



AUTOMOTIVE TECHNOLOGY
AUTOMOTIVE



SPECIALISTS

A man with short brown hair and a friendly smile, wearing a blue t-shirt and jeans, stands with his arms crossed. The background is a light gray technical drawing of a mechanical assembly, possibly a suspension system, with various bolts, nuts, and structural components visible.

“It all depends on
the right torque.”

Michael, 33, mechatronics technician

IN WORLDWIDE USE

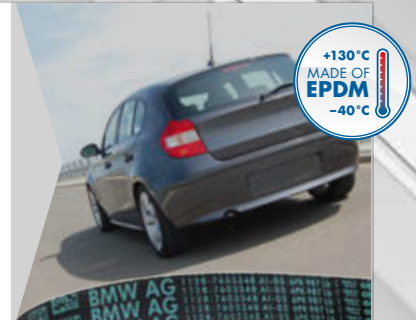
As an effective partner in the automotive branch, Optibelt has the ideal drive solution to meet even the most demanding requirements.

The highest quality and outstanding efficiency are always in tune with a flexible product development process, no matter how challenging the case. This is why renowned car manufacturers place their confidence in Optibelt's innovative and exceptionally high performance products.

FOR AUTOMOTIVE

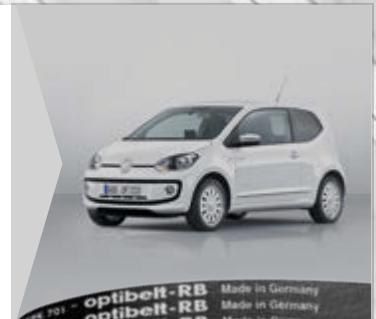
AT ONE WITH THE 1 SERIES

The new BMW 1 Series is equipped with specially designed EPDM ribbed belts made by Optibelt. Our consistently high OEM quality and worldwide Total Quality Management system ensure that every single manufacturing step is precisely defined and independently certified – guaranteeing top quality at all of our production facilities. Worldwide. This belt, for example, comes from our factory in Taicang, China.



FROM THE BEETLE TO THE UP! – VW RELIES ON OPTIBELT

The VW Beetle has been running smoothly with Optibelt V-belts since as early as 1950. In those days, it was the **optibelt FB** V-belt, running on two pulleys, that provided the perfect drive for the VW Beetle. The new VW up! uses the **optibelt EPK** elastic ribbed belt. The **optibelt EPK** is a customised solution for the up!'s transverse front-mounted engine. The challenge: High performance in the tightest space!



FOR HIGH PERFORMANCE

Manufacturers of commercial vehicles are increasingly opting for Optibelt when selecting original equipment for their drive solutions. Our products are already number one in Germany where buses are concerned. Our customers include renowned manufacturers such as Mercedes-Benz, Volvo, NEOPLAN, MAN and Setra. Our advantages: When developing drive solutions, we work in very close cooperation with our customers. We offer customised solutions even for small series.



DREAM TEAM – WET SLIP OPTIMISED

Once again, Optibelt's development engineers have developed a product with impressive properties: The **optibelt RBK** ribbed belt with lotus effect. Moisture forms beads on these drive belts and simply rolls off, resulting in completely noiseless power transmission. Optibelt has dedicated a special microsite (in German) to explaining the new German word, "nassschlupfoptimiert", created especially for this property: www.nassschlupfoptimiert.de



POLE POSITION FOR THE PORSCHE CARRERA CUP

The Porsche Carrera Cup has been an integral part of German motorsports for more than 20 years. The regulations stipulate that all participating vehicles must be structurally identical. The sports car of choice is the special edition Porsche 911 GT3 Cup with a 3.8 litre six-cylinder boxer engine, 450 HP and a maximum rotational speed of 8,500 rpm. This automotive powerhouse relies on the custom-designed **optibelt RBK** ribbed belt to ensure top performance.



DYNAMICS & EFF

Optimal performance for every pace.



