   | 508   | 599   | 697   | 803   | 1.034 | 1.292 | 1.577  | 1.890  | 2.228  | 2.984  | 3.843  | 4.796  | 5.328  |
| 900    | 384   | 469   | 562   | 663   | 771   | 888   | 1.143 | 1.429 | 1.744  | 2.090  | 2.464  | 3.300  | 4.249  | 5.311  | 5.993  |
| 1000   | 420   | 513   | 615   | 725   | 844   | 971   | 1.251 | 1.563 | 1.909  | 2.286  | 2.696  | 3.610  | 4.649  | 5.810  | 6.657  |
| 1100   | 456   | 557   | 667   | 787   | 915   | 1.053 | 1.357 | 1.696 | 2.070  | 2.480  | 2.924  | 3.916  | 5.042  | 6.302  | 7.321  |
| 1200   | 491   | 600   | 719   | 847   | 986   | 1.135 | 1.461 | 1.827 | 2.230  | 2.671  | 3.150  | 4.217  | 5.430  | 6.787  | 7.983  |
| 1300   | 526   | 642   | 769   | 907   | 1.056 | 1.215 | 1.565 | 1.956 | 2.387  | 2.860  | 3.372  | 4.515  | 5.813  | 7.265  | 8.646  |
| 1400   | 560   | 684   | 820   | 967   | 1.125 | 1.294 | 1.667 | 2.083 | 2.543  | 3.046  | 3.592  | 4.809  | 6.191  | 7.737  | 9.307  |
| 1500   | 594   | 726   | 869   | 1.025 | 1.193 | 1.373 | 1.768 | 2.209 | 2.697  | 3.230  | 3.809  | 5.099  | 6.565  | 8.204  | 9.968  |
| 1600   | 628   | 767   | 919   | 1.083 | 1.260 | 1.450 | 1.868 | 2.334 | 2.849  | 3.413  | 4.024  | 5.387  | 6.935  | 8.666  | 10.577 |
| 1700   | 661   | 808   | 967   | 1.141 | 1.327 | 1.527 | 1.967 | 2.458 | 3.000  | 3.593  | 4.237  | 5.671  | 7.301  | 9.123  | 11.134 |
| 1800   | 695   | 848   | 1.016 | 1.198 | 1.394 | 1.603 | 2.065 | 2.580 | 3.150  | 3.772  | 4.447  | 5.953  | 7.664  | 9.575  | 11.685 |
| 1900   | 727   | 888   | 1.064 | 1.254 | 1.459 | 1.679 | 2.162 | 2.702 | 3.298  | 3.950  | 4.656  | 6.233  | 8.022  | 10.023 | 12.230 |
| 2000   | 760   | 928   | 1.111 | 1.310 | 1.524 | 1.754 | 2.258 | 2.822 | 3.445  | 4.125  | 4.863  | 6.509  | 8.378  | 10.466 | 12.771 |
| 2400   | 868   | 1.059 | 1.269 | 1.496 | 1.741 | 2.003 | 2.578 | 3.221 | 3.931  | 4.707  | 5.548  | 7.424  | 9.552  | 11.929 | 14.550 |
| 2800   | 1.012 | 1.235 | 1.479 | 1.744 | 2.029 | 2.334 | 3.004 | 3.753 | 4.579  | 5.482  | 6.461  | 8.642  | 11.115 | 13.876 | 16.919 |
| 3000   | 1.073 | 1.310 | 1.568 | 1.849 | 2.151 | 2.474 | 3.184 | 3.978 | 4.853  | 5.810  | 6.846  | 9.154  | 11.772 | 14.693 | 17.911 |
| 3200   | 1.114 | 1.360 | 1.628 | 1.919 | 2.233 | 2.568 | 3.305 | 4.128 | 5.036  | 6.028  | 7.102  | 9.494  | 12.206 | 15.230 | 18.561 |
| 3600   | 1.252 | 1.528 | 1.830 | 2.157 | 2.509 | 2.885 | 3.712 | 4.636 | 5.654  | 6.765  | 7.969  | 10.649 | 13.684 | 17.065 | 20.787 |
| 4000   | 1.369 | 1.670 | 2.000 | 2.357 | 2.741 | 3.152 | 4.054 | 5.061 | 6.171  | 7.382  | 8.694  | 11.610 | 14.910 | 18.583 | 22.622 |
| 4500   | 1.512 | 1.844 | 2.207 | 2.601 | 3.025 | 3.478 | 4.471 | 5.580 | 6.800  | 8.132  | 9.572  | 12.773 | 16.389 | 20.409 |        |
| 5000   | 1.651 | 2.014 | 2.411 | 2.840 | 3.301 | 3.795 | 4.877 | 6.083 | 7.411  | 8.858  | 10.422 | 13.893 | 17.809 |        |        |
| 6000   | 1.922 | 2.344 | 2.803 | 3.301 | 3.835 | 4.406 | 5.657 | 7.048 | 8.577  | 10.240 | 12.035 | 16.006 |        |        |        |
| 7000   | 2.183 | 2.659 | 3.179 | 3.740 | 4.343 | 4.987 | 6.394 | 7.956 | 9.669  | 11.528 | 13.530 |        |        |        |        |
| 8000   | 2.433 | 2.962 | 3.538 | 4.160 | 4.827 | 5.538 | 7.089 | 8.807 | 10.685 | 12.718 |        |        |        |        |        |
| 10000  | 2.902 | 3.527 | 4.205 | 4.935 | 5.715 | 6.545 | 8.345 |       |        |        |        |        |        |        |        |
| 12000  | 3.330 | 4.038 | 4.802 | 5.622 | 6.495 | 7.418 |       |       |        |        |        |        |        |        |        |
| 14000  | 3.715 | 4.490 | 5.324 | 6.213 |       |       |       |       |        |        |        |        |        |        |        |



