

Brake

Product competence from EUROPART



- Brake caliper
- Brake pad set
- Brake disc
- Brake pad sensor
- Brake shoe
- Slack adjusters
- Brake lining set
- Repair kit
- Brake drum
- Workshop requirements
- Tooling technology
- Chemical products



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

Disc brakes



Brake caliper

Version for EBS with bronze guide
 Brake system D ELSA PHASE 1, ELSA 1
 Installation location rear axle

suitable for	Installation side	Order no.	Comparative no.
MAN Lion's City (A20/A21/A37), NG (A23), NL (A21) Neoplan Centroliner (N 45XX)	left	1509 015 310	Meritor LRG542
MAN Lion's City (A20/A21/A37), NG (A23), NL (A21) Neoplan Centroliner (N 45XX)	right	1509 015 315	Meritor LRG543

Accessories

Description	Order no.	Comparative no.
Repair kit for control system	1509 015 050	Meritor MCK1102
Lining retaining clip repair kit	1509 015 485	Meritor MCK1262
Repair kit pressure plunger	1509 015 045	Meritor ST1156

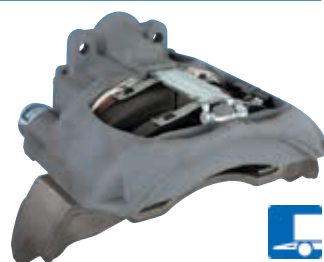


Brake caliper

Brake system SBW 1937

Scope of supply
 With brake linings

Installation side	Order no.	Comparative no.
left	5030 800 019	SAF 3080003300
right	5030 800 018	SAF 3080003200



Brake caliper

suitable for Rim size 22.5"
 Type SK7

Application range
 SAF axles

Installation side	Order no.	Comparative no.
left	5030 800 055	SAF 3080005502
right	5030 800 054	SAF 3080005402



Repair kit for brake calipers

Quality BPW 8200

Scope of supply

1 brake caliper, 1 cylinder bolt M16 x 1,5 x 100-10.9, 1 bearing shaft $\varnothing$ 17/26/37 x 123, 1 cylinder bolt M16 x 1,5 x 70-10.9, 1 bearing shaft $\varnothing$ 17/26/36 x 70, 2 rings $\varnothing$ 38/48 x 5, 2 wear plates, 2 Textar brake pads, 1 tension spring, 1 lining retaining clamp, 1 bolt $\varnothing$ 8/10/14 x 75, 1 washer 10,5, 1 clip

Brake system	Order no.	Comparative no.
TSB 4309	6093 627 201	BPW 09.362.72.01.0
TSB 4309	6093 627 202	BPW 09.362.72.02.0
TSB 3709	6093 627 203	BPW 09.362.72.03.0
TSB 3709	6093 627 204	BPW 09.362.72.04.0



This figure corresponds to 6093 627 203



Accessories

Description	Order no.	Comparative no.
Repair kit for brake caliper bearing shaft	6098 010 761	BPW 09.801.07.61.0
Repair kit for brake caliper sealing bearing shaft	6098 010 762	BPW 09.801.07.62.0
Repair kit for brake caliper thrust piece	6098 010 763	BPW 09.801.07.63.0



Brake caliper

Version standardised
Fastening axial
Bearing version with steel cap
Wheel size 22,5"

Scope of supply

without brake pad carrier and pads



This figure corresponds to 3450 414 776



Accessories

suitable for	Type	Order no.	Comparative no.
Scania G, P, R, T, 4 series Scania K124/360/380	SN7264RC	3450 414 776	Knorr K040953K50
Scania G, P, R, T, 4 series Scania K124/360/380	SN7274RC	3450 414 777	Knorr K040954K50

Description	Order no.	Comparative no.
Adjuster cap set	3450 411 915	Knorr K000029
Guide sealing set	3400 110 376	Knorr K031844K50
Pressure pad set	3400 110 013	Knorr K010603



Brake caliper

Version standardised
Fastening radial
Installation location rear axle
Installation side vehicle-dependent
Wheel size 22,5"

Angle of the brake cylinder axle to the vehicle axle 93°

Scope of supply

without brake carrier and linings



This figure corresponds to 3450 414 732



suitable for	Type	Order no.	Comparative no.
Mercedes-Benz Citaro I/II/C2 (O 530) Setra S 415 NF Solaris Urbino III	SB7451RC	3450 414 732	Knorr K002964
Mercedes-Benz Citaro I/II/C2 (O 530) Setra S 415 NF Solaris Urbino III	SB7461RC	3450 414 733	Knorr K002965



Brake caliper

Version standardised
Installation location front axle/rear axle
Installation side vehicle-dependent



This figure corresponds to 3450 414 763



suitable for	Type	Order no.	Comparative no.
Mercedes-Benz Actros I/MP2/MP3, Axor I/II, Atego, Econic Mercedes-Benz Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Tourismo II, Travego I/II (O 580) Setra S 315/319 NF, S 315 UL, S 411/415 HD, S 415/416/417 HDH, S 431 DT, S 415/416/417 GT-HD, S 415 NF, S 415/417/419 UL Solaris Urbino III Temsa Safari HD	SN7211RC	3450 414 763	Knorr K003800
Mercedes-Benz Actros I/MP2/MP3, Axor I/II, Atego, Econic Mercedes-Benz Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Tourismo II, Travego I/II (O 580) Setra S 315/319 NF, S 315 UL, S 411/415 HD, S 415/416/417 HDH, S 431 DT, S 415/416/417 GT-HD, S 415 NF, S 415/417/419 UL Solaris Urbino III Temsa Avenue LF, Safari HD	SN7201RC	3450 414 762	Knorr K003799



Brake caliper

Version standardised
Fastening axial
Bearing version with steel cap
Wheel size 22,5"

angle of brake chamber axis to vehicle axis 0°

Scope of supply
without brake pad carrier and pads



This figure corresponds to 3450 414 770



suitable for	Type	Order no.	Comparative no.
DAF XF Euro 6 (2012-), XF105, CF65 II (2006-), CF85 II (2006-)	SN7205RC	3450 414 770	Knorr K003807
DAF XF Euro 6 (2012-), XF105, CF65 II (2006-), CF85 II (2006-)	SN7215RC	3450 414 771	Knorr K003808
MAN TGX (2013-), TGX (2007-), TGS, TGM (2013-), TGM	SN7197RC	3450 414 774	Knorr K003811
MAN TGX (2013-), TGX (2007-), TGS, TGM (2013-), TGM	SN7217RC	3450 414 775	Knorr K003812

Accessories

Description	Order no.	Comparative no.
Adjuster cap set	3450 411 915	Knorr K000029
Guide sealing set	3406 741 750	Knorr K067417K50
Pressure pad set	3400 110 013	Knorr K010603



Brake caliper

Version standardised
Brake system SB 4309

Installation side	Type	Order no.	Comparative no.
left	SK7042RC	3450 414 790	Knorr K012633
right	SK7052RC	3450 414 791	Knorr K012634

Accessories

Description	Order no.	Comparative no.
Guide sealing set	3400 010 766	Knorr K010766
Pressure pad set	3400 110 013	Knorr K010603



Brake caliper

Repair solution

Version standardised
Brake system SB/SN6

suitable for	Installation side	Type	Order no.	Comparative no.
Mercedes-Benz DCA, DLS, NR 5	left	SN6580RC	3400 047 087	Knorr K013174
Mercedes-Benz DCA, DLS, NR 5	right	SN6570RC	3400 047 086	Knorr K013173



Brake caliper

Installation location front axle
Installation side right
Version standardised



suitable for	Type	Order no.	Comparative no.
MAN TGX (2013-), TGX (2007-), TGS, TGA, TGM (2013-), TGM	SN7209RC	3450 414 778	Knorr K003815
MAN TGX (2013-), TGX (2007-), TGS, TGA, TGM (2013-), TGM	SN7219RC	3450 414 779	Knorr K003816



Accessories

Description	Order no.	Comparative no.
Adjuster cap set	3450 411 915	Knorr K000029
Guide sealing set	3406 741 750	Knorr K067417K50
Pressure pad set	3400 110 013	Knorr K010603



Brake caliper

Type	Order no.	Comparative no.
SM7002RC	3400 052 390	Knorr K052390K50
SM7012RC	3400 052 391	Knorr K052391K50

Accessories

Description	Order no.	Comparative no.
Adjuster cap set	3450 411 915	Knorr K000029
Pressure pad set	3400 465 230	Knorr K046523K50
Guide sealing set	3450 414 380	Knorr K001915



This figure corresponds to 2323 405 206



Brake pad set

suitable for	WVA no.	Brake system	Lining thickness	Order no.
DAF XF Euro 6 (2012-), XF105, XF95, 95XF, CF Euro 6 (2013-), CF85, 85CF, CF75, CF65, LF55 Iveco Stralis I/II, EuroCargo I/II, EuroTech, EuroTrakker, Trakker MAN TGX (2013-), TGX (2007-), TGS, TGA, TGM (2013-), TGM Mercedes-Benz Actros I/MP2/MP3, Axor I/II/III, Atego I/II Scania 94, 114, 124, 144, 164 Irisbus Eurorider MAN Lion's Coach (R07/R08/R09) Mercedes-Benz Intouro II, Tourismo I/II (O 350), Travego II Neoplan Cityliner (N 12XX), Skyliner (N 1122/2011-), Starliner (N 52XX), Tourliner (N 2216), Trendliner (N 3516) Scania OmniCity Setra S 328 DT, S 315 GT, S 315/317/319 GT-HD, S 315/319 NF, S 313/315/319 UL, S 315/319 UL-GT, SG 321 UL, S 411/415 HD, S 415/417 HDH, S 431 DT Solaris Urbino Tamsa Safari HD VDL Bova Futura, Bova Lexio, Bova Magiq	29061, 29059, 29087, 29108, 29201	¹ SB/SN 7	30,00 mm	2323 405 206
Renault Magnum II/III, Premium II Volvo FH II (2002-), FE I (2006-) Volvo B5LH, B7R, B9L, B9R, B9TL, B13R	29174	² ELSA 225-3	29,00 mm	2129 174 008
Iveco EuroCargo I/II, EuroFire MAN TGX, TGS, TGA, TGM Mercedes-Benz Axor, New Atego (2013-), Atego I/II	29095	¹ SB 6000	30,00 mm	2129 095 006
MAN TGL (2008-), TGL Mercedes-Benz New Atego (2013-), Atego I/II	29183	¹ SB/SN 5	27,00 mm	2129 115 008
MAN TGA Renault Magnum I, Premium I Fast Scoler II Euro 3 Heuliez GX 127, 327, 427 Irisbus Agora, Arès, Arway, Arway LE, Citelis, Citelis CNG, Crossway LE, Evadys, Iliade, Magelys, Récréo II MAN Lion's Classic Ü (A72) Neoplan Centroliner (N 45XX)	29131	¹ D ELSA 2	30,00 mm	2129 131 604
Volvo FH II (2002-), FH12, FH16, FM9, FM12, FL, FL6 Volvo B7R, B9L, B9R, B9TL, B12B, B12R	29125, 29277	¹ D DUCO	29,00 mm	2129 125 009
MAN TGA, F2000, F90 Renault Magnum I/II, Premium I, R (Major), G (Manager) Fast Scoler III, Starter, Syter Irisbus Agora, Arès, Iliade MAN Lion's City (A20/A21/A37), Lion's Star (R02/R03), NG (A11/A23), NL (A10/A15/A21), NÜ (A20) Mercedes-Benz Tourismo I (O 350), O 404 Neoplan Centroliner (N 45XX), Tourliner (N 2216), Trendliner (N 3516) Setra S 315/319 NF Tamsa Safari	29030, 29113, 29210	¹ D ELSA 1	28,00 mm	2129 030 009
Renault Midlum II Volvo FH, FL II (2006-). FE I (2006-)	29173, 29203	¹ ELSA 225-1	29,20 mm	2129 173 008

