

Brakes



Product competence from EUROPART

- Disc brakes
- Drum brakes
- Special tools
- Workshop Equipment



EUROPART - Europe's No. 1 for truck, trailer, van and bus spare parts!

Dear customers,

The EUROPART team is happy to give you a glimpse on the next couple of pages of one of the EUROPART Group's best-selling product groups.

We have worked with our strong brand partners such as Knorr-Bremse TruckServices and TMD Friction to create a range of products to accommodate our customers' needs. There is one thing that connects you, our brand partners and us, and that is: a passion for the utility vehicle industry.

In our competence brochures, the focus is on technical innovations from our industrial partners. Our close relationship with the market leaders in our industry and our shared will to give the free spare parts market a state-of-the-art, innovative, and first-class product portfolio are key to our success.

Together we put the customer at the centre of what we think and do. We are constantly striving toward the common goal of meeting the needs of our customers with top quality products, thus guaranteeing short repair times and a long service life of your utility vehicles.

We at EUROPART know all about the topic of "repair at fair value", and we take responsibility. That's why we, with our EUROPART Premium Parts private brand are synonymous with superior quality, and not only in racing. The sense of responsibility and commitment of our international team allows us to take pride in our own brand. We will continue to fulfil our responsibility and broaden our product range.

I'm looking forward to years of success, together with you and our partners.

Yours sincerely,
Sebastian Kamphaus
Director Category Management



The person to go to when you're looking for reliability!

EUROPART – passion brings us together!
After 7 decades in the market, we are proud to say: we are a company with tradition and down-to-earth values. Our passion for utility vehicles particularly connects us to our customers.

As a full-range provider, EUROPART relies on strong brand partners

As one of the largest international parts dealers in the free utility vehicle aftermarket, we offer our customers an extensive spectrum of products **with over 400,000 components as truck, trailer and bus replacement parts.** In plain terms, for our customers this means a large product portfolio of reliable brand products from reputable manufacturers.

Click here for the customer online magazines. More exciting stories about our customers can be found online.
<https://www.europart.net/de/70jahre>



It's a good thing to have a brand that you can count on. But what's even better is having multiple brands.

We see ourselves as a parts consultant and solution provider. **This means:** EUROPART selects the right brand for every customer request in advance



TMD FRICTION
ANISSHINBO GROUP COMPANY

About TMD Friction®

A fully owned subsidiary of Nisshinbo Holdings Inc., TMD Friction is a world-leading manufacturer of brake pads for the automotive and brake industry. Alongside disc and drum brake linings for passenger and utility vehicles, the range of products includes racing brake linings and industrial friction materials. TMD Friction supplies the global spare part market with its private brands Textar, Nisshinbo, Mintex, Don, Pagid and Cobreq. It also develops and manufactures industrial friction pads under the brand names Cosid and Dynotherm. With a workforce of about 4,700, the TMD Friction Group maintains four locations in Germany, in addition to further branches in Europe, the United States, Brazil, Mexico, Japan, and South Africa. Further details at www.tmdfriction.com.

"To expand and foster our collaboration with EUROPART even further is part of our joint strategy. The demands and requests of our customers always take centre stage here, because they don't only rely on a wide range of products with a high degree of market coverage, but they also expect outstanding service surrounding the topic of brakes. With EUROPART as our powerful partner, we stand up to the latest challenges of the market on a daily basis to come up with customer-focused solutions. In addition to a broad spectrum of products, we offer our customers a multitude of services such as brochures, videos and sales campaigns to assist them in their day-to-day activities. Brakebook, our exclusive online catalogue system that provides all product details at a few simple clicks, is particularly useful. We seek to establish a long-term partnership with EUROPART as our "premium supplier in the utility vehicle segment", joining forces in a drive to develop the market-oriented solutions for tomorrow's customer structure", explained Sales Director Central Europe for TMD Friction, Jörg Schmuck.



Jörg Schmuck,
Sales Director Central Europe TMD Friction
Photo: Copyright TMD Friction, 2019.



The interactive EUROPART 3D axle.
The utility vehicle axle and its key components at a glance



Disc brakes



Brake caliper

Reman

This figure corresponds to 7619 103 113

Suitable for	Brake system	Type number	Version	Installation side	Fastening	Order no	Comparative no
Meritor (ROR)	SB-SN6	SN6580RC				7619 102 001	Knorr K013174
Meritor (ROR)	SB-SN6	SN6570RC				7619 102 002	Knorr K013173
Meritor (ROR)	SB-SN7	SN7274RC				7619 103 125	Knorr K040954K50
Meritor (ROR)	SB-SN7	SN7264RC				7619 103 126	Knorr K040953K50
Mercedes-Benz Actros, Atego, Econic 1 Setra series 300, 400 Solaris Urbino III Temsa Safari HD		SN7211RC	standardised	vehicle-dependent	axial	7619 103 113	Knorr K136362X50 Knorr K003800
Mercedes-Benz Actros, Atego, Econic 1 Setra series 300, 400 Solaris Urbino III Temsa Safari HD		SN7201RC	standardised	vehicle-dependent	axial	7619 103 114	Knorr K136363X50 Knorr K003799



Brake caliper

Brake system TSB 4309
Version complete
Quality BPW 8200

Scope of supply
without brake linings

Suitable for	Order no	Comparative no
BPW	6093 627 210	BPW 09.362.72.11.2

Accessories

Description	Order no	Comparative no
Repair kit for brake caliper bearing shaft	6098 010 761	BPW 09.801.07.61.0



Brake caliper

Brake system TSB 3709
Quality BPW 8200

Scope of supply
without brake linings

Suitable for	Version	Order no	Comparative no
BPW		6093 627 213	BPW 09.362.72.13.2
BPW	complete	6093 627 214	BPW 09.362.72.14.2

Accessories

Description	Order no	Comparative no
Repair kit for brake caliper thrust piece	6098 010 763	BPW 09.801.07.63.0



Brake caliper

Brake system TSB 4309
Version complete
Quality BPW 8200

Scope of supply
without brake linings

Suitable for	Order no	Comparative no
BPW	6093 627 212	BPW 09.362.72.12.2

Accessories

Description	Order no	Comparative no
Repair kit for brake caliper sealing bearing shaft	6098 010 762	BPW 09.801.07.62.0

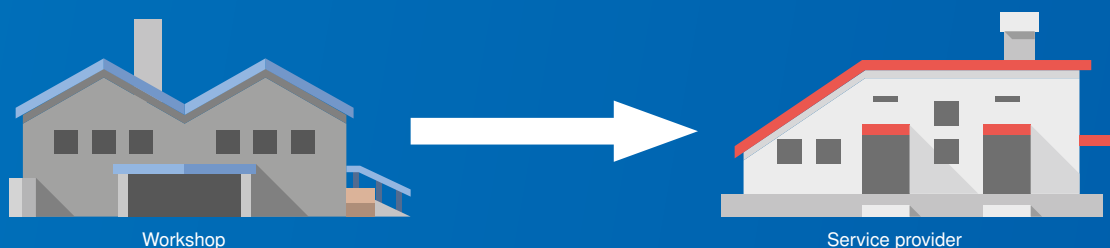
What is remanufacturing?

Remanufacturing does not just mean repairing a broken component. Rather, it means the cost-efficient reconditioning of a component to industrial standards using an approved core and new parts in their original equipment quality. A reconditioned component is absolutely on par with a new part in terms of safety and function, since it has been reconditioned and subjected to final examination to the same specifications as the new part.

The only thing that sets it apart from a new part is the shorter service life, owing to the "old" core that is being used. Therefore, Reman parts are especially suited for fair-value repair work on older towing vehicles and trailers.

Apart from economic aspects, sustainability is another hot topic which the industry and its customers are attaching more and more importance to, and which is gaining traction in the market based on voluntary commitments or specifications included in invitations for bids. Against this backdrop, remanufacturing constitutes a critical element when it comes to sustainability in your economic activities because, amongst other things, up to 70% of carbon dioxide emissions can be prevented by the reconditioning and reusing of clamping units.

The remanufacturing process at a glance



Recovery of defective components

A deposit return scheme helps provide stimuli for customers to return defective parts to their retailers, who in turn send these parts back to the original manufacturer via their used parts management system. Even before the defective part arrives at the original manufacturer, it is tested using a predefined process within the used parts management system for its remanufacturing potential.

Evaluation process

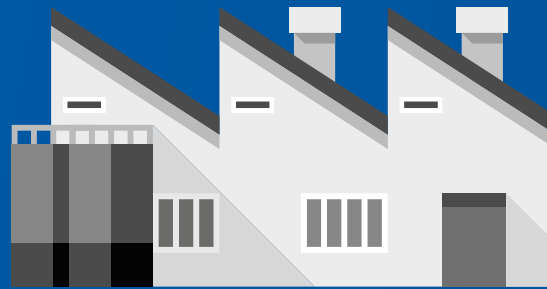
Once received by the manufacturer, the core (that is, the part of the component which needs remanufacturing) is inspected for wear and ageing in accordance with the most stringent requirements. The defective part is not fed into the actual reconditioning process before these strict requirements are 100% met.

To wrap things up:

The use of Reman parts for the repair of older vehicles at fair value offers saving potentials on all levels (cost-effectiveness, efficiency, conservation of resources) without compromising on safety.

All reconditioned clamping units available from EUROPART come with brand-new:

- bolts and screws;
- seal washers;
- metal fasteners and covers;
- cases;
- rubber seals and rubber bushings.



Manufacturer

Disassembly

Disassembly is done by qualified workers with the help of dedicated special tools. The disassembly work needs to be gentle to avoid damage to sealing surfaces and prevent warping and cracking amongst other things, which would leave the core unsuitable for subsequent use.

Cleaning

For the later steps of the remanufacturing process, it is mandatory that all residues of paint, dust or grease are thoroughly removed. The cleaning process uses a variety of thermal, chemical and mechanical techniques including ultrasound cleaning, depending on the composition of the core material.

Reconditioning

In the next step, the cleaned surfaces are reconditioned in a specialised procedure using special tools which are based on, or correspond to, the new parts specifications of the original equipment manufacturer. All non-reusable parts are substituted by new components, which are an exact match to the components used in the manufacture of OEM new parts.

Final inspection/testing

The reconditioning process generally takes place on the same production lines as the assembly of the respective OEM new parts, meaning the reconditioned items are subject to the same final inspection and safety/functional testing according to the same stringent requirements.

This is rounded out by a 12-month manufacturer guarantee which underpins the high quality of safety of Reman parts.

EUROPART
GOOD TO KNOW



 **KNORR-BREMSE**

Brake caliper

Version standardised

Suitable for	Type number	Installation side	Order no	Comparative no
Mercedes-Benz Actros 1/2/3/4, Arocs, Antos, Axor 1/2/3, Atego 1 (18 t), Econic 1/2	SL7504RC	left	3400 052 380	Knorr K052380K50
Mercedes-Benz Actros 1/2/3/4, Arocs, Antos, Axor 1/2/3, Atego 1 (18 t), Econic 1/2	SL7514RC	right	3400 052 381	Knorr K052381K50
Mercedes-Benz Actros 1/2/3/4, Axor 1/2/3, Atego 1 (18 t), Atego 3, Econic 1	SM7012RC	left	¹ 3400 052 391	Knorr K052391K50
Mercedes-Benz Actros 1/2/3/4, Axor 1/2/3, Atego 1 (18 t), Atego 3, Econic 1	SM7002RC	right	¹ 3400 052 390	Knorr K052390K50

¹ SN7

 **KNORR-BREMSE**

Brake caliper

Suitable for	Type number	Order no	Comparative no
SAF, Schmitz Cargobull	ST7003RC	3400 975 305	Knorr K097530K50
SAF	ST7013RC	3400 975 310	Knorr K097531K50

Accessories

Description	Order no	Comparative no
Pressure pad set	3401 080 045	Knorr K108004K50
Guide sealing set	3400 010 766	Knorr K108002K50

 **KNORR-BREMSE**

Brake caliper

Brake system SN7
Version standardised
Installation side vehicle-dependent
Fastening axial

Suitable for	Type number	Order no	Comparative no
Mercedes-Benz Actros, Axor, Atego, Econic, Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Turismo II, Travego I/II (O 580) Setra series 300, 400 Solaris Urbino III Temsa Avenue LF, Safari HD	SN7201RC	3450 414 762	Knorr K003799
Mercedes-Benz Actros, Axor, Atego, Econic, Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Turismo II, Travego I/II (O 580) Setra series 300, 400 Solaris Urbino III Temsa Avenue LF, Safari HD	SN7211RC	3450 414 763	Knorr K003800



About Knorr-Bremse®

"Two strong partners, one shared goal: to keep utility vehicles running efficiently and for a long time. This characterises the relationship between EUROPART and Knorr-Bremse TruckServices.

Having been voted best in class multiple times, we joined forces to offer our customers a top-quality portfolio of spare parts and services. Hence it is a particular honour for us that we were awarded the title of "Supplier of the Year 2018". We see this as a tremendous sign of confidence in our common work both at a national and international level.

With EUROPART, Knorr-Bremse TruckServices has a partner with which we team up for strategic projects such as product rollouts, to offer our clients the best possible service. This year, we'll be delivering a retrofittable solution for driver assistance systems (ProFleet Assist) with optional turning assistance feature (ProFleet Assist+), in addition to our full range of turbochargers. But we don't just care about new products—we're also working together on our existing portfolio to present the well-designed technologies and benefits that OEM quality offers. Air dryer cartridges are a good example. What's special about the Knorr-Bremse OSC air drying cartridge is that it filters oil and pollutant particles from the compressed air before it even enters the drying agent, thus preventing the infiltration of even the smallest of particles – for a constant drying performance over long periods.



Alexander Wagner,
Division Manager of Sales & Marketing Aftermarket EMEA

KEEP IT RUNNING

UND WENN ES DARAUF ANKOMMT, IST IMMER JEMAND FÜR MICH DA, HÄNDLER AUF DER GANZEN WELT VERSORGEN MICH MIT ORIGINAL-ERSATZTEILEN DIE PERFECT ZU MIR PASSEN, UND DIE PROFIS IN DEN WERKSTÄTTEN HALTEN MICH FIT UND BRINGEN MICH ZURÜCK AUF DIE STRASSE – SO SCHNELL WIE MÖGLICH.

SO GEHT ES IMMER WEITER: TAGEN, TAGAUS, AN UNSERER STAMMSTRECKE – UND HIN UND WIEDER ZU NEUEN ZIELEN. AUCH NACH SO VIELEN TOUREN BRINCK DES FAHRENS NOCH NICHT MUDE. ES GIBT SO VIEL ZU SEHEN UND ZU ERLEBEN. WIR BLEIBEN NICHT STEHEN UND BRINGEN ALLES SICHER ANS ZIEL.