# MEGADYNE MEGASYNC™

## GOLD2 8M

**BASIC PERFORMANCE IN kW FOR GOLD2 8M - 20 mm WIDE (kW / 20 mm)**

| D (mm) | 56,02 | 61,12 | 66,21 | 71,30 | 76,39 | 81,49 | 86,58 | 91,67 | 96,77 | 101,86 | 112,05 | 122,23 | 142,60 | 162,97 | 183,35 | 203,72 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Z      | 22    | 24    | 26    | 28    | 30    | 32    | 34    | 36    | 38    | 40     | 44     | 48     | 56     | 64     | 72     | 80     |
| RPM    |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |
| 10     | 0,10  | 0,11  | 0,12  | 0,13  | 0,14  | 0,15  | 0,16  | 0,17  | 0,18  | 0,19   | 0,21   | 0,22   | 0,26   | 0,30   | 0,34   | 0,37   |
| 20     | 0,20  | 0,22  | 0,24  | 0,26  | 0,28  | 0,30  | 0,32  | 0,34  | 0,35  | 0,37   | 0,41   | 0,45   | 0,52   | 0,60   | 0,67   | 0,75   |
| 30     | 0,28  | 0,31  | 0,34  | 0,37  | 0,40  | 0,43  | 0,46  | 0,49  | 0,52  | 0,55   | 0,62   | 0,67   | 0,78   | 0,90   | 1,01   | 1,12   |
| 50     | 0,45  | 0,49  | 0,54  | 0,59  | 0,63  | 0,68  | 0,73  | 0,78  | 0,83  | 0,88   | 0,98   | 1,08   | 1,28   | 1,49   | 1,68   | 1,87   |
| 70     | 0,60  | 0,67  | 0,73  | 0,79  | 0,86  | 0,92  | 0,99  | 1,05  | 1,12  | 1,18   | 1,32   | 1,45   | 1,73   | 2,01   | 2,29   | 2,58   |
| 100    | 0,83  | 0,92  | 1,00  | 1,09  | 1,18  | 1,27  | 1,36  | 1,45  | 1,54  | 1,63   | 1,82   | 2,00   | 2,38   | 2,77   | 3,16   | 3,56   |
| 200    | 1,55  | 1,71  | 1,87  | 2,03  | 2,20  | 2,36  | 2,53  | 2,70  | 2,86  | 3,03   | 3,38   | 3,72   | 4,43   | 5,15   | 5,88   | 6,62   |
| 300    | 2,23  | 2,46  | 2,69  | 2,92  | 3,16  | 3,39  | 3,63  | 3,88  | 4,12  | 4,36   | 4,86   | 5,36   | 6,37   | 7,40   | 8,45   | 9,51   |
| 400    | 2,88  | 3,18  | 3,48  | 3,78  | 4,08  | 4,39  | 4,70  | 5,01  | 5,33  | 5,65   | 6,28   | 6,93   | 8,24   | 9,58   | 10,93  | 12,31  |
| 500    | 3,52  | 3,88  | 4,25  | 4,62  | 4,99  | 5,36  | 5,74  | 6,12  | 6,51  | 6,89   | 7,67   | 8,46   | 10,06  | 11,69  | 13,35  | 15,03  |
| 600    | 4,14  | 4,57  | 5,00  | 5,44  | 5,87  | 6,32  | 6,76  | 7,21  | 7,66  | 8,12   | 9,03   | 9,96   | 11,85  | 13,77  | 15,71  | 17,68  |
| 700    | 4,76  | 5,25  | 5,74  | 6,24  | 6,74  | 7,25  | 7,76  | 8,28  | 8,80  | 9,32   | 10,37  | 11,44  | 13,60  | 15,80  | 18,03  | 20,29  |
| 800    | 5,36  | 5,91  | 6,47  | 7,03  | 7,60  | 8,17  | 8,75  | 9,33  | 9,91  | 10,50  | 11,69  | 12,89  | 15,32  | 17,80  | 20,31  | 22,86  |
| 900    | 5,96  | 6,57  | 7,19  | 7,81  | 8,44  | 9,08  | 9,72  | 10,36 | 11,01 | 11,67  | 12,98  | 14,32  | 17,02  | 19,77  | 22,56  | 25,38  |
| 1000   | 6,55  | 7,22  | 7,90  | 8,59  | 9,28  | 9,98  | 10,68 | 11,39 | 12,10 | 12,82  | 14,27  | 15,73  | 18,70  | 21,71  | 24,77  | 27,87  |
| 1100   | 7,13  | 7,86  | 8,60  | 9,35  | 10,10 | 10,86 | 11,63 | 12,40 | 13,18 | 13,96  | 15,53  | 17,13  | 20,35  | 23,64  | 26,96  | 30,33  |
| 1200   | 7,71  | 8,50  | 9,30  | 10,11 | 10,92 | 11,74 | 12,57 | 13,40 | 14,24 | 15,08  | 16,79  | 18,51  | 21,99  | 25,53  | 29,12  | 32,75  |
| 1300   | 8,28  | 9,13  | 9,99  | 10,86 | 11,73 | 12,61 | 13,50 | 14,40 | 15,30 | 16,20  | 18,03  | 19,87  | 23,61  | 27,41  | 31,26  | 35,15  |
| 1400   | 8,85  | 9,76  | 10,67 | 11,60 | 12,53 | 13,48 | 14,42 | 15,38 | 16,34 | 17,31  | 19,26  | 21,23  | 25,22  | 29,27  | 33,37  | 37,51  |
| 1500   | 9,41  | 10,38 | 11,35 | 12,34 | 13,33 | 14,33 | 15,34 | 16,36 | 17,38 | 18,40  | 20,48  | 22,57  | 26,81  | 31,11  | 35,46  | 39,85  |
| 1600   | 9,97  | 10,99 | 12,03 | 13,07 | 14,12 | 15,18 | 16,25 | 17,32 | 18,40 | 19,49  | 21,69  | 23,90  | 28,38  | 32,93  | 37,52  | 42,16  |
| 1700   | 10,53 | 11,61 | 12,70 | 13,80 | 14,91 | 16,02 | 17,15 | 18,28 | 19,42 | 20,57  | 22,88  | 25,22  | 29,94  | 34,73  | 39,57  | 44,44  |
| 1800   | 11,08 | 12,21 | 13,36 | 14,52 | 15,69 | 16,86 | 18,05 | 19,24 | 20,44 | 21,64  | 24,07  | 26,53  | 31,49  | 36,52  | 41,59  | 46,70  |
| 1900   | 11,62 | 12,82 | 14,02 | 15,23 | 16,46 | 17,69 | 18,93 | 20,18 | 21,44 | 22,71  | 25,25  | 27,82  | 33,02  | 38,28  | 43,59  | 48,93  |
| 2000   | 12,17 | 13,42 | 14,68 | 15,95 | 17,23 | 18,52 | 19,82 | 21,13 | 22,44 | 23,76  | 26,43  | 29,11  | 34,54  | 40,03  | 45,57  | 51,13  |
| 2500   | 14,85 | 16,37 | 17,90 | 19,45 | 21,00 | 22,57 | 24,15 | 25,74 | 27,33 | 28,93  | 32,16  | 35,41  | 41,95  | 48,54  | 55,15  | 61,75  |
| 3000   | 17,46 | 19,24 | 21,04 | 22,85 | 24,68 | 26,51 | 28,36 | 30,21 | 32,07 | 33,94  | 37,70  | 41,47  | 49,04  | 56,63  | 64,19  |        |
| 3500   | 20,02 | 22,06 | 24,11 | 26,18 | 28,26 | 30,35 | 32,45 | 34,56 | 36,67 | 38,79  | 43,04  | 47,30  | 55,82  | 64,29  |        |        |
| 4000   | 22,52 | 24,81 | 27,11 | 29,43 | 31,75 | 34,09 | 36,43 | 38,78 | 41,13 | 43,49  | 48,20  | 52,91  | 62,28  |        |        |        |
| 4500   | 24,98 | 27,51 | 30,05 | 32,60 | 35,16 | 37,73 | 40,30 | 42,88 | 45,46 | 48,03  | 53,17  | 58,29  |        |        |        |        |
| 5000   | 27,39 | 30,15 | 32,92 | 35,70 | 38,49 | 41,28 | 44,07 | 46,85 | 49,64 | 52,42  | 57,95  |        |        |        |        |        |



