

www.optibelt.com
optibelt

Products & Applications

CarPOWER




optibelt
Power Transmission

Drive solutions with Optibelt

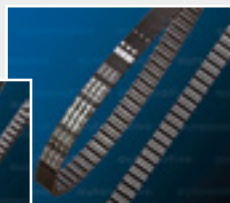
optibelt CarPOWER



High technology
from original equipment
manufacturer!

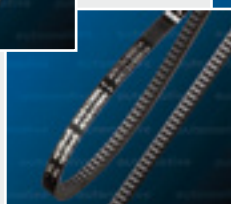


Ribbed Belts **RBK**



Timing Belts **ZRK**

V-belts
MARATHON 1



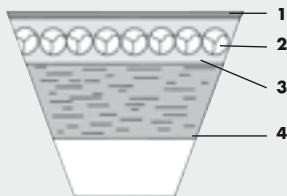
Repair Sets **KIT**



optibelt **MARATHON 1**



MARATHON 1



- 1 Fabric
- 2 Low-stretch polyester cord
- 3 Adhesive chloroprene rubber cushion compound
- 4 Chloroprene rubber compound with transversely oriented fibres



Sections:

AVX 10; AVX 13

Special sections:

AVX 11; AVX 11,2; AVX 11,5; AVX 11,9

Sizes:

AVX 10 from 600 - 1625 mm
AVX 13 from 700 - 2500 mm
AVX 11 528 mm
AVX 11,2 from 785 - 866 mm
AVX 11,5 from 685 - 790 mm
AVX 11,9 from 650 - 1183 mm

Further sizes on request.

Automotive V-Belts Raw Edge, Moulded Cogged

The MARATHON 1 has an excellent tension behaviour with low-stretch. That, together with the section accuracy, means it is quiet running to a high degree when it comes to rotating alternators, water pumps or air conditioning compressors.

The continuous utilization of the MARATHON 1 is of special economic efficiency due to the high maintenance-free performance.

- Long life
- High efficiency
- Maintenance-free operation
- Quiet running
- Excellent tension behaviour

The Optibelt MARATHON 1 is a special development for driving ancillaries on passenger car and commercial vehicle engines.

Application benefits

- Raw edge, moulded cogged ■ *high power transmission, small pulley diameters*
- Fibre core ■ *high wear resistance, quiet running, slip-insensitive*
- Polyester tension cord ■ *excellent tension behaviour, low stretch, maintenance-free*

Application areas:

For driving ancillaries on passenger car and commercial vehicle engines. Multi-pulley applications. For medium performance drives.



Section selection:



Sections and sizes on request.

Automotive Timing Belts

Optimum power transmission even after thousands of operating hours and with extreme loads – for these high requirements, Optibelt developed the ZRK timing belt. The sections and belt constructions of this high capacity belt have been perfectly designed – down to the smallest detail. The materials used are also perfect for the job: wear-resistant polyamide, zero stretch glass-fibre cord and durable polychloroprene elastomer. Due to the individual components being tuned optimally to one another, the Optibelt ZRK achieves excellent results with regard to performance and life. Especially in the compact drives of modern engines its efficiency is unrivalled.

- High efficiency factor
- Slip-free power transmission
- Maximum lifetime
- Enormous scuff resistance
- Service-free operation
- Extraordinarily resistant against cold, heat and oil
- Extreme tensile strength

The Optibelt ZRK is a special development for the camshaft drive in automotive engines.

Application benefits

- Positive drive ■ *synchronous speed transmission, low bearing loads*
- Shear proof teeth with exact circular pitch ■ *high power transmission, high functional safety, exact fit into the pulley grooves, high temperature resistance*
- Glass-fibre tension cord with low to zero stretch ■ *high tensile strength, no re-tensioning, maintenance-free*
- Low belt height ■ *very flexible, small pulleys possible*
- Resistant, durable top surface ■ *protection of the tension cord against mechanical wear, oil and moisture*
- Protective fabric on the tooth face with low coefficient of friction ■ *low transition resistance, long life, quiet and smooth running, high efficiency*

Application areas:

In automotive design for driving engine camshafts.