¹with accessories ²without accessories

Simplified description of the production process of a EUROPART brake pad



1. Preparation and mixing of the friction material

A high-tech automatic mixing unit is a computer-controlled system that combines all processes of friction mixture production. From adding the material to dosing and weighing right up to mixing.

The result is a particularly homogeneous mixture characterised by even distribution of the raw materials. This even distribution is the guarantee for a high level of quality and is crucial for good braking behaviour. Furthermore, it ensures continuity in production and the product properties.

Secret mixture of 10 to 25 high-quality materials

Binding agent: ground resins

Fibre components: e.g. mineral wool, glass fibre

Lubricant: e.g. graphite powder, metal sulphide powder

Metallic fillers (no heavy metals): e.g. copper, brass, bronze, steel, magnesium

Mineral fillers e.g. aluminium oxide

2. Preparation of the brake pads/back plate

2.1 Applying the metal fabric

The fabric ensures a high shear strength.

2.2 Sandblasting

The result is a surface free from oils/grease and particle residues.

A computer-controlled system monitors the process parameters.

2.3 Applying the adhesive

The adhesive is another component which ensures the high shear strength.

2.4 Pressing

During this work process, the back plate and the friction material are compressed into a brake pad under a high pressure and high temperature.

The result is an even thickness and porosity, which along with the high quality of the friction material mix is also an important factor for excellent braking behaviour. In addition, continuity in production is ensured.

2.5 Firing and curing in high-tech furnaces

Firing, cooling and curing occurs according to computer controlled process parameters. The result ensures the continuity in production and the product characteristics as well as the high level of quality.

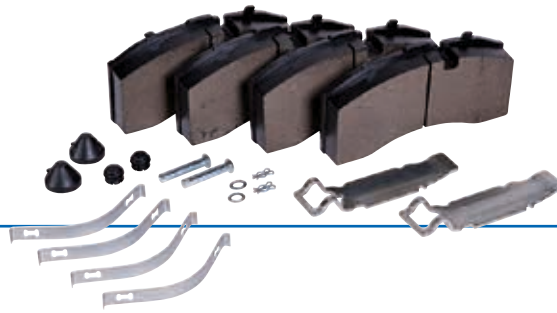
2.6 Finishing process of the brake pad

The brake pad is ground to the correct functional thickness, any burrs present are removed, bevels are ground in some areas, the brake pad is painted (corrosion protection), the brake pad is marked in accordance with regulation ECE R90.

What makes our brake pads stand out?

- comprehensive and professional methods in the development phase, use of high-grade materials and components and innovative process technology mean the brake pad is of a high level of quality and safety.
- Naturally ECE R90 compliant
- Scope of the development tests exceeds the requirements of ECE R90: Comfort test: Noise testing, service life: Disc tolerance
- cost-effective production due to continual investment in innovative machinery
- high braking effect in all temperature ranges
- high braking effect over the entire range of speeds
- very cost effective thanks to the wear performance and "kind" to brake pads
- environmentally friendly due to minimal sound and abrasion emissions

EUROPART
GOOD TO KNOW



This figure corresponds to 2129 158 009



Brake pad set

Scope of supply
with accessories

suitable for	WVA no.	Brake system	Lining thickness	Order no.	Comparative no.
SAF SKRZ, SKRB, SKRLB, SKRS	29158	SK7	30,00 mm	2129 158 009	SAF 3057008500
Meritor LM, TA, TAC	29125, 29277	D DUCO	29,00 mm	2129 125 009	Meritor MDP5057
SAF SKRZ, SKRB, SKRLB, SKRS	29162	PERROT-WABCO PAN 22	31,00 mm	3002 413 290	SAF 03057008400



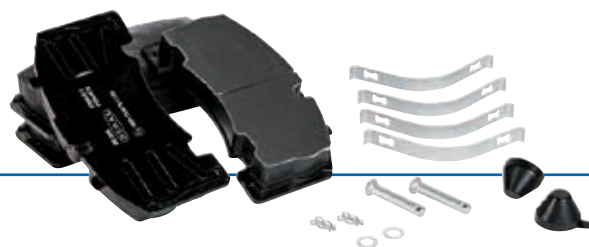
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Brake pad set

Scope of supply
with accessories

suitable for	WVA no.	Quality	Lining thickness	Order no.	Comparative no.
Iveco Stralis I/II AS, EuroCargo II MAN TGX (2013-), TGS, TGA Mercedes-Benz Actros I/MP2/MP3, Axor I/II, Atego I/II/III, Accelo, Antos, Econic, Unimog U5000 Irisbus Arés MAN Lion's Coach (R09), NÜ (A20) Mercedes-Benz Intouro II, Turismo I/II (O 350), Travego I/II (O 580) Setra S 415 HD, S 415/416/417 HDH, S 431 DT, S 415/416 GT, S 415/416/417 GT-HD VDL Berkhof Ambassador	29253	Beral 4550	30,00 mm	2120 292 530	Beral 2925330004145504
MAN TGL Mercedes-Benz New Atego (2013-), Atego I Mercedes-Benz Travego (O 580)	29183	Beral 4550	27,00 mm	2129 115 270	Beral 2918327004145503
Mercedes-Benz New Actros (2012-), Arocs, Antos, Axor III	29246	Beral 7221	35,00 mm	2129 246 350	Beral 2924635004171213
Mercedes-Benz New Actros (2012-), Arocs, Antos, Axor III	29244	Beral 7221	35,00 mm	2129 244 350	Beral 2924435004172213
Iveco EuroCargo II Mercedes-Benz New Atego (2013-), Atego I/II Mercedes-Benz Tourino (O 510)	29197	Beral 4550	30,00 mm	2129 094 300	Beral 2919730004145504
Renault Magnum, Premium II Volvo FH II (2002-), FE I (2006-) Volvo B5LH, B7R, B9L, B9R, B9TL, B13R	29174, 29218, 29219, 29273	Beral 4567	29,00 mm	2129 219 290	Beral 2921829004145674



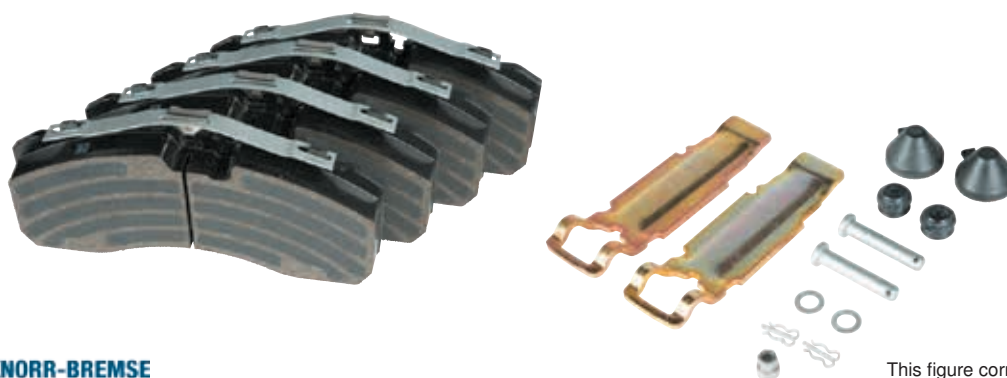
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Brake pad set

Scope of supply
with accessories

suitable for	WVA no.	Quality	Lining thickness	Order no.	Comparative no.
BPW ECO MAX SB/SN6, ECO PLUS SB/SN6, SKH SB/SN6	29265	Beral 4575	30,00 mm	2129 265 575	Beral 2926530004145754
BPW ECO PLUS SB/SN7, SH SB/SN7	29263	Beral 4575	30,00 mm	2129 263 575	Beral 2926330004145754
BPW ECO PLUS SK7	29264	Beral 4575	30,00 mm	2129 264 575	Beral 2926430004145754
Gigant Protec DH4 05506 3334	29183	Beral 4550	27,00 mm	2129 115 270	Beral 2918327004145503
Mercedes-Benz DCA, DLS, TE, TL, TZ	29253	Beral 4550	30,00 mm	2120 292 530	Beral 2925330004145504
Mercedes-Benz NR 5	29197	Beral 4550	30,00 mm	2129 094 300	Beral 2919730004145504
SAF SK SKRZ, SKRB, SKRLB, SKRS, SKRZ Mercedes-Benz DLS	29158	Beral 4550	30,00 mm	2129 158 502	Beral 2915830004145504


KNORR-BREMSE

This figure corresponds to 3400 467 770



Brake pad set

Scope of supply
with accessories

suitable for	WVA no.	Quality	Brake system	Order no.	Comparative no.
Mercedes-Benz Actros I/MP2/MP3, Axor I/II, Atego I, Econic Mercedes-Benz Citaro (O 530), Intouro II, Travego I/II (O 580), Tourismo I/II (O 350) Tems a Safari HD VDL Futura FHD 10-15, FLD 12/15	29253	Jurid 539-39	SB7.../SN7...	¹ 3400 467 770	Knorr K046771K50
Irisbus Eurorider Mercedes-Benz Citaro I/II/C2 (O 530), Cito (O 520), Conecto I (O 345), Integro II (O 550), Intouro II, Tourismo I/II (O 350), Travego I/II (O 580) Setra S 315 UL, S 411/415 HD, S 416/417 HDH, S 431 DT, S 415/416/417 GT-HD, S 415 NF, S 415/417/419 UL Solaris Urbino III	29059	T7400	SB7/SN7	¹ 3419 397 560	Knorr K047865K50
Mercedes-Benz New Actros (2012-), Arocs, Antos, Axor II/III	29246	Jurid 539-39	SM7...	3400 035 471	Knorr K035471K50
Mercedes-Benz New Actros (2012-), Arocs, Antos, Axor II/III	29244	Jurid 539-39	SL7...	3400 035 472	Knorr K035472K50

