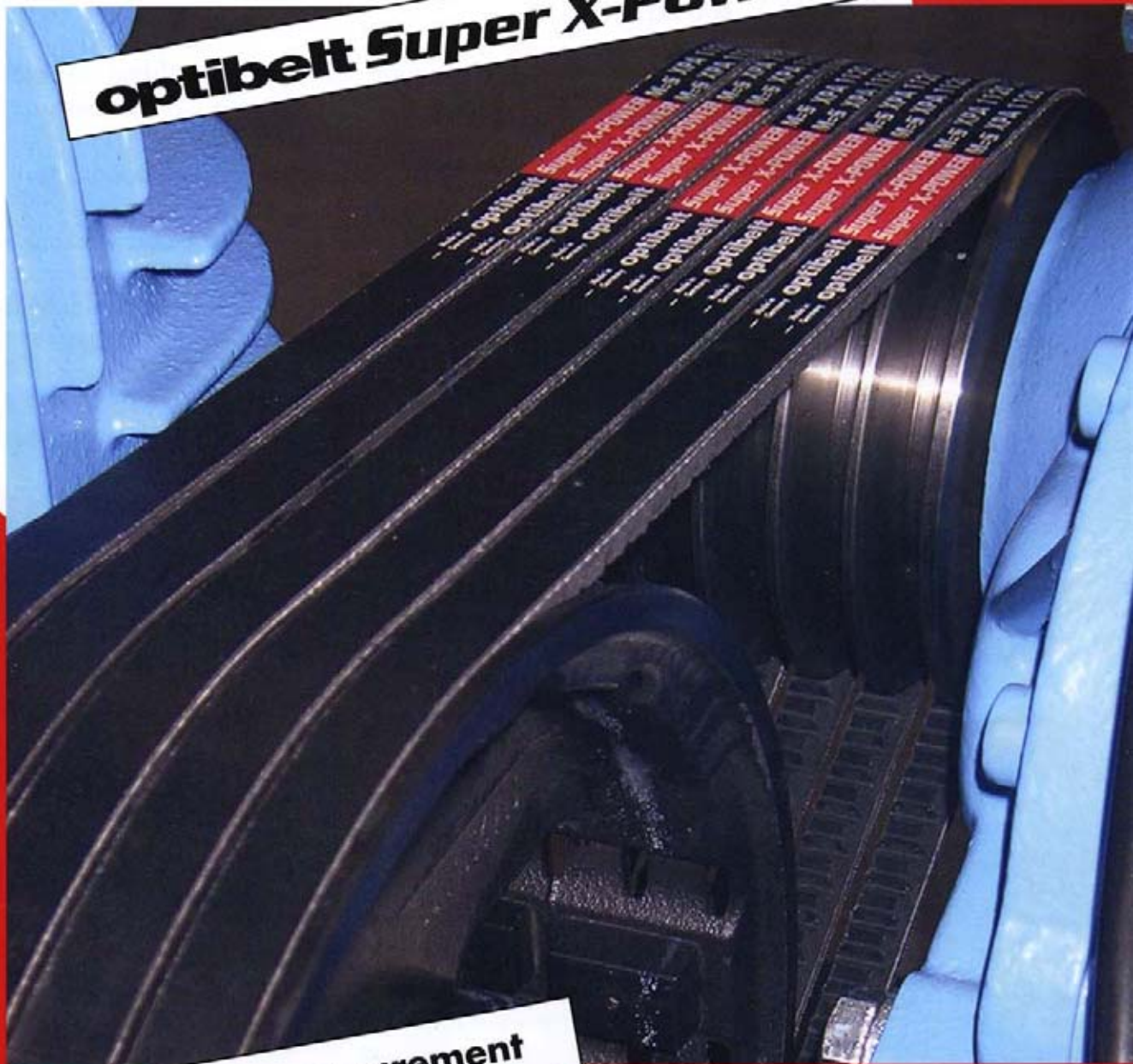




Power Transmission

TECHNICAL INFORMATION

optibelt Super X-POWER M=5



sets without measurement

**High performance
wedge belt - raw edge,
moulded cogged**

The Optibelt Super X-POWER M=S is a new class of raw edge, moulded cogged V-belt

optibelt *Super*

Advantages

Consistent further development of the production process, improved materials, low stretch polyester cords and optimised moulded cogs are the basis for this new belt generation. Optibelt Super X-POWER M=S allow complex drive solutions in the whole area of machine construction under the most difficult conditions and extreme operational demands.