TRUCKSERVICES



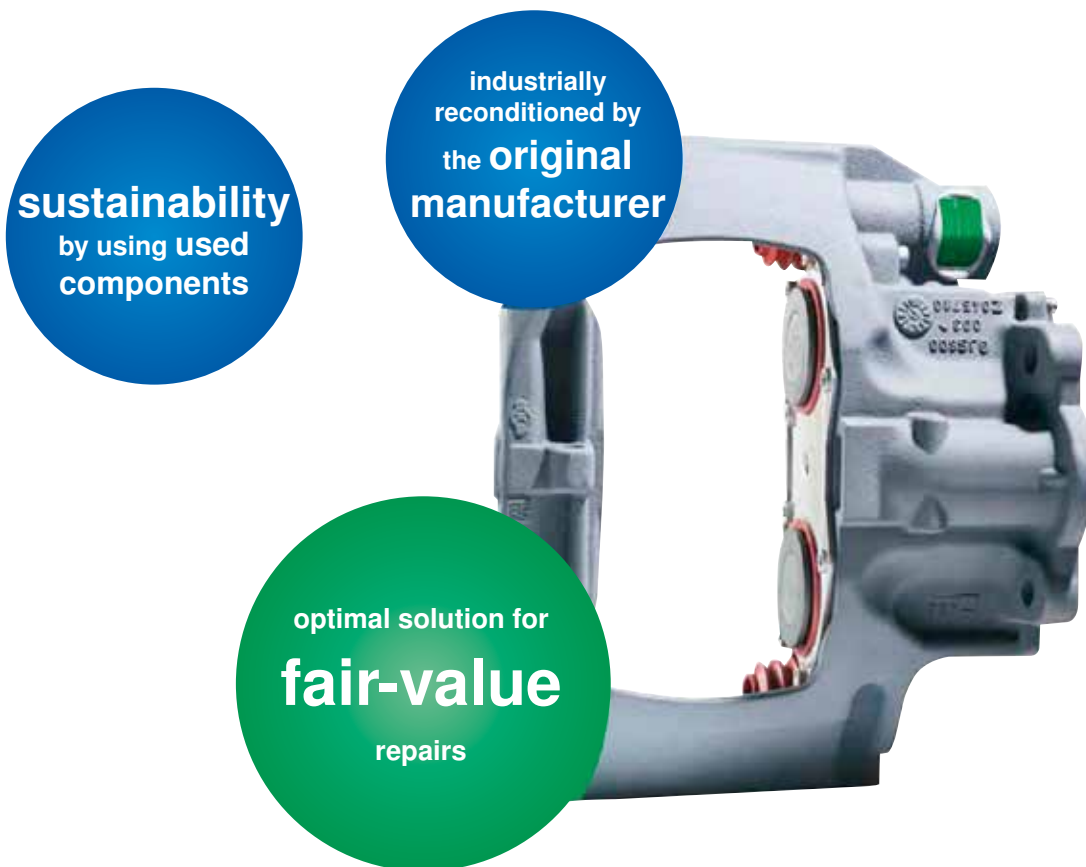
axial EconX® clamping units – all benefits at a glance

Reconditioned to original standards

- cost efficiency thanks to reconditioned components for fair-value repairs at an attractive price
- OEM quality through use of OEM parts and OEM assembly lines
- sustainability, with more than 73% CO₂ saved during production compared with a brand-new product

EconX® products afford as much safety to older vehicles as new products. This is because despite the reduced service life, reconditioned EconX® products offer the same functionality.

Knorr-Bremse guarantees this by following a special remanufacturing process which is based on OEM standards. This is made possible because the OEM requirements of all manufacturers are available to them, including design and revision levels as well as the original components needed.



Brake caliper EconX®, Reman

Suitable for	Type number	Order no	Comparative no
BPW	SK7042	3402 663 150	Knorr K126631X50
BPW	SK7052	3402 663 250	Knorr K126632X50



KNORR-BREMSE

Brake caliper

Brake system SB 4309 (SK7)
Version standardised

Suitable for	Type number	Installation side	Order no	Comparative no
BPW SAF Schmitz Cargobull	SK7042RC	left	3450 414 790	Knorr K012633
BPW SAF Schmitz Cargobull	SK7052RC	right	3450 414 791	Knorr K012634

Accessories

Description	Order no	Comparative no
Guide sealing set	3400 010 766	Knorr K108002K50
Pressure pad set	3400 110 013	Knorr K010603



KNORR-BREMSE

Brake caliper

This figure corresponds to 3450 414 776

Suitable for	Brake system	Order no	Comparative no
Scania	SN7-HP	¹ 3404 638 750	Knorr K146387K50
Scania	SN7-HP	² 3404 638 850	Knorr K146388K50
Scania R, G, P	SN7-HP, SB7202RC	3400 047 081	Knorr K040946K50
Scania R, G, P	SN7-HP, SB7212RC	3400 047 080	Knorr K040945K50

¹ SN7513RC

² SN7503RC



Brake caliper

pre-installed, tangentially screwed brake calliper/carrier unit

Scope of supply
without brake linings

This figure corresponds to 3405 173 950

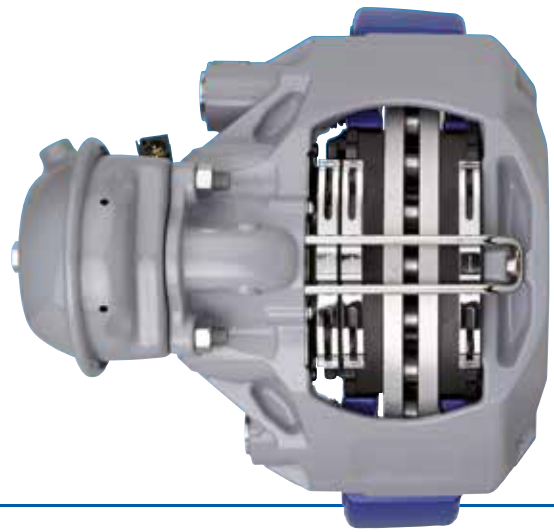
Suitable for	Brake system	Order no	Comparative no
BPW	SB3745T (SN6)	3405 174 150	BPW 05.362.70.60.4
BPW	SB3745T (SN6)	3405 174 250	BPW 05.362.70.61.4
BPW	SB4309T (SK7)	3405 173 950	BPW 05.362.70.63.1
BPW	SB4309T (SK7)	3405 174 050	BPW 05.362.70.62.1
BPW	SB4345T (SN7)	3405 173 750	BPW 05.362.70.64.3
BPW	SB4345T (SN7)	3405 173 850	BPW 05.362.70.65.3



Brake caliper

Brake system SBS 2220
Type number DBT22LT

Suitable for	Installation side	Order no	Comparative no
Gigant, SAF	left	3970 095 620	Haldex 95620C
Gigant, SAF	right	3970 095 621	Haldex 95621C



WABCO

Brake caliper

Brake system MAXX 22

Scope of supply
without lining

Suitable for	Installation location	Installation side	Order no	Comparative no
MAN TGX (2013-), TGX (2007-), TGS (2013-), TGS	front	left	3803 220 300	WABCO 640 322 031 0
MAN TGX (2013-), TGX (2007-), TGS (2013-), TGS	front	right	3803 220 320	WABCO 640 322 032 0
MAN TGX (2013-), TGS (2013-) MAN Lion's Coach (R09)	rear	left	3803 220 340	WABCO 640 322 034 0
MAN TGX (2013-), TGS (2013-) MAN Lion's Coach (R09)	rear	right	3803 220 350	WABCO 640 322 035 0



SAF

Brake caliper

This figure corresponds to 5030 800 081

Suitable for	Brake system	Type	Wheel size	Installation side	Order no	Comparative no
SAF	SBK 1937	SN6	19,5"	left	5030 800 061	SAF 3 080 0061 00
SAF	SBK 1937	SN6	19,5"	right	5030 800 062	SAF 3 080 0062 00
SAF	SBS 2220			left	¹ 5030 800 081	SAF 3 080 0081 00
SAF	SBS 2220			right	¹ 5030 800 082	SAF 3 080 0082 00

¹ With brake lining



EUROPART® Premium Parts

High quality is guaranteed: Our suppliers are subject to auditing in accordance with the high standards of the automotive industry. EUROPART also uses its own products under the toughest conditions in truck racing. Parts such as brake linings and brake discs are subjected to extreme loads in truck racing: when a truck with a power of 1100 PS brakes, the brake discs reach temperatures up to 600 degrees – truck race approved!



Now also with Green Coating!



Brake pad set

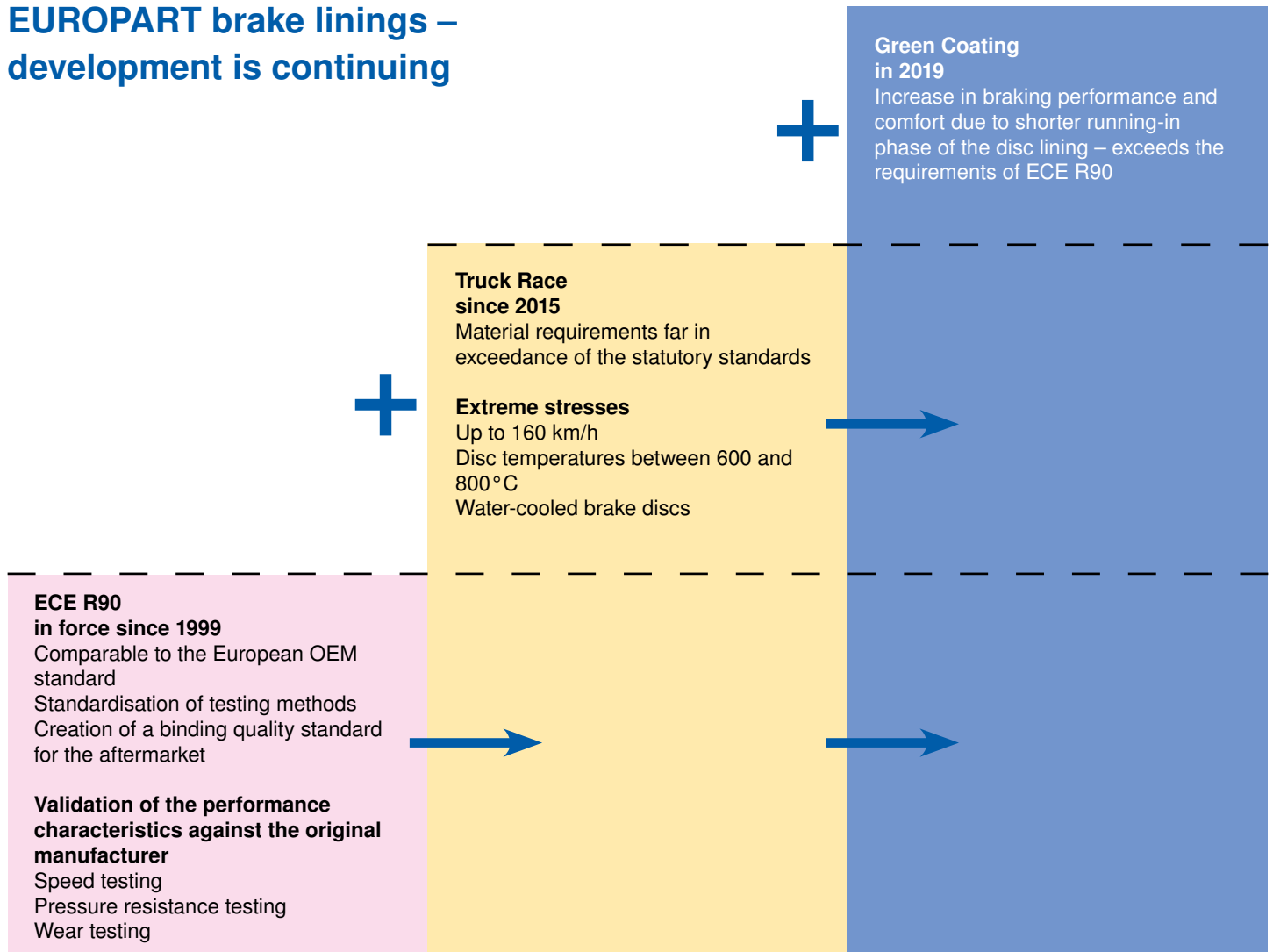
This figure corresponds to 2323 405 206

Suitable for	WVA no.	Brake system	Coating length	Lining length	Lining width	Lining thickness	Order no
Iveco EuroCargo I/II, EuroFire MAN TGX, TGS, TGA, TGM Mercedes-Benz Atego 1/2/3/4	29095	SB6000	210,6 mm	92,5 mm	30,00 mm	1	2129 095 006
DAF XF Euro 6, XF105, XF95, 95XF, CF Euro 6, CF85, CF75, CF65, 85CF, LF55 Iveco Stralis I/II, EuroCargo I/II, EuroTech, EuroTrakker, Trakker MAN TGX (2013-), TGX (2007-), TGS, TGA, TGM (2013-), TGM Mercedes-Benz Actros 1/2/3, Axor 1/2/3, Atego 1 (18 t), Atego 1/2, Eonic 1 Scania R, G, P, T	29108	SB/SN 7	247,5 mm	109,5 mm	30,00 mm	1	2323 405 206
SAF SKRB 9022 K, SKRS 9022/11222 K, SKRZ 9022/11222 K Mercedes-Benz TE 5/2 C7-9, TE 5/3 C7-9, TE 5/8 C7-9, TL 5/1 C7-9, TL 5/8 C7-9, TZ 5/2 C7-10.5, TZ 5/3 C7-9, TZ 5/4 C7-9, TZ 5/8 C7-9	29158	SK7	210,8 mm	108 mm	30,00 mm	1	2129 158 009
SAF SKRLB 9022 W/WI Integral, SKRS 9022/11022 W, SKRZ 9022/11022 W	29162	PAN 22-1	210,3 mm	109,8 mm	31,00 mm	2	2129 162 100
Renault Magnum II/III, Premium II Volvo FH III (2013-), FH II (2006-2011), FM II (2006-2013), FE II (2013-), FE I (2010-2012) Volvo B5LH, B7R, B9L, B9R, B9TL, B13R	29174	ELSA 225-3	249,6 mm	106,9 mm	29,20 mm	2	2129 174 008
MAN TGL (2008-), TGL Mercedes-Benz Actros 3/4, Antos, Axor 2/3, Atego 1/2/3/4	29183	SB/SN 5	185 mm	84 mm	27,00 mm	1	2129 115 008
BPW	29306	SB3745	210,90 mm	92,5 mm	30,00 mm	1	2129 029 306
BPW	29307		248 mm	109,5 mm	30,00 mm	1	2129 029 307
BPW	29308	SB4309T (SK7)	210,8 mm	108 mm	30,00 mm	1	2129 029 308

¹ With accessories

² with accessories, prepared for wear indicator

EUROPART brake linings – development is continuing



EUROPART disc brake linings with Green Coating

Special:

- constant friction coefficient right from the start
- shorter running-in period with optimised wear pattern between brake lining and brake disc
- striped friction surface varnish
- application with state-of-the-art, high-precision scree-printing equipment
- the contour is maintained by using special stencils
- laser projectors for proper positioning of the varnish on the coating
- consistent quality through automated painting and drying plant



General:

- production to the highest standards in automotive IATF 16949 – DEKRA-certified
- product certification to UN ECE R90
- developmental testing scope exceeds R90:
 - Comfort: Noise testing
 - Service life: Disc tolerance
- automated production processes with cutting-edge equipment
- multi-composite friction lining, includes bonding agents (milled resins), fibre components (including mineral wool, glass fibre), lubricants (graphite powder, metal sulphide powder), metallic (e.g. copper, steel) and mineral (e.g. aluminium oxide) fillers.
- mix of friction linings optimised to suit the user profile
- no undesirable braking noises
- accessory parts provided

EUROPART
GOOD TO KNOW



OEM-quality brake pads from Beral® have made roads safer for millions of trucks, trailers and buses for more than 6 decades. Custom-designed to match the vehicle's brake system, they guarantee two important factors: safety and profit. With a host of innovations such as jagged pivots, interlocking anchor plates, pre-formed V seams, thermal support padding and anchor plates from cast iron, Beral® and its brake linings are synonymous with high standards and even exceed the requirements of quality-conscious fleet managers.



Brake pad set

This figure corresponds to 2129 246 350

Suitable for	WVA no.	Brake system	Coating length	Lining width	Lining thickness	Order no	Comparative no
Gigant Protec DH4 05506 3334 MAN TGL Mercedes-Benz Actros 3/4, Antos	29183	SB/SN 5	185 mm	84 mm	27,00 mm	¹ 2129 115 270	Beral 2918327004145503
Mercedes-Benz Actros 1/2/3/4, Arocs, Antos, Axor 1/2/3, Atego 1 (18 t), Eonic 1/2	29244	SL7.../SM7	207,6 mm	113,7 mm	35,00 mm	¹ 2129 244 350	Beral 2924435004172213
Mercedes-Benz Actros 1/2/3/4, Arocs, Antos, Axor 1/2/3, Atego 1 (18 t), Atego 3, Eonic 1/2	29246	SL7.../SM7	244,6 mm	113,7 mm	35,00 mm	² 2129 246 350	Beral 2924635004171213
SAF	29318, 29319	Knorr ST7-430	215 mm	108,5 mm	32/35 mm	² 2142 931 900	Beral 2931935004105393
Schmitz Cargobull	29328	Knorr ST7-430	215 mm		35/32 mm	² 2142 932 800	Beral 2932835004105393

¹ with accessories

² prepared for wear indicator



The premium brand for brake systems, Jurid® is a global leader in the field of original equipment and products catering to the spare part market. The brand has excelled for more than a century with its technical innovations. Today, Jurid® is synonymous with top performance and an unwavering commitment to designing solutions for the brake systems of the future.