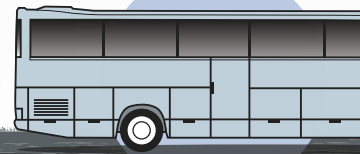
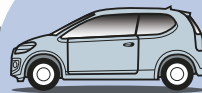
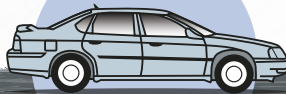
1. SPORTS CARS

High performance engines make special demands of the drive system.



3. SMALL CARS

Compact car designs require innovative, space-saving solutions.



2. MEDIUM RANGE

Superior ride quality and perfectly smooth and quiet running are ensured by sophisticated technology.



4. BUSES

A high level of operational reliability is particularly important for passenger vehicles. The materials used here are selected with great care.



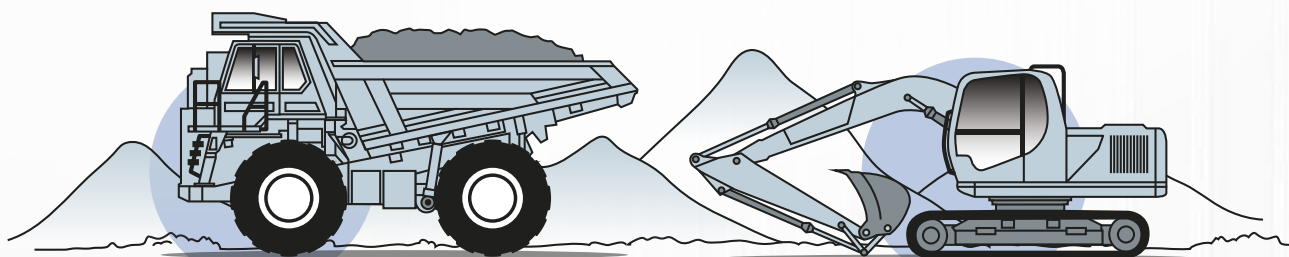
ICIENCY

The quality and safety requirements in the automotive branch are high and are constantly under close scrutiny. The materials used must also demonstrate exceptionally high performance and resilience in addition to exemplary energy efficiency. Optibelt's quality products provide sustainable solutions to these challenges.



5. TRUCKS

Reliable drive solutions of the highest quality prevent costly stoppages.



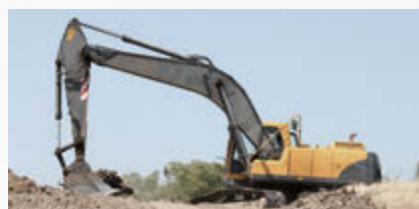
6. DUMPER TRUCKS

The heaviest loads and tough conditions call for wear-resistant and resilient materials.



7. EXCAVATORS

Whether chain drive or all-wheel drive – these heavyweights carry out the most arduous tasks, even on difficult ground.



optibelt MARATHON 1 M=S

V-BELTS



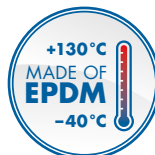
PROFILES

AVX 10; AVX 13; AVX 11; AVX 11,2;
AVX 11,5; AVX 11,9; V10; V13; V15;
V20; 10A; 11A; 13A; 15A; 17A; 20A

All common lengths are available

ADVANTAGES AND CHARACTERISTICS

- particularly smooth running, long service life
- low-stretch tensioning properties
- low-maintenance operation with guaranteed cost-effectiveness



optibelt RBK

RIBBED BELTS



PROFILES

PJ; PK; DPK; EPK

All common lengths are available

ADVANTAGES AND CHARACTERISTICS

- high flexibility
- no need for tensioning systems when using the elastic **optibelt RBK**
- high temperature resistance
- low vibration and low noise operation

optibelt ZRK

TIMING BELTS



PROFILES

Profiles and lengths on request

ADVANTAGES AND CHARACTERISTICS

- maximum service life and operational reliability
- high performance material combinations: wear-resistant fabrics, low-stretch tensile reinforcement, resilient elastomers