¹prepared for wear indicator


KNORR-BREMSE

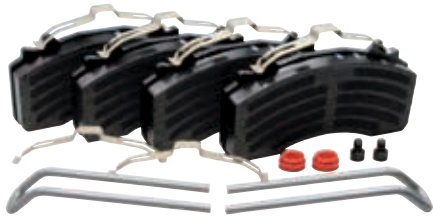
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Brake pad set

Scope of supply
with accessories

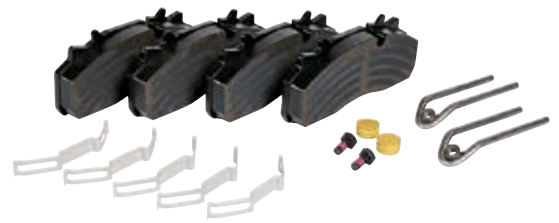
suitable for	WVA no.	Version	Order no.	Comparative no.
BPW SKHBF 9010-15 ECO Plus 2	29165	with accessories	6098 011 469	Knorr K060273K50
BPW SHSF, SHSFA, SHSM, SHSMA, SHZ, SHZF, SHZM, SHZMA SHSF 9010 ECO Plus 2	29171	without wear indicator, with fitting materials	3400 011 471	Knorr K011471K50
BPW SHSF 9010 ECO Plus	29167, 29270	with accessories	2129 087 300	Knorr K011470K50


WABCO

 This figure corresponds
to 3803 229 332


Brake pad set

suitable for	WVA no.	Lining thickness	Brake system	Order no.	Comparative no.
MAN TGX (2013-), TGX (2007-), TGS MAN Lion's Coach (R09)	29279	30,5 mm	MAXX 22	3803 229 332	WABCO 640 322 933 2
MAN M2000L, L2000	29088	26,00 mm	PAN 17	6370 999 667	WABCO 12 999 782

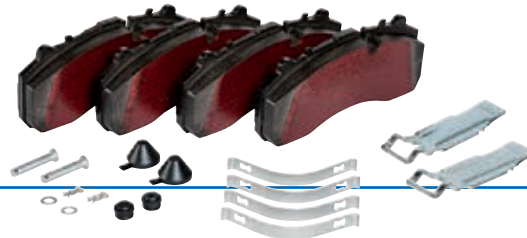

WABCO

 This figure corresponds
to 6370 999 737


Brake pad set

 Scope of supply
with accessories

WVA no.	Brake system	Lining thickness	Order no.	Comparative no.
29159	PAN 19-1 plus	29,80 mm	6370 999 737	WABCO 12 999 737VT
29162	PAN 22/22-1	31,85 mm	0402 259 222	WABCO 640 225 922 2



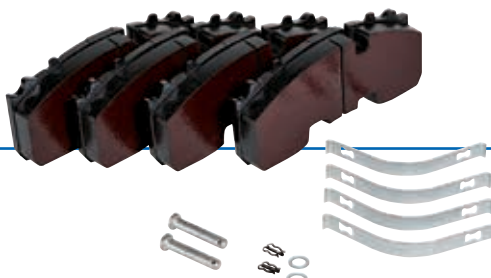
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Brake pad set

Version prepared for wear warning indicator

suitable for	WVA no.	Quality	Lining thickness	Order no.	Comparative no.
Iveco Stralis I/II, EuroCargo I/II, EuroTech, EuroTrakker, Trakker MAN TGX, TGS, TGA Mercedes-Benz Actros Actros I/MP2/MP3, Axor I/II, Atego I/II, Econic	29202	Textar T3150	30,00 mm	2190 873 004	Textar 2920212
Renault Magnum II, Premium II Volvo FH II (2002-), FE I (2006-)	29174	Textar T3032	29,20 mm	2129 174 292	Textar 2914401
Renault Midlum Volvo FH II (2002-), FE I (2006-)	29173	Textar T3032	29,20 mm	2129 173 302	Textar 2917301
DAF XF Euro 6 (2012-), XF105, CF Euro 6 (2013-), CF65 II (2006-), CF85 II (2006-) MAN Lion's City (A22/A23/A26/A35/A39/A66) Mercedes-Benz Intouro II, Tourismo II, Travego II Neoplan Centroliner (N 44XX/N 45XX), Cityliner (N 12XX), Starliner (N 52XX), Tourliner (N 2216), Trendliner (N 3516) Setra S 411/415 HD, S 415/416/417 HDH, S 431 DT, S 415/416 GT, S 415/416/417 GT-HD, S 415/416 NF, S 412/415/416/417/419 UL Solaris Urbino III, Vacanza VDL Berkhof Ambassador, Bova Futura, Bova Lexio, Bova Magiq, Bova Synergy	29202, 29253, 29278	Textar T7400	30,00 mm	2129 087 402	Textar 2927802



This figure corresponds to 6098 010 643



Brake pad set

 Lining thickness 30,00 mm
Quality BPW T3030

 Scope of supply
with accessories

suitable for	WVA no.	Brake system	Order no.	Comparative no.
BPW SKHBF 9010-15 ECO Plus 2	29165	SB 3745T	6098 010 643	BPW 09.801.07.24.0
BPW SHSF 9010 ECO Plus	29167	SB/SN 7	6098 010 645	BPW 09.801.07.28.0
BPW SHSF, SHSFA, SHSM, SHSMA, SHZ, SHZF, SHZM, SHZMA SHSF 9010 ECO Plus 2	29171	SB 4309T	¹ 6098 010 644	BPW 09.801.07.26.0

¹prepared for wear indicator



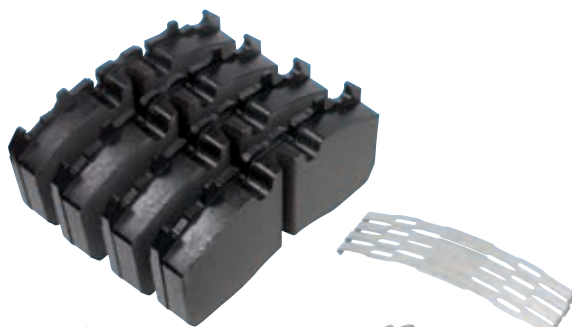
Brake pad set repair set for one axle

Quality BPW 8200

Scope of supply

2 plugs Ø 24 x 9, 4 wear plates, 4 Textar brake pads, 2 tension springs, 2 bolts Ø 8/10/14 x 64,5/75, 2 washers Ø 10,5, 2 clips

VVA no.	Brake system	Order no.	Comparative no.
29227	TSB 3709	0098 010 794	BPW 09.801.07.94.0
29228	TSB 4309	6098 010 757	BPW 09.801.07.57.0



MERITOR



Brake pad set

Brake system ELSA 225
Lining thickness 29,00 mm

VVA no.	Order no.	Comparative no.
29211, 29291	7605 117 000	Meritor MDP5117



This figure corresponds to 5030 570 085



Brake pad set

Scope of supply
with accessories

suitable for	VVA no.	Brake system	Lining thickness	Order no.	Comparative no.
SAF B9-22K01, BI9-22K01, SKRB9022K01	29158	SK 7	30,00 mm	5030 570 085	SAF 3057008500
SAF	29195	SBS 2220	30,00 mm	5030 570 096	SAF 3057009600
SAF SKRB 9019, SKRS 9019/11019, SKRZ 9019/11019	29159	PAN 19-1	30,00 mm	5030 570 080	SAF 3057008000
SAF SK RB 9022 W SK RB 9022 WI Integral SK RS 9022/11222 W SK RZ 9022/11222 W 9022/11222 W Brake SBW 2243 - PAN 22-1 BI9-22W	29162	PAN 22-1	31,00 mm	5030 570 084	SAF 3057008400
SAF SKRB 9019, SKRLB 9019	29095, 29197	SN 6	30,00 mm	5030 570 078	SAF 3057007800
SAF SKRB 9022, SKRLB 9022	29061, 29087, 29108, 29179	SN 7	30,00 mm	5030 570 077	SAF 3057007700



Brake pad set

Brake system PAN19-1

suitable for	VVA no.	Order no.	Comparative no.
Valx RMOX0910/RMSX0910	29159	8050 320 001	Valx 50 320 001





Exacting standards required. Impressive quality delivered.

The EUROPART brand: Excellent products, based on manufacturer standards

Top quality, as is normally found only with premium brands, but at favourable terms: With **EUROPART own-brand products**, you benefit from a competitively priced alternative. Whether you need vehicle parts such as brake discs, linings, batteries and filters or workshop materials such as chemical products, oils and tools – our constantly growing and technically

advanced range of over 6,500 own-brand products provides the right solution for every situation and every customer requirement. Our strict and **careful selection of suppliers** reflects our high standards. These are **products that impress** even under extreme conditions and are of a quality based on manufacturer standards. This you can depend on – always.