# MEGADYNE MEGASYNC™

## GOLD2 14M

**BASIC PERFORMANCE IN kW FOR GOLD2 14M - 40 mm WIDE (kW / 40 mm)**

| D (mm) | 124,78 | 129,23 | 133,69 | 142,60 | 151,52 | 160,43 | 169,34 | 178,25 | 196,08 | 213,90 | 231,73 | 249,55 | 267,38 | 285,21 | 303,03 | 320,86 | 356,51 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z      | 28     | 29     | 30     | 32     | 34     | 36     | 38     | 40     | 44     | 48     | 52     | 56     | 60     | 64     | 68     | 72     | 80     |
| RPM    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10     | 0,75   | 0,78   | 0,81   | 0,86   | 0,91   | 0,97   | 1,02   | 1,07   | 1,18   | 1,29   | 1,40   | 1,50   | 1,61   | 1,72   | 1,82   | 1,93   | 2,15   |
| 20     | 1,50   | 1,56   | 1,61   | 1,72   | 1,82   | 1,93   | 2,04   | 2,15   | 2,36   | 2,58   | 2,79   | 3,01   | 3,22   | 3,43   | 3,65   | 3,86   | 4,29   |
| 30     | 2,25   | 2,33   | 2,42   | 2,58   | 2,74   | 2,90   | 3,06   | 3,22   | 3,54   | 3,86   | 4,19   | 4,51   | 4,83   | 5,15   | 5,47   | 5,80   | 6,44   |
| 50     | 3,65   | 3,80   | 3,95   | 4,24   | 4,54   | 4,83   | 5,10   | 5,37   | 5,90   | 6,44   | 6,98   | 7,51   | 8,05   | 8,59   | 9,12   | 9,66   | 10,73  |
| 70     | 4,95   | 5,15   | 5,35   | 5,75   | 6,16   | 6,57   | 6,98   | 7,40   | 8,23   | 9,02   | 9,77   | 10,52  | 11,27  | 12,02  | 12,77  | 13,52  | 15,03  |
| 100    | 6,84   | 7,11   | 7,39   | 7,95   | 8,51   | 9,07   | 9,64   | 10,21  | 11,37  | 12,54  | 13,72  | 14,91  | 16,10  | 17,17  | 18,25  | 19,32  | 21,46  |
| 200    | 12,80  | 13,32  | 13,84  | 14,88  | 15,93  | 16,99  | 18,05  | 19,12  | 21,29  | 23,48  | 25,69  | 27,92  | 30,17  | 32,44  | 34,73  | 37,04  | 41,69  |
| 300    | 18,48  | 19,22  | 19,97  | 21,47  | 22,99  | 24,51  | 26,05  | 27,60  | 30,72  | 33,88  | 37,07  | 40,29  | 43,53  | 46,81  | 50,11  | 53,43  | 60,14  |
| 400    | 23,97  | 24,93  | 25,90  | 27,85  | 29,82  | 31,80  | 33,79  | 35,80  | 39,84  | 43,94  | 48,07  | 52,24  | 56,45  | 60,70  | 64,97  | 69,27  | 77,97  |
| 500    | 29,33  | 30,51  | 31,69  | 34,08  | 36,48  | 38,90  | 41,34  | 43,79  | 48,74  | 53,75  | 58,80  | 63,90  | 69,04  | 74,23  | 79,45  | 84,70  | 95,31  |
| 600    | 34,58  | 35,98  | 37,37  | 40,18  | 43,02  | 45,87  | 48,74  | 51,63  | 57,46  | 63,35  | 69,31  | 75,31  | 81,36  | 87,46  | 93,60  | 99,79  | 112,26 |
| 700    | 39,75  | 41,35  | 42,96  | 46,19  | 49,44  | 52,72  | 56,01  | 59,33  | 66,03  | 72,79  | 79,62  | 86,51  | 93,46  | 100,45 | 107,49 | 114,57 | 128,85 |
| 800    | 44,85  | 46,65  | 48,46  | 52,10  | 55,77  | 59,46  | 63,18  | 66,92  | 74,46  | 82,08  | 89,78  | 97,53  | 105,34 | 113,21 | 121,13 | 129,09 | 145,13 |
| 900    | 49,88  | 51,88  | 53,89  | 57,94  | 62,01  | 66,12  | 70,25  | 74,40  | 82,78  | 91,24  | 99,78  | 108,38 | 117,04 | 125,76 | 134,53 | 143,35 | 161,10 |
| 1000   | 54,85  | 57,05  | 59,26  | 63,71  | 68,19  | 72,69  | 77,23  | 81,79  | 90,99  | 100,27 | 109,64 | 119,07 | 128,57 | 138,12 | 147,73 | 157,37 | 176,78 |
| 1100   | 59,77  | 62,16  | 64,57  | 69,41  | 74,29  | 79,19  | 84,13  | 89,09  | 99,10  | 109,19 | 119,37 | 129,62 | 139,93 | 150,29 | 160,71 | 171,16 | 192,17 |
| 1200   | 64,64  | 67,23  | 69,83  | 75,06  | 80,32  | 85,62  | 90,95  | 96,31  | 107,11 | 118,00 | 128,97 | 140,02 | 151,12 | 162,28 | 173,48 | 184,72 | 207,28 |
| 1300   | 69,46  | 72,24  | 75,03  | 80,65  | 86,30  | 91,99  | 97,71  | 103,46 | 115,03 | 126,70 | 138,46 | 150,28 | 162,16 | 174,09 | 186,05 | 198,05 | 222,10 |
| 1400   | 74,24  | 77,21  | 80,19  | 86,19  | 92,22  | 98,29  | 104,39 | 110,52 | 122,87 | 135,30 | 147,82 | 160,40 | 173,04 | 185,72 | 198,42 | 211,15 | 236,64 |
| 1500   | 78,98  | 82,14  | 85,31  | 91,68  | 98,09  | 104,53 | 111,01 | 117,52 | 130,62 | 143,81 | 157,07 | 170,39 | 183,76 | 197,17 | 210,59 | 224,02 | 250,88 |
| 1600   | 83,68  | 87,02  | 90,38  | 97,12  | 103,90 | 110,71 | 117,56 | 124,44 | 138,28 | 152,21 | 166,20 | 180,25 | 194,33 | 208,44 | 222,55 | 236,66 | 264,82 |
| 1700   | 88,35  | 91,87  | 95,41  | 102,51 | 109,66 | 116,84 | 124,05 | 131,30 | 145,86 | 160,51 | 175,22 | 189,97 | 204,75 | 219,53 | 234,31 | 249,07 |        |
| 1800   | 92,97  | 96,68  | 100,39 | 107,86 | 115,37 | 122,91 | 130,48 | 138,09 | 153,37 | 168,72 | 184,12 | 199,56 | 215,00 | 230,44 | 245,86 |        |        |
| 1900   | 97,57  | 101,45 | 105,34 | 113,17 | 121,03 | 128,93 | 136,85 | 144,81 | 160,79 | 176,83 | 192,91 | 209,01 | 225,10 | 241,17 |        |        |        |
| 2000   | 102,12 | 106,18 | 110,25 | 118,43 | 126,64 | 134,89 | 143,16 | 151,46 | 168,13 | 184,84 | 201,58 | 218,32 | 235,03 | 251,70 |        |        |        |
| 2500   | 124,42 | 129,33 | 134,25 | 144,10 | 153,99 | 163,90 | 173,82 | 183,75 | 203,60 | 223,42 |        |        |        |        |        |        |        |
| 3000   | 145,93 | 151,63 | 157,33 | 168,74 | 180,16 | 191,57 | 202,97 | 214,34 |        |        |        |        |        |        |        |        |        |
| 3500   | 166,66 | 173,08 | 179,50 | 192,33 | 205,12 | 217,86 |        |        |        |        |        |        |        |        |        |        |        |
| 4000   | 186,58 | 193,67 | 200,74 | 214,82 |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 4500   | 205,68 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |







MEGADYNE MEGASYNC™

TITANIUM

# MEGADYNE MEGASYNC™

## TITANIUM



Megadyne proudly introduces the new Titanium timing belt drive, the latest development in high-performance systems, which significantly improves the “specific power” capacity and offers new application opportunities against alternative systems like gears and chains that always have a disadvantage in terms of weight, noise, lubrication and maintenance costs.

Our latest solution is heavily inspired by our experience with RPC Platinum line, well-known and consolidated in the marketplace. We improved upon its acclaimed characteristics, being guided by two basic principles:

- Develop a new belt/system always in rubber to minimise the noise level of the new drives;
- Retain the parabolic design of the teeth profile to guarantee an easy upgrade of the existing drives. This ensures the concept of interchangeability, which has become our market approach philosophy in the past few years.

At Megadyne, every belt component contributes to the improvements in the mechanical resistance, minimising the risk of belt break or failure and improving a bigger “specific power” capacity. This means higher basic design performance. The tensile cords of the belt have a significant role as they improve the power performance, and support tension loads always bigger. Today high-performance timing belts are built with tensile cords made by steel, fiberglass or aramid.

Fiberglass is known to have a very good strength resistance and dimensional stability, which has become a necessity in timing belts. However, this strength is limited, compared to fibres like carbon.

The new Titanium is a rubber-based timing belt, designed to build on the performance of the Platinum belts thanks to the introduction of carbon cord and a special and low friction fabric for teeth. Moreover, Titanium belts are antistatic, in compliance with ISO 9563 standard.

### FEATURES

Thanks to the innovative new materials, Titanium is a reliable, lower-maintenance and economical alternative to drive systems with chains and gears; it is particularly recommended for efficient, compact drives with high or pulse torque loads, offering:

- Increased basic power capacity by up to 30% compared to the previous Platinum pitch 8M and 20% pitch 14M;
- Full functional interchange with most common existing deep pulley tooth profile systems, including HTD, RPP and PCGT profiles
- Allows existing drives to be upgraded without the necessity to replace the pulleys, just the belt itself
- Reduction of noise compared to the previous Platinum belts
- Low noise characteristics compared to drive systems using polyurethane, steel etc. due to the rubber matrix and teeth with the parabolic profile shape, recognised as the quietest system on the market
- Antistatic qualities in accordance with ISO 9563 standard
- A wide, continuous range of possible operating temperatures like no other system, which makes Titanium the only solution for extreme working conditions.



