

TSUBAKI HEAVY DUTY CHAINS

THE ULTIMATE IN STRENGTH





MADE IN JAPAN

Located in Kansai Science City, the Kyotanabe plant embodies our wide spectrum of cutting-edge technological solutions. Our aim is to develop this environmentally friendly facility into the world's number one chain plant. Furthermore, Kyotanabe's Technical Centre plays a vital role within the Tsubaki Group through its R&D activities and distribution of knowledge. The Kyotanabe plant is an excellent example of a facility built on the foundation of Tsubaki's technical expertise.

Consideration for the Global Environment

The Tsubaki Group is working to conserve the environment and reduce the environmental impact of its operations by improving the efficiency of its manufacturing activities.

In addition, the Tsubaki Group is advancing the development of environmentally friendly products.

These eco-products help customers reduce energy consumption and improve the economic aspects of their operations.

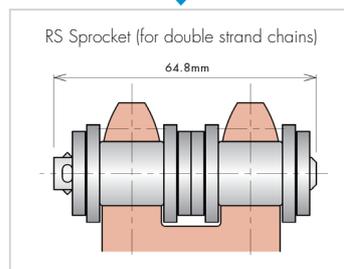
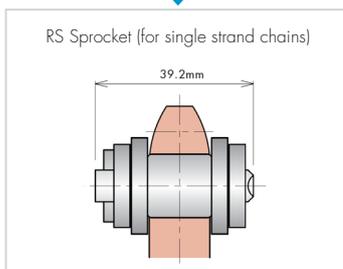
The Tsubaki Eco Link logo is used only on products that satisfy the standards for environmental friendliness set by the Tsubaki Group.



BENEFITS OF HEAVY DUTY CHAIN SERIES



A smaller chain means a smaller sprocket.



RS80 Super-H-1 Chain has the same maximum allowable load as RS80-2 Roller Chain. This means you can replace double strand RS Roller Chain with single strand Super-H Chain. By using smaller chains and sprockets you can save space and reduce cost.

Cost Comparison

Note: With total costs of double strand RS Roller Chain as benchmark (100).

	Super-H Chain	Double
Chain	28	33
Small sprocket	5	19
Large sprocket	17	48
Total	50	100

Conditions Chain size: RS80 Center distance between shafts: 800 mm

50% COST REDUCTION

H SERIES

10% higher maximum allowable load compared to RS Roller Chain.

Max. allowable load:	109
Min. tensile strength:	100
Elastic elongation:	95

Note: with RS Roller Chain as benchmark (100). Available sizes: RS60-RS200, up to triple strand.

H Series chain differs from the ANSI G8 Series chain in the thickness of the link plates. The link plates have the same thickness as the link plates of the next larger pitch size in ANSI G8 Series. The increased thickness of the link plates provides a 9% greater capacity for fatigue strength.

Compared to the previous series, the wear life of the H Series is doubled by using solid bushes instead of curled bushes.

In short, H Series chains are especially suitable for situations where the load is heavy and operating speed is low (up to 50 m/min) or where operating conditions are severe.

HT SERIES

**- Twice the wear life of the previous series!
- Slip fit connection links now available!**

Max. allowable load:	109
Min. tensile strength:	119
Elastic elongation:	95

Note: with RS Roller Chain as benchmark (100). Available sizes: RS60-RS240, up to triple strand.

HT Series chain provides a significantly higher Tensile Strength than ANSI G8 Series chain by applying through-hardened pins and link plates of the next larger pitch size in ANSI G8 series.

Compared to the previous series, the wear life of the HT Series is doubled by using solid bushes instead of curled bushes.

HT Series chain also provides a higher fatigue strength and is best suited for low operating speeds (up to 50 m/min). Dimensions of the chain are identical to the H Series chain.



TSUBAKI ANSI HEAVY DUTY CHAIN SERIES



HEAVY DUTY CHAIN FOR DEMANDING INDUSTRIES

Typical uses for Heavy Duty chain include:

- Mining - Drill Rigs
- Bulk Handling - Wobbler Feeders
- Steel Making – Looper Towers
- Agriculture – Balers
- Conveyors – Heavy drives
- Waste Water – Lifting Gates
- Port Facility - RTG

SUPER SERIES

5-10% higher maximum allowable load than the previous series!