This figure corresponds to 3403 460 000



Brake disc

Version Internally ventilated

suitable for	Hole circle Ø	Thickness	Height	Order no.	Comparative no.
Mercedes-Benz New Actros (2012-), Actros I/MP2/MP3, Arocs, Antos, Axor I/II/III, Atego I/II/III, Econic	211 mm	45 mm	132,5 mm	3403 460 000	Mercedes-Benz 942 421 11 12 Mercedes-Benz 942 421 12 12 Mercedes-Benz 942 421 21 12
Mercedes-Benz Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Turismo I/II (O 350), Travego I/II (O 580)					
Setra S 315 GT, S 315/317/319 GT-HD, S 315/319 NF, S 313/315/317 UL, S 315/319 UL-GT, SG 321 UL, S 411/415 HD, S 416/417 HDH, S 431 DT, S 415/416/417 GT-HD, S 415 NF, S 415/417/419 UL					
Solaris Urbino III					
MAN TGX (2013-), TGX (2007-), TGS (2013-), TGS, TGA, TGM (2013-), TGM, F2000, M2000	168 mm	45 mm	130 mm	2072 432 004	MAN 81.50803-0040
MAN Lion's City (A20/A21/A23/A37/A47/A78), Lion's Classic Ü (A72), Lion's Coach (R07/R08/R09), Lion's Regio (R12/R13), Lion's Star (R02/R03), NG (A23), NL (A21), NÜ (A20)					
Neoplan Centroliner (N 45XX), Cityliner (N 12XX), Skyliner (N 1122), Starliner (N 52XX), Tourliner (N 2216), Trendliner (N 3516)					
Temsa Safari					
Van Hool A320/330, T900					
Scania R, G, P, 94, 114, 124, 144, 164	237 mm	45 mm	131 mm	2090 430 001	Scania 1852817
Scania K94/114/124/250/270/310/360/380/400/440, L94, OmniCity					
Mercedes-Benz New Actros (2012-), Actros I/MP2/MP3, Axor II/III, Atego I/II/III, Econic	168 mm	45 mm	143,5 mm	3403 460 001	Mercedes-Benz 943 421 03 12
Mercedes-Benz Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Turismo II, Travego II					
Setra S 415 HD, S 417 HDH, S 431 DT, S 415/416/417/419 GT-HD, S 415 NF, S 415/416/417/419 UL, S 519 HD, S 516 HDH, S 515 MD					
MAN TGX (2013-), TGX (2007-), TGS (2013-), TGS, TGA, TGM (2013-), TGM	235 mm	45 mm	135 mm	2072 432 005	MAN 81.50803-0041
Fast Scoler III, Syter (Euro 4)					
MAN Lion's City (A20/A21/A37/A78), Lion's Classic Ü (A72), Lion's Coach (R07/R08/R09), Lion's Regio (R12/R13), NG (A23), NL (A21), NÜ (A20)					
Neoplan Centroliner (N 45XX), Cityliner (N 12XX), Skyliner (2011-), Starliner (N 52XX), Tourliner (N 2216), Trendliner (N 3516)					
Temsa Safari					
Van Hool A320					
Mercedes-Benz New Atego (2013-), Atego I/II	120 mm	34 mm	102,5 mm	3410 304 181	Mercedes-Benz 970 421 06 12
Iveco Stralis I/II, EuroCargo II		45 mm	138,5 mm	2066 436 001	Iveco 02992477
Irisbus Crossway					
Mercedes-Benz New Atego (2013-), Atego I/II/III	177 mm	34 mm	111 mm	2030 335 002	Mercedes-Benz 970 423 04 12 Mercedes-Benz 970 423 06 12
Mercedes-Benz New Atego (2013-), Atego I/II/III	138 mm	45 mm	134 mm	3410 306 760	Mercedes-Benz 975 421 02 12
Mercedes-Benz Tourino (O 510)					
MAN TGL (2008-), TGL, L2000	122 mm	34 mm	93 mm	2072 335 001	MAN 81.50803-0042
Temsa Opalin					
Irisbus Eurorider	235 mm	45 mm	131 mm	3410 371 911	Mercedes-Benz 828 500 05 89
MAN Lion's City (A20/A23/A37/A47)					
Mercedes-Benz Citaro (O 530), Cito (O 520)					
Neoplan Jetliner, Skyliner (N 1122)					
Scania OmniCity					
Setra S 315/319 NF					
Solaris Urbino III					
Temsa Avenue LF, Safari HD, Tourmalin					
VDL Citea, Bova Futura					



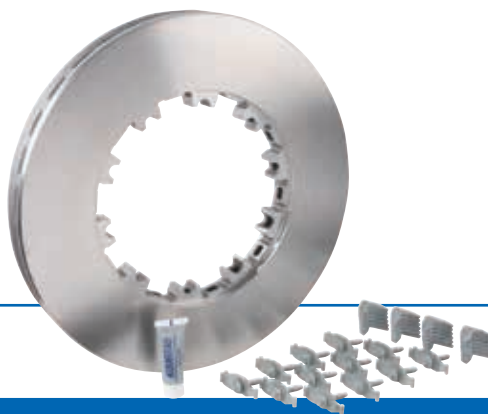
This figure corresponds to 2040 430 002



Brake disc

Version internally ventilated
Thickness 45 mm

suitable for	Hole circle Ø	Height	Order no.	Comparative no.
BPW SHSF, SHSM, SHSF, SHSFA, SHSMA, SHZ, SHZF, SHZM ECO-MAXX/ECO Plus	335 mm	159,5 mm	2040 430 002	BPW 03.088.35.05.7
Schmitz Cargobull	290 mm	168,5 mm	2088 430 001	Schmitz 017870
SAF SKRB 9022 H/K	168 mm	130 mm	2051 000 501	SAF 4.079.0005.00 SAF 4.079.0005.01 SAF 4.079.0005.02
SAF SKRB 9019 K/W	168 mm	139,5 mm	2051 000 700	SAF 4.079.0007.03
BPW SKH, SKHB, SKHBF, SKHBFHLL, SKHBM, SKHBMHLL, SKHSF, SKHSFA, SKHSFHLL, SKHSM, SKHSMA, SKHSMHLL, SKHZF, SKHZM, SKHZMA ECO-MAXX, ECO Plus	335 mm	159,5 mm	2040 370 002	BPW 03.088.34.06.7
Meritor TA/TC Duco	250 mm	150 mm	7678 323 825	Meritor MBR9004
Mercedes-Benz NR 5	211 mm	132,5 mm	3403 460 000	Mercedes-Benz 942 421 11 12 Mercedes-Benz 942 421 12 12 Mercedes-Benz 942 421 21 12
Mercedes-Benz DLS, NR 5	201 mm	138,5 mm	3410 306 770	Mercedes-Benz 975 423 06 12
BPW SKH, SKHBF, SKHBFHLL, SKHBM, SKHSF, SKHSFHLL, SKHSM, SKHZF, SKHZM ECO-MAXX/ECO Plus	275 mm	159,5 mm	2040 370 004	BPW 03.088.34.03.7
BPW SHSF, SHSFA, SHSM, SHZF, SHZM ECO-MAXX, ECO Plus	335 mm	169,5 mm	2040 370 006	BPW 03.088.34.08.7
Mercedes-Benz DCA, TE4/TZ4	238 mm	132 mm	2034 006 480	Mercedes-Benz 675 421 00 12
BPW SKH, SKHB, SKHBF, SKHBFHLL, SKHBM, SKHBMHLL, SKHSF, SKHSFA, SKHSFHLL, SKHSM, SKHSMA, SKHSMHLL, SKHSMHLL, SKHZF, SKHZM, SKHZMA ECO-MAXX/ECO Plus	275 mm	159,5 mm	2040 370 003	BPW 03.088.34.01.7
SAF SKRZ 9022/11222 K, SKRB 9022 K, SKRS 9022/11222 K	335 mm	160 mm	2051 000 301	SAF 4.070.0030.00
SMB O-A2020/A2040/A2095/A2130 D1-09	335 mm	155 mm	9180 200 135	Gigant M20013501



This figure corresponds to 6001 387 439



Brake disc

Thickness 45 mm

suitable for	Outer Ø	Height	Order no.	Comparative no.
DAF XF Euro 6 (2012-), XF105, CF Euro 6 (2013-), CF85, CF65	432 mm	45 mm	¹ 6001 387 439	Knorr K034248K50
MAN Lion's City (A20/A23/A37/A47) Mercedes-Benz Citaro (O 530), Cito (O 520) Neoplan Jetliner, Skyliner (N 1122) Scania OmniCity Setra S 315/319 NF Solaris Urbino III Tamsa Avenue LF, Safari HD, Tourmalin VDL Bova Futura	430 mm	131 mm	² 3410 371 910	Knorr II371910061
Mercedes-Benz Actros I/MP2/MP3, New Actros (2012-), Axor I/II, Atego I/II/III, Econic Mercedes-Benz Citaro I/II/C2 (O 530), Integro II (O 550), Intouro II, Tourismo I/II (O 350), Travego I/II (O 580) Setra S 315 GT, S 315/317/319 GT-HD, S 315/319 NF, S 313/315/317 UL, S 315/319 UL-GT, SG 321 UL, S 411/415 HD, S 416/417 HDH, S 431 DT, S 415/416/417 GT-HD, S 415 NF, S 415/417/419 UL Solaris Urbino III	430 mm	132,5 mm	² 3403 763 800	Knorr K075758
Scania Series 4, G/P/R/T	430 mm	131 mm	² 3400 810 000	Knorr K000810

¹with accessories ²internally ventilated



This figure corresponds to 6030 883 410



Brake disc

Version internally ventilated
 Thickness 45 mm
 Height 159,5 mm

suitable for	Outer Ø	Order no.	Comparative no.
BPW SHBF 9010-15 ECO Plus SHSF 9010 ECO Plus SHSF 9010 ECO Plus 2	430 mm	6030 883 505	BPW 03.088.35.05.7
BPW SB 3745 SKHBF 9010-15 ECO Plus 2	377 mm	6030 883 410	BPW 03.088.34.10.7
BPW SKHSMA, SKHSMAHLL, SKHZF, SKHZM ECO-MAXX/ECO Plus	377 mm	6030 883 414	BPW 03.088.34.14.7
BPW SKH, SKHB, SKHBF, SKHBFHLL, SKHBM, SKHBMHLL, SKHSF, SKHSFA, SKHSFHLL, SKHSM, SKHSMA, SKHSMAHLL, SKHZF, SKHZM, SKHZMA ECO-MAXX, ECO Plus	377 mm	6030 883 406	BPW 03.088.34.06.7
BPW SKH, SKHBF, SKHBFHLL, SKHBM, SKHSF, SKHSFHLL, SKHSM, SKHZF, SKHZM ECO-MAXX/ECO Plus	377 mm	6030 883 403	BPW 03.088.34.03.7



Brake disc

suitable for	Order no.	Comparative no.
LZ Kögel	7609 020 000	Meritor MBR9020



(Illustration similar)



Brake disc

Thickness 45 mm

suitable for	Outer Ø	Height	Order no.	Comparative no.
SAF BI9-22K01, BI9-22W	430 mm	48 mm	5040 790 013	SAF 4079001303
SAF	377 mm	57,5 mm	5040 790 010	SAF 4079001004
SAF SKRB9022K SKRB9022K03	430 mm	130 mm	5407 900 050	SAF 4079000502
SAF B9-22K01	430 mm	131,5 mm	5040 790 017	SAF 4079001700