# MEGADYNE MEGASYNC™

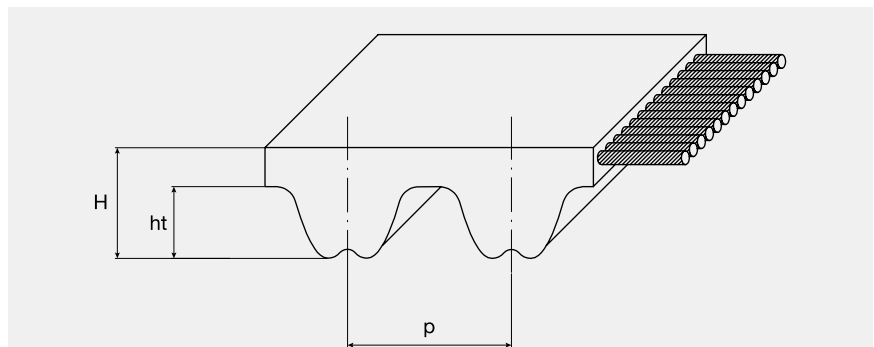
## TITANIUM

### TOOTH PROFILE AND DIMENSIONS

The new Titanium belts adopt the innovative RPC parabolic profile, an evolution of the well-know RPP profile, which retains the basic principle, enlarging meanwhile the interchange possibility with all those pulleys having a deep groove profile of latest generation. RPC maintain the basic parabolic design of teeth profile to guarantee an easy upgrade of the existing RPP drives to get a full drive interchange, thus the RPC based Titanium system will continue to work perfectly on the current RPP and HTD pulleys.

The Titanium nominal belt tooth shape and reference are shown in figure 2, while the dimension data are listed below in Table Dimensions for each available pitch.

### TITANIUM



| BELT TYPE | PITCH | $\beta$ | S    | $H_s$ | $H_T$ | $R_R$ | A    |
|-----------|-------|---------|------|-------|-------|-------|------|
| 8M        | 8 mm  | 32°     | 5,40 | 5,40  | 3,46  | 0,85  | 0,80 |
| 14M       | 14 mm | 32°     | 9,50 | 9,70  | 6,10  | 1,50  | 1,40 |

#### RESISTANCE TO:

|                      |                  |
|----------------------|------------------|
| Water                | <b>Excellent</b> |
| Acids / Alkalis      | <b>Limited</b>   |
| Solvents             | <b>Limited</b>   |
| Mineral oils         | <b>Very good</b> |
| Oils                 | <b>Very good</b> |
| Greases              | <b>Very good</b> |
| Fuels                | <b>Very good</b> |
| Environmental agents | <b>Excellent</b> |

#### OTHER FEATURES

|                   |                          |
|-------------------|--------------------------|
| Temperature range | <b>Min: -40 °C</b>       |
|                   | <b>Max: +120 °C</b>      |
|                   | <b>Max peak: +140 °C</b> |
| Hardness          | <b>92</b>                |
| Antistatic        | <b>Yes</b>               |



# MEGADYNE MEGASYNC™

## TITANIUM

### STANDARD TOLERANCES

| WIDTH TOLERANCES |        |                         |                          |                |
|------------------|--------|-------------------------|--------------------------|----------------|
| BELT WIDTH (mm)  |        | TOLERANCE ON BELT WIDTH |                          |                |
|                  |        | BELT LENGTH (mm)        |                          |                |
| MORE THAN        | UP TO  | UP TO 838               | MORE THAN 838 UP TO 1676 | MORE THAN 1676 |
| -                | 11,10  | +0,5 / -0,8             | +0,5 / 0,8               | -              |
| 11,10            | 38,10  | ±0,8                    | +0,8 / -1,3              | +0,8 / -1,3    |
| 38,10            | 50,80  | +0,8 / -1,3             | ±1,3                     | +1,3 / -1,5    |
| 50,80            | 76,20  | +1,3 / -1,5             | ±1,5                     | +1,5 / -2,0    |
| 76,20            | 170,00 | +1,3 / -1,5             | +1,3 / -2,0              | ±2,0           |

| LENGTH TOLERANCES |       |  |  |
|-------------------|-------|--|--|
| BELT LENGTH (mm)  |       | TOLERANCE (mm)   | CENTER DISTANCE TOLERANCE (MM)   |
| MORE THAN         | UP TO |  |  |
| 254               | 381   | ±0,45  | ±0,225   |
| 381               | 508   | ±0,50  | ±0,250   |
| 508               | 762   | ±0,60  | ±0,300   |
| 762               | 991   | ±0,65  | ±0,325   |
| 991               | 1,220 | ±0,75  | ±0,375   |
| 1,220             | 1,524 | ±0,80  | ±0,400   |
| 1,524             | 1,778 | ±0,85  | ±0,425   |
| 1,778             | 2,032 | ±0,90  | ±0,450   |
| 2,032             | 2,286 | ±0,95  | ±0,475   |
| over 2,286        |       | $\pm \left[ 0,95 + \left( \frac{L - 2286}{254} \cdot 0,03 \right) \right]$ | $\pm \left[ 0,475 + \left( \frac{L - 2286}{254} \cdot 0,015 \right) \right]$ |

| THICKNESS TOLERANCES |                             |                       |         |         |
|----------------------|-----------------------------|-----------------------|---------|---------|
| PITCH                | NOMINAL BELT THICKNESS (mm) | TOLERANCE DEGREE (mm) |         |         |
|                      |                             | STANDARD BELT         | GRADE 2 | GRADE 1 |
| TTM8                 | 5,40                        | ±0,60                 | ±0,25   | ±0,15   |
| TTM14                | 9,70                        | ±0,60                 | ±0,25   | ±0,15   |

For specific application, where you might require different tolerances, please contact our Application Department.

| STANDARD WIDTHS |                  |   |    |    |    |    |    |    |    |    |     |     |
|-----------------|------------------|---|----|----|----|----|----|----|----|----|-----|-----|
| PITCH           | BELT WIDTHS (mm) |   |    |    |    |    |    |    |    |    |     |     |
|                 | 6                | 9 | 15 | 20 | 25 | 30 | 40 | 50 | 55 | 85 | 115 | 170 |
| TTM8            |                  |   |    | •  |    | •  |    | •  |    | •  |     |     |
| TTM14           |                  |   |    |    |    |    | •  |    | •  | •  | •   | •   |

# TITANIUM - RANGE

| TITANIUM 8M |                   |             |
|-------------|-------------------|-------------|
| CODE        | PITCH LENGTH (mm) | N° OF TEETH |
| 248 TTM8    | 248               | 31          |
| 288 TTM8    | 288               | 36          |
| 352 TTM8    | 352               | 44          |
| 416 TTM8    | 416               | 52          |
| 456 TTM8    | 456               | 57          |
| 480 TTM8    | 480               | 60          |
| 544 TTM8    | 544               | 68          |
| 560 TTM8    | 560               | 70          |
| 600 TTM8    | 600               | 75          |
| 608 TTM8    | 608               | 76          |
| 640 TTM8    | 640               | 80          |
| 720 TTM8    | 720               | 90          |
| 800 TTM8    | 800               | 100         |
| 840 TTM8    | 840               | 105         |
| 880 TTM8    | 880               | 110         |
| 896 TTM8    | 896               | 112         |
| 920 TTM8    | 920               | 115         |
| 960 TTM8    | 960               | 120         |
| 976 TTM8    | 976               | 122         |
| 1000 TTM8   | 1000              | 125         |
| 1040 TTM8   | 1040              | 130         |
| 1080 TTM8   | 1080              | 135         |
| 1064 TTM8   | 1064              | 133         |
| 1120 TTM8   | 1120              | 140         |
| 1160 TTM8   | 1160              | 145         |
| 1200 TTM8   | 1200              | 150         |
| 1224 TTM8   | 1224              | 153         |
| 1280 TTM8   | 1280              | 160         |
| 1440 TTM8   | 1440              | 180         |
| 1464 TTM8   | 1464              | 183         |
| 1512 TTM8   | 1512              | 189         |
| 1584 TTM8   | 1584              | 198         |
| 1600 TTM8   | 1600              | 200         |
| 1760 TTM8   | 1760              | 220         |
| 1792 TTM8   | 1792              | 224         |
| 1800 TTM8   | 1800              | 225         |
| 2000 TTM8   | 2000              | 250         |
| 2200 TTM8   | 2200              | 275         |
| 2240 TTM8   | 2240              | 280         |
| 2400 TTM8   | 2400              | 300         |
| 2520 TTM8   | 2520              | 315         |
| 2600 TTM8   | 2600              | 325         |
| 2800 TTM8   | 2800              | 350         |
| 2840 TTM8   | 2840              | 280         |
| 3048 TTM8   | 3048              | 381         |
| 3200 TTM8   | 3200              | 400         |
| 3280 TTM8   | 3280              | 410         |
| 3600 TTM8   | 3600              | 450         |
| 4000 TTM8   | 4000              | 500         |
| 4400 TTM8   | 4400              | 550         |

