

Power Transmission

RED POWER II MAINTENANCE FREE

optibelt RED POWER II 5=C plus

- Service free optimum tension throughout service life
- Homogeneous interplay in coordination belt - edge-pulley
- Reduced pulley groove wear due to optimized cover fabric
- Strong power ratings: drive efficiency up to 97%
- S=C plus SetConstant
- Improved smooth running behaviour and low vibration
- High shock load absorbtion compared to V-Belts with Aramid tension cord
- Suitable for use with back bend idlers
- Larger range of lengths up to 8500 mm
- Extended range of Kraftbands
- Environmentally friendly

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Power Transmission

RED POWER II MAINTENANCE FREE



Optibelt Red Power II Wedge Belts and Kraftbands

INFORMATION

PRODUCT

SERVICE FREE

optibeit RED POWER I S=C plus

During 6 years of service life, a V-belt operating in a modern machine tool required up to now:

> 10 maintenance intervals

> > An improved V-belt generation developed by Optibelt operating in the same machine tool after 6 years of service life:

no retensioning

The revolution has a name:



Power Transmission

RED POVER II Maintenance Free V-Belts

optibelt RED POWER II 5=C plus

Advant<mark>age 1 -</mark> maintenance free

New production methods and new raw materials enable us for the first time to manufacture a wrapped wedge belt which requires absolutely no maintenance and which is of such low stretch that an "Optibelt Red Power II" V-Belt correctly pretensioned once, does not require any further retensioning. As far as initial fitting of the "Optibelt Red Power II" V-Belt is concerned, the same calculation methods and pretension values apply as for Optibelt standard V-Belts.

Advantage 2 strong power rating

The power ratings of "Optibelt Red Power II" speak for themselves. Compared to present day wrapped wedge belts, they are extremely high depending on section and pulley diameter. In many cases, the performance level reaches the values of raw edge moulded cogged V-belts. Drive efficiency is as high as 97 %. "Optibelt Red Power II" are oil, heat and dust resistant as standard. References for antistatic properties are to be found in our technical documents.

Advantage 3 - cost savings

A special advantage of the "Optibelt Red Power II" is the fact that real money can be saved. Based on its high power ratings, fewer belts per drive are to be used! With other words: fewer belts, narrrower pulleys and less space required. Therefore: lower costs and higher power rating. What an argument!

By the way: The "Optibelt Red Power II" is also available as Kraftband.

Advantage 4 - SetConstant

Naturally, S=C plus applies to "Optibelt Red Power II", too. Because of the fact that it is insensitive towards performance shocks, the "new one" runs especially well in sets, proverbial smooth running. The tolerances of "Optibelt Red Power II" are substantially lower than the set tolerances fixed by standards.

Advantage 5 environmentally friendly

Contrary to many other transmission belts, there is virtually no material waste during the production of the service free wrapped wedge belt "Optibelt Red Power II". We can proudly say that we achieved the goal of producing the most environmentally friendly transmission belt - both in direction of production and disposal - and, taking into account these power ratings.











A practical example

16 hours a day, 260 days a year endurance run of a transmission element in a pelletizer press in a feed mill. Based on 25 000 hours life time, belt life should be in excess of 6 years.



with 8 standard V-Belts SPB 3750 Ld Driver pulley Driven pulley Pulley face width Theoretical belt life 25 000 hours Retensioning



with 6 "Red Power II" SPB 3750 Ld Driver pulley Driven pulley Pulley face width Theoretical belt life 25 000 hours Retensioning

RED POWER II

Maintenance Free V-Belts

The same drive location, the same application: however, this time with the improved "Optibelt Red Power II"

Cost saved for the drive system: approx. 20%

optibelt RED POWER II S=C plus SERVICE FREE



Power rating comparison between Optibelt standard V-belt and "Optibelt Red Power II", section SPB, pulley diameter 280mm.



A direct comparison between Optibelt standard construction V-belt and our improved "Optibelt Red Power II" clearly shows that: At a speed of 2850 rpm the "Optibelt Red Power II" is able to transmit no less than

42% more power

The application examples are endless, as the "Optibelt Red Power II" is available in lengths ranging from 1200 mm to 8500 mm. The available belt sections are SPZ, SPA, SPB, SPC, 3V/9N, 5V/15N and 8V/25N and Kraftband sections 3V/9J, 5V/15J, 8V/25J, SPZ, SPA. SPB and SPC.

Fewer belts + narrower groove pulleys + space saving = less costs