This figure corresponds to 9333 301 901



Brake pad sensor for disc brake

suitable for	WVA no.	Length	Order no.	Comparative no.
Iveco EuroCargo I/II, EuroFire	29065, 29067	200 mm	9333 301 901	Iveco 1906462
Iveco EuroCargo II, EuroFire Daily, 05/1999-Daily, 05/2006-	29122, 29374	210 mm	9333 552 002	Iveco 2992393
Renault Magnum II/III, Premium II, Midlum II	29174, 29173	360 mm	9333 311 903	Renault 68325408



This figure corresponds to 9333 472 002



Brake pad sensor

WVA no.	Brake system	Length	Order no.	Comparative no.
29093, 29095	Knorr SB6	750 mm	9333 472 002	SAF Z0008242
29087, 29108	Knorr SB7	365 mm	9333 472 001	SAF Z0008241



This figure corresponds to 9333 412 002



Brake pad sensor for disc brake

suitable for	WVA no.	Length	Order no.	Comparative no.
Irisbus Eurorider Scania K114/124/360/380, L94	29108, 29179	315 mm	9333 352 001	Iveco 1903651
MAN Lion's City (A20/A22/A23/A26/A35/A39/A66), Lion's Coach, Lion's Star, EL (A12), NG (A23), NL (A21)	29055, 29088	298 mm	9333 412 004	MAN 81.50822-6016
MAN Lion's Coach (R07/R08), Lion's Comfort (RN313/RN353), Lion's Star (R02/R03), EL (A12), NG (A11), NL (A10/A15)	29093, 29094	385 mm	9333 412 002	MAN 81.550822-6016
Mercedes-Benz Integro II (O 550), O 404, Turismo I (O 350) Neoplan Centroliner (N 44XX), Cityliner (N 1216/N 116), Euroliner (N 3316/3318), Jetliner (N 2XX), Skyliner (N 122), Spaceliner (N 117), Starliner (N 5218/N 516), Tourliner (N 2216), Transliner (N 314/316), Trendliner (N 3516)	29253		9333 062 001	Mercedes-Benz 356 540 00 17 Neoplan 82135210

Technical information

Common brake disc and brake pad faults

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.

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.

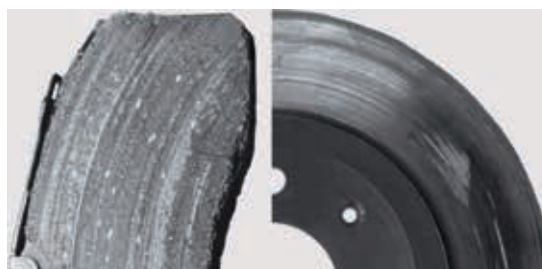
Consequences:

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.

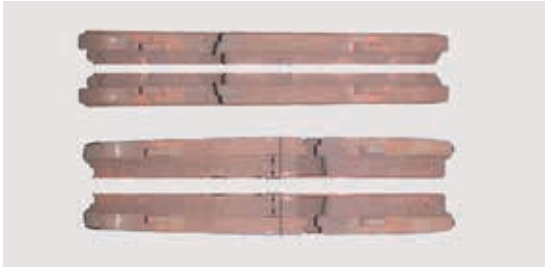
Consequences:

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.

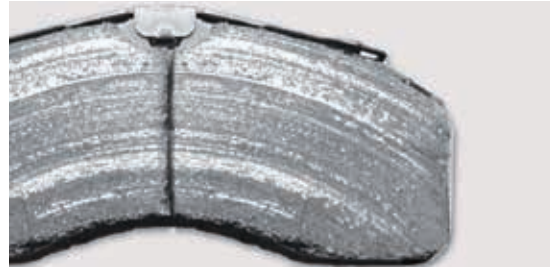
Consequences:

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.

Technical information

Common brake disc and brake pad faults

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.

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.



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Customer satisfaction in our top priority. That's why you can expect not only **high-quality products** from EUROPART, but also a **friendly and expert** service team who are ready to help you by phone. Contact our **qualified EUROPART technicians** who will not only give you expert advice but will also assist you with your questions and problems,

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Drum brakes



Brake shoe in exchange

Brake size 300 x 200 mm

Scope of supply
complete, with EUROPART brake lining

Order no.	Comparative no.
5041 661 195	SAF 3055008400



Brake shoe

suitable for SN 4220
Brake size 420 x 180 mm

Scope of supply
with brake lining

Order no.	Comparative no.
6050 914 632	BPW 05.091.46.32.1



Brake shoe

Type 3020

Scope of supply
with brake lining

Order no.	Comparative no.
6050 911 436	BPW 05.091.14.70.0

Brake shoe

Brake size 300 x 200 mm

Scope of supply
complete, with EUROPART brake lining

Order no.	Comparative no.
6161 022 525	BPW 05.091.14.70.0



Brake shoe

Brake size 360 x 200 mm

Scope of supply
with brake lining

Order no.	Comparative no.
6050 911 922	BPW 05.091.19.22.0



Brake shoe

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

Scope of supply
with brake lining

Order no.	Comparative no.
6050 911 477	BPW 05.091.14.77.1



Brake shoe

Brake size 300 x 200 mm

Scope of supply
with brake lining

Order no.	Comparative no.
5030 550 129	SAF 3055012901



Brake shoe

Brake size 420 x 180 mm

Scope of supply
with brake lining

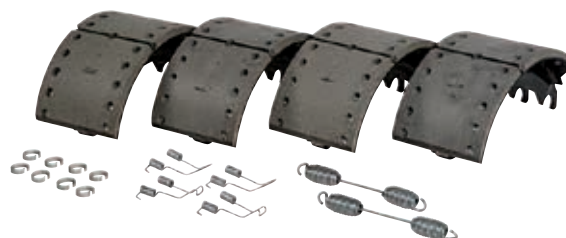
Order no.	Comparative no.
5030 550 120	SAF 3055012000



Brake shoe set

Type GRP3020-1 T090G

Order no.	Comparative no.
6050 911 472	BPW 05.091.14.72.0

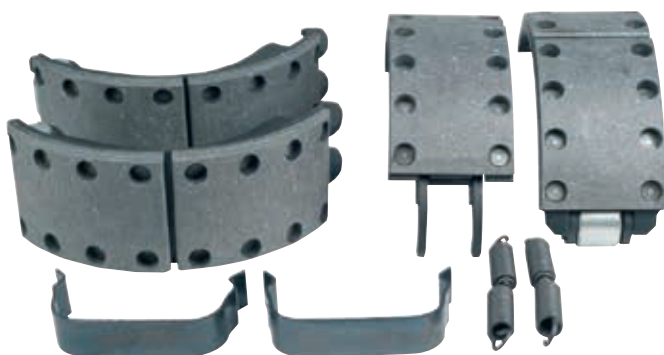


Brake shoe set

suitable for SN 4220

Scope of supply
with lining

Order no.	Comparative no.
6098 010 749	BPW 09.801.07.49.0



Brake shoe set

Type 3010
Brake size 300 x 100 mm

Scope of supply
with lining

Order no.	Comparative no.
5209 317 839	SAE-SMB 09317 839



Brake shoe set

Type 3020
Brake size 300 x 200 mm

Scope of supply
with lining

Order no.	Comparative no.
5209 317 840	SAE-SMB 09317 840



Brake shoe

Brake size 300 x 200 mm
suitable for Brake shoe pin

Scope of supply
with brake lining

Order no.	Comparative no.
5030 550 084	SAF 3055008400



Brake shoe set

Brake size 419 x 203 mm

Scope of supply
4 pieces

Order no.	Comparative no.
9930 001 197	Meritor MBSK2500-4



Repair kit

for drum brake

Scope of supply
With brake shoes

suitable for	Order no.	Comparative no.
SN 4218	6098 010 739	BPW 09.801.07.39.0
SN 3620	6098 010 240	BPW 09.801.02.40.0
SN 3020	6098 012 420	BPW 09.801.02.42.0



Repair kit

for brake shoes

suitable for SN 3010

Scope of supply
with lining

Order no.	Comparative no.
6098 010 774	BPW 09.801.07.74.0



Repair kit

for brake shoes

suitable for SNK 420 x 180

Order no.	Comparative no.
5034 343 653	SAF 3434365300



Repair kit

for brake linings

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



Slack adjuster

Version	automatic
Installation location	rear axle
Number of holes	1
Number of teeth	26
Toothed hub profile	N42 x 1.5 x 9H DIN 5480

suitable for	Installation side	Form	Fig.	Order no.	Comparative no.
Mercedes-Benz O 404 Mercedes-Benz Actros I/MP2/MP3, Atego I, Axor I/II, SK, MK, LK/LN2, NG	right	left cropped, +56 mm	1	1205 866 505	Mercedes-Benz 945 420 03 38
Mercedes-Benz O 404 Mercedes-Benz Actros I/MP2/MP3, Atego I, Axor I/II, SK, MK, LK/LN2, NG	left	right offset, -56 mm	2	1205 866 500	Mercedes-Benz 945 420 02 38



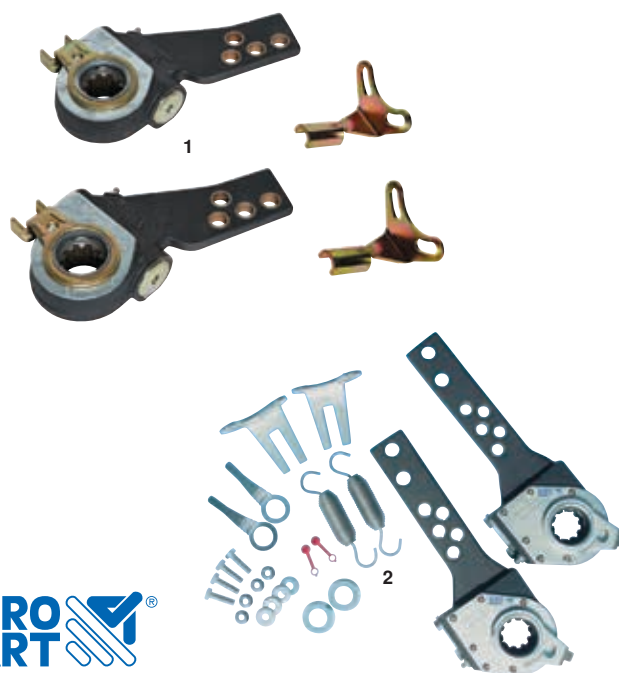
This figure corresponds to 1205 868 001



Slack adjuster

Version	automatic
Form	left offset, 0 mm
Number of teeth	10
Toothed hub profile	SAE 1 1/2" 10 C

suitable for	Number of holes	Order no.	Comparative no.
BPW	5	1205 868 011	BPW 05.174.82.44.3
BPW	6	1205 868 001	BPW 05.174.82.63.2