| TITANIUM 14M |                   |             |
|--------------|-------------------|-------------|
| CODE         | PITCH LENGTH (mm) | N° OF TEETH |
| 994 TTM14    | 994               | 71          |
| 1092 TTM14   | 1092              | 78          |
| 1120 TTM14   | 1120              | 80          |
| 1190 TTM14   | 1190              | 85          |
| 1260 TTM14   | 1260              | 90          |
| 1288 TTM14   | 1288              | 92          |
| 1400 TTM14   | 1400              | 100         |
| 1512 TTM14   | 1512              | 108         |
| 1568 TTM14   | 1568              | 112         |
| 1610 TTM14   | 1610              | 115         |
| 1750 TTM14   | 1750              | 125         |
| 1778 TTM14   | 1778              | 127         |
| 1890 TTM14   | 1890              | 135         |
| 1960 TTM14   | 1960              | 140         |
| 2100 TTM14   | 2100              | 150         |
| 2240 TTM14   | 2240              | 160         |
| 2310 TTM14   | 2310              | 165         |
| 2380 TTM14   | 2380              | 170         |
| 2450 TTM14   | 2450              | 175         |
| 2520 TTM14   | 2520              | 180         |
| 2590 TTM14   | 2590              | 185         |
| 2660 TTM14   | 2660              | 190         |
| 2800 TTM14   | 2800              | 200         |
| 3136 TTM14   | 3136              | 224         |
| 3150 TTM14   | 3150              | 225         |
| 3304 TTM14   | 3304              | 236         |
| 3360 TTM14   | 3360              | 240         |
| 3500 TTM14   | 3500              | 250         |
| 3850 TTM14   | 3850              | 275         |
| 3920 TTM14   | 3920              | 280         |
| 4326 TTM14   | 4326              | 309         |
| 4410 TTM14   | 4410              | 315         |
| 4956 TTM14   | 4956              | 354         |



# MEGADYNE MEGASYNC™

## TITANIUM 8M

**BASIC PERFORMANCE Pb IN kW FOR TITANIUM 8M - 20 mm WIDE (kW / 20 mm)**

| D (mm) | 56,02 | 63,66 | 71,30 | 76,39 | 81,49 | 86,58 | 91,67 | 96,77 | 101,86 | 114,59 | 122,23 | 127,32 | 142,60 | 152,79 | 162,97 | 190,99 | 203,72 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RPM/Z  | 22    | 25    | 28    | 30    | 32    | 34    | 36    | 38    | 40     | 45     | 48     | 50     | 56     | 60     | 64     | 75     | 80     |
| RPM    |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |
| 10     | 0,15  | 0,17  | 0,20  | 0,22  | 0,24  | 0,26  | 0,28  | 0,30  | 0,32   | 0,37   | 0,40   | 0,41   | 0,46   | 0,50   | 0,53   | 0,62   | 0,66   |
| 20     | 0,28  | 0,33  | 0,38  | 0,41  | 0,45  | 0,48  | 0,52  | 0,56  | 0,60   | 0,69   | 0,75   | 0,79   | 0,92   | 0,99   | 1,06   | 1,24   | 1,32   |
| 40     | 0,52  | 0,61  | 0,70  | 0,77  | 0,83  | 0,90  | 0,97  | 1,04  | 1,11   | 1,29   | 1,40   | 1,48   | 1,71   | 1,87   | 2,03   | 2,48   | 2,65   |
| 60     | 0,74  | 0,88  | 1,01  | 1,11  | 1,20  | 1,30  | 1,40  | 1,50  | 1,60   | 1,86   | 2,02   | 2,13   | 2,47   | 2,70   | 2,93   | 3,59   | 3,90   |
| 100    | 1,18  | 1,39  | 1,60  | 1,75  | 1,90  | 2,06  | 2,21  | 2,37  | 2,54   | 2,95   | 3,20   | 3,38   | 3,91   | 4,27   | 4,64   | 5,69   | 6,18   |
| 200    | 2,19  | 2,59  | 2,99  | 3,27  | 3,55  | 3,84  | 4,13  | 4,43  | 4,73   | 5,50   | 5,98   | 6,30   | 7,29   | 7,97   | 8,65   | 10,61  | 11,53  |
| 300    | 3,16  | 3,72  | 4,31  | 4,71  | 5,12  | 5,53  | 5,95  | 6,38  | 6,81   | 7,93   | 8,61   | 9,08   | 10,50  | 11,47  | 12,46  | 15,28  | 16,60  |
| 400    | 4,09  | 4,83  | 5,58  | 6,10  | 6,63  | 7,16  | 7,71  | 8,26  | 8,83   | 10,27  | 11,16  | 11,76  | 13,60  | 14,86  | 16,15  | 19,80  | 21,51  |
| 500    | 5,01  | 5,90  | 6,82  | 7,46  | 8,10  | 8,76  | 9,42  | 10,10 | 10,79  | 12,55  | 13,64  | 14,37  | 16,62  | 18,17  | 19,73  | 24,19  | 26,28  |
| 600    | 5,90  | 6,95  | 8,04  | 8,78  | 9,55  | 10,32 | 11,10 | 11,90 | 12,71  | 14,79  | 16,07  | 16,93  | 19,59  | 21,40  | 23,25  | 28,50  | 30,96  |
| 700    | 6,78  | 7,98  | 9,24  | 10,09 | 10,97 | 11,85 | 12,76 | 13,67 | 14,60  | 16,99  | 18,46  | 19,45  | 22,50  | 24,58  | 26,70  | 32,74  | 35,56  |
| 730    | 7,04  | 8,29  | 9,59  | 10,48 | 11,39 | 12,31 | 13,25 | 14,20 | 15,17  | 17,64  | 19,17  | 20,20  | 23,36  | 25,53  | 27,73  | 33,99  | 36,93  |
| 800    | 7,64  | 9,00  | 10,41 | 11,38 | 12,36 | 13,37 | 14,38 | 15,42 | 16,47  | 19,16  | 20,81  | 21,93  | 25,37  | 27,72  | 30,11  | 36,91  | 40,09  |
| 900    | 8,49  | 10,01 | 11,58 | 12,65 | 13,75 | 14,86 | 15,99 | 17,14 | 18,31  | 21,30  | 23,14  | 24,38  | 28,20  | 30,81  | 33,47  | 41,02  | 44,56  |
| 1000   | 9,34  | 11,00 | 12,73 | 13,91 | 15,11 | 16,33 | 17,58 | 18,84 | 20,13  | 23,41  | 25,43  | 26,80  | 30,99  | 33,86  | 36,78  | 45,08  | 48,97  |
| 1200   | 11,00 | 12,97 | 15,00 | 16,39 | 17,80 | 19,24 | 20,71 | 22,20 | 23,71  | 27,57  | 29,95  | 31,56  | 36,50  | 39,88  | 43,31  | 53,07  | 57,64  |
| 1400   | 12,64 | 14,89 | 17,23 | 18,82 | 20,45 | 22,10 | 23,78 | 25,49 | 27,22  | 31,66  | 34,39  | 36,24  | 41,90  | 45,78  | 49,71  | 60,90  | 66,13  |
| 1460   | 13,12 | 15,46 | 17,89 | 19,54 | 21,23 | 22,95 | 24,69 | 26,47 | 28,27  | 32,88  | 35,71  | 37,63  | 43,51  | 47,52  | 51,61  | 63,22  | 68,65  |
| 1600   | 14,25 | 16,79 | 19,42 | 21,22 | 23,05 | 24,91 | 26,81 | 28,74 | 30,69  | 35,69  | 38,76  | 40,84  | 47,22  | 51,57  | 56,01  | 68,58  | 74,47  |
| 1800   | 15,84 | 18,66 | 21,59 | 23,58 | 25,62 | 27,69 | 29,79 | 31,93 | 34,10  | 39,65  | 43,07  | 45,37  | 52,45  | 57,28  | 62,20  | 76,14  | 82,66  |
| 2000   | 17,41 | 20,52 | 23,73 | 25,92 | 28,16 | 30,43 | 32,74 | 35,09 | 37,47  | 43,56  | 47,31  | 49,84  | 57,61  | 62,91  | 68,30  | 83,57  | 90,70  |
| 2400   | 20,51 | 24,16 | 27,94 | 30,51 | 33,15 | 35,82 | 38,53 | 41,30 | 44,09  | 51,25  | 55,64  | 58,62  | 67,71  | 73,92  | 80,23  | 98,08  | 106,40 |
| 2800   | 23,54 | 27,73 | 32,06 | 35,02 | 38,04 | 41,10 | 44,21 | 47,37 | 50,57  | 58,76  | 63,78  | 67,18  | 77,56  | 84,64  | 91,83  | 112,13 | 121,57 |
| 2880   | 24,15 | 28,44 | 32,88 | 35,91 | 39,00 | 42,14 | 45,33 | 48,57 | 51,85  | 60,24  | 65,39  | 68,86  | 79,50  | 86,75  | 94,11  | 114,88 |        |
| 3200   | 26,53 | 31,25 | 36,12 | 39,45 | 42,84 | 46,28 | 49,77 | 53,33 | 56,92  | 66,10  | 71,74  | 75,54  | 87,17  | 95,08  | 103,11 |        |        |
| 3500   | 28,75 | 33,85 | 39,12 | 42,72 | 46,39 | 50,11 | 53,88 | 57,72 | 61,60  | 71,51  | 77,59  | 81,69  | 94,21  | 102,73 | 111,36 |        |        |
| 4000   | 32,38 | 38,12 | 44,04 | 48,08 | 52,20 | 56,37 | 60,61 | 64,91 | 69,25  | 80,34  | 87,13  | 91,70  | 105,66 |        |        |        |        |
| 4500   | 35,96 | 42,32 | 48,87 | 53,34 | 57,90 | 62,51 | 67,19 | 71,93 | 76,73  | 88,94  | 96,40  |        |        |        |        |        |        |
| 5000   | 39,48 | 46,44 | 53,62 | 58,51 | 63,48 | 68,52 | 73,62 | 78,80 | 84,02  |        |        |        |        |        |        |        |        |
| 5500   | 42,94 | 50,50 | 58,28 | 63,57 | 68,96 | 74,40 | 79,92 | 85,50 | 91,13  |        |        |        |        |        |        |        |        |



