



**POWER TRANSMISSION
AGRICULTURAL TECHNOLOGY**



SPECIALISTS

A man with a beard and brown hair, wearing a brown and blue plaid shirt and green overalls, stands in a large industrial building. He is holding a silver pitchfork with a wooden handle. The background shows a high ceiling with a grid of lights and structural beams.

“For reliable use
when harvesting.”

Norbert, 42, farmer

USED WORLDWIDE

As a partner and OEM of leading manufacturers in the field of agricultural technology, Optibelt offers drive solutions that drive agriculture itself. Our drive components are not only extremely smooth running with efficient power transmission, but are also environmentally friendly.

The **optibelt AGRO POWER** product series will not let you down when it really counts.

FOR AGRICULTURE

OPTIBELT SUCCESS STORY

FARMER SEARCHES FOR BELT – PARTNERSHIP WITH A FUTURE



During the last recent decades, leading agricultural machinery manufacturers such as Claas have made quantum leaps on the technical front and reached incredible levels. With each new model, more performance and even more efficient technology is in demand. This task is quite a challenge for mechanical designers and therefore represents a prime discipline for Optibelt. For example, in Claas combine harvesters, the threshing system and the unloading of grain tank are furnished with the performance level they require by using Optibelt high performance belts.

With a history going back 130 years, Kverneland has not only set milestones in the production of agricultural machinery, but has also relied on quality belts by Optibelt. After an extensive test phase, a decision was made to use a maintenance-free high performance wedge belt by Optibelt. Since 2013, the Kverneland mulcher FRH is now driven by a quality product made by Optibelt. By changing over to **optibelt RED POWER**, engineers have achieved perfect transmission at maximum power.

OPTIBELT SUCCESS STORY

PERFECT TRANSMISSION – MAXIMUM POWER



WHAT DRIVES U

In the field of agricultural technology, specialists



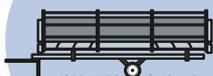
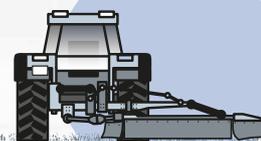
1. COMBINE HARVESTER

The combine harvesters of today are more than simple grain harvesters. In addition to productivity, in particular, diversity and reliability play a crucial role.



3. MOWER

Today, in addition to fuel consumption, maintenance effort and ground following systems, perfect power transmission in particular is really what counts.



2. FIELD CHOPPER

The multi-talent among harvesters. Whether maize, grass or lucerne, the requirements placed on field choppers are continually growing.



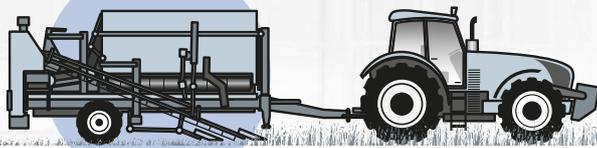
S are required.

Today's agriculture is characterised by rapid development and a continuous innovation flow. Larger, faster, further – and that at a maximum level of efficiency. The technology of sophisticated machines is becoming ever more demanding and therefore, engineers, scientists and researchers are always going beyond the limits of what is possible. It is first possible through perseverant drive components requiring a minimum level of maintenance, a great level of durability, and optimal power transmission.



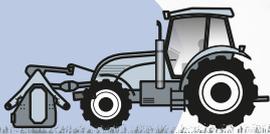
5. CARROT HARVESTER

Harvesters must not only be productive, but also have to be gentle to the crops harvested. In this connection, the right belt plays a crucial role.



7. FORAGE WAGON

The pickup among harvesters. It provides an optimal means of collecting the harvested crops.



4. MULCHER

No matter if dealing with work performed on fallow lands or landscape management. The perfect mulching mower provides a clean cut, requires a low level of pulling power, and is gentle to the ground.