Slack adjuster set

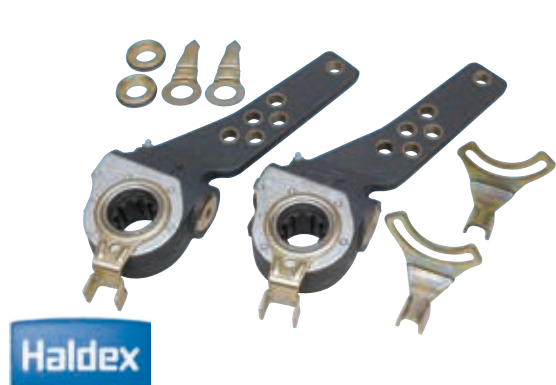
Automatic

with wear indicator

Scope of supply

Complete set for one axle

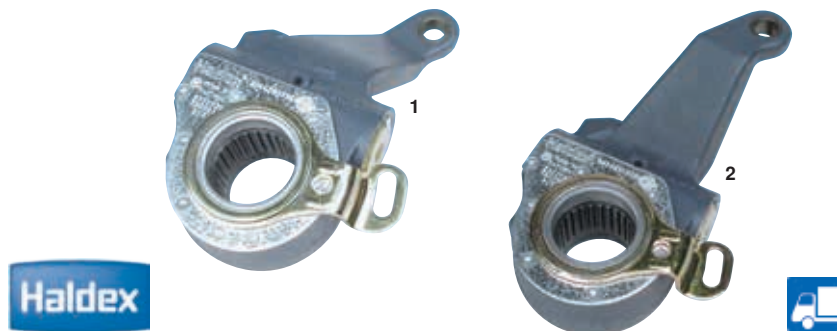
suitable for	Lever length	Angle	Fig.	Order no.
SAF axles	105/127/140/153/178/250 mm	30°	1	3401 000 001
BPW-axles	120/135/150/165/180/195/250 mm	60°	2	3401 000 002



Slack adjuster

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

Order no.	Comparative no.
3400 800 190	Haldex 80019D



Slack adjuster

Version	automatic
Number of holes	26
Number of teeth	26
Toothed hub profile	N42 x 1.5 x 9 H

Form	Fig.	Order no.	Comparative no.
right offset 56 mm	1	3400 800 010	Haldex 80001C
left offset 56 mm	2	3400 800 003	Haldex 80000C



Slack adjuster set

ECO Master

Distance between holes 6 mm

Application range
BPW brakes

Version	Order no.	Comparative no.
AGS conversion kit	6055 748 287	BPW 05.574.82.87.3
AGS conversion kit with wear indicator	6055 748 243	BPW 05.574.82.43.3



Slack adjuster

ECO Master

Number of holes	4
Hole size	270 mm
Material	steel

Order no.	Comparative no.
6051 748 263	BPW 05.174.82.63.3



Repair kit

for brake slack adjuster

Type	GK 36
Lever length	150-180 (205=9,5) mm
Weight	9 kg

Scope of supply
with attachment material

Order no.	Comparative no.
6055 748 831	BPW 05.574.88.31.3



Slack adjuster set

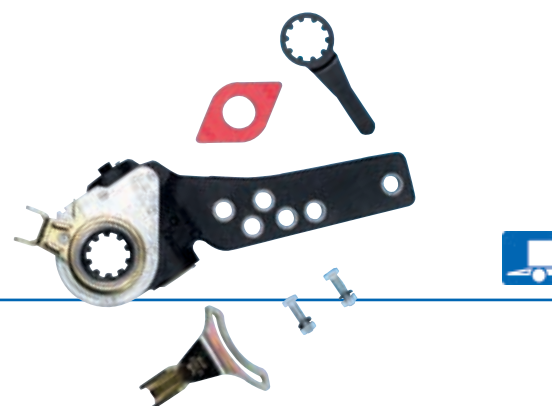
automatic

with wear indicator

Angle 30°

Scope of supply
complete set for one axle

Order no.	Comparative no.
5034 343 502	SAF 3.434.3502.02





(Illustration similar)



Brake lining set

suitable for	VVA no.	Brake drum Ø	Lining width	Lining thickness	Order no.	Comparative no.
MAN TGX, TGS, TGA, F2000, M2000L/M, F90, M90 Mercedes-Benz Actros I/MP2/MP3, Axor I/II, Atego I, SK, MK	19496	410 mm	223 mm	17,00 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
Renault Magnum I, R (Major), G (Manager)	19094	420 mm	200 mm	17,50 mm	2119 094 008	Renault 5000814837
MAN TGX, TGS, TGA, TGM, TGL, F2000, M2000L/M, F90, M90 Mercedes-Benz Actros I/MP2/MP3, Axor I/II, Atego I, SK, MK, NG	19495	410 mm	183 mm	17,00 mm	2119 487 008	MAN 81.50220-0551 MAN 81.50221-0809 Mercedes-Benz 346 423 00 10 Mercedes-Benz 617 423 13 30
Volvo FH12, FH16, FM7, FM12, FL7, FL10, FL12, F10, F12, F16	19071	410 mm	200 mm	18,30 mm	2119 939 008	Volvo 3095179



This figure corresponds to 2119 032 009



Brake lining set

suitable for	VVA no.	Brake drum Ø	Lining width	Lining thickness	Order no.	Comparative no.
BPW E 8010, EHF 3010, EHI 5500-1, EHIZ 14000, EHIZVB 14000, EHIZVB 14010, EHS 5508-1, EHXZ 10000-3, EHZ 10010-3, EHZ 9010-3, EHZDO 10010, HSF 9010, HSF 9010-15, HSFH 9010, HSFH 9010-15, HSFHLL, HSFLL, HSM, HSMH, HSMHLL, HXZ, HXZH, HZ, HZF, HZFH, HZM, HZMD, HZMDH, HZMDH, HZMDHOM, HZMDHOT, HZMDO	19094	420 mm	200 mm	17,50 mm	2119 094 008	BPW 03.092.21.01.0 BPW 03.092.21.06.0 BPW 03.092.21.15.0
BPW H, M, R	19032	420 mm	180 mm	18,00 mm	¹ 2119 032 009	BPW 03.092.26.85.0
BPW KH, KM, KR	19902	360 mm	200 mm	18,00 mm	2119 902 008	BPW 03.092.19.08.0
BPW NH..., NM..., NR..., NRD..., ZR..., ZZ..	19574	300 mm	200 mm	17,00 mm	¹ 2119 574 009	BPW 03.092.14.27.0
SAF KRS, RBM, RLBM, RSM, RZM, SKRLS, SKRLZ, SKRS, SKRZ, SKZRLZ, WRZM	19283	420 mm	180 mm	19,90 mm	2119 283 008	SAF 1.057.0060.00
SAF RZM 13130, SKRS 9030, WRLZM 8130, 8435, 11030	19515	300 mm	200 mm	16,30 mm	2119 515 008	SAF 3.057.3924.00

¹with rivets

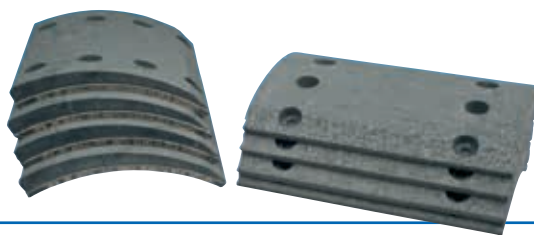
(Illustration similar)



Brake lining set

Brake drum Ø 410 mm

suitable for	VVA no.	Quality	Brake drum Ø	Lining thickness	Lining width	Order no.	Comparative no.
MAN TGA, F2000, M2000L/M, F90, M90 Mercedes-Benz Actros I/MP2/MP3, Atego I, MK, SK	19496	Beral 1549	410 mm	17,00 mm	223 mm	2119 488 513	Beral 1949617000015498
Mercedes-Benz Actros I/MP2/MP3, Atego I	19495	Beral 1549	410 mm	17,00 mm	183 mm	2119 487 513	Beral 1949517000015498
Renault Magnum, Manager, Major, G, R	19094	Beral 1560	420 mm	17,00 mm	200 mm	2119 094 601	Beral 1909417000015608
Volvo FM7, FM12, FH12, FH16, FL7, FL10, FL12	19071, 19939	Beral 1627	410 mm	18,30 mm	200 mm	2119 939 503	Beral 19071 183000 16278



This figure corresponds to 2119 574 503



Brake lining set

Lining width 200 mm
Lining thickness 17,00 mm

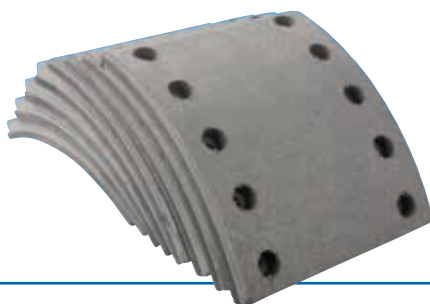
suitable for	WVA no.	Quality	Order no.	Comparative no.
BPW	19574	Beral 1517	2119 574 503	Beral 1957417000015178
BPW E 8010, EHF 3010, EHI 5500-1, EHIZ 14000, EHIZVB 14000, EHIZVB 14010, EHS 5508-1, EHXZ 10000-3, EHZ 10010-3, EHZ 9010-3, EHZDO 10010, HSF 9010, HSF 9010-15, HSFH 9010, HSFH 9010-15, HSFHLL, HSFL, HSM, HSMH, HSMHLL, HXZ, HXZH, HZ, HZF, HZFH, HZM, HZMD, HZMDH, HZMDH, HZMDHOM, HZMDHOT, HZMDO	19094	Beral 1560	2119 094 601	Beral 1909417000015608
SAF KRS, RBM, RLBM, RSM, RZM, SKRLS, SKRLZ, SKRS, SKRZ, SKZRLZ, WRZM	19283	Beral 1541	2119 283 913	Beral 1928320100015416
SAF RZM, SKRS, WRZM, WZRLZM, WRLZM	19515	Beral 1541	2119 515 513	Beral 1951515700015416



Brake lining set

Brake drum Ø 410 mm
Lining width 223 mm
Lining thickness 17,00 mm
Quality T012
WVA no. 19496

suitable for	Order no.	Comparative no.
MAN TGA, F2000, M2000L/M, F90, M90	2119 488 532	MAN 81.50221-0865
Mercedes-Benz Actros I/MP2/MP3, Axor I/II, Atego I/II, Arocs, Zetros, MK, SK, Unimog U 2400TG		MAN 81.50221-0681 MAN 81.50221-6101 Mercedes-Benz 305 423 03 10 Mercedes-Benz 617 423 55 11