# MEGADYNE MEGASYNC™

## TITANIUM 14M

**BASIC PERFORMANCE P<sub>b</sub> IN kW FOR TITANIUM 14M - 40 mm WIDE (kW / 40 mm)**

| D (mm) | 124,78 | 133,69 | 142,60 | 151,52 | 160,43 | 169,34 | 178,25 | 196,08 | 213,90 | 222,82 | 249,55 | 267,38 | 285,21 | 320,86 | 334,23 | 356,51 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| RPM/Z  | 28     | 30     | 32     | 34     | 36     | 38     | 40     | 44     | 48     | 50     | 56     | 60     | 64     | 72     | 75     | 80     |
| RPM    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10     | 1,55   | 1,68   | 1,81   | 1,94   | 2,07   | 2,20   | 2,33   | 2,57   | 2,80   | 2,92   | 3,27   | 3,50   | 3,73   | 4,20   | 4,38   | 4,67   |
| 20     | 2,77   | 3,00   | 3,23   | 3,46   | 3,69   | 3,92   | 4,16   | 4,63   | 5,11   | 5,35   | 6,09   | 6,59   | 7,09   | 8,10   | 8,48   | 9,13   |
| 40     | 4,95   | 5,35   | 5,76   | 6,17   | 6,58   | 7,00   | 7,41   | 8,26   | 9,12   | 9,55   | 10,86  | 11,75  | 12,64  | 14,45  | 15,13  | 16,28  |
| 80     | 8,82   | 9,54   | 10,27  | 11,00  | 11,74  | 12,48  | 13,23  | 14,74  | 16,27  | 17,04  | 19,38  | 20,96  | 22,55  | 25,77  | 26,99  | 29,05  |
| 100    | 10,63  | 11,50  | 12,37  | 13,25  | 14,14  | 15,03  | 15,93  | 17,76  | 19,60  | 20,53  | 23,35  | 25,25  | 27,17  | 31,05  | 32,52  | 34,99  |
| 200    | 18,96  | 20,51  | 22,06  | 23,64  | 25,22  | 26,82  | 28,42  | 31,67  | 34,96  | 36,62  | 41,64  | 45,03  | 48,45  | 55,38  | 58,00  | 62,41  |
| 300    | 26,60  | 28,77  | 30,95  | 33,16  | 35,38  | 37,62  | 39,87  | 44,43  | 49,03  | 51,36  | 58,40  | 63,16  | 67,96  | 77,67  | 81,35  | 87,52  |
| 400    | 33,82  | 36,57  | 39,35  | 42,16  | 44,98  | 47,82  | 50,69  | 56,48  | 62,33  | 65,29  | 74,24  | 80,28  | 86,37  | 98,70  | 103,38 | 111,22 |
| 500    | 40,74  | 44,06  | 47,41  | 50,78  | 54,18  | 57,61  | 61,06  | 68,03  | 75,08  | 78,63  | 89,41  | 96,67  | 104,00 | 118,84 | 124,46 | 133,88 |
| 600    | 47,44  | 51,30  | 55,19  | 59,12  | 63,08  | 67,06  | 71,08  | 79,18  | 87,39  | 91,52  | 104,05 | 112,50 | 121,02 | 138,26 | 144,79 | 155,74 |
| 700    | 53,94  | 58,33  | 62,76  | 67,22  | 71,72  | 76,25  | 80,81  | 90,02  | 99,34  | 104,04 | 118,27 | 127,86 | 137,53 | 157,09 | 164,49 | 176,90 |
| 730    | 55,86  | 60,41  | 64,99  | 69,61  | 74,27  | 78,96  | 83,68  | 93,22  | 102,87 | 107,73 | 122,46 | 132,39 | 142,40 | 162,64 | 170,29 | 183,13 |
| 800    | 60,29  | 65,19  | 70,14  | 75,13  | 80,15  | 85,21  | 90,31  | 100,59 | 111,00 | 116,24 | 132,12 | 142,82 | 153,60 | 175,40 | 183,65 | 197,47 |
| 900    | 66,51  | 71,91  | 77,37  | 82,86  | 88,40  | 93,98  | 99,59  | 110,93 | 122,38 | 128,16 | 145,64 | 157,42 | 169,28 | 193,25 | 202,32 | 217,50 |
| 1000   | 72,60  | 78,50  | 84,45  | 90,45  | 96,49  | 102,57 | 108,69 | 121,05 | 133,54 | 139,83 | 158,87 | 171,69 | 184,61 | 210,68 | 220,53 | 237,03 |
| 1200   | 84,48  | 91,34  | 98,25  | 105,22 | 112,24 | 119,30 | 126,40 | 140,74 | 155,21 | 162,51 | 184,55 | 199,38 | 214,30 | 244,37 | 255,72 | 274,70 |
| 1400   | 96,01  | 103,79 | 111,64 | 119,53 | 127,49 | 135,49 | 143,54 | 159,77 | 176,15 | 184,39 | 209,28 | 226,00 | 242,81 | 276,63 | 289,36 | 310,63 |
| 1460   | 99,41  | 107,46 | 115,58 | 123,75 | 131,98 | 140,26 | 148,58 | 165,36 | 182,29 | 190,81 | 216,53 | 233,80 | 251,15 | 286,04 | 299,16 | 321,08 |
| 1600   | 107,24 | 115,91 | 124,65 | 133,45 | 142,31 | 151,22 | 160,17 | 178,22 | 196,41 | 205,56 | 233,15 | 251,66 | 270,23 | 307,52 | 321,53 | 344,89 |
| 1800   | 118,19 | 127,73 | 137,34 | 147,01 | 156,74 | 166,52 | 176,35 | 196,13 | 216,05 | 226,06 | 256,20 | 276,38 | 296,60 | 337,08 | 352,25 |        |
| 2000   | 128,89 | 139,28 | 149,73 | 160,24 | 170,81 | 181,43 | 192,09 | 213,54 | 235,10 | 245,92 | 278,47 | 300,20 | 321,94 |        |        |        |
| 2400   | 149,64 | 161,63 | 173,68 | 185,79 | 197,94 | 210,14 | 222,38 | 246,91 | 271,51 | 283,81 | 320,67 |        |        |        |        |        |
| 2800   | 169,58 | 183,07 | 196,61 | 210,20 | 223,82 | 237,46 | 251,12 | 278,43 | 305,69 | 319,28 |        |        |        |        |        |        |
| 2880   | 173,48 | 187,25 | 201,08 | 214,95 | 228,85 | 242,76 | 256,69 | 284,51 | 312,26 |        |        |        |        |        |        |        |
| 3200   | 188,76 | 203,66 | 218,58 | 233,53 | 248,49 | 263,43 | 278,36 | 308,10 |        |        |        |        |        |        |        |        |
| 3500   | 202,68 | 218,56 | 234,45 | 250,33 | 266,20 | 282,02 | 297,80 |        |        |        |        |        |        |        |        |        |
| 4000   | 224,99 | 242,37 | 259,72 | 277,00 | 294,20 |        |        |        |        |        |        |        |        |        |        |        |