Brake pad set

WVA no. 29253

Version ProTecS®, prepared for wear indicator

Scope of supply

with accessories

This figure corresponds to 2100 004 242

Suitable for	Installation location	Coating length	Lining width	Lining thickness	Order no	Comparative no
DAF XF Euro 6, XF105, XF95, 95XF, CF Euro 6, CF85, CF75, CF65, 85CF, LF55 Iveco Stralis I/II, EuroCargo I/II/III, EuroTech, EuroTrakker, Trakker MAN TGX (2013-), TGX (2007-), TGS, TGM (2013-), TGM Mercedes-Benz Actros 1/2/3, Axor 1/2/3, Atego 1 (18 t), Atego 1/2, Eonic 1 Scania R, G, P, T	front axle	248 mm	109 mm	30,00 mm	2129 108 000	Jurid 2925305390
Fast Scoler III, Starter, Syter MANTGA , F2000, F90, Lion's City (A20/A21/A37), Lion's Star (R02/R03), NG (A23), NL (A21), NÜ (A20) Mercedes-Benz O 340, Tourismo (O 350), O 404 Neoplan Centroliner (N 45XX), Tourliner (N 2216), Trendliner (N 3516) Setra series 300 Temsä Safari	front axle/rear axle	250 mm	118 mm	28,00 mm	2100 004 242	Jurid 2903005390

Knorr brake lining finder

For the easy and straightforward identification of the right Knorr-Bremse brake linings and kits for your vehicle.



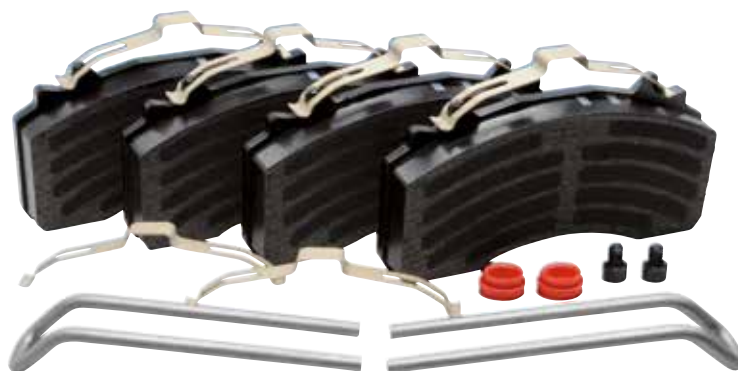
KNORR-BREMSE

Brake pad set

This figure corresponds to 3418 027 062

Suitable for	WVA no.	Brake system	Installation location	Coating length	Lining width	Lining thickness	Order no	Comparative no
Mercedes-Benz Actros 1/2/3/4, Arocs, Antos, Axor 1/2/3, Atego 1 (18 t), Econic 1/2	29244, 29245	SL7	Front axle				¹ 3404 677 450	Knorr K046774K50
Mercedes-Benz Actros 1/2/3/4, Arocs, Antos, Axor 1/2/3, Atego 1 (18 t), Atego 3, Econic 1/2	29246	SL7.../SM7	Rear axle				¹ 3404 677 050	Knorr K046773K50
DAF XF Euro 6, XF105, XF95, 95XF, CF Euro 6, CF85, CF75, CF65, 85CF, LF55 Iveco Stralis I/II, EuroCargo I/II, EuroTech, EuroTrakker, Trakker MAN TGX (2013-), TGX (2007-), TGS, TGA, TGM (2013-), TGM Mercedes-Benz Actros 1/2/3, Axor 1/2/3, Atego 1 (18 t), Atego 1/2, Econic 1 Scania R, G, P, T	29253	SB7.../SN7...	Front axle/ rear axle	248 mm	110 mm	30,00 mm	¹ 3400 467 770	Knorr K046771K50
DAF XF Euro 6, CF65 II (2006-)	29278	SB7/SN7		247,7 mm	109,7 mm	30,00 mm	¹ 3400 794 950	Knorr K107949K50
SAF	29319	ST7/SBS 2220					3401 080 205	Knorr K108020K50
Schmitz Cargobull	29328	SK7, ST7					3409 753 350	Knorr K097533K50

¹ with accessories, ProTecS®, prepared for wear indicator



WABCO

Brake pad set

This figure corresponds to 3803 229 332

Suitable for	WVA no.	Brake system	Coating length	Lining width	Lining thickness	Order no	Comparative no
SAF SK RB 9019 W	29159	PAN 19-1 plus	210,6 mm	92,3 mm	29,80 mm	¹ 6370 999 737	WABCO 12 999 737VT
Schmitz	29162	PAN 22/22-1			31,85 mm	¹ 0402 259 222	WABCO 640 225 922 2
MAN TGX (2013-), TGX (2007-), TGS MAN Lion's Coach (R09)	29279	MAXX 22			30,5 mm	3803 229 332	WABCO 640 322 933 2
Mercedes-Benz Actros 4, Arocs, Antos, Econic 2	29315	MAXX 22				¹ 6403 229 582	WABCO 640 322 958 2

¹ with accessories



Brake pad set

This figure corresponds to 2129 273 050

Suitable for	WVA no.	Brake system	Installation location	Coating length	Lining width	Lining thickness	Order no	Comparative no
Volvo FH II (2002-2006), FH12 (1993-), FH16 II (-2006), FH16 I (1999-), FM II (2002-2009), FM12, FM10, FM9, FM7 (1999-) Volvo B7R, B9L, B9R, B9TL, B12B, B12R	29125	D-DUCO		249,5 mm	111,2 mm	29,20 mm	¹ 2129 125 292	Textar 2912503
BPW	29165	SB 3745T		210,9 mm	92,5 mm	30,00 mm	¹ 2129 095 003	Textar 2930601
BPW	29171	SB 4309T		210,9 mm	108,3 mm	30,00 mm	¹ 2129 171 300	Textar 2930801
Renault Midlum Volvo FE II (2013-), FE I (2010-2012), FL III (2013-)	29173	ELSA 225-1	rear axle	96,8 mm	216,1 mm	29,20 mm	¹ 2129 173 302	Textar 2917301
Renault Magnum II, Premium II, C, D Volvo FH, FM (2006-2011), B, FMX	29174	ELSA 225-3		249,6 mm	106,9 mm	29,20 mm	¹ 2129 174 292	Textar 2917401
DAF XF Euro 6 (2012-), XF105, CF Euro 6 (2013-), CF65 II (2006-), CF85 II (2006-) Mercedes-Benz Actros 2/3, Intouro II, Turismo II, Travego II MAN Lion's City, Lion's Regio Neoplan Centroliner, Cityline, Starliner, Tourliner, Trendliner Setra series 400 Solaris Urbino III, Vacanza	29278	SB 7000	Front axle	247,5 mm	109,5 mm	30,00 mm	¹ 2129 087 402	Textar 2927802
BPW	29227	TSB3709		102 mm	210,3 mm	30,00 mm	¹ 2132 922 701	Textar 2922701
BPW	29228	TSB4309		114,5 mm	210,8 mm	30,00 mm	¹ 2132 922 801	Textar 2922801
Iveco Stralis, EuroCargo I/II/III, EuroStar, EuroTech, EuroTrakker, Trakker MAN TGX, TGS, TGA, TGM Mercedes-Benz Actros 1, Axor 1/2/3, Atego 1/2, Econic 1 Scania 4, R, G, P, T	29278	SN 7	Front axle/rear axle	247,3 mm	109,5 mm	30,00 mm	¹ 2129 273 050	Textar 2927801
Scania 4, R, G, P, T	29331	SN7 HP		247,3 mm	109,5 mm	30,00 mm	² 2132 933 130	Textar 2933101

¹ prepared for wear indicators

² ProTecS®, prepared for wear indicator



Saving made easy.

This innovation is based on a thinner, and thus lighter, backing plate for utility vehicles which is produced as part of the TMD Friction Lightweight Technology programme. The reduced thickness of the backing plate is offset by an intermediate layer with a specific weight lower than that of steel while resulting in a plate with the same level of durability and resistance. Moreover, the lower weight helps reduce wear to the brake/axle system. Based on a six-axle truck-trailer combination, it is possible to reduce the weight by up to 7.5 kg. This helps reduce fuel consumption and carbon dioxide emissions as well as create additional revenue through additional loading. This is guaranteed to pay off for a haulage company.

Use the Textar budget calculator to determine your economies now.





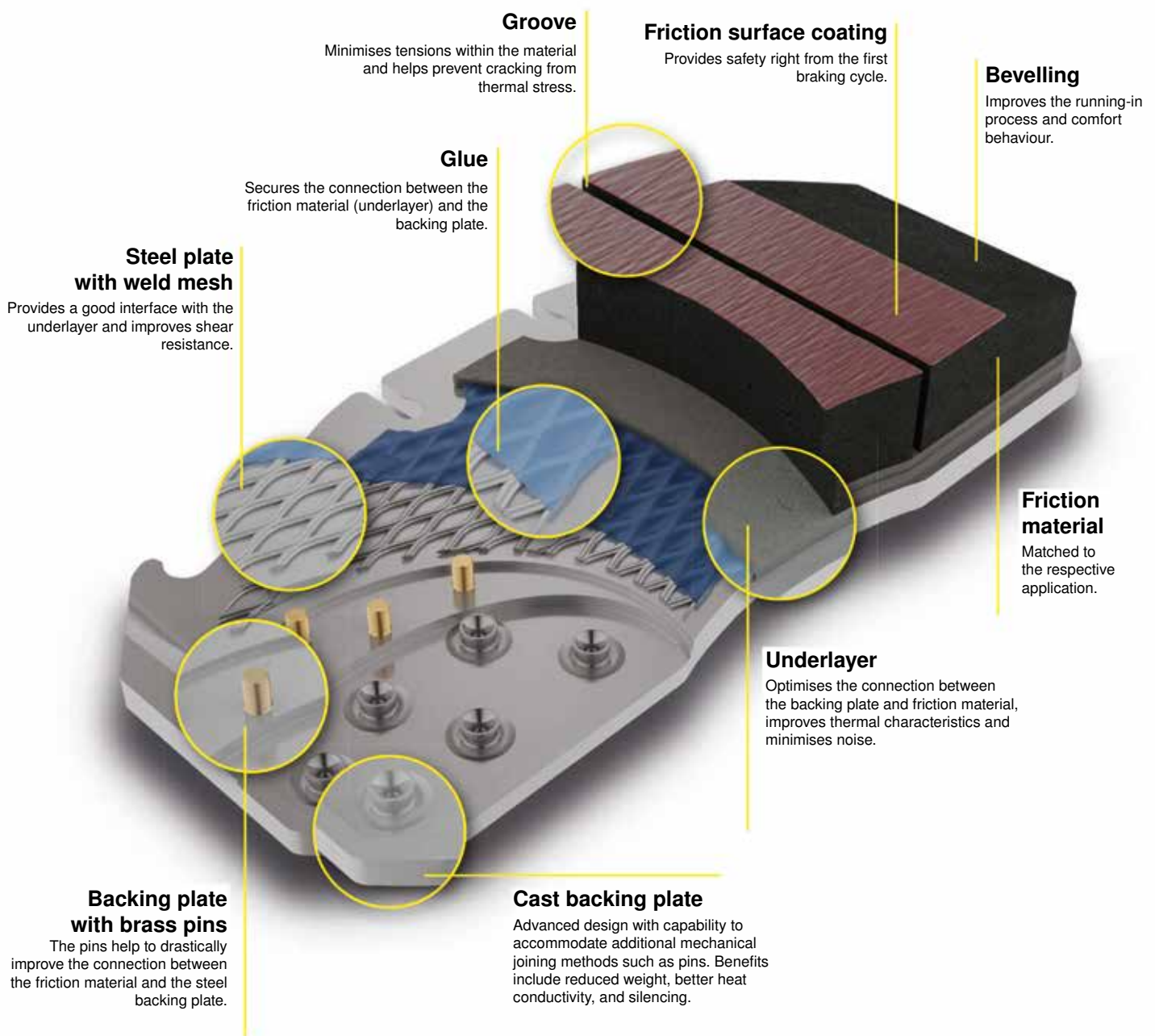
The ideal ally for your fleet.

No matter whether it's a truck, trailer, city bus or motor coach—we have the brake solutions for 99% of all European utility vehicles. Not only safe but also forward-looking—Textar was the first brand to introduce light-weight brake linings for utility vehicles to the spare parts market. Moreover, we are the exclusive supplier of brake linings for the new Scania SN 7 HP brake calliper.

Textar's product portfolio for utility vehicle is rounded out by brake discs, accessory parts and wear indicators – all products offering maximum quality, safety, and reliability.

Premium brake technology

Thanks to their stable friction coefficient, Textar utility brake linings offer a constant braking performance at all times. What's more, they are also perfectly matched to the brake disc as the friction partner. The friction materials and technologies incorporated in Textar products are carefully selected to match the corresponding vehicle and its individual requirements.



TEXTAR[®]

BRAKE TECHNOLOGY



THE PERFECT PARTNER FOR YOUR FLEET.

Textar brake friction products for commercial vehicles.

The Textar commercial vehicle range is complemented by a full range of brake discs, accessories and wear indicators. And with Textar, every product comes with the assurance of total quality, maximum safety and ultimate reliability. **Trust in Textar.**

www.textar.com



Brake pad set

Scope of supply
with accessories

This figure corresponds to 6098 010 643

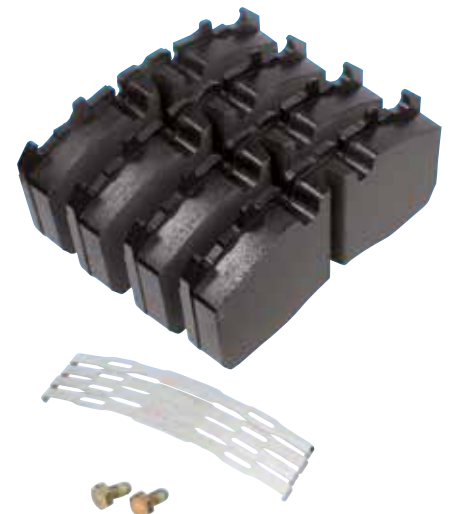
Suitable for	WVA no.	Brake system	Coating length	Lining width	Lining thickness	Order no	Comparative no
BPW SKHBF 9010-15 ECO Plus 2	29306	SB 3745T	92,5 mm	210,9 mm	30,00 mm	6098 010 643	BPW 09.801.08.15.1
BPW SHSF 9010 ECO Plus	29307	SB 4345	109,7 mm	247,7 mm	30,00 mm	6098 010 645	BPW 09.801.08.17.1
BPW SHSF, SHSFA, SHSM, SHSMA, SHZ, SHZF, SHZM, SHZMA SHSF 9010 ECO Plus 2	29308	SB 4309T	210,9 mm	108,3 mm	30,00 mm	6098 010 644	BPW 09.801.08.16.1



Brake pad set

WVA no. 29211, 29291
Brake system ELSA 225
Coating length 216 mm
Lining width 110,2 mm
Lining thickness 29,00 mm

Suitable for	Order no	Comparative no
Meritor	7605 117 000	Meritor MDP5117



Brake pad set

Modul T

Scope of supply
with accessories

This figure corresponds to 3970 095 396

Suitable for	Brake system	WVA no.	Coating length	Lining width	Lining thickness	Order no	Comparative no
Gigant, SAF	Haldex DB22LT, SAF SBS 2220	29175, 29195	210 mm	94 mm	30,00 mm	3970 095 396	Haldex 95396
	Haldex DDT19LT					3970 096 306	Haldex 96306





SAF-HOLLAND and EUROPART – successful partners in the spare parts business

SAF-HOLLAND ranks among the world's leading manufacturers of product systems for the truck and trailer segment. The wide spectrum of products, including semi-trailer couplings, air suspensions and trailing axles for trucks, alongside axle and chassis systems, semi-trailer landing gears and king pins for trailers and semi-trailers comprises a multitude of replacement and wear parts. Supplying the utility vehicle sector with the right original parts is very straightforward with a strong partner such as EUROPART. "Modern centres of distribution and a tight-knit network of branches throughout Europe makes EUROPART a crucial partner when it comes to supplying our clients with spare parts", said Director Sales Aftermarket Europe for SAF-HOLLAND, Manuel Balles. Thus it is guaranteed that downtimes of trucks and trailers are minimised.