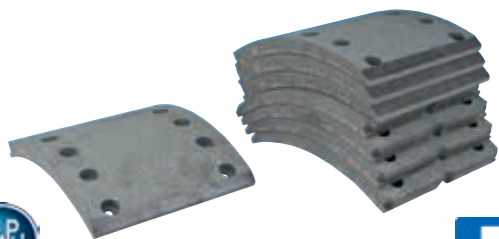


This figure corresponds to 2119 032 522



Brake lining set

suitable for	WVA no.	Brake drum Ø	Lining width	Lining thickness	Order no.	Comparative no.
BPW	19574	300 mm	200 mm	18,00 mm	2119 574 522	Textar 1957428
BPW	19902	360 mm	200 mm	18,00 mm	2119 902 522	Textar 1990210
BPW	17347	300 mm	100 mm	18,00 mm	2117 347 503	Textar 1734703
Mercedes-Benz HD, HH, HL, NR	19496	410 mm	223 mm	17,00 mm	2119 488 532	Textar 1949607
SAF	19032	420 mm	180 mm	18,00 mm	2119 032 522	Textar 1903234 Beral 19032180008T090



Brake lining set

Version	normal dimension with crescent lining
Brake drum $\varnothing$	420 mm
Lining width	180 mm
Lining thickness	18,00 mm
Quality	1517
WVA no.	19191

for 1 axle

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



(Illustration similar)



Brake lining set

Brake drum $\varnothing$	420 mm
Lining width	180 mm
Lining thickness	20,40 mm
Quality	1541
WVA no.	19283

Fig. 71-73

suitable for	Order no.	Comparative no.
SAF S9-4224	5030 573 960	SAF 3057396000





This figure corresponds to 2030 410 034



Brake drum

suitable for	Inner Ø	Height	Hole pattern	Brake path	Order no.	Comparative no.
MAN TGX, TGS, TGA, F2000, M2000L, F90, M90	410 mm	232 mm	10 x 23/3 x M12 x 1,5/ 2 x 13/22 mm	187 mm	2072 410 018	MAN 81.50110-0232
MAN TGX, TGS, TGA, F2000, M2000L, F90 MAN NL (A10)	410 mm	300 mm	10 x 23/5 x 24/ 3 x M12 x 1,5 mm	234 mm	2030 410 508	MAN 81.50110-0144
Mercedes-Benz Actros I/MP2/MP3, Axor I/II, Atego I, SK, MK, NG	410 mm	237 mm	10 x 23/3 x M12 x 1,5 mm	191 mm	2030 410 039	Mercedes-Benz 658 421 00 01
Mercedes-Benz Actros I/MP2/MP3, Axor I/II, Atego I, SK, MK, NG Mercedes-Benz O 405 N, O 407, O 408	410 mm	306 mm	10 x 23/5 x 24/ 3 x M12 x 1,5 mm	240 mm	2030 410 034	Mercedes-Benz 305 423 04 01
Scania R, G, P, 94, 114, 124	413 mm	275 mm	10 x 23,5/3 x M12/ 2 x 9/23 mm	213 mm	2090 413 033	Scania 1414153



This figure corresponds to 2040 421 814



Brake drum

suitable for	Inner Ø	Height	Hole pattern	Brake path	Order no.	Comparative no.
BPW HB, HI, HS, HZ, HZM, HZD, ECO	420 mm	226 mm	10 x 23 mm	191 mm	2040 421 813	BPW 03.109.67.13.0
BPW HB, HI, HS, HZ, HZM, HZD, ECO-MAXX	420 mm	226 mm	10 x 23 mm	199 mm	2040 421 814	BPW 03.109.67.19.0
BPW K.. ECO-MAXX/ECO Plus/ECO Plus 2	360 mm	259 mm	8 x 23 mm	207 mm	2040 362 003	BPW 03.109.90.03.0
BPW N.. ECO-MAXX/MAXX	300 mm	260 mm	10 x 23 mm	209 mm	2040 302 014	BPW 03.109.46.06.0
SAF SK RLS, SK RS	420 mm	227 mm	10 x 23 mm	196 mm	2051 026 001	SAF 1.064.0260.02
SAF SK RZ	300 mm	280 mm	10 x 23 mm	213 mm	2051 027 300	SAF 1.064.0273.00



(Illustration similar)



Brake drum

Hole pattern 10 x 23 mm

suitable for	Inner Ø	Height	Brake path	Order no.	Comparative no.
BPW HSF 9010 ECO MAXX HSF 9010-15 ECO Plus HSF 9010-15 ECO Plus 2	420 mm	226 mm	180 mm	6031 096 719	BPW 03.109.67.79.0
BPW NHZF 9010-15 ECO MAXX	300 mm	260 mm	200 mm	6031 094 606	BPW 03.109.46.06.0



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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



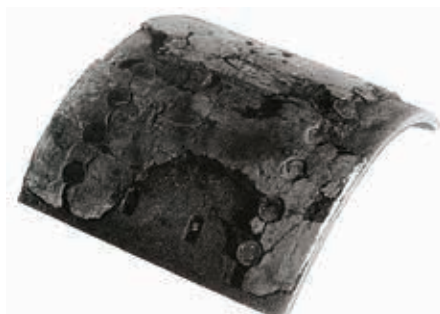
Dirt build-up between the brake lining and brake shoe

Main reasons:

- Shoes warped
- Brake shoes not cleaned properly
- Brake shoe support surface uneven
- Lining incorrectly riveted

Possible consequences:

- Cracks in the lining material or in the drum surface
- Loose linings
- Brake noises
- If not cleaned, rust may form and lift the lining of the brake shoe



Large cracks in the lining surface

Main reasons:

- Fault in braking mechanism
- Brake shoes hanging (return springs too weak)
- Overloading of the brakes at high speeds
- Vehicle overloading
- Faulty brake-force distribution (brake cylinder, brake lever)

Possible consequences:

- Greater wear of lining
- Vehicle pulls to one side; brake noises
- Lining dissolves
- Poor braking performance



Burned lining surface

Main reasons:

- Fault in braking mechanism
- Brake shoes sticking (return springs too weak)
- Brake overload at high speeds
- Incorrect brake force distribution (brake cylinder, LZ brake lever)
- Vehicle overloading
- Incorrect braking force adjustment between tractor unit and trailer/semi-trailer

Possible consequences:

- Greater wear of lining
- Vehicle pulls to one side; excessive brake noises
- Poor braking performance



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Workshop requirements



KUNZER
Qualität verbindet



Thread repair set

M18 x 1.5, M20 x 1.5, M22 x 1.5 and 7/8"-11BSF (Scania) threads can be repaired with this set, unlike a standard die, the tool can be applied to one of the turns of the thread at the rear and it then cuts forwards. Ideal for repairing wheel studs and wheel bolts with damaged starting threads

Application range

Commercial vehicles

Scope of supply

1 x drive adapter, silver
2 rubber ring in bag
1 tool for each thread size M18 x 1.5; M20 x 1.5; M22 x 1.5;
7/8-11BSF
in case

Order no.

9539 641 193

KUNZER
Qualität verbindet

Brake service kit

Scope of supply

- Mounting tool with T-handle for removal and fitting of retaining springs on handbrake shoes of disc brakes
- Mounting tool with T-handle for removal and fitting of handbrake shoe tension springs, e.g. on Mercedes-Benz and VW LT
- Brake pipe wrench 10-11 mm
- Actuation tool with plastic handle for removal and fitting of spring plate and brake lining retaining spring on drum brakes
- Screwdriver PH3
- Brake calliper brush
- Brass brake calliper brush for aluminium brake calliper
- Brake spring pliers for glued and riveted linings with movably mounted claw
- Brake calliper file
- Brake spring pliers for engaging and disengaging brake shoe return springs with riveted brake linings
- Brake cable spring pliers for fitting and dismantling handbrake cables of drum brake
- Joint insert for hexagon socket head screws on rear brake calliper for BMW 3-Series, 5-Series and 8-Series and Opel
- Screwdriver insert 1/2" - 6 mm, 110 mm long
- Screwdriver insert 1/2" - 7 mm, 100 mm long
- Screwdriver insert 1/2" - 8 mm, 80 mm long

Version

15-part

Order no.

3566 170 148



KUNZER
Qualität verbindet

Induction heater

Hot Rod

Loosening rusted bolts, treating dents in metal sheets, inserting bearing shells, heating bearing seats, removing stickers, advertising decor or films and filler, helps when removing bonded windscreens and rear windows

Scope of supply

- Induction coil (19 mm inner Ø, 140 mm long)
 - Induction coil (32 mm inner Ø, 210 mm long)
 - Induction wire (600 mm)
 - Induction cable, flexible (1000 mm)
 - Induction plate, round (75 mm)
- in aluminium case

Order no.

9539 641 290



Hand washing kit

Scope of supply

- EUROPART Soap dispenser, Hero universal 2000, suitable for 1000/2000 ml refill bags
- Hand cleaner, Orange fresh, 2000 ml Refill bag
- Vikan Nail brush

Order no.

9770 561 126



Protective gloves

Inner lining, rubberized cuffs, values 3-1-2-3

Colour yellow
Size 10.5
Material full cow hide
Standard EN 388, Cat. 2

TÜV/GS-tested

Order no.

9534 000 000



Knitted gloves

Seamless, made with special grey stretch material, special black coating on the palm and fingertips, excellent fit

Colour grey/black
Standard EN 420/EN 338 Cat. II

Size	Order no.
9	9534 000 005
10	9534 000 006
11	9534 000 007



Protective goggles

EN 166

provides complete all-round protection, the length of the ear pieces can be adjusted, making fitting easier, the lenses are non-fogging, scratchproof, anti-static and particularly easy to look after

Version blue frame, clear lens

absorb 99.9 % of UV rays up to 400 nm

Order no.

9534 880 740



Ear plugs

Spark Plugs soft

Comfortable protection for works that require constant ear protection during high levels of noise

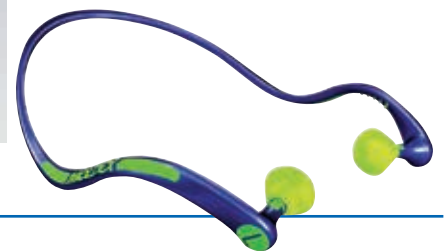
Standard EN352-2
Material Polyurethane (PUR)
Sound insulation value 35 dB(2)
Sound insulation value (SNR) = 35 dB(A)

Scope of supply

Box with 200 pairs

Order no.