# SPECIAL EXECUTION

## FEASIBILITY

Megadyne can make special execution on customer's request to improve belt properties and to be suitable to a special applications.

On customer's request and with minimum quantity Megadyne can produce MEGASYNC™ Imperial, MEGASYNC™ RPP, MEGASYNC™ Silver3 8M and Gold2 8M with a double nylon fabric on the tooth surface to improve torque carrying capacity. MEGASYNC™ Silver3 8M and Gold2 14M already have two nylon fabric plies.

The advantages of this solution are:

- Exceptional resistance to abrasion
- Low coefficient of friction
- Increased drive efficiency
- Increased belt and pulley life.

This solution will increase the belt performances by 10%.

### ANTISTATIC

On customer's request and with minimum quantity, Megadyne can produce MEGASYNC™ L, H, RPP5 and RPP8 in antistatic version according to ISO 9563.

For very severe applications, Megadyne can also produce super-conductive belts overcoming ISO 9563 parameters.

### HIGHER/LOWER TEMPERATURE

On customer's request and with minimum quantity, Megadyne can produce special belts to work up to 130°C or -40°C. Please check with our Application Department for advice or for even more severe requirement.

### SPECIAL COMPOUNDS

On customer's request and with minimum quantity, Megadyne can also manufacture belts to stand specific chemicals or environments such as acids, oils, solvents, etc. Please check with our Application Department for guidance.

### LOW NOISE

On customer's request and with minimum quantity Megadyne can produce soft compounded belts (60 ±3 ShA) to reduce noise level. In this case, belt's performance will decrease by a 10% compared to an MEGASYNC™ Imperial or an MEGASYNC™ RPP.

### SPECIAL BRANDING

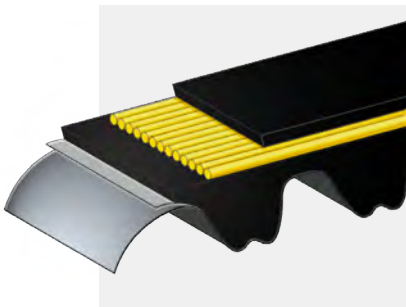
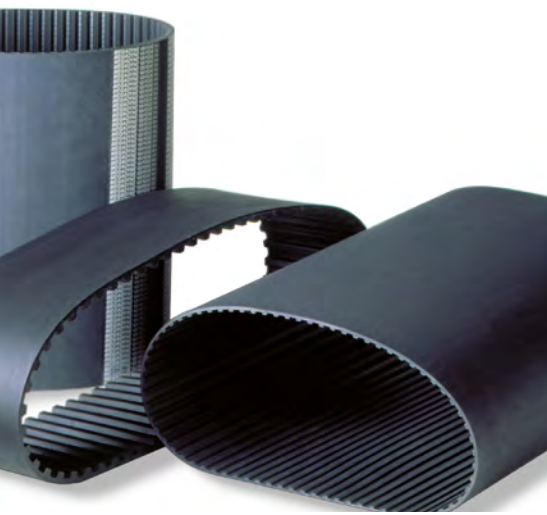
On customer's request and with minimum quantity, Megadyne can brand the belts with special labels.

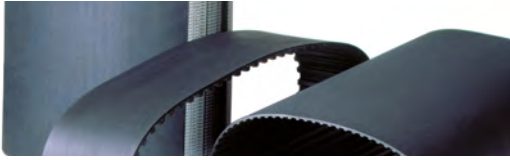
### SPECIAL PACKAGING

On customer's request and with minimum quantity, Megadyne can package the belts following special customer's indications.

### PAINTING

For painting applications (as automotive painting shop) Megadyne suggests using Megapaint belts. They are available in RPP8, Silver3 8M, Gold2 8M, Titanium 8M pitches. For further information, please check with Megapaint brochure or contact Megadyne's Application Department.





# USEFUL FORMULAS

## AND CONVERSION TABLE

| SPEED   |                                   |                                   |
|---|-----------------------------------|-----------------------------------|
| $V = \frac{d_1 \cdot n_1}{19100}$                     | $n_1 = \frac{V \cdot 19100}{d_1}$ | $d_1 = \frac{V \cdot 19100}{n_1}$ |
| $P = \frac{F_u \cdot d_1 \cdot n_1}{19,1 \cdot 10^6}$ | $P = \frac{M_t \cdot n_1}{9550}$  | $P = \frac{F_u \cdot V}{1000}$    |

**V:** peripheral speed [m/s] | **n1:** rotation speed [RPM] | **d1:** pulley diameter [mm]

**P:** power [kW] | **Fu:** peripheral force [N] | **Mt:** drive torque [Nm]

**n1:** rotation speed [RPM] | **d1:** pulley diameter [mm]

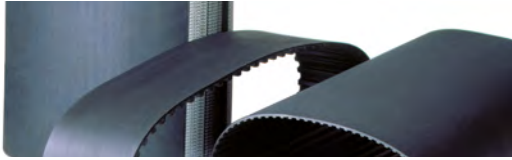
| FORCES AND TORQUE                                     |                                    |                                       |
|---|------------------------------------|---------------------------------------|
| $F_u = \frac{19,1 \cdot 10^6 \cdot P}{d_1 \cdot n_1}$ | $F_u = \frac{2000 \cdot M}{d_1}$   | $F_u = \frac{P \cdot 10^3}{V}$        |
| $M_t = \frac{P \cdot 9550}{n_1}$                      | $M_t = \frac{F_u \cdot d_1}{2000}$ | $M_t = \frac{P \cdot d_1}{2 \cdot V}$ |