Points achieved:

- Increase in performance of up to 15 %
- Extremely low stretch
- Extended maintenance intervals – low maintenance
- Optimised running characteristics
- Excellent heat and oil resistance
- Can be used in sets without further measurement, M=S
- Energy and weight saving

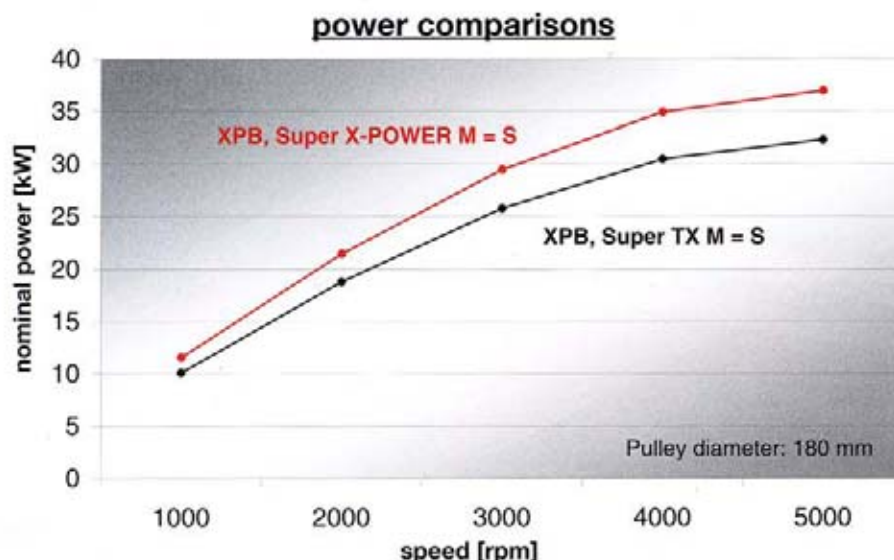
Areas of application

Machine construction

- Compressors
- Fans
- Soil compactors
- Pumps
- Wood working machines
- High performance saws
- Special machines