The extraordinary design principle of the SAF INTRADISC plus INTEGRAL by SAF-HOLLAND is gentle on the material and increases the service life of the tried and tested chassis.

More info at www.safholland.de



Brake pad set

This figure corresponds to 5130 570 084

Suitable for	WVA no.	Brake system	Coating length	Lining width	Lining thickness	Order no	Comparative no
SAF SKRB 9019, SKRLB 9019	29095, 29197	SN 6	210 mm	92.5 mm	30,00 mm	¹ 5030 570 078	SAF 3 057 0078 00
SAF	29158	SK 7				5130 570 085	SAF 3 057 0085 01
SAF	29159	PAN 19	210,2 mm	85,2 mm	30,00 mm	5130 570 080	SAF 3 057 0080 01
SAF SKRLB 9022 W/WI Integral, SKRS 9022/11022 W, SKRZ 9022/11022 W	29162	PAN 22-1	210,6 mm	109,55 mm	31,70 mm	¹ 5130 570 084	SAF 3 057 0084 01
SAF	29195	SBS 2220			30,00 mm	¹ 5030 570 096	SAF 3 057 0096 00

¹ with accessories



Brake pad set

WVA no. 29159
Brake system PAN19-1

Suitable for	Order no	Comparative no
Valx RMOX0910/RMSX0910	8050 320 001	Valx 50 320 001



“EUROPART Premium Parts – the right decision”

Fair value is critical, especially when it comes to older vehicles. But the decision to go for quality products from the independent spare parts market is worthwhile also in view of current vehicles.

As regards quality, EUROPART Premium Parts are on par with original spare parts.

How broad is your private-brand product portfolio and is there any particular focus?

Oliver Hirtzmann: We offer a range consisting of about 7,500 spare parts under the EUROPART private brand. We mostly but not exclusively focus on technical wear parts,

meaning the Premium Parts system is not limited to the classic components of braking, steering, and suspension. It also includes items from the product groups electrics, lighting, filtration, load securing, cooling, bodywork, and vehicle equipment.

Beside spare parts, we also offer a broad range of high-quality, private-brand workshop equipment items, tools, auxiliary and working materials.

Taken together, this makes for a portfolio which takes cues from the demands of our customers while paying due consideration to the aspect of repairs at fair market value.

Does EUROPART produce and develop products itself?

Oliver Hirtzmann: We do not develop and produce products ourselves. While other parts vendors may claim that for themselves, we prefer to focus on our strength, retail. When it comes to choosing partners, we chiefly prioritise internationally leading suppliers of vehicle manufacturers and producers with a reputation, which allows us to draw on the latest in technology. The list of our suppliers is an exclusive selection of key partners with whom we've been working for years. Depending on the complexity of a product and the manufacturing process, finding the right partner for a new group of products may take up to a year. There is just no compromising when it comes to vehicle spare parts.

How do you guarantee the quality of a product?

Oliver Hirtzmann: The "International Sourcing" division takes care of the selection, procurement and quality assurance for EUROPART spare parts. The 15 employee associates with an international context make sure that the products comply with all requirements of the component to be used in the vehicle. In this regard, the procurement and quality management divisions cooperate very closely along defined processes. Our engineers and technicians put every single spare part to the test before it is adopted into our programme. And in the event that a product is beyond our own expertise, we will call in international, independent testing agencies such as TÜV or DEKRA. We also maintain collaborations with accredited materials testing laboratories.

Qualified auditors of EUROPART scrutinise the processes, production flows and quality assurance measures of existing and potential suppliers in accordance with the standards of the automotive industry. Our maxim is: "Trust is good, control is better".

The quality in serial delivery is ensured by our technical incoming goods department. The frequency and scope of the testing is defined in test schedules derived from the product release.

Of course things don't end with delivery of the products. We get direct feedback from the market, first via our own private brand officers based at our branches, and second via all staff members in contact with the customers. They all are in direct dialogue with quality management. This helps identify and remedy possible irregularities as soon as possible.

To wrap things up: Every product has to pass muster against the corresponding original part before it becomes a EUROPART Premium Part, and every manufacturer must take the process and systems audit before they can be accepted as a supplier.

What's the story behind Truck-Race Approved and Truck-Trial Approved?

Oliver Hirtzmann: Very simple: certified quality in racing! We validate the standards we impose on our premium EUROPART products under the harshest conditions.

We maintain a support partnership with the Reinert Racing Team. Just like last year, we're happy that the forwarder René Reinert, he himself being a racing aficionado, is back at the wheel of the racing truck with the start number 77. It makes us proud that he and his terrific team are placing their trust in EUROPART for the sixth time in a row. Because "passion connects" after all!

Along with truck racing, we also have a hand in the field of the Truck Trial. And so the BFS truck sport team of current European champions Marc Stegmaier and Jan Plieninger are getting exclusive material sponsoring with parts and products from EUROPART Premium Parts private brand. Steering and suspension parts such as tie rods and leaf springs, as well as brakes, lights, or cleaners and lubricants all come from the brand's extensive line of products.

Therefore, the requirement of fair value repair and the use of the same parts in truck sport are by no means in conflict, but show that we just don't compromise when it comes to quality and performance.



Having joined EUROPART in 2018, Oliver Hirtzmann supervises the International Sourcing department.



Brake disc

Version internally ventilated
Thickness 45 mm



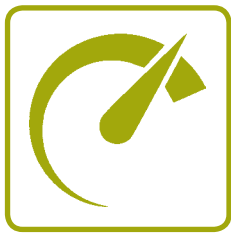
This figure corresponds to 2040 430 002

Suitable for	Installation location	Number of holes	Outer \varnothing	Hole circle \varnothing	Height	Order no	Comparative no
BPW SHSF, SHSM, SHSFA, SHSMA, SHZ, SHZF, SHZM ECO-MAXX/ECO Plus		10	430 mm	335 mm	159,5 mm	¹ 2040 430 002	BPW 03.088.35.05.7
BPW SKHSMA, SKHSMAHLL, SKHZF, SKHZM ECO-MAXX/ECO Plus		10	377 mm	335 mm	159,5 mm	² 2040 370 008	BPW 03.088.34.10.7
MAN TGX (2013-), TGX (2007-), TGS (2013-), TGS, TGA, TGM (2013-), TGM, F2000, M2000, Lion's City, Lion's Classic, Lion's Coach, Lion's Regio, Lion's Star Neoplan Centroliner, Cityliner, Skyliner, Starliner, Tourliner, Trendliner Temsa Safari Van Hool A320/330, T900	front axle	12	432 mm	168 mm	130 mm	2072 432 004	MAN 81.50803-0040
MAN TGX (2013-), TGX (2007-), TGS (2013-), TGS, TGA, TGM (2013-), TGM, F2000, M2000, Lion's City, Lion's Classic, Lion's Coach, Lion's Regio, Lion's Star Neoplan Centroliner, Cityliner, Skyliner, Starliner, Tourliner, Trendliner Temsa Safari Van Hool A320/330, T900	rear axle	10	432 mm	235 mm	135 mm	2072 432 005	MAN 81.50803-0041
Mercedes-Benz Actros, Arocs, Antos, Axor, Atego, Econic, Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Tourismo I/II (O 350), Travego I/II (O 580), NR 5 Setra 3, 4 Solaris Urbino III	front/rear axle	10	430 mm	238 mm	132,5 mm	3403 460 000	Mercedes-Benz 942 421 11 12 Mercedes-Benz 942 421 12 12 Mercedes-Benz 942 421 13 12 Mercedes-Benz 942 421 21 12 Mercedes-Benz 942 423 01 12
Mercedes-Benz Actros, Arocs, Antos, Axor, Atego, Econic 1, Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Tourismo II, Travego II Setra 4, 5	front/rear axle	10	430 mm	168 mm	143,5 mm	3403 460 001	Mercedes-Benz 943 421 03 12 Mercedes-Benz 943 421 05 12
SAF SKRB 9022 H/K		12	430 mm	168 mm	130 mm	2051 000 501	SAF 4 079 0005 01
Scania R, G, P, T	front axle/ rear axle	10	430 mm	337 mm	131 mm	2090 430 001	Scania 1852817 Scania 1402272 Scania 1386686
Schmitz	front axle/ rear axle	10	430 mm	290 mm	168,5 mm	2088 430 001	Schmitz 017870

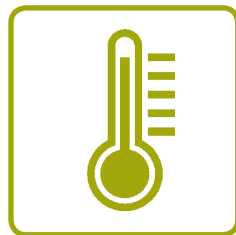
¹ SB 4309/4345

² SB 3745

EUROPART PREMIUM PARTS IN TRUCK RACING



Maximum speed
up to 160 km/h



Up to 600°C on the brake
disc (water-cooled brakes)



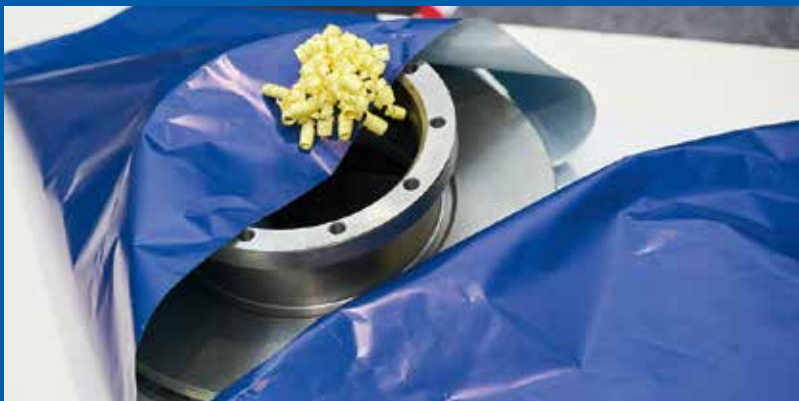
Over 4 hours of
extreme stress

EUROPART Premium Parts brake discs withstand an entire racing weekend!
The lining is replaced after each race. We guarantee the high quality and durability of our parts even beyond the ECE R90 Directive, which is required by legal regulations!

EUROPART Brake disc

- production to the highest automotive standard (TS16949) certified and continuously monitored by TÜV Germany
- checking of all significant product properties in collaboration with the KBA
- our quality management and external test institutions constantly check that standards are adhered to
- consists of high quality grey cast iron according to the international standard, which gives an optimum temperature stability
- ultra-modern production with 100% production depth, i.e. 100% control over the whole production process
- complete range of brake disks balanced
- Truck Race approved
- manufactured by our long standing production partner; proven cooperation for 8 years
- constant innovation in machinery
- high-quality product marking
- suitable for all current vehicle types

Soon available: EUROPART R90 brake discs



EUROPART
GOOD TO KNOW



Brake disc

Thickness 45 mm
Minimum thickness 37 mm

This figure corresponds to 3400 119 735

Suitable for	Number of holes	Outer \varnothing	Hole circle \varnothing	Height	Order no	Comparative no
DAF XF Euro 6, XF105, CF Euro 6, CF85, CF65		432 mm		45 mm	6001 387 439	Knorr K034249K50
MAN Lion's City (A20/A23/A37/A47) Mercedes-Benz Citaro (O 530), Cito (O 520) Neoplan Jetliner, Skyliner (N 1122), Centroliner, Cityliner, Euroliner, Starliner Scania CN94/230/250/270/280/310/320/340, K280/310/320/360/380, L94, N94/230/250/270/280/310/320/340, OmniCity Setra S 315/319 NF Solaris Urbino III Tamsa Avenue LF, Safari HD, Tourmalin VDL Bova Futura	10	430 mm	235 mm	131 mm	¹ 3410 371 910	Knorr I1371910061
MAN TGA, TGM, TGS, TGX, E2000, F2000, M2000, L2000, Lion's City, Lion's Coach, Lion's Regio, Lion's Star	12	432 mm	168 mm		3400 377 840	Knorr K069799
Mercedes-Benz Actros, Arocs, Antos, Axor, Atego, Econic, Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Turismo I/II (O 350), Travego I/II (O 580) Setra series 400	10	430 mm	238 mm	133,5 mm	¹ 3400 119 735	Knorr K119735

¹ internal ventilation



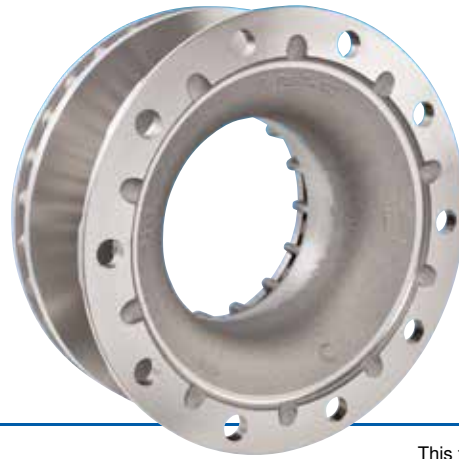
Brake disc

This figure corresponds to 5040 790 013

Suitable for	Number of holes	Outer \varnothing	Thickness	Height	Order no	Comparative no
SAF B9-22K01	10		48 mm	131,5 mm	5040 790 017	SAF 4 079 0017 00
SAF BI9-22K01, BI9-22W, SKRB 9022 Integral	10	430 mm	45 mm	48 mm	^{1, 2} 5040 790 013	SAF 4 079 0013 03
SAF BI9, SKRB 9019 Integral	10		45 mm	57,5 mm	² 5040 790 010	SAF 4 079 0010 04
SAF SI/ZI 9/11	8	377 mm	50 mm	145 mm	² 5040 790 016	SAF 3 079 0016 01
SAF SI/ZI 9/11	10		45 mm	135 mm	5040 790 015	SAF 3 079 0015 01
SAF SKRB9022K SKRB9022K03	12	430 mm	45 mm	114 mm	² 5407 900 050	SAF 4 079 0005 02

¹ SBS 2220

² internally ventilated



Brake disc

This figure corresponds to 6030 883 410

Suitable for	Number of holes	Outer Ø	Hole circle Ø	Thickness	Minimum thickness	Height	Order no	Comparative no
BPW SB 3745 SKHBF 9010-15 ECO Plus 2	10	377 mm	335 mm	45 mm	40 mm	159,5 mm ¹	6030 883 410	BPW 03.088.34.10.7
BPW SHBF 9010-15 ECO Plus SHSF 9010 ECO Plus SHSF 9010 ECO Plus 2	10	430 mm	335 mm	45 mm	37 mm	159,5 mm ¹	6030 883 505	BPW 03.088.35.05.7
BPW SKHSMA, SKHSMAHLL, SKHZF, SKHZM ECO-MAXX/ECO Plus	10	377 mm	335 mm	45 mm	37 mm	¹	6030 883 414	BPW 03.088.34.14.7
BPW	8	374 mm	275 mm				6030 883 416	BPW 03.088.34.16.7
BPW SKH, SKHBF, SKHBFHLL, SKHBM, SKHSF, SKHSFHLL, SKHSM, SKHZF, SKHZM ECO-MAXX/ECO Plus	8	377 mm	275 mm	45 mm	40 mm	159,5 mm ²	6030 883 403	BPW 03.088.34.03.7

¹ internally ventilated

² pulse wheel mounting



Wear indicator for disc brake

WVA no. 29093, 29095
Brake system Knorr SB6
Length 750 mm

Scope of supply

1 set = 2 units



This figure corresponds to 9333 472 002

Suitable for	WVA no.	Brake system	Length	Order no	Comparative no
Mercedes-Benz Atego 3 BPW SAF SK Gigant Protec (01/2000-)	29093, 29095	Knorr SB6	750 mm	9333 472 002	Mercedes-Benz 946 542 01 18 BPW 05.801.51.70.0 SAF Z 000 8242
Iveco Stralis I, EuroCargo I, EuroStar, EuroTech, Trakker I Scania K94/114/124/360/380, L94 VDL Berkhof Ambassador	29108, 29179		315 mm	9333 342 002	Iveco 42560843 Scania 1388953
Renault Magnum II/III, Premium II, C-Truck (2013-), Midlum II Volvo FH II (2005-), FM II (2005-), FE I (2006-), FL II (2006-), FMX I (2010-)	29174, 29173		360 mm	9333 311 903	Renault 68325408

EUROPART Wear indicator

- Production to the highest automotive standard: ISO 9001 and ISO/TS 16949
- consists of high-quality materials to provide perfect functionality: including plastics (high-quality polyamide, PPS, PEEK, LC etc.) and wires
- high fitting accuracy, especially at the plug connection
- developed and tested using the latest technology
- high-quality insulation against external environmental influences (including oil, water, dirt)
- complete wear indicator made of temperature-resistant materials

EUROPART
GOOD TO KNOW



**Wear indicator kit
for disc brake**

This figure corresponds to 3406 272 350

Suitable for	Brake system	Suitable for	Order no	Comparative no
DAF			3406 272 350	Knorr K062723K50
Mercedes-Benz Atego 3	SN6/SN7	disc brake 19,5/22,5"	3400 093 700	Knorr K000937



**Wear indicator kit
for disc brake**

Suitable for	Order no	Comparative no
BPW	6058 014 950	BPW 05.801.49.50.0



**Wear indicator kit
for disc brake**

Brake system SBS 2220

Suitable for	Order no	Comparative no
SAF	5034 242 033	SAF 3 424 2033 00

Common brake disc and brake pad faults

Brake disc with scratched surface

Cause:

Brake pads with friction material that is too coarse for this brake disc or new brake pad mounted on a brake disc that is too heavily worn.