Max. allowable load:	140
Min. tensile strength:	109
Elastic elongation:	90

Note: with RS Roller Chain as benchmark (100). Available sizes: RS80-RS240, up to sextuple strand.



The dimensions of these series are identical to those of ANSI G8 Series chain.

The special design of the Super Series link plate delivers exceptional performance. The Lube Groove Bushes ensure longer and better lubrication which results in an extended chain life. The pin holes are critically formed and ball drifted, while the pins are through-hardened for greater fatigue strength.

Super Series chains offer 9% higher tensile strength than the equivalent size ANSI G8 Series chain. Super Series chains can be used to replace the next larger pitch size of ANSI G8 Series, making them ideal for applications where chain space is limited. Best suited for low speed operating conditions (up to 50 m/min).

SUPER-H SERIES

20% higher maximum allowable load than the previous series!

Max. allowable load:	162
Min. tensile strength:	123
Elastic elongation:	85

Note: with RS Roller Chain as benchmark (100). Available sizes: RS80-RS240, up to triple strand.



The thickness of the Super-H Series link plates is the same as the next larger pitch size of Super Series chain. The pins are also through-hardened which provides a higher tensile strength and a higher fatigue strength than Super Series chain. The pin holes of the outer link plates are critically formed and ball drifted. The holes of the roller link plates are ring coined to increase fatigue strength.

Super-H Series chains can be used to replace the next larger size of ANSI standard chain, making them ideal for applications where space is limited. Best suited for low speed operating conditions (up to 50 m/min).



Ring coining

NEW GENERATION TSUBAKI HEAVY DUTY DRIVE CHAIN SERIES

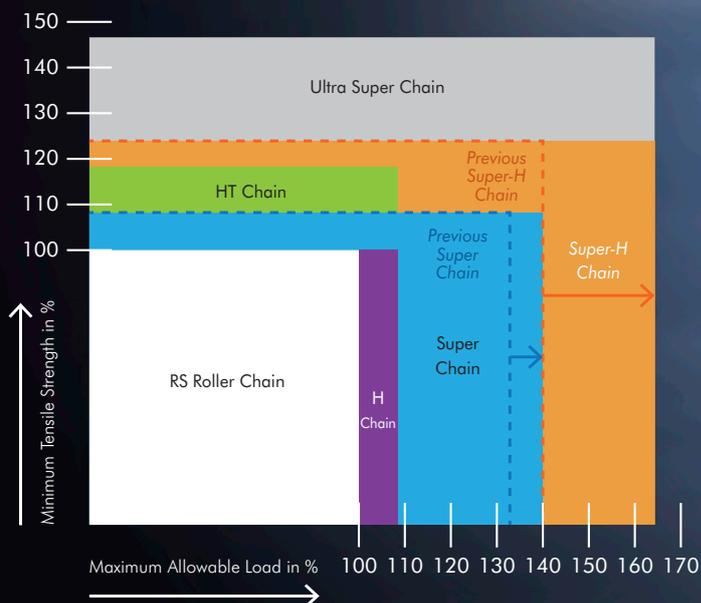
The superior performance of the improved Tsubaki Heavy Duty chains is the result of a comprehensive quality control network that begins with selection of the world's finest steel materials. It continues with inspection and analysis of quality and performance in 20 different work areas.

At Tsubaki quality control is not just a one time check; it is a total dedication. It is your assurance of long lasting and dependable performance.

Tsubaki offers Heavy Duty chains for applications that exceed the capabilities of Tsubaki ANSI G8 standard roller chain. Heavy Duty chain should be considered in the following situations:

1. Harsh environments where the chain will be subjected to heavy impact (shock loads).
2. Compact drives for equipment or machines that must work in tight spaces.
3. When higher transmission power, allowable load or tensile strength is required.
4. When a lower rate of elastic elongation is required.

Product Line-up



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