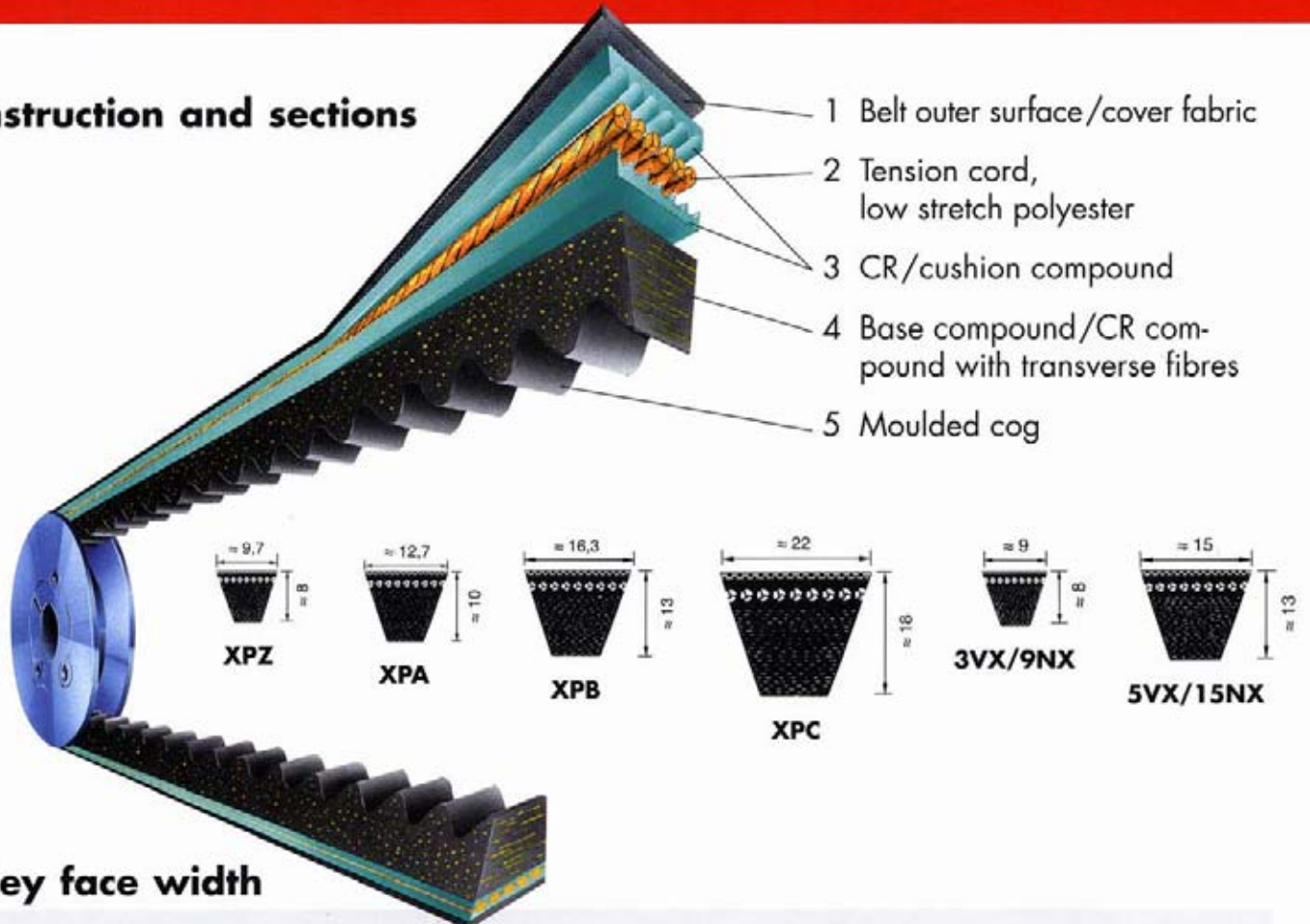
Machine tools

- Lathes and drills
- Grinders

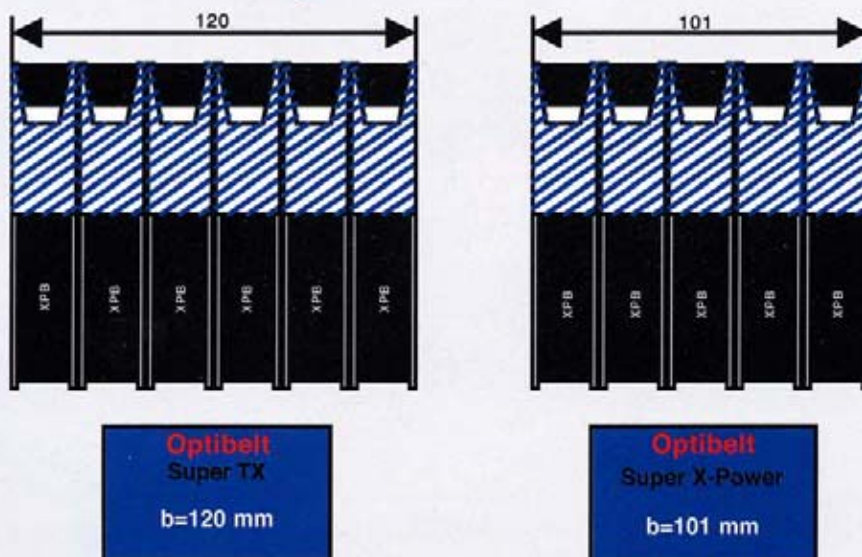


X-POWER M=S

Construction and sections



Pulley face width



Drive optimisation through reduction of the overall width



M=S "Matched" = Set

All Optibelt Super X-POWER M=S V-belts may be used in sets without further measurement. Special manufacturing techniques ensure the achievement of minute length tolerances. That is why V-belts of the same nominal length can be made into sets arbitrarily. Set code numbers and the tying into sets are not necessary. As a result, warehousing and other costs are reduced.