Consequences:

Reduced braking power and possibly one-sided brake functioning of the affected axle.

Remedy:

- Change brake pads.
- Check the condition of the brake disc and minimum thickness. If necessary, replace the brake disc.
- Check the quality of the spare parts used.



Excessive wear to the brake discs and brake pads

Cause:

Friction material possibly contaminated with sand, mud or earth; incomplete retraction of the brake caliper mechanism.

Consequences:

Excessive wear of one or more brake pads can lead to damage if the brake pads do not have a wear indicator.

Remedy:

- Change brake pads.
- Check the condition of the brake disc and minimum thickness.
- If necessary, replace both brake discs on the axle.



Contaminated friction material on the brake pad

Cause:

Contaminated by oily substance or solvent.

Consequences:

Reduced braking power and possible imbalance when braking.

Remedy:

- Change brake pads.
- Check the brake discs on the axle.
- Look for any fluid leaks at the hub or other components that are in the vicinity.



Friction material shows protruding metal flecks

Cause:

There was too high a temperature between the brake shoes and brake discs while damp.

Consequences:

Wearing of the affected brake disc with typical metal grinding sound when braking.

Remedy:

- Change brake pads.
- Check the condition of the brake disc and minimum thickness.
- If necessary, replace both brake discs on the axle.



Brake pads on the same axle show different amounts of wear

Cause:

Incorrect retraction of one of the brake calipers on the same axle.

Consequences:

If the affected axle is the steering axle, this error can cause unstable drivability when releasing the brake pedal.

Remedy:

- Change brake pads.
- Check the brake caliper is working properly (air gap)
- Check the condition of the brake disc and minimum thickness.
- If necessary, replace both brake discs on the axle.



Glazed brake pads

Cause:

Very low force effect on the brakes, e.g. when braking at a low speed and applying low pressure.

Consequences:

Reduction in braking power and typical sound (squeaking) when braking.

Remedy:

- If the glazing is not yet too severe, this may mean the surface can be recreated by several moderate/heavy braking actions, in other cases replace the brake pads.
- Check the condition of the brake disc and minimum thickness.



Surface of the brake disc shows first and second degree cracks

Cause:

Use of the brakes is too heavy for the road conditions and the load.

Consequences:

Possible sudden mechanical fracture of the brake disc, especially where there are second-degree cracks.

Remedy:

- Obligatory replacement of brake discs and pads, in particular in the event of a second-degree crack, if one of the cracks runs from the outer to the inner diameter.
- The brake calipers must be checked.



Edges of the friction material are damaged (edges crumbling)

Cause:

Brake pad has become jammed in the brake caliper Parts used do not correspond to the correct dimensions and specifications.

Consequences:

Premature wear of the brake pads and uneven wear of the brake discs.

Remedy:

- Change brake pads.
- Check brake caliper is working properly.
- Check the condition of the brake disc and minimum thickness.
- If necessary, replace both brake discs on the axle.



Uneven brake pad wear

Cause:
One of the brake calipers has become jammed or no longer returns correctly to its rest position.

Consequences:
Reduced braking power and possible imbalance on the affected axle during braking.

Remedy:

- Change brake pads.
- The brake calipers must be checked; check the air gap.



Brake pads have surface scratches

Cause:
Friction material has been subjected to excessive load or high temperature.

Consequences:
Friction material may detach, leading to a decrease in the braking power.

Remedy:

- Change brake pads.
- Check brake caliper is working properly.
- Check the condition of the brake disc and minimum thickness.
- If necessary, replace both brake discs on the axle.



Friction material detached

Cause:
Possible excessive load or unsuitable friction material (low-quality pads).

Consequences:
Reduction in braking power and typical sound (squeaking) when braking.

Remedy:

- Change brake pads.
- Check the condition of the brake disc and minimum thickness.
- Despite the wear indicator, the brake pads must be checked during each regular workshop inspection and/or every six months.



Blue stripes on the brake disc; clear indication of a physical change due to overheating

Cause:
Intensive use of the brakes due to longer braking action or disproportionate braking on an incline.

Consequences:
Brake disc overheats, which may lead to warping of the contact surface and cracks.

Remedy:

- Replacement of brake discs and pads is obligatory.
- Avoid heavy braking for the first 250 km after replacement, to allow the newly installed components to bed in correctly.



It is very important to check the brake system regularly. If a brake disc has to be replaced, the brake pads must also be changed for safety reasons. Replacements must be made for the entire axle.

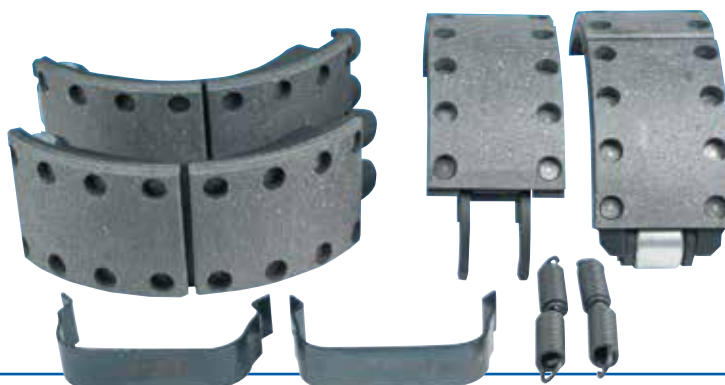
Drum brakes



Brake shoe as replacement

This figure corresponds to 1593 104 404

Suitable for	Brake size	Scope of supply	Order no	Comparative no
BPW 95	360 x 200 mm	with Beral brake lining 19574	8000 003 436	BPW 05.091.14.77.1
BPW 95	360 x 200 mm	with Beral brake lining 19902	8000 003 435	BPW 05.091.19.22.1
BPW	420 x 180 mm	with Beral 19032 brake lining	1593 104 404	BPW 05.091.46.14.0
SAF	300 x 200 mm	with Beral brake lining 19515	8000 004 762	SAF 3 054 0129 01
SAF	367 x 200 mm	with Beral brake lining 19490	8000 003 430	SAF 3 054 0128 00 SAF 3 055 0128 00
Scania		with Beral brake lining 19932	8000 003 440	



Brake shoe set

Scope of supply with lining

This figure corresponds to 5209 317 839

Suitable for	Type	Brake size	Order no	Comparative no
Gigant GH4 05506 3010 GH7 05506 3010	3010	300 x 100 mm	5209 317 839	Gigant 709317839
Gigant GKH1 12010 3020 GKH2 10510 3020 GNKH2 12010 3020	3020	300 x 200 mm	5209 317 840	Gigant 709317840



Brake shoe set

This figure corresponds to 5034 343 616

Suitable for	Brake size	Order no	Comparative no
SAF	SNK 300 x 200 mm	5034 343 655	SAF 3 434 3655 00
SAF	SNK 367 x 200 mm	5034 343 616	SAF 3 434 3616 00



Brake shoe set

Suitable for SN 4220

Scope of supply
with lining

Suitable for	Order no	Comparative no
BPW	6098 010 749	BPW 09.801.07.49.0



Brake shoe set

Type GRP3020-1 T090G

Scope of supply
with lining

Suitable for	Order no	Comparative no
BPW	6050 911 472	BPW 05.091.14.72.0



Brake shoe

Suitable for SN 4218
Brake size 420 x 180 mm

Scope of supply
with brake lining

Suitable for	Order no	Comparative no
BPW HSF 9010 ECO HSF 9010-15 ECO Plus SF 9010 ECO MAXX	6050 914 632	BPW 05.091.46.32.1



Brake shoe

Brake size 300 x 200 mm
Suitable for BPW SN 3015 and SN 3024

Scope of supply
with brake lining

Suitable for	Order no	Comparative no
BPW NHZF 9010-15 ECO MAXX	6050 911 477	BPW 05.091.14.77.1



Brake shoe

Type 3020

Scope of supply
with brake lining

Suitable for	Order no	Comparative no
BPW	6050 911 436	BPW 05.091.14.70.0



Brake shoe

Suitable for HY-13110
 Installation location Rear axle
 Brake size 410 x 220 mm

Scope of supply
 with brake lining

Suitable for	Order no	Comparative no
Mercedes-Benz Actros 2	1593 106 201	Mercedes-Benz 624 420 02 19



Brake shoe

This figure corresponds to 1304 212 000

Suitable for	Brake size	Order no	Comparative no
BPW	300 x 200 mm	1304 214 190	BPW 05.091.14.19.0
BPW	300 x 200 mm	1304 203 027	BPW 05.091.14.80.0
BPW	360 x 200 mm	1304 219 340	BPW 05.091.19.34.0
BPW	420 x 180 mm	1304 226 642	BPW 05.091.26.64.2
BPW	420 x 180 mm	1304 246 170	BPW 05.091.46.17.0
BPW 95	420 x 200 mm	1304 227 830	BPW 05.091.27.83.0
Fruehauf	419 x 178 mm	1304 206 204	Fruehauf M006204
Meritor (ROR)	310 x 190 mm	1304 220 600	Meritor 15206005
Meritor (ROR)	419 x 178 mm	1304 224 724	Meritor 15224724
SAF	420 x 180 mm	¹ 1304 212 000	SAF 3 054 0120 00

¹ in exchange

EUROPART Brake shoes

- production to the highest automotive standard according to IATF 16949
- ultramodern manufacture with fully automated welding and drilling processes
- employment of high-quality materials in OE quality
- exact compliance with all function-relevant dimensions
- shoe support and shoe roll support (cam and anchor end) are heat-treated for very high resistance to wear
- use of the latest coating systems for a reliable corrosion protection
- salt spray test of all accessories according to GB/T 10125
- materials used fulfil international standards
- no processed parts, new parts only
- wide program cover for all common brake systems
- high-quality product labelling

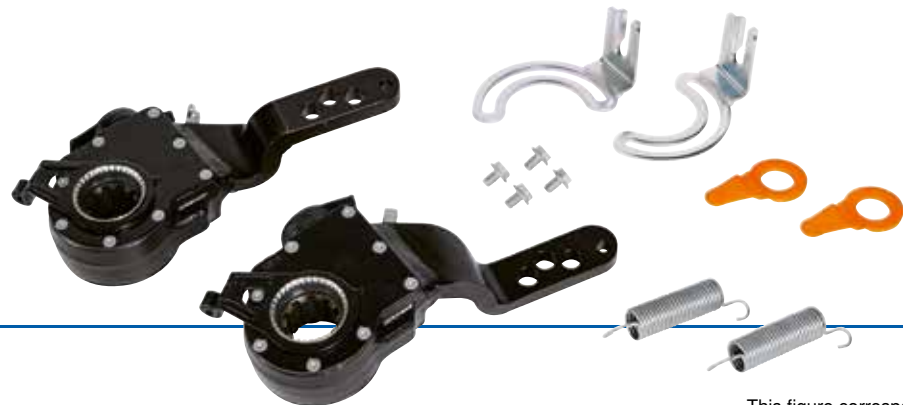
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Slack adjuster set

This figure corresponds to 6055 748 287

Suitable for	Version	Order no	Comparative no
BPW ECO Master	AGS conversion kit with wear indicator	6055 748 243	BPW 05.574.82.43.3
BPW HSF 9010 ECO HSF 9010 ECO MAXX HSF 9010-15 ECO Plus HSF 9010-15 ECO Plus 2 NHZF 9010-15 ECO MAXX	AGS conversion kit	6055 748 287	BPW 05.574.82.87.3




Slack adjuster set

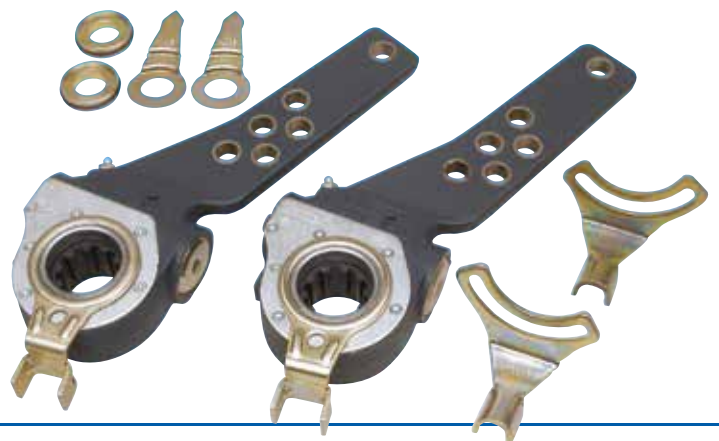
Scope of supply
with attachment material

This figure corresponds to 6055 748 831

Suitable for	Lever length	Order no	Comparative no
BPW H..	120-165 mm	6055 748 308	BPW 05.574.83.08.3
BPW K..ZL	150-180 (205=9,5) mm	6055 748 831	BPW 05.574.88.31.3



Haldex® is a Swedish company operating in 19 countries all over the world. Haldex® develops and delivers groundbreaking and reliable solutions designed to enhance safety, vehicle dynamics and eco-friendliness across the world's utility vehicle sector. Haldex® is a global leader in brake and suspension solutions and developer of new technologies for electric and autonomous vehicles.