9534 370 299



Ear plugs on strap

WaveBand® 2K

great freedom of movement without contact noise, low contact pressure, feather-light and comfortable, easy to put on and take off, ideal protection for constantly changing noise levels

Standard EN352-2
Material Polyurethane (PUR)
Polyoxymethylene (POM)
Thermoplastic elastomers (TPE)

Sound insulation value (SNR) = 27 dB(A)

Order no.

9534 370 309

Ear plugs on strap

M4

Headband with air cushion ridges, reduces pressure and heat build-up, light and flexible with low contact pressure

Standard EN352-1
Material ABS, polyurethane (PUR), TPE film, POM, stainless steel, EVA
Colour yellow

Sound insulation value (SNR) = 30 dB(A)

Application range

For changing noise levels or problems using earplugs



Order no.

9534 370 308

Tool technology



Brake spring pliers

with special holder and exchangeable tip

Version	with knurled, dip-insulated handle
Form	flat
Overall length	195 mm
Head height	205 mm

Application range

to insert and remove brake shoe return springs, for glued and riveted brake shoes

Order no.	Comparative no.
9504 500 320	KS Tools 450.0320



Reamer for ABS sensor

ensures proper, error-free installation of the new sensor

Version	with lockable joint and ratchet function
Material	special steel
Length	45 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.	Comparative no.
8000 500 340	KS Tools 450.0340



Impact socket for brake caliper

extra high power for extremely tight-fitted bolts, can be used in tight spaces

Drive	1/2"
Overall length	57 mm
Material	chrome-vanadium steel
Surface	bright chrome-plated

Application range

for removing/installing brake caliper bolts

Scope of supply

1x MAN brake caliper socket, E20
1x MAN brake caliper socket, E24
1x GEARplus® Ratchet combination wrench set, 30mm

Version	Order no.	Comparative no.
3-piece	9569 740 360	KS Tools 450.0360



Dismantling tool for brake shoes

Material	special steel
Version	sturdy
Spanner size	115 mm
Ø	138 mm
Width	220 mm
Height	80 mm

Application range

Drum brake service, to open and attach the brake shoe return spring, to remove and install brake shoe pins with the drive spindle

Order no.	Comparative no.
9504 500 240	KS Tools 450.0240



Puller for brake slack adjusters

Outer width	160 mm
Height	127 mm
Spanner size	32 mm
Clamping depth	78 mm
Clamping width	65 mm
Material	Special steel

Application range

for withdrawing tight sitting brake slack adjusters

suitable for	Spindle thread	Order no.	Comparative no.
BPW	M22 x 1,5 x 90	8004 500 305	KS Tools 450.0305
Hallex	M22 x 1,5 x 95	8004 500 300	KS Tools 450.0300



Impact socket for brake disc

for machine operation

Drive form Twelve-edged

Scope of supply

ideal for assembling/disassembling SAF brake discs

Spanner size	Order no.	Comparative no.
13 mm	3002 432 261	KS Tools 450.0368
15 mm	8000 500 367	KS Tools 450.0367





Test case for brake discs

for measuring the axial and radial runout of wheel hubs and brake discs, exact location of the dial gauge on the test object using the magnetic gauge stand, convenient and secure attachment of the stand by prismatic mounting and connecting magnet, exact setting of the measurement scale by adjustable tolerance marks, with rotating knurled outer ring, suitable for measuring the thickness of brake discs, as well as the determination of unevenness and warping, with a measurement value fixing lever and measurement force control through a ratchet function

Scope of supply

1 x magnetic gauge stand
1 x precision dial gauge 0–10 mm
1 x outside micrometer
in a sturdy plastic case



Version	Order no.	Comparative no.
3-piece	9501 502 230	KS Tools 150.2230



Universal hub removal kit

with 2 connecting rods and trapezoidal threaded spindle, optionally extendable with hydraulic spindle or slide hammer

Material Special steel

Application range

for truck wheel hubs with a pitch circle diameter up to 300 mm

Scope of supply

- Trapezoidal thread spindle TR30 x 350 mm
- Crossbar 370 mm
- Pull rod with washers and nuts
- Thread adapter set, M18 x 1.5, 2-piece
- Thread adapter set, M20 x 1.5, 2-piece
- Thread adapter set, M22 x 1.5, 2-piece
- Thrust piece size 1, 90 mm/65 mm
- Thrust piece size 2, 110 mm/85 mm

Version	Order no.	Comparative no.
12-piece	9527 300 240	KS Tools 450.0040



Hose cutter

suitable for Tube Ø 6-25 mm
Material Aluminium die-cast body
Torque, max. 280 Nm
Overall length 185 mm
Height 50 mm



Order no.	Comparative no.
3002 431 495	KS Tools 222.2060



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
Ø 8/9/10/11/12 mm

Application range

to securely hold plastic pipes, ideal in tight spaces

Order no.	Comparative no.
3002 423 861	KS Tools 450.0350



Wire brush

for brake calipers

2-row, narrow, with hanging hole, strong edging, 2-component handle

Overall length 225 mm
Width 12 mm
Wire thickness 0,35 mm
Material smooth steel wire

Application range

For removing tough brake dust, for surface treatment



Order no.	Comparative no.
9502 012 320	KS Tools 201.2320

Chemical products

Brake fluid

features high thermal stability, corrosion protection to ferrous and non-ferrous metals, causes only mild swelling of natural rubber (NR), styrene-butadiene rubber (SBR) and EPDM rubber

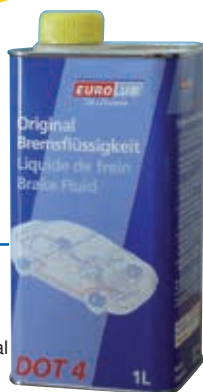
Boiling point of at least 250 °C and wet boiling point of at least 155 °C

Application range

for hydraulic brake and clutch systems

Systems for which a fluid in accordance with DOT4 is required!

Contents	Container	Order no.
1 litre	Bottle	9198 544 143
5 litres	Canister	9198 544 148
20 litres	Canister	9198 544 145
60 litres	Barrel	9198 544 147



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
10 l	Canister	9785 000 026
20 l	Canister	9785 000 027
60 l	Barrel	9785 000 028



Copper Paste

Anti-Seize

reduces friction and wear, protects against fretting corrosion and against corroding and seizing, high mechanical load capacity, water resistant and very release-active high-temperature paste for all release processes at high temperatures, effective protection against corrosion and seizing of threads and bearings

Temperature range -30 to +1100 °C

Application range

for use in the automotive branch for disc brakes and exhaust systems, in the chemical industry for flanges and fittings in hot-steam treatment, turbines and boilers as well as in the stone and earth-moving industries to lubricate pneumatic hammers, concrete and stone drills

Contents	Container	Order no.
100 g	Tube	9909 217 401
1 kg	Can	9909 217 402
15 kg	Hobbock	9909 217 403



Copper Paste

Anti-Seize

reduces friction and wear, protects against fretting rust, corrosion and seizing

Temperature resistance -20 to +1100 °C

Application range

For use in the automotive branch for disc brakes and exhaust systems, in the chemical industry for flanges and fittings in hot-steam treatment, turbines and boilers

Contents	Container	Order no.
200 g	Bottle with brush top	9794 000 000
400 ml	Spray can	9230 000 215



Ceramic paste

Anti-Seize

Reduces wear, very good lubricating effect, free of graphite and MoS2.

For the lubrication of high-load sliding surfaces of all kinds, particularly at low sliding speeds or oscillating movements, e.g. for screw, insertion and bayonet connections made of steel or NF metals, separation of thread connections under temperature load on combustion engines and turbines

Temperature resistance -40 to +1400 °C
Colour white

Contents	Container	Order no.
400 ml	Spray can	9230 000 225
500 g	Can	9230 000 230





Rust Remover

loosens rusty screws, nuts and machine parts, prevents new rust forming and protects parts from wear, on MoS₂ basis

Temperature resistance -30 to +50 °C

Application range

high flow properties, best rust loosening capacity, e.g. for screws, bolts, chain links, joints, levers, springs, hinges or locks, also suitable for cylinder locks

Contents	Container	Order no.
400 ml	Spray can	9230 000 125
5 l	Canister	9230 000 130
10 l	Canister	9230 000 135



Rust Remover ICE

Crack effect with cold shock, rust is quickly loosened, compatible with rubber and seals

Cooling -40 °C

Application range

for the destruction-free loosening of extremely rusty and oxidised screw connections on cars, trucks, agricultural and construction machinery, units and devices

Contents	Container	Order no.
400 ml	Spray can	9799 000 047



Delicate care spray Multi-7, with 7-fold effect

infiltrates and dispels humidity, prevents voltage loss and creepage currents, penetrates gaps and capillary cavities, cleans stubborn dirt and loosens rust, protects metallic surfaces from wear and corrosion, offers an excellent gliding effect, eliminates squeaking and creaking

Temperature resistance -30 to +60 °C

Application range

for industry and automotive use

Contents	Container	Order no.
400 ml	Spray can	9230 000 110



Rim cleaner

gently removes dirt such as brake pad dust, grey film, tar, oil and road dirt, suitable for alloy wheel rims, protects plastics, seals and rubber, scented, biodegradable

Colour yellow/green

pH in concentrate / DIN 51 369: 1.5 +/- 0.2

Application range

for cleaning stubborn soiling off all painted and non-painted alloy rims as well as steel rims

Warning: It may cause permanent stains on unpainted plastic parts. Rinse immediately with water if the wheel rim cleaner comes into contact with these areas.

Contents	Container	Order no.
500 ml	Spray bottle	9909 894 501
5 l	Canister	9909 894 502
25 l	Canister	9909 894 503
60 l	Barrel	9909 894 504



Spray cleaner

for cleaning and degreasing sliding surfaces and parts made of non-absorbant materials such as metals, ceramic, glass or many plastics and elastomers, all adhesive surfaces for coatings, varnishes or adhesives and sealing materials, all friction surfaces, brake pads, removal of old and resinified oil and grease residue, removal of residue of single-layer painting, before lubricant use

Application range

material surfaces in industry, trade, the workshop etc.

Be careful: Some types of plastic and rubber (e.g. thermoplastics such as PVC, plexiglass, polystyrene etc.) and paints can become etched Check for material compatibility before use!

Contents	Container	Order no.
500 ml	Spray can	9230 000 415



Rim brush

Material PP
Colour black
Length 320 mm
Width 65 mm
Height 65 mm



Order no.
9507 910 000

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