**Fu:** peripheral force [N] | **Mt:** drive torque [Nm] | **P:** power [kW]

**n1:** rotation speed [RPM] | **d1:** pulley diameter [mm] | **V:** peripheral speed [m/s]

| TO CONVERT FROM | TO              | MULTIPLY BY                |
|-----------------|-----------------|----------------------------|
| CV              | HP              | 0,9863201                  |
| CV              | kcal/h          | 63,24151                   |
| CV              | W               | 735,4988                   |
| CV              | kW              | 0,7354988                  |
| CV              | kgf ⇔ m/s       | 75                         |
| CV              | lbf ⇔ ft/s      | 542,476                    |
| HP              | CV              | 1,01387                    |
| HP              | kcal/h          | 641,1865                   |
| HP              | W               | 745,6999                   |
| HP              | kW              | 0,7456999                  |
| HP              | kgf ⇔ m/s       | 76,04022                   |
| HP              | lbf ⇔ ft/s      | 550                        |
| in              | m               | 0,0254                     |
| in              | cm              | 2,54                       |
| in              | mm              | 25,4                       |
| in              | ft              | 0,083                      |
| in <sup>2</sup> | m <sup>2</sup>  | 0,00064516                 |
| in <sup>2</sup> | cm <sup>2</sup> | 6,4516                     |
| in <sup>2</sup> | mm <sup>2</sup> | 645,16                     |
| in <sup>2</sup> | ft <sup>2</sup> | 0,006944444                |
| in <sup>3</sup> | m <sup>3</sup>  | 1,63871 · 10 <sup>-5</sup> |
| in <sup>3</sup> | cm <sup>3</sup> | 16,38706                   |
| in <sup>3</sup> | mm <sup>3</sup> | 16387,06                   |
| in <sup>3</sup> | ft <sup>3</sup> | 0,000578704                |

| TO CONVERT FROM | TO         | MULTIPLY BY                |
|-----------------|------------|----------------------------|
| J               | CV ⇔ h     | 3,77673 · 10 <sup>-7</sup> |
| J               | HP ⇔ h     | 3,72506 · 10 <sup>-7</sup> |
| J               | kWh        | 2,77778 · 10 <sup>-7</sup> |
| kg              | lb         | 2,204623                   |
| kgf             | N          | 9,80665                    |
| kgf             | lbf        | 2,204623                   |
| kgf ⇔ m/s       | CV         | 0,013333333                |
| kgf ⇔ m/s       | W          | 9,80665                    |
| kgf ⇔ m/s       | kW         | 0,00980665                 |
| kW              | CV         | 1,359622                   |
| kW              | kcal/h     | 859,8452                   |
| kW              | W          | 1000                       |
| kW              | kgf ⇔ m/s  | 101,9716                   |
| kW              | lbf ⇔ ft/s | 737,5621                   |
| lb              | kg         | 0,4535924                  |
| lb              | kgf        | 0,4535924                  |
| lb              | N          | 4,448222                   |
| N               | kgf        | 0,1019716                  |
| N               | lbf        | 0,2248089                  |
| W               | CV         | 0,001359622                |
| W               | HP         | 0,001341022                |
| W               | kcal/h     | 0,8598452                  |
| W               | kW         | 0,001                      |
| W               | kgf ⇔ m/s  | 0,1019716                  |
| W               | lbf ⇔ ft/s | 0,7375621                  |



# DATA SHEET

## CUSTOMER DATA

Company Name \_\_\_\_\_ Date \_\_\_\_\_

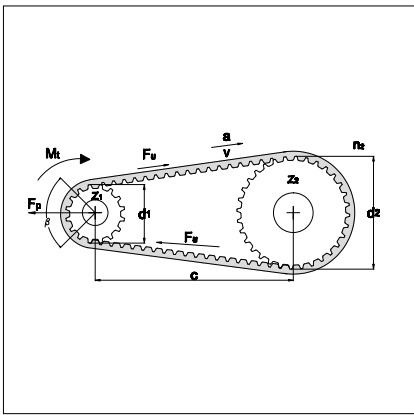
Address \_\_\_\_\_ Zip Code \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Country \_\_\_\_\_

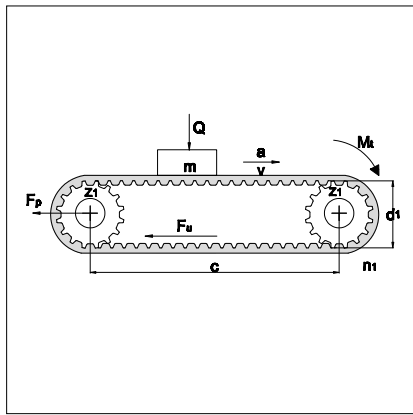
Customer Name/Surname \_\_\_\_\_

Office \_\_\_\_\_ Tel. \_\_\_\_\_ e-mail \_\_\_\_\_

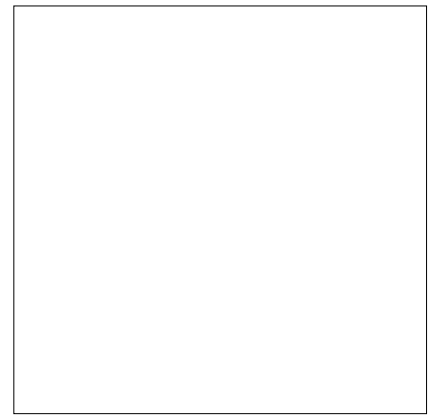
## DRIVE INFORMATION TRANSMISSION LAYOUT



Power transmission



Conveyor



Other (If layout is different please sketch it above)

## DRIVE INFORMATION (FOR POWER TRANSMISSION)

AC     DC     Soft Start     Inverter

Power \_\_\_\_\_ Speed \_\_\_\_\_

Torque \_\_\_\_\_ Acceleration \_\_\_\_\_

Working time  < 8h     From 8h up to 16h     24h

Driver pulley's diameter \_\_\_\_\_ Driven pulley's diameter \_\_\_\_\_

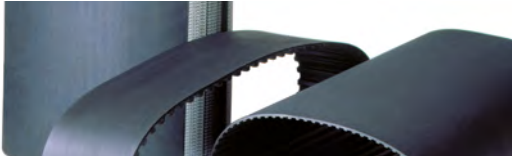
Center distance \_\_\_\_\_ Minimum safety factor needed \_\_\_\_\_

Are there any size limitation?     Yes     No

(if yes, please indicate *Max diameter*, *Max width* and *Max center distance*):

Max diameter \_\_\_\_\_ Max width \_\_\_\_\_ Max center distance \_\_\_\_\_

Linear speed \_\_\_\_\_ Acceleration \_\_\_\_\_ Mass \_\_\_\_\_



# DATA SHEET

## DRIVE INFORMATION (FOR CONVEYOR)

Driver pulley's diameter \_\_\_\_\_ Driven pulley's diameter \_\_\_\_\_

Center distance \_\_\_\_\_ Minimum safety factor needed \_\_\_\_\_

Are there any size limitation?  Yes  No

(if yes, please indicate *Max diameter*, *Max width* and *Max center distance*):

Max diameter \_\_\_\_\_ Max width \_\_\_\_\_ Max center distance \_\_\_\_\_

Linear speed \_\_\_\_\_ Acceleration \_\_\_\_\_ Mass \_\_\_\_\_

Is there any sliding surface?  Yes  No (if yes please indicate friction coefficient): \_\_\_\_\_

Is there any cover on the back?  Yes  No (if yes please indicate the type) \_\_\_\_\_

Are cleats required?  Yes  No (if yes please indicate cleats code, otherwise attach drawings) \_\_\_\_\_

Working time  < 8h  From 8h up to 16h  24h

## WORK'S ENVIRONMENT INFORMATION (FOR ALL LAYOUT TRANSMISSION SYSTEM)

Work Temperature ( please indicate constant temperature and in case peaks) \_\_\_\_\_

Humidity  Standard  No standard  Other \_\_\_\_\_

Chemical agents: (oils, grass, aggressive compounds)  Yes  No

In case please indicate type and percentage \_\_\_\_\_





The data and information contained in the present catalogue are updated to the date of the catalogue's printing. Ammega Italia S.p.A. reserves the right to modify the specifications, performances and other information relating to the belts described in the present catalogue, at any time at its own discretion, without any prior notice.

For updating refer to our website [www.megadynegroup.com](http://www.megadynegroup.com).

Technical specifications, performances and other information provided in the present catalogue are indicative and do not bound Ammega Italia S.p.A. unless such specifications, performances or other information are expressly agreed in the agreement with the customer.

We also recommend to read carefully the following documents on our web site [www.megadynegroup.com](http://www.megadynegroup.com):

- Ammega Italia S.p.A. General Conditions of Sale (comprising the warranty)
- Theoretical Belt Life.
- Drive Components: Storage, Installation, Maintenance and Troubleshooting Handbook
- Belts standard use condition and temperature.

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for sustainable power transmission belting solutions  
around the globe.

**General contact information:**

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Via S. Lucia 114 - 10075 Mathi (Torino)  
Italy



Scan the QR code  
and find your local  
contact

[megadynegroup.com/en/contact-us](https://megadynegroup.com/en/contact-us)