Slack adjuster set

Version automatic
Form left offset
Number of holes 6
Toothed hub profile SAE 1 1/2" 10 C

This figure corresponds to 3400 800 190

Number of teeth	Order no	Comparative no
10	3400 800 190	Haldex 80019D
28	3400 725 810	Haldex 80022D



Slack adjuster set

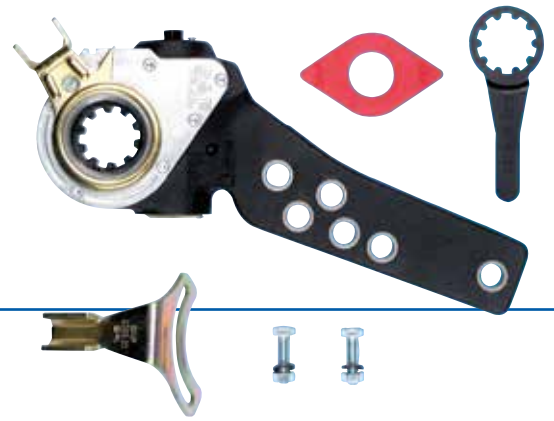
with wear indicator

Version automatic

Angle 30°

Scope of supply

complete set for one axle



Suitable for	Order no	Comparative no
SAF	5034 343 502	SAF 3 434 3502 02



Slack adjuster set

Version Automatic
 Number of teeth 10
 Toothed hub profile SAE 1 1/2" 10 C

This figure corresponds to 1205 868 001



Suitable for	Form	Number of holes	Order no	Comparative no
BPW	Not offset	6	1205 868 000	BPW 05.574.82.87.3
SAF	Not offset	6	1205 861 605	SAF 3 434 3502 03
SAF	offset, - +36/-36 mm	3	1205 868 500	SAF 3 434 3515 00

EUROPART Brake slack adjuster

- production to the highest automotive standard, TÜV certified and continuously monitored, TS16949
- KBA certified: we meet the highest European standard to KBA 61251 and KBA 61263
- ultra-modern production with:
 - 100 % production depth
 - 100 % control over the whole production process
 - 100 % testing for lost motion, reversion torque, adjustment torque, disengagement force, movement of the worm shaft in the body, control arm torque, overall performance, corrosion resistance and extreme temperatures
- all European directives and standards are applied and are monitored by German partners
- use of high-quality lubrication oil
- technological leadership through constant interaction with original equipment manufacturers
- wide product portfolio: automatic and manual brake slack adjusters are covered
- homogenous, high-quality product marking using modern technology (laser)

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Brake lining set

This figure corresponds to 2119 488 008

Suitable for	WVA no.	Lining width	Lining thickness	Brake drum \varnothing	Order no	Comparative no
BPW H, M, R	19032	180 mm	17,50 mm	420 mm	2119 032 009	BPW 03.092.26.85.0
Volvo FH II (2002-2011), FH12 (1993-), FH16 II (-2006), FH16 I (1993-), FM II (2002-2012), FM12, FM10, FM9, FM7 (1999-), FL12, FL10, FL7, FL6	19071	200 mm	18,30 mm	410 mm	2119 939 008	Volvo 3095179
Renault Magnum I, R (Major), G (Manager) BPW SAF	19094	200 mm	17,50 mm	420 mm	2119 094 008	Renault 5000814837 BPW 03.092.27.24.0 SAF 1 057 0013 00
SAF KRS, RBM, RLBM, RSM, RZM, SKRLS, SKRLZ, SKRS, SKRZ, SKZRLZ, WRZM	19283	180 mm	19,90 mm	420 mm	2119 283 008	SAF 1 057 0060 00
York 8002, 8003, 8012, AGB-100/20	19369	219 mm	18,60 mm		3002 410 566	
MAN TGX, TGS, TGA, TGM, TGL, F2000, M2000L/M, F90, M90 Mercedes-Benz Actros 1/2/3, Arocs, Axor 1/2/3, Atego 1 (18 t), Atego 1/2/3/4, Eonic 1/2	19495	183 mm	17,00 mm	410 mm	2119 487 008	MAN 81.50220-0551 MAN 81.50221-0809 Mercedes-Benz 346 423 00 10 Mercedes-Benz 617 423 13 30 Mercedes-Benz 659 423 24 10 Mercedes-Benz 659 423 25 10 Mercedes-Benz 659 423 40 10 Mercedes-Benz 659 423 43 10
MAN TGX, TGS, TGA, F2000, M2000L/M, F90, M90 Mercedes-Benz Actros 1/2/3, Arocs, Axor 1/2/3, Atego 1 (18 t), Atego 1/2/3/4, Eonic 1/2	19496	223 mm	17,00 mm	410 mm	2119 488 008	MAN 81.50221-0865 MAN 81.50221-0681 MAN 81.50221-6101 Mercedes-Benz 305 423 03 10 Mercedes-Benz 617 423 55 11 Mercedes-Benz 659 423 26 10 Mercedes-Benz 659 423 37 10 Mercedes-Benz 659 423 39 10
SAF RZM 13130, SKRS 9030, WRLZM 8130, 8435, 11030	19515	200 mm	16,30 mm	300 mm	2119 515 008	SAF 3 057 3924 00
BPW NH., NM., NR., NRD., ZR., ZZ..	19574	200 mm	17,00 mm	300 mm	2119 574 009	BPW 03.092.14.27.0
Scania R, G, P, T Scania CK310/420/440, F93/94/113/114/230/250/270/310/360, K/93/94/113/114/124/230/250/270/280/310/320/340/360/380/400/410/420/440/460, L94/113, N113	19932	203 mm	19,00 mm	413 mm	2119 932 008	Scania 1109003 Scania 551124

EUROPART Drum brake lining

- certified to R 90: we meet the most demanding of European standards
- production to the highest automotive standards: ISO/TS 16949
- ISO 14001:20044
- high level of expertise in development and manufacturing for 33 years
- secret mixture consisting of a variety of organic and inorganic materials
- ultra-modern production with 100% production depth
- high product coverage

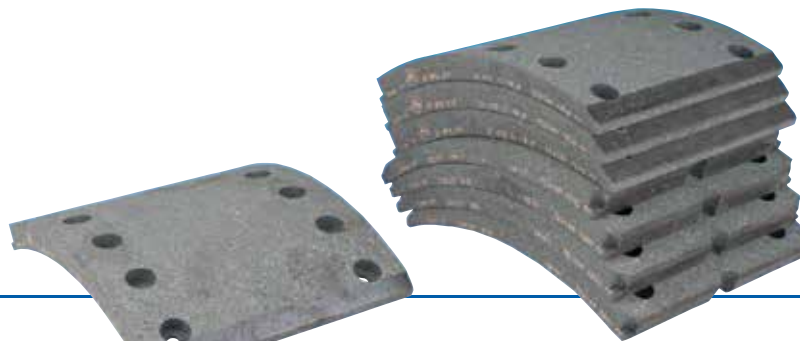
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Brake lining set

This figure corresponds to 2119 939 503

Suitable for	WVA no.	Lining width	Lining thickness	Brake drum \varnothing	Order no	Comparative no
Volvo FM7, FM12, FH12, FH16, FL7, FL10, FL12	19071, 19939	200 mm	18,30 mm	410 mm	2119 939 503	Beral 1907118300016278
Renault Kerax Volvo FM7 I (-2001), FM12, FH12, FH16, FL7, FL10, FL12	19090	175 mm	18,30 mm		2119 938 503	Beral 1909018300016278
MAN TGA, F2000, M2000L/M, F90, M90 Mercedes-Benz Actros 1/2/3, Arocs, Axor 1/2/3, Atego 1 (18 t), Atego 1	19496	223 mm	17,00 mm	410 mm	2119 488 513	Beral 1949617000015498



Brake lining set

WVA no.	19191
Lining width	180 mm
Lining thickness	18,00 mm
Brake drum \varnothing	420 mm
Version	normal dimension with crescent lining

for 1 axle

Suitable for	Order no	Comparative no
BPW HSF 9010 ECO HSF 9010-15 ECO Plus SF 9010 ECO MAXX	6098 010 741	BPW 09.801.07.41.0



Brake lining set

WVA no.	17347
Brake size	300 x 100 mm
Coating length	145,4 mm
Lining width	100 mm
Lining thickness	18,00 mm
Brake drum \varnothing	300 mm
Version	normal dimension
Suitable for	rigid axle, 5,5 t, drum brake
Type	3010 +0

Suitable for	Order no	Comparative no
Gigant GH4 05506 3010 GH7 05506 3010	5209 317 168	Gigant 709317168

TEXTAR
BREMS-TECHNOLOGIE**Textar quality at a glance**

- braking solution for 99% of all European utility vehicles on the market
- 70% of all utility vehicles in Europe with drum brake linings use Textar
- the power to innovate: introduction of light-weight disc brake linings on the spare parts market: more safety, comfort, efficiency, and eco-friendliness
- for your safety: up to 300,000 test kilometres and 2,000 hours in the test facility

Spare parts only account for a small portion of a haulage firm's total costs. If you cut corners when it comes to quality, you better be prepared to pay higher maintenance costs.

**TEXTAR**
BREMS-TECHNOLOGIE**Brake lining set**

This figure corresponds to 2119 488 532

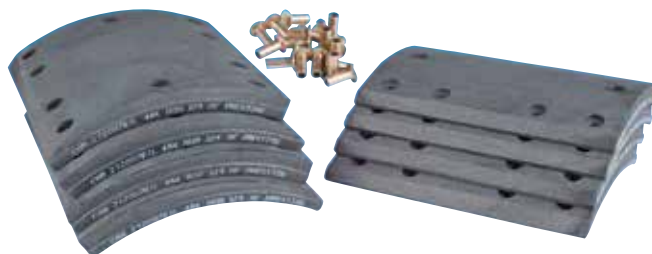
Suitable for	WVA no.	Lining width	Lining thickness	Brake drum \varnothing	Version	Order no	Comparative no
Iveco Eurotrakker, Trakker	19116	200 mm	21,00 mm	410 mm	hook lining, prepared for wear indicator	2100 001 666	Iveco 2996501
BPW	17347	100 mm	18,00 mm	300 mm	crescent lining	2117 347 503	BPW 03.092.12.51.0
BPW	17405	120 mm	12,00 mm	410 mm	hook lining	2117 405 010	BPW 03.092.29.64.0 BPW 03.092.29.65.0
BPW Kässbohrer SAF	19032	180 mm	18,00 mm	420 mm		2119 032 522	SAF 3 057 3112 00
DAF MB, SB BPW Kässbohrer SAF	19094	200 mm	17,50 mm	420 mm		2119 094 522	BPW 03.092.21.01.0 BPW 03.092.21.06.0 BPW 03.092.21.15.0
Mercedes-Benz Actros 1/2/3, Arocs, Axor 1/2, Atego 1/2	19496	223 mm	17,00 mm	410 mm	hook lining, prepared for wear indicator	2119 488 532	Mercedes-Benz 305 423 03 10 Mercedes-Benz 617 423 05 30 Mercedes-Benz 617 423 06 30 Mercedes-Benz 617 423 55 11 Mercedes-Benz 659 423 26 10 Mercedes-Benz 659 423 27 10 Mercedes-Benz 659 423 28 10 Mercedes-Benz 659 423 37 10 Mercedes-Benz 659 423 39 10
MAN TGA, F2000, M2000L/M, F90, M90	19496	223 mm	17,00 mm	410 mm		2119 488 552	MAN 81.50221-0865 MAN 81.50221-0681
Mercedes-Benz Atego 1/2, LK/LN 2	19505	200 mm	15,50 mm	364 mm	hook lining, prepared for wear indicator	2119 078 012	Mercedes-Benz 675 421 45 30
BPW, Kässbohrer	19574	200 mm	18,00 mm	300 mm		2119 574 522	BPW 03.092.14.12.0
BPW	19902	200 mm	18,00 mm	360 mm		2119 902 522	BPW 03.092.19.08.0



Brake lining set

This figure corresponds to 5030 573 170

Suitable for	Brake size	Lining width	Lining thickness	Brake drum \varnothing	Order no	Comparative no
SAF	300 x 200 mm	200 mm	16,30 mm	300 mm	5030 573 924	SAF 3 057 3924 00
SAF	SNK 367 x 200 mm	200 mm	20,60 mm	367 mm	5030 573 170	SAF 3 057 3970 00
SAF	SNK 420 x 180 mm	180 mm	20,40 mm	420 mm	5030 573 960	SAF 3 057 3960 00



Brake lining set

WVA no. 19604
 Brake system AC
 Brake size 310 x 190 mm

Suitable for	Order no	Comparative no
Meritor TM	7600 003 045	Meritor BLKAR





Brake drum

This figure corresponds to 2040 421 814

Suitable for	Hole circle \varnothing	Hub \varnothing	Inner \varnothing	Brake path	Height	Hole pattern	Order no	Comparative no
BPW HB, HI, HS, HZ, HZM, HZD, ECO-MAXX	335 mm	290 mm	420 mm	199 mm	226 mm	10 x 23 mm	2040 421 814	BPW 03.109.67.19.0
BPW K.. ECO-MAXX/ECO Plus/ ECO Plus 2	275 mm	230 mm	360 mm	207 mm	259 mm	8 x 23 mm	2040 362 003	BPW 03.109.90.03.0
BPW N.. ECO-MAXX/MAXX	225 mm	190 mm	300 mm	209 mm	260 mm	10 x 23 mm	2040 302 014	BPW 03.109.46.06.0
MAN TGX, TGS, TGA, F2000, M2000L/M, F90, M90 MAN NL (A10)	335 mm	298 mm	410 mm	234 mm	300 mm	10 x 23/5 x 24/3 x M12 x 1,5 mm	2030 410 508	MAN 81.50110-0144
Mercedes-Benz Actros 1/2/3, Axor 1/2/3, Atego 1, SK, MK, NG Mercedes-Benz O 405 N, O 407, O 408	335 mm	298 mm	410 mm	240 mm	306 mm	10 x 23/5 x 24/3 x M12 x 1,5 mm	2030 410 034	Mercedes-Benz 305 423 04 01
Mercedes-Benz Actros 1/2/3, Axor 1/2/3, Atego 1/2, SK, MK, NG	335 mm	298 mm	410 mm	191 mm	237 mm	10 x 23/3 x M12 x 1,5 mm	2030 410 039	Mercedes-Benz 658 421 00 01
SAF SK RLS, SK RS	335 mm	300 mm	420 mm	196 mm	227 mm	10 x 23 mm	2051 026 001	SAF 1 064 0260 02
SAF SK RZ	225 mm	190 mm	300 mm	213 mm	280 mm	10 x 23 mm	2051 027 300	SAF 1 064 0273 00
Scania R, G, P, T	335 mm	295 mm	413 mm	213 mm	275,5 mm	10 x 23,5/3 x M12/2 x 9/23 mm	2090 413 033	Scania 1414153
Volvo FM7 I (-2001)	335 mm	282 mm	410 mm	218 mm	294 mm	10 x 28/2 x M20/2 x 18/90° mm	2009 410 016	Volvo 3171747

EUROPART Brake drums

- production certified to the highest automotive standard (ISO 9001/TS 16949) and continuously monitored by independent bodies
- use of a high-quality and temperature-resistant grey cast iron alloy together with the precision of the manufacturing process guarantee:
 - exact adherence of the diameter of the friction surface with minimal shape tolerances
 - optimum surface roughness, enabling rapid running-in
 - very stable friction values in all load states
 - very high efficiency
 - high precision fit
 - very good heat conductance
- high resistance to wear with maximum reliability
- 100 % testing for radial run-out
- high safety in original equipment quality
- wide range coverage
- high-quality product labelling

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Brake drum

This figure corresponds to 6031 096 719

Suitable for	Hole circle \varnothing	Inner \varnothing	Height	Order no	Comparative no
BPW	205 mm	300 mm	164 mm	6031 094 306	BPW 03.109.43.06.0
BPW	275 mm	360 mm	260 mm	6031 099 003	BPW 03.109.90.03.0
BPW	335 mm	290 mm	200 mm	6031 097 304	BPW 03.109.73.04.0
BPW	225 mm	360 mm	260 mm	6031 099 004	BPW 03.109.90.04.0
BPW ECO Drum 2	335 mm	420 mm	220 mm	6031 097 742	BPW 03.109.77.42.0
BPW HSF 9010 ECO MAXX HSF 9010-15 ECO Plus HSF 9010-15 ECO Plus 2	335 mm	420 mm	226 mm	6031 096 719	BPW 03.109.67.79.0
BPW NHZF 9010-15 ECO MAXX	225 mm	300 mm	260 mm	6031 094 606	BPW 03.109.46.06.0



Brake drum

Inner \varnothing 300 mm
Height 260 mm



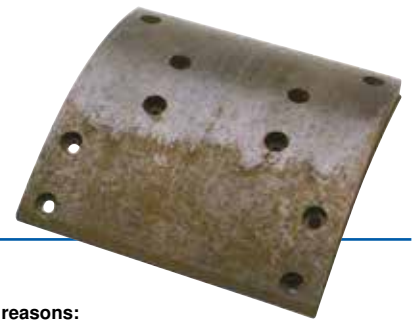
Suitable for	Order no	Comparative no
Gigant SAE	5209 380 037	Gigant 709380037



Brake drum

(Illustration similar)

Suitable for	Hole circle \varnothing	Hub \varnothing	Inner \varnothing	Brake path	Height	Hole pattern	Order no	Comparative no
SAF	225 mm	190 mm	300 mm	213 mm	280 mm	10 x 23 mm	5010 640 273	SAF 1 064 0273 00
SAF	275 mm	240 mm	367 mm	210 mm	260 mm	8 x 23 mm	5010 640 277	SAF 1 064 0277 00

Advice: wear images provide information!**Faulty contact pattern****Main reasons:**

- Drum radius greater than lining radius
- Running time too short for lining
- Drum wear

Possible consequences:

- If the wear pattern is not distributed evenly over all linings of the axle, the vehicle may pull to one side; possible brake noises
- Poor braking performance

Main reasons:

- Lining radius greater than drum radius
- Running time too short for lining

Possible consequences:

- Vehicle pulls to one side; possible brake noises
- Poor braking performance

Main reasons:

- Running time too short for lining
- Drum wear

Possible consequences:

- Either poor or very high braking performance; with very high braking performance, the shoes may remain stuck
- If the wear pattern is not distributed evenly over all linings of the axle, the vehicle may pull to one side and brake noises may arise

Lining surface treads**Main reasons:**

- The surface of the brake drum possibly shows a tread
- General drum wear

Possible consequences:

- Faster wear of lining
- If the wear pattern is not distributed evenly over all linings of the axle, the vehicle may pull to one side and brake noises may arise

**Grooved lining surfaces****Main reasons:**

- Poor drum condition, e.g. thermal cracks

Possible consequences:

- Faster wear of lining
- When linings do not "contact" over 100%, there is loss of braking power



Longitudinal grooves

Main reasons:

- Poor drum condition
- Improper preparation with a wire brush, sander or similar

Possible consequences:

- Vehicle may pull to one side when the wear on the brake of the other side of the axle shows a different pattern
- Poor braking performance and brake noises



Grooves in lining surface

Main reasons:

- Small, loose particles in the brake
- Drum was not properly cleaned when exchanged

Possible consequences:

- Very high level of wear of lining and drum
- Brake noises



Deep, irregular longitudinal grooves

Main reasons:

- Large, loose particles in the brake
- Condition and maintenance of the drum extremely poor

Possible consequences:

- Very high level of wear of lining and drum
- Brake noises



Diagonal wear of the lining

Main reasons:

- Brake shoes misaligned on brake disk
- Warped brake shoe or brake drum

Possible consequences:

- When braking at high speed the shoes may stick
- Vehicle pulls to one side; possible brake noises



Uneven lining surface

Main reasons:

- Wheel bearings incorrectly adjusted or worn

Possible consequences:

- Very high level of wear of lining and drum
- Brake noises



Cracks on rivet holes

Main reasons:

- Riveting force too high
- Wrong type of rivet heads
- Brake shoe radius does not fit lining radius
- Brake shoe bearing is dirty or uneven
- Rivet order not observed from inside to outside

Possible consequences:

- Rupture of lining and drum
- Overheating of the brake
- Brake noises



Oily lining surface

Main reasons:

- Faulty or improperly installed hub seals
- Excessive lubrication of the bearings of the brake mechanism

Possible consequences:

- Vehicle may pull to one side when the problem occurs only on one side of the axis
- Poor braking performance



Thermal cracks in the surface

Main reasons:

- Caused by excessive brake temperature with overworked brakes. Also, a rapid temperature rise makes a sufficient dissipation of heat from the material of the brake system impossible

Possible consequences:

- This problem does not affect the functionality or performance of the lining
- The depth of the cracks is not normally more than 1 mm
- The cracks wear out during normal brake use and influence the effect of the brake lining



Dirt on lining surface

Main reasons:

- Dirt particles in brakes
- Poor brake maintenance (poor cleaning)
- Missing cover plate

Possible consequences:

- High level of wear of lining and drum
- Poor braking performance
- Vehicle pulls to one side; possible excessive brake noises



“Insights in the world of EUROPART brakes”

A good brake is key to your and your vehicle's safety – reason enough to let our experts have their say.

What makes EUROPART the right partner when it comes to brakes?

Rainer Lemke: When it comes to utility vehicle brakes, EUROPART is the competent partner in the parts market. Our portfolio includes OEM-quality brand products from all the well-known manufacturers of brake components in the truck, bus and trailer market.

Customers looking for an alternative to original spare parts can draw on a selection of wear parts, which also come under our private brand EUROPART and stand out due to their premium quality and superlative value for money.

Our broad range of products is constantly being expanded, covering the entire European vehicle fleet. This enables us to best serve our customers and accommodate their needs.

Beside the aspect of efficiency, what are the arguments for using EUROPART brake linings and discs instead of the OEM varieties?

Rainer Lemke: This year we've again proven the functionality and quality of our private-brand products during the European truck race championship. Beside chemical products and oils such as brake cleaners, rust solvers or engine oils, the racing truck of the René Reinert racing team also uses batteries, fuel filters, brake linings and discs.

More than any of the others, the latter are exposed to extreme conditions, with temperatures reaching up to 600 degrees. Telemetric analyses show that our brakes have no problem handling the tremendous stresses and meeting the highest standards with regard to braking efficiency and safety.

Why do brake linings come in different qualities, and what exactly is the difference?

Rainer Lemke: Utility vehicle brake linings offer the ideal blend of durability, low disc or drum wear, and reliable braking action. We work with the brake manufacturers to develop individual specifications for every application. In this, we differentiate between trucks and, for example, city buses or waste collection vehicles. As for utility vehicles, which spend most of their mileage on long or medium distance routes, braking force takes centre stage so that the vehicle can be safely decelerated from relatively high velocities in a very short time. In these vehicles, the brake pedal proper is used only sporadically thanks to the built-in retarders or Telma brakes. That's why wear only plays a minor role in comparison with the braking force. As to the so-called "bus quality", low wear comes first, because urban traffic is rather slow but demands a lot of braking.

To put it simply, a high-power lining is relatively "soft" and thus subject to increased wear. In contrast, a "bus lining", being relatively "hard", doesn't wear as much.

What changes did the market experience over the last 10 years in terms of the market shares of disc brake and drum brake systems, at the national and international level?

Rainer Lemke: I'd say the market share of disc brake systems in Europe is 80 per cent, with a ratio of about 70 to 30 in Germany. In Eastern Europe, it's about 45 to 55, and globally perhaps 40 per cent. In the United States, drum brakes are still far ahead of disc brakes. As regards trailer brakes, the leading supplier (BPW) has a 50 to 50 ratio. Others which are chiefly concerned with 9-t standard axles are focused on disc brakes exclusively (Jost, Schmitz Cargobull).

Drum brakes will also play an important role in construction vehicles (especially with regard to the topic of pollution) and trailers in the future.



Rainer Lemke, director of the Customer Dialogue Centre (KDC), joined EUROPART in 2013



Looking for solutions? Come to us for expert advice.

First-class advice: Expert service in every area

Our staff are continuously **trained in specific products and specialist areas**, so that you can always rely on expert advice of the highest level. This ensures a **first-class all-round service**, providing a **professional solution** for you in all situations.

We also keep in constant **contact with our suppliers** and manufacturers, so you can be sure that even for complex products **no problem goes unsolved** and no request is ignored.

EUROPART - Europe's No. 1 for truck, trailer, van and bus spare parts!

Special tools



Tool case

Universal design, for disc brakes

Application range

for repair or servicing of Knorr brake callipers SB6/SB6...(SN)/SB7/SB7...(SN)/SB7...(SK), SAF SBS2220H, WABCO PAN 19-1/PAN 19-1 plus/PAN 22-1

Scope of supply

1 x pulling tool for floating bearing, type SN (SAF 4 434 3846 00)	1 x press-in sleeve (SAF 4 434 3852 00)
1 x extractor sleeve (SAF 4 434 3838 00)	1 x squeeze sleeve (SAF 4 434 3854 00)
1 x press-in box (SAF 4 434 3833 00)	1 x holding rod (SAF 4 434 3834 00)
1 x press-in box adapter (SAF 4 434 3835 00)	1 x receiver plate (SAF 4 434 3840 00)
1 x insert with magnet (SAF 4 434 3850 00)	1 x fitting sleeve for gaiter (SAF 4 434 3839 00)
1 x fitting tool with magnet (SAF 4 434 3849 00)	1 x fitting tool (SAF 4 434 3855 00)
1 x handle (SAF 4 434 3856 00)	1 x fitting/extraction sleeve (SAF 4 434 3845 00)
1 x press-in sleeve (SAF 4 434 3851 00)	1 x adapter ring (SAF 4 434 3842 00)
1 x bit SW 8 (SAF 4 434 3826 00)	1 x receiver plate (SAF 4 434 3847 00)
1 x bit SW 10 (SAF 4 434 3827 00)	1 x thrust piece with hexagon (SAF 4 434 3836 01)
1 x caulking and pulling tool (SAF 4 434 3832 00)	1 x nut TR 20 x 2 (SAF 4 434 3841 00)
1 x fitting tool for sheet-metal sleeve (SAF 4 434 3843 00)	1 x thrust piece (SAF 4 434 3890 00)
1 x ring/jaw spanner with insert SW 8/10 (SAF 3 434 3327 00)	1 x sleeve SBS2220 H0 (SAF 4 434 3889 00)
1 x press-in sleeve (SAF 4 434 3853 00)	1 x sleeve SBS2220 H0 (SAF 4 434 3884 00)
1 x threaded spindle TR 20 x 2 (SAF 4 434 3837 00)	1 x right-handed pulling tool SBS2220 H0 (SAF 4 434 3880 00)
1 x thrust bearing (SAF 4 434 3848 00)	1 x left-handed pulling tool SBS2220 H0 (SAF 4 434 3887 0)
1 x spindle long/short (SAF 4 434 3858 00)	1 x assembly clip SBS2220 H0 (SAF 4 434 3885 00)
1 x pulling fork (SAF 4 434 3844 00)	1 x press-in box SBS2220 H0 (SAF 4 434 3886 00)
	1 x ring SL7/SM7 (SAF 4 434 3893 00)

Version	Order no	Comparative no
37-piece	5034 343 328	SAF 3 434 3328 02



Expansion kit

for toolbox, disc brake

Application range

for repair or servicing of SBS2220 brake callipers

Scope of supply

1 x thrust piece SBS 2220 H0 (SAF 4 434 3890 00)
1 x sleeve SBS 2220 H0 (SAF 4 434 3889 00)
1 x sleeve SBS 2220 H0 (SAF 4 434 3884 00)
1 x right-handed pulling tool SBS 2220 H0 (SAF 4 434 3888 00)
1 x left-handed pulling tool SBS 2220 H0 (SAF 4 434 3887 00)
1 x assembly clip SBS 2220 H0 (SAF 4 434 3885 00)
1 x press-in box SBS 2220 H0 (SAF 4 434 3886 00)



Version	Order no	Comparative no
7-piece	5034 343 335	SAF 3 434 3335 00



**Tool case
for disc brake**

Scope of supply
Includes all special tools needed for professional repair of Knorr-Bremse pneumatic disc brakes type SB5.

Order no	Comparative no
3411 047 890	Knorr K037001



**Tool case
for disc brake**

Type ZB9036

Scope of supply
1 x pulling fork for thrust piece with gaiter (I132202)
1 x puller for internal gaiter, guiding sleeve (Z004357)
1 x puller/extractor with caulking device for brass bushing (calliper bearing) (Z004354)
1 x press-in tool for lid (K017062)
1 x press-in tool for cap (Z003934)
1 x press-in tool for inner seal (Z004361)
1 x puller/extractor for guiding sleeve (Z004198)

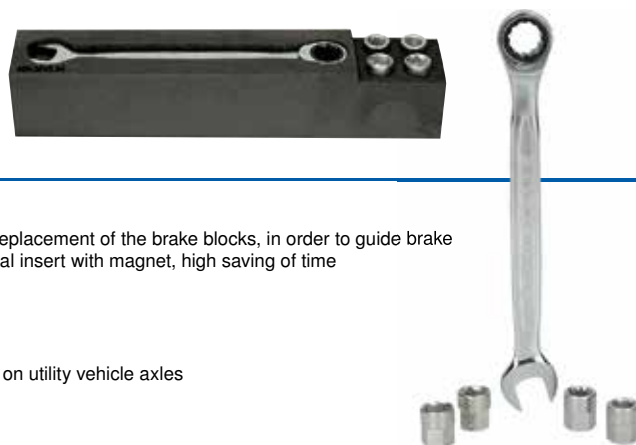
Version	Order no	Comparative no
7-piece	3400 597 200	Knorr K039062K50

Determine the thickness of your Knorr-Bremse brake disc directly on the vehicle – no inconvenient disassembly of the tyre necessary. Any wear is recognisable at a look. Why not watch our hands-on video now?



Brake disc calipers

Order no	Comparative no
3401 467 195	Knorr K146719K50



Brake piston-reset key set

enables safe and comfortable work, is required in the course of maintenance work and with replacement of the brake blocks, in order to guide brake pistons back into the calliper, high precision guarantees an easy and continuous insert, special insert with magnet, high saving of time

Material chrome-vanadium steel
Surface matt satined

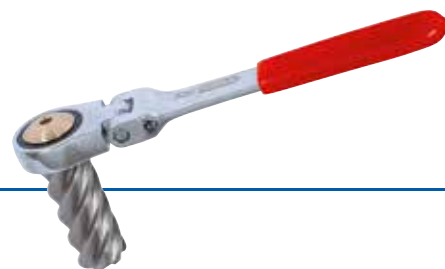
Application range

ideally suited for damage-free resetting of the brake piston of WABCO and Knorr disc brakes on utility vehicle axles

Scope of supply

each with 1 x special insert hexagon with magnet, 8.0 and 10.0 mm
1 x special insert square with magnet, 8.0 mm
1 x special insert multi-tooth M9 with magnet
1 x GEARplus ratchet combination spanner, 12 mm

Version	Order no
5-piece	9502 980 318



Reamer for ABS sensor

ensures proper, error-free installation of the new sensor

Version with lockable joint and ratchet function
Material special steel
Length 150 mm
Ø 18 mm

Application range

Cleaning the locating bore of the commercial vehicle ABS sensor, for optimal work even in tight spaces

Order no
8000 500 340



Impact wrench

Drive 1/2"
Profile Double hex
Spanner size 24 mm
Overall length 207 mm

Application range

ideal solution for easy loosening and tightening of the brake cylinder screw connections

Order no
9546 050 620



Impact wrench

Drive 3/4"
Profile TORX®

Application range
ideal solution for easy loosening and tightening of the brake calliper screw connection

This figure corresponds to 9551 709 080

Spanner size	Length	Order no
E18	215 mm	9551 709 080
E24	220 mm	9551 709 140



Impact wrench

Drive 3/4"
Profile Hexagon
Spanner size 26 mm
Overall length 226 mm

Application range
ideal solution for easy loosening and tightening of the brake calliper screw connection to the rear axle

Order no

9551 709 260



Impact socket for brake callipers

Drive 3/8"
Drive form Eleven-edged
Ø 19 mm
Height 26 mm
Material Chrome molybdenum steel

Application range
Assembly and disassembly of the brake calliper screw connection on vehicles from Renault, Scania, Volvo

Order no

9569 740 361



Impact socket for brake disc

for machine operation

Drive form Hexagon
Profile Double hex

Scope of supply
ideal for assembling/disassembling SAF brake discs

This figure corresponds to 8000 500 367

Spanner size	Order no
13 mm	3002 432 261
15 mm	8000 500 367



Repair case

straightforward and safe handling, excellent fit, high time and cost effectiveness

Material Special steel

Application range

for professional repair of Knorr brake callipers SN6, SN7, SK7 and NA7, replacement of gaiters, brake calliper bearings and internal gaiter seals

Scope of supply

in a sturdy plastic case

Version	Order no
23-piece	9546 009 050



Repair case

straightforward, safe handling, excellent fit, marked time and cost effectiveness

Material Special tool steel

Application range

for professional repair of Knorr (SB, SN and SK), WABCO (PAN 19-1, PAN 22-1), SAF (SBS2220 H0) brake callipers, replacement of gaiters, brake calliper bearings, and internal gaiter seals

Scope of supply

in a sturdy plastic case



Version	Order no
36-piece	9546 047 200



Pinching-gripping pliers

enormous savings in time and cost, can be used in many ways with release lever and locking mechanism, size adjustment using the thumb wheel

Version with metal handle

Material chrome-vanadium steel

Surface powder-coated

Colour black

Application range

to securely hold plastic pipes, ideal in tight spaces



This figure corresponds to 3002 423 861

Ø	Order no
7/9/10/12/14 mm	9504 500 351
8/9/10/11/12 mm	3002 423 861
15/16/18 mm	9504 500 352

“Brake service: What does a workshop need?”

As one of a vehicle's most critical units, the brake system is faced with particularly high technical and legal requirements.

What is it that makes the brake system so special?

Harald Loss: The brake system is subject to enormous stress and environmental influences more than any other system in a utility vehicle. It has to work at 40 degrees in the shade and absolute dryness just as well as at -35 degrees in ice and snow. All this on extremely variable ground, from paved roads to the gravel path at a quarry. Caught permanently between the poles of safety and economic viability, size, weight and efficiency, brake systems are ever changing as they undergo further development. What this means is that work on a brake system should be left to trained professionals – no room for compromise here. But the pros at the workshop, let's call them true gearheads, need professional allies/partners. This is exactly what EUROPART delivers on all levels, with professionals working in procurement and distribution, EUROPART's strong private brand, and brand partners such as Knorr-Bremse.