optibelt KIT

REPAIR SETS FOR CARS – WITH OR WITHOUT WATER PUMP



RANGE OF PRODUCTS

Available range for all common car and van models

ADVANTAGES AND CHARACTERISTICS

- for all common car and van models
- all KIT components in proven "OEM" quality, for optimum reliability
- associated fittings and functional packaging
- with or without water pump, as required

optibelt SUR

TENSION AND GUIDE IDLER PULLEYS



ADVANTAGES AND CHARACTERISTICS

- available individually as well as in the **optibelt KIT**
- meet high demands regarding reliability
- provide for the necessary operational tension

optibelt TRUCK POWER MARATHON 2 M=S

V-BELTS



PROFILES

AVX 10; AVX 13; AVP 13

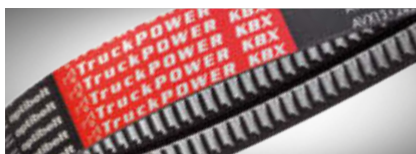
All common lengths are available

ADVANTAGES AND CHARACTERISTICS

- M=S (Matched Sets): can be used in sets without further measurement, also for multi-groove drives
- low stretch and extremely wear resistant
- 40-60% longer service life than standard belts

optibelt TRUCK POWER KBX

KRAFTBANDS



PROFILES

AVX 10 – 2 ribs; AVX 13 – 2 ribs;
XPB – 2 ribs

More profiles on request

All common lengths are available

ADVANTAGES AND CHARACTERISTICS

- perfectly suited for critical drive systems in buses and commercial vehicles
- low vibration, even with larger distances between shaft centres
- low-maintenance operation and particularly smooth, quiet running

optibelt TRUCK POWER RBK

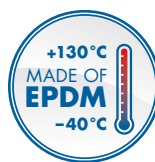
RIBBED BELTS



PROFILES

PK

All common lengths are available



ADVANTAGES AND CHARACTERISTICS

- large transmission ratios
- high power transmission
- minimal slip
- high temperature resistance
- low vibration and low noise operation

optibelt TRUCK POWER KIT

REPAIR SETS FOR TRUCKS



RANGE OF PRODUCTS

Available range on request

ADVANTAGES AND CHARACTERISTICS

- perfectly coordinated **optibelt KITS** for buses and commercial vehicles, with associated tension and guide idler pulleys
- all KIT components in proven "OEM" quality, for optimum reliability
- functional packaging

optibelt SERVICE TOOLS

- optibelt **OPTIKRIK 0, I, II, III** – belt tension gauges
- optibelt **MEASURING GAUGE** – for V-belts, timing belts and ribbed belts
- optibelt **LASER POINTER II** – simplifies the alignment of belt drives
- optibelt **MT-A & MT-A II** – mounting tool
- optibelt **TT-A** – tension gauge

SERVICE TOOLS FOR PROFESSIONALS

SAFETY SERVICE WITH OPTIBELT PRECISION



FOR THE SAFE AND PROFESSIONAL INSTALLATION OF ELASTIC **optibelt EPK** RIBBED BELTS

Optibelt offers two tools to ensure easy installation of elastic ribbed belts: the **optibelt MTA** and the **optibelt MTA-II**. These tools prevent damage being caused to the belt pulleys and to the sensitive tensile reinforcement of elastic ribbed belts. All workshops that want to be properly equipped to install elastic ribbed belts are advised to purchase both of the Optibelt tools.

With the **optibelt MTA**, you have a universal tool to hand that replaces a number of costly special tools sold by car manufacturers. This high-quality tool is made of highly resilient material and is particularly easy to use. The only other things you will need are the **optibelt EPK** belt and a spanner or socket spanner with which to manually turn the drive pulley.

Due to the special method employed, the tool can be used for many different vehicles.



The special **optibelt MTA-II** tool is needed for fitting elastic ribbed belts in some Ford and Volvo engines. This tool allows you to replace the generator belt easily and professionally.

The **optibelt MTA** is still required for fitting the second belt, which drives either the servo pump or the air-conditioning compressor, depending on the type of vehicle.

You can find more information and service tools on our website:
www.optibelt.com.

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**ALWAYS AT
YOUR SERVICE**