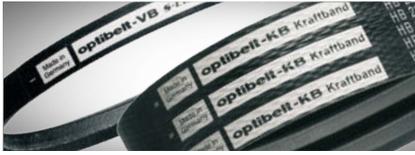
6. TRACTORS

The draught horse and, at the same time, the driving power in agriculture. Here, only 100-percent reliability counts.



optibelt VB

CLASSIC V-BELTS AND KRAFTBANDS



V-GROOVED AND KRAFTBAND PULLEYS
all standard pulleys,
special pulleys on request



DIMENSIONS

A/13	437–5030 mm
B/17	610–7140 mm
C/22	1148–8058 mm
D/32	2075–11 275 mm
E/40	3080–12 580 mm

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- optimal running characteristics
- abrasion resistant cover fabric
- special drives are feasible, such as V-flat drives
- variety of special constructions
- up to 97% efficiency
- V-belts also in reliable S=C Plus quality

optibelt SK

HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS



V-GROOVED AND KRAFTBAND PULLEYS
all standard pulleys,
special pulleys on request



DIMENSIONS

SPZ	487–3550 mm
SPA	732–4500 mm
SPB	1250–8000 mm
SPC	2000–12 500 mm
3V/9N	25–140 inches

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- wrapped wedge belts with abrasion resistant cover fabric
- up to 97% efficiency
- variety of special constructions
- high level of power transmission
- V-belts also in reliable S=C Plus quality

optibelt MARATHON 1

V-BELTS



V-GROOVED PULLEYS
all standard pulleys,
special pulleys on request



DIMENSIONS

X 10–X 22; AVX 10–AVX 13

The AVX 10 and AVX 13 profiles in their cross sections and dimensions are compliant with DIN 7753 part 3 and the standards ISO 2790 and SAE.

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- highly durable
- high efficiency
- low-maintenance operation
- very smooth running
- outstanding tension behaviour

optibelt VARIO POWER/VS

VARIABLE SPEED BELTS



V-GROOVED PULLEYS
all standard pulleys,
special pulleys on request



DIMENSIONS

13 x 5–70 x 18	468–2500 mm
1422 V–4436 V	235–750 inches
HI–HQ	1200–3550 mm
	> 3550 mm on request

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- high level of power transmission
- highly durable
- very smooth running, also in the case of high belt speeds
- high level of flexibility
- optimised heat emission

optibelt AGRO POWER VB/SK/KB

V-BELTS AND KRAFTBANDS



V-GROOVED AND KRAFTBAND PULLEYS
all standard pulleys,
special pulleys on request



DIMENSIONS

In order to make a comparison, all common part numbers can be found in our current reference catalogue, AGRO POWER.



ADVANTAGES AND CHARACTERISTICS

- excellent level of operational safety
- optimal running characteristics
- balanced power transmission
- extensive assortment
- environmentally friendly

optibelt AGRO POWER BKR

VARIABLE SPEED BELTS



V-GROOVED PULLEYS
all standard pulleys,
special pulleys on request



DIMENSIONS

In order to make a comparison, all common part numbers can be found in our current reference catalogue, AGRO POWER.

ADVANTAGES AND CHARACTERISTICS

- high level of power transmission
- highly durable
- very smooth running
- high level of flexibility
- environmentally friendly
- extensive assortment

optibelt AGRO POWER RB

RIBBED BELTS



RIBBED BELT PULLEYS
standard range,
special pulleys on request



DIMENSIONS

In order to make a comparison, all common part numbers can be found in our current reference catalogue, AGRO POWER.

ADVANTAGES AND CHARACTERISTICS

- good traction and high capacity
- low levels of noise and vibrations
- high belt speed possible
- highly flexible for serpentine belt drives for example
- environmentally friendly

optibelt VB PKR

COMBINE HARVESTER BELTS



V-GROOVED PULLEYS
all standard pulleys,
special pulleys on request



DIMENSIONS

Profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- ensures an excellent grip
- resistant against external influential factors such as sand or stones
- reinforced fabric providing excellent power transmission and a maximum protection against wear
- reduced maintenance costs

THE OPTIBELT TEAM FOR DEVELOPMENT, APPLICATIONS AND SERVICE



SOFTWARE TOOLS AND SPECIALIST CONSULTING

Optibelt's free CAP software allows users to quickly and easily calculate their specific drives. For more complex drive systems, CAP Professional gives users the ability to perform detailed variable calculations. CAP's efficiency calculator will also compare available drives with those already optimised.

Optibelt application engineers are always available to provide advice to customer's operations around the world. They can assist in optimising the drives for entire plant operations.



SERVICE SUPPORT

To make sure that all machines run reliably, Optibelt also offers personal support in drive assembly, maintenance and service on site around the world. Optibelt's broad range of tools, measuring devices and service tools allow for easy drive optimisation, maintenance and repair.



OPTIBELT CUSTOM PRODUCTS

Optibelt offers custom high performance products for all applications: Customised products are designed to precisely meet customer's drive application requirements. Optibelt engineers develop tailored drive solutions for superior efficiency and safety.

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