What characterises the brake product range?

Harald Loss: Beside brake testing services, changing and servicing of brakes are among the most regular and common activities of a utility vehicle repair shop. This is where EUROPART provides support with a massive range of products, too: our portfolio comprises brake discs and drums, callipers and linings of all leading original brand manufacturers. The products of EUROPART private brand, including EUROPART brake discs, drums and linings in addition to slack adjusters for truck, bus and trailer models, make for a high-value alternative.

What else makes a good brake service?

Harald Loss: In addition to the proper professional tools, a competent brake service also needs plenty of auxiliary and working materials. In EUROPART's product programme, calliper gauges for brake discs and drums and hub removers are just as much a matter of course as are fully-fledged roller dynamometers, pit securing systems, repair and sealing kits, brake cleaners, brake paste, or brake fluid.



Having joined EUROPART in 2014, master vehicle engineer Harald Loss assists the procurement and distribution department with technical issues and further additions to the product range.



**Reamer
for ABS sensor**

Spanner size 16 mm
 Length 130 mm
 Blade length 85 mm
 Ø 16–18 mm

Order no

9056 100 656



Impact wrench

Drive 3/4"
 Profile TORX®

This figure corresponds to 9562 287 218

Spanner size	Length	Application range	Order no
E18	215 mm	Assembly/disassembly of the brake calliper screw connection with utility vehicle front and trailing axles, e.g. MAN TGL, TGM	9562 287 218
E20	216 mm	Assembly/disassembly of the brake calliper screw connection with utility vehicle front and trailing axles, e.g. MAN TGL, TGM	9502 872 000
E24	219 mm	Assembly/disassembly of the brake calliper screw connection, e.g. MAN TGA, TGS, TGX, Mercedes-Benz Atego 970-976	9562 287 224



Impact wrench

Drive 3/4"
 Profile double hexagon

Application range
 e.g. for Mercedes-Benz Atego/Actros and Mercedes-Benz utility vehicle cardan shaft screw connection

This figure corresponds to 9509 384 541

Spanner size	Length	Order no
19 mm	215 mm	9056 100 539
24 mm	219 mm	9509 384 541
27 mm	220,5 mm	9056 100 532



Impact wrench

Drive 1/2"
 Profile double hexagon
 Spanner size 24 mm

Application range
 for actuation of brake cylinder screw connections

Order no

9528 720 000



Socket wrench insert

Drive 3/4"
Spanner size 14 mm
Length 110 mm
Blade length 60 mm

Application range

for actuation of the brake calliper screw connection, suspension arm screw e.g. Mercedes-Benz Actros

Order no

9556 155 583



Socket wrench insert for brake calliper

Drive form hexagon head
Drive 12/15 mm
Length 18 mm
Ø 15 mm

Application range

for actuation of the on Knorr-Bremse disc brake adjusters on truck, bus and trailer axles of all makes

Order no

9549 711 100



TORX®-Wrench socket

long, slim design, shaft with ultra-robust HAZET double T profile, ring spanner with toggling ratchet function

Drive 3/4"
Spanner size T60
Length 120 mm
Nominal width 13,25 mm

Application range

for actuation of the brake disc screw connection on Mercedes-Benz Actros 4 (2011-), for actuation of difficult-to-access screw joints in tight spaces, no repositioning of the key required thanks to ratchet function

Version

4-piece

Order no

9056 100 546

Workshop Equipment



AHS ■ PRÜFTECHNIK

Roller-type brake test stand

Varioflex TEC 260/2

U roller set above pit, 2 large analogue displays and auto-switch measuring range, all indicator lamps with light-emitting diodes (LED) with ultra-long service life, 4 measuring range indicator lights, side-specific obstruction indicator, 4 travelling direction indicator lights, automatic light, retraction control light for active safety through simultaneous checking of the safety limit switches, warning lamp for overload protection, visual brake control with signal light, pre-equipped signal light for connection of an AHS pit support system, digital differential braking force display for connection of an AHS axle tester AT 5002, pre-equipped digital-display for connection of a wheel and axle load weighing system, 6 brake pressure displays (pre-equipped), hose-guided or by radio, wire remote control with dead man's switch for manual operation and single wheel switching with 20 m wire, special locks and silicone sealing, lockable main switch, PC interface and network capability (including ASA networks), full plastic corundum coating of the idler rollers with \varnothing 260 mm, rear roller can be raised on request, other inspection widths available on request, high-performance flat geared motors in reinforced special version (splash water protected, smooth running), 30 m signal wire for connection with roller set, engines switch-on prevention for use with external drives, engines with offset star-delta starting, modern low-maintenance DMS system, optional manual or automatic mode, single wheel switchover via wired remote control and dead man's switch with 20 m control wire

Testing width 760-2900 mm
 Display range 0-8/0-40 kN PKW/LKW
 Driving power 2 x 11 kW
 Connection 400 V
 Fuse protection 63 A

max. perm. crossing load 16,000 kg
 Dimensions of control/display cabinet (H x W x D): 800 x 1000 x 350 mm

Order no

9535 160 014



Accessories

Description

Lifting device for U roller set, hydraulic

Order no

9535 160 081

"Safety comes first"

Not only with regard to material quality but also to functional testing. This means that brake dynamometers will be facing extended requirements in the very near future.

What rules apply in Germany?

Onur Algan: The legislator doesn't play around when it comes to brakes: In Germany, the conditions for testing and approval of car brakes are strictly regulated. Having said that, the regulations which covered the brake testing and operation of the usual brake dynamometers appear to have been not strict enough. That's why the Federal Ministry of Transport already adopted a new guideline in Section 29 of the Highway Traffic Act (StVZO) already back in 2011, which prescribes that brake testing must be updated to be consistent with current vehicle technology.

This is due for January 2020, but what's the situation in the workshops?

Onur Algan: Brake dynamometers in Germany still fail to meet the new requirements to some extent. Only equipment made after October 2011 comply with the new specifications. For all the older test stands, the date of the mandatory conversion or upgrade is approaching fast. As I said before, come January 2020 brake testing – and that means both HU and SP – can no longer be done using old brake dynamometers. That's why I urge everybody to buy a new or upgrade their existing equipment asap. We have solutions for both variants, and we offer expert advice through trained specialists.

What exactly does the guideline say?

Onur Algan: The list of measures under the new guideline was put together to ensure adequacy with the current state of vehicle engineering and to ensure reliable evidence of the results and comparability of the tests, in addition to eliminating human influences to the greatest possible extent. For example, future brake dynamometers will have to be equipped with a standardised data interface (ASA livestream). Roller dynamometers must have a roller diameter of not less than 200 millimetres, as well as a friction coefficient of 0.7 when dry and 0.6 when wet between the wheel and roller. A testing speed of 4 kph is prescribed for passenger cars and trucks of up to 3.5 tonnes overall weight (M1 and N1 vehicles). Other specifications are concerned with the testing itself: In future, tests must be based on the benchmark method to determine the minimum braking force, in relation to the brake system pressure. The brake system pressure data can be obtained for vehicle manufacturers. Alternatively, the test can also be done with a pedal force sensor to determine the foot braking force acting on the brake pedal. Specifications for pedal force meters prescribe a minimum length of 1.5 metres, the measurement of the tangential thrust, and an impact speed of 8 to 12 kph. Improper measurements must not be displayed.

Please observe the country-specific particularities and laws applying in your country.



Commodity manager Onur Algan's role in EUROPART is that of a workshop equipment manager at our competence centre.



Exclusive to **EUROPART**

Brake disc/drum setter

BrakeMate™

facilitates work on the brake system (disc and drum brakes) through pneumatic-hydraulic support, reduces hands-on times, lowers costs, and boosts efficiency.

- brake discs and drums can be quite heavy
- helps prevent work accidents and, consequently, inactive periods by reducing weight and providing for two-hand control
- enables safe, clean and accurate assembly/disassembly of brake discs/drums/callipers and (depending on the application) the entire hub with the brake disc still attached; no rework due to damaged threading needed
- a genuine time saver in various special applications
- safe transport thanks to the dismantled disc and drum brakes being firmly secured
- work heights up to 1.3 m possible
- easy, intuitive operation

Height, max. 900 mm
 Height, min. 500 mm
 Dimensions 1300 X 750 mm
 Weight 170 kg

Load capacity 100 kg
 Capacity 10 t

Scope of supply

Extracting tool and lifting table, 10 bolts, 8 plates, adapters for all vehicle manufacturers (except Volvo; please see accessory kit 8005 020 002).

See the BrakeMate® in action – this link will take you direct to our hands-on video.



Order no

8005 020 001



Accessories

Description

Brake disc puller, V splinter, Suitable for Volvo, incl. pump and 3 needle valves

Order no

8005 020 002



Illustration also shows optional accessories

Brake lift

BL 2

movable lifting trolley with 4 guide rollers, height adjustable by 900 mm

Load capacity 200 kg

Application range

for simple and ergonomic installation and dismantling of brake disks, brake drums, callipers, complete vehicle hubs and 4-wheel drive axes, up to a weight of 200 kg, suitable for confined space conditions under the fender

Order no

9533 040 000

Accessories

Description	Model	Order no
Hoist for low-lying callipers	HV6	9533 040 006
Hoist for brake callipers (up to 75 kg)	HV7	9533 040 002
Hoist for Haldex, Knorr, and Meritor brake callipers	HV9	9533 040 010
Hoist for Meritor brake callipers (Elsa 1, Elsa 2)	HV10	9533 040 007
Hoist for Knorr brake callipers (SB 7000)	HV11	9533 040 008
Hoist with universal tightening strap, for brake disks, drums and saddles	HV2	9533 040 001
Lifting device for brake disks/drums with hole pitch circle \varnothing 225 mm	HV12	9533 040 005
Lifting device for brake disks/drums with hole pitch circle \varnothing 245 mm	HV5	9533 040 004
Lifting device for brake disks/drums with hole pitch circle \varnothing 275 mm	HV4	9533 040 003
Lifting device for brake disks/drums with hole pitch circle \varnothing 335 mm	HV3	9533 040 009

Stay healthy at work – lifting and carrying in the spotlight

The human body is rather ill-equipped for load handling activities such as lifting and carrying. This means that lifting and carrying activities may result in premature wear of the musculoskeletal system, which may become manifest in back pain for example. The European Community has therefore adopted a guideline regulating the manual handling of loads which was implemented in the German "Load Handling Regulation".

The lifting and carrying of loads most notably impacts the spine, especially the lumbar spine. The stress primarily results from the weight and the number of objects being lifted and/or carried, as well as one's posture. What is also important is the nature of the load, grip, environmental influences, and a worker's individual aptitude.

To avoid spinal dysfunctions and occupational diseases, the Load Handling Regulation requires employers to take suitable measures or provide appropriate work equipment so as to do away with manual load handling and the health hazards that come with it. Where the manual handling of loads cannot be avoided, steps must be taken to analyse and evaluate the individual workplaces for suitable aids.

Source: Federal Institute for Occupational Safety and Health (BAuA): Injury-free lifting and carrying.

EUROPART
GOOD TO KNOW



Brake maintenance unit

VARIO 5 II, DOT version

portable and space-saving, pulsing fluid flow, leak test of the brake system in the low pressure range, electronic final shut-down, self-bleeding

Suitable for	brake fluid container 5 l
Operating liquid	DOT
Pressure range	0-3,5 bar
Width x height x depth	320 x 430 x 340 mm
Weight	10 kg

Application range

ideal for smaller workshops, for all ABS systems (including EDS, ESP systems) and hydraulic clutches

Scope of supply

standard adapter no. 20 for European vehicles, without fluid container



Order no

9539 500 035



Brake maintenance unit

Vario 5-20 PRO

One-man operation, smart technology with automatic control mechanisms, tightness testing of the brake system in low-pressure range, pulsating fluid flow, electronic limit stop

Suitable for	Brake fluid container 5-20 l	Width	850 mm
Version	with integrated electro-hydraulic extraction function for expansion tank, incl. collecting bottle	Height	850 mm
Pressure range	0-3,5 bar	Length of filling hose	3,5 m
Power	120 W	Length of mains cable	5 m
Mains voltage	230 V	Weight	23 kg

Application range

suitable for all ABS equipment (including EDS, ESP, and SBC equipment) and hydraulic clutches



Order no

9539 500 044

Accessories

Description	Order no
Adapter 67BF	9539 500 033



Brake bleeder device

for suctioning off brake fluid on drum and disk brakes; by using compressed air a vacuum is generated and the brake system is vented, universally usable, suitable for one-man operation, with transparent hose for visual inspection

Version pneumatic



Order no

9539 641 148



Pump sprayer for brake cleaner

shapely, high-tech equipment for easy spraying of large volumes of fluid; includes Viton sealing, transparent plastic tank with level indicator, plastic-coated tube for increased chemical resistance, safety valve with straightforward pressure relief capability, nylon pump to prevent fouling, adjustable nozzle for fine, homogeneous atomisation, large filling hole (∅ 52 mm) for convenient filling

Capacity 1,5 l
Version empty

Application range
pH 1-9



Order no

7168 000 006



Brake cleaner

cleaning agent for universal use, thanks to special solvent it degreases, removes stubborn soiling thoroughly and gently, dries off quickly

Application range

cleaning of drum and disc brakes, brake pads, springs, shoes, clutches, linings, pressure plates and clutch parts in general, gears, carburettors, petrol pumps, engine parts etc.

Contents	Container	Order no
500 ml	Spray can	9230 000 140
5 l	Canister	9785 000 025
20 l	Canister	9785 000 027
60 l	Drum	9785 000 028



Workshop stool for brake service

Mobile seat, especially for working on brakes, enable storage of tools near the work area in 3 lockable drawers, rear side compartment provides space for up to 3 cans, easy to maneuver, reinforced seat cushion made of vinyl

Wheel ∅ 75 mm
Weight 11 kg



Order no

9539 003 014

Our Premium Parts range



Exhaust

- Add-on parts
- Flex pipes
- Pipes
- Clamps



Equipment & Accessories

- Tachograph discs
- Fire extinguisher cabinets
- Snow chains
- Thermal paper
- Tool boxes
- Wiper blades



Lighting

- Worklights
- Rear lights
- Licence plate lights
- Lamps
- Reversing floodlights
- Rotating beacons
- Side marker and outline marker lights



Brakes: Disc brakes

- Brake discs
- Rotational speed sensors for ABS/EBS
- Disc brake linings
- Wear indicators



Electrics

- Adapter cables
- Electrical lines
- Helical cables
- Blade fuses
- Blower motors
- Cable connectors
- Indicator switches
- Starters & generators
- Starter batteries
- Jumper cables
- Plugs & outlets



Filtration

- Hydraulic filters
- Cabin filters
- Fuel filters
- Air filters
- Oil filters



Bodywork

- Gas springs
- Rear aprons
- Stop blocks
- Wings
- Impact buffers
- Dirt pan
- Support winches
- Fuel caps



Cooling

- Radiators
- Coolant expansion tanks
- Coolant hoses
- Coolant thermostats
- Fan clutches
- Water pumps



Brakes: Drum brakes

- Brake shoes
- Brake drums
- Brake chambers
- Rotational speed sensors for ABS/EBS
- Slack adjusters
- Drum brake linings
- Wear indicators



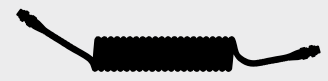
Chemical products

- Adhesive bonding & sealing
- Cleaning/hygiene
- Lubricants
- Maintenance & Servicing
- Winter chemicals



Shock absorbers/ Suspension

- Leaf springs
- Spring clamps
- Air spring bellows
- Screw sets for air bellows
- Shock absorbers



Compressed air

- Compressed air tanks
- Air brake coils



Load-securing

- Non-slip mats
- Container nets
- Edge protection
- Clamping bars
- Load beams
- Round slings
- Lashing straps
- Partition wall locks



Steering/ Suspension

- A-frames
- Coupling bars/connecting rods
- Ball joints/Ball heads
- Torque rods
- Steering bars
- Wheel hubs
- Repair sets A-frames
- Repair sets Torque rods
- Tie rods



Engine parts

- V-belts
- Ribbed V-belts



Workshop/tools

- Health & Safety
- Fastening technology
- Pneumatic tools
- Fork lift trucks
- Hand tools
- Assembly creeper
- Rechargeable powder fire extinguisher
- Trolley jacks
- Tyre inflation cage
- Garage trolley

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