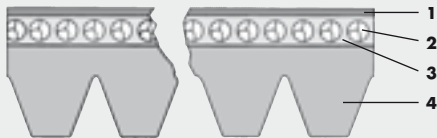
Automotive Ribbed Belts

New engine design is putting an increasing emphasis on space saving. Small pulley diameters necessitating thin, flexible belts are often the result. Optibelt ribbed belts are ideal products for today's serpentine drives and operate all of the accessories quietly and smoothly.

- High transmission ratios
- High power transmission
- Minimum slip
- Largely oil and temperature resistant
- Vibration free and quiet
- Low stretch

In passenger cars, commercial vehicles and buses, Optibelt ribbed belts drive the ancillaries such as the generator, the air conditioning compressor, the power steering pump smoothly and quietly.

RBK



- | | |
|--|--|
| 1 Fibre reinforced top surface: | wear-resistant chloroprene rubber compound |
| 2 Tension cord: | low-stretch polyester |
| 3 Cushion rubber: | high adhesion chloroprene cushion compound |
| 4 Base: | chloroprene rubber compound |

Sections:

PJ; PK; DPK

Sizes:

2 PK	from	786 - 905 mm
3 PK	from	550 - 1285 mm
4 PK	from	560 - 1520 mm
5 PK	from	625 - 2055 mm
6 PK	from	675 - 2680 mm
7 PK	from	870 - 2355 mm
8 PK	from	800 - 2605 mm
9 PK	from	1200 - 4145 mm
10 PK	from	1108 - 2063 mm
11 PK	from	1515 - 2055 mm
12 PK	from	1165 - 2500 mm
6 DPK	from	1188 - 1853 mm
7 DPK	from	1360 - 1400 mm

Further sizes on request.

Application benefits

- | | | |
|--|---|--|
| Combination of trapezoidal ribs on a rubber core | ■ | <i>high power transmission, high wear resistance, quiet running</i> |
| Single belt characteristic | ■ | <i>vibration free as well as insensitive to pulsating running and intermittent loads</i> |
| Polyester tension cord | ■ | <i>excellent tension behaviour, with low stretch</i> |
| Low section height | ■ | <i>very flexible, extremely small pulley diameters, serpentine drives (using reverse bend idlers), good heat resistance, long life</i> |

Application areas:

Utilization in automotive manufacturing for driving the accessories.



Repair Sets for Automotive

optibelt

Repair Sets for Automotive

Repair Kits

The protection of the drive belt should always be top priority. A wrong pretension caused by defective tension idlers can result in damage to the timing belt or ribbed belt. Therefore, it is recommended that the return, tension and guide idlers should be replaced at the same time as the belt. Thus expensive damage to the engine can be avoided.

Safety comes first:

According to the vehicle type, the Optibelt KIT consists of one or two Optibelt ZRK timing belts or Optibelt RBK ribbed belts and a tension idler.

Where necessary the return idler and/or guide idler are also included.

Consult the current documents or
the TecDoc for the assignments.





optibelt TT-A
Frequency tension tester

Frequency tension tester for the universal tension measuring of timing belts and ribbed V-belts



optibelt TT-3
Frequency tension tester

Frequency tension tester for the universal tension measuring of V-belts, timing belts and ribbed V-belts including data base divided into product groups



optibelt MT-A

(Mounting Tool – Automotive)
for the safe and professional installation of elastic EPK ribbed belts



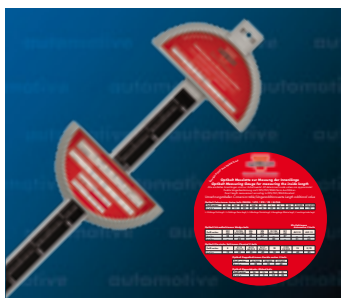
optikrik I, II, III
Belt tension gauges

The gauges reliably check whether the V-belt, the kraftband or the ribbed belt is tensioned correctly.



optibelt laser pointer II

The Optibelt laser pointer II simplifies the alignment of belt drives. It furthermore helps to determine the most common causes of drive failures.



optibelt Measuring Gauge

for V-belts, timing belts and ribbed belts

Optibelt GmbH

P.O. Box 10 01 32 • 37669 Hörter/Germany
Tel. +49 (0) 52 71 - 6 21 • Fax +49 (0) 52 71 - 97 62 00
info@optibelt.com • www.optibelt.com
A member of the Arntz Optibelt Group