Heat resistance

The service life of V-belts may be strongly affected by ambient temperature. Due to the use of high quality polychloroprene rubber compound, Optibelt Super X-POWER M=S are far more heat resistant than wrapped V-belts. These V-belts are suitable for ambient temperatures of up to approx. +90 °C. Higher temperatures lead to premature ageing and embrittlement of the V-belts.

Oil resistance

Oil resistance prevents the damaging effects of mineral oils and greases, if

these materials are not in permanent contact with the V-belts and do not appear in large quantities. Animal and vegetable fats as well as water soluble cooling and cutting oils negatively affect the service life. Under these conditions, Optibelt Super X-POWER M=S belts offer reliable service.

Smooth running

High demands, such as smooth running and precision, are in particular made on V-belts which are used for drives on machine tools and special machines. Due to the special manufacturing processes, Optibelt Super X-POWER M=S wedge belts offer especially smooth running and guarantee a vibration free contact with the pulley grooves.

Electrically conductive

Electrical conductivity enables secure discharge of electrostatic build up. The use of electrically conductive V-belts re-

Standard characteristics

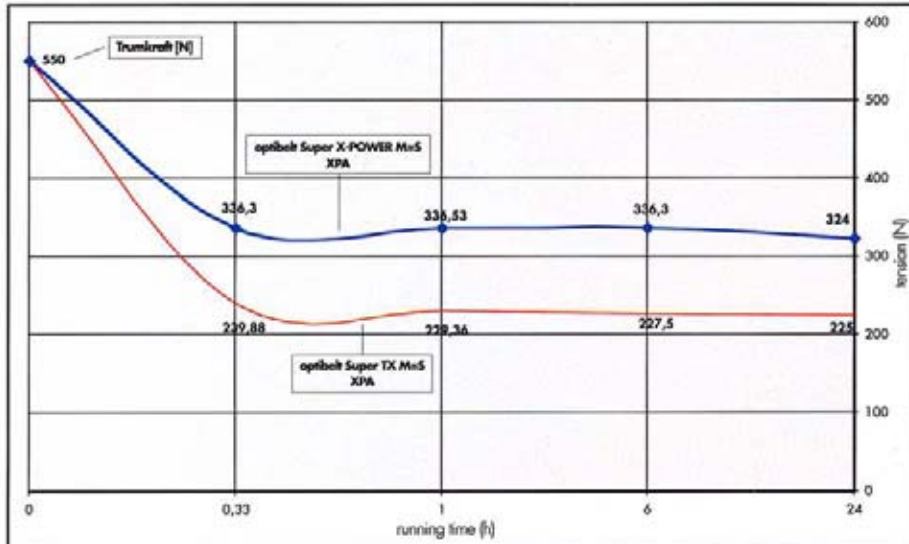
quires that they be examined in accordance with ISO 1813. Our inspection certificate (issued in line with EN 10204 "3.1.B") verifies the electrical conductivity. We strongly recommend you to always order conductive V-belts separately.

Applications for special requirements

For special applications in the area of general machine construction, in the area of gardening machines, on special drives with tension, guide and reverse idlers, under extreme operating conditions and other special applications, our engineers from the Applications Engineering Department will provide advice.

optibelt *Super X-POWER M=S*

Comparative test: tension behaviour (N),
power $P=13.0$ kW, $n_1=4700$ min⁻¹



Test result:

Optibelt Super X-POWER M=S belts display an improved tension behaviour compared to Super TX M=S belts. The fibre-reinforced belt substructure together with the low stretch polyester tension cord and the optimised moulded cog lead to more dynamic and effective power transmission.

