

Wheels and castors guide

Blickle wheel series

Wheels for light-duty and transport equipment castors



| Series | TPA | VPA | POES | ALES |
|--|--|--|---|--|
| Wheel Ø | 50–200 mm | 50–150 mm | 80–200 mm | 150–250 mm |
| Load capacity | 50–250 kg | 40–130 kg | 110–350 kg | 280–440 kg |
| Tread / tyre | high-quality thermoplastic rubber-elastomer (TPE), colour grey (see page 52 for a material description) | high-quality solid rubber, colour grey (see page 52 for a material description) | high-quality elastic solid rubber "Blickle SoftMotion", colour grey (see page 53 for a material description) | high-quality elastic solid rubber "Blickle SoftMotion", colour grey (see page 53 for a material description) |
| Wheel centre / rim | high-quality polypropylene, impact resistant, colour silver grey ("ELS" version colour black) | high-quality nylon 6 or polypropylene in the version "-EL", impact resistant, colour black | high-quality nylon 6, impact resistant, colour black | die-cast aluminium, colour silver grey |
| Connection tread / tyre with wheel centre / rim | chemically bonded | pressed-on tyre | vulcanised tyre | vulcanised tyre |
| Tread & tyre hardness | 85 Shore A | 80 Shore A | 55 Shore A | 55 Shore A |
| Floor preservation / smooth operation | good | very good | excellent | excellent |
| Rolling resistance | very good | good | very good | very good |
| Wear resistance | satisfactory | sufficient | good | good |
| Non-marking | ✓ | ✓ | ✓ | ✓ |
| Temperature resistance | -20 °C to +60 °C | -20 °C to +60 °C | -20 °C to +80 °C temporarily up to +100 °C | -20 °C to +80 °C temporarily up to +100 °C |
| Bearing types (refer to page 84–85) | plain bore, roller bearing, ball bearing (C) | plain bore, ball bearing | ball bearing (C), ball bearing (CC) | ball bearing |
| Options | <ul style="list-style-type: none"> electrically conductive, non-marking, grey (-ELS) thread guard with ball bearing seal (-KFD) stainless steel roller bearing (-XR) | <ul style="list-style-type: none"> electrically conductive, black tyre, marking (-EL) thread guard (-FA) | <ul style="list-style-type: none"> thread guard with ball bearing seal (-KAD / -KFD) stainless steel ball bearing and thread guard (-XKA / -XKF) | |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +30 °C wheels with ball bearing (C) with integrated synthetic thread guard as standard oil containing, staining possible | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +30 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C wheels with ball bearing (C) and ball bearing (CC) with integrated synthetic thread guard as standard | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +60 °C |
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| Series | PATH | POA | VPP | VE |
|--|---|--|--|---|
| Wheel Ø | 50–200 mm | 35–150 mm | 80–400 mm | 80–200 mm |
| Load capacity | 75–500 kg | 75–280 kg | 50–350 kg | 50–205 kg |
| Tread / tyre | high-quality thermoplastic polyurethane (TPU), colour dark grey (see page 55 for a material description) | high-quality nylon 6, impact resistant, colour black (see page 57 for a material description) | standard solid rubber, colour black (see page 52 for a material description) | standard solid rubber, colour black (see page 52 for a material description) |
| Wheel centre / rim | high-quality nylon 6, impact resistant, colour silver grey | high-quality nylon 6, impact resistant, colour black | high-quality polypropylene, impact resistant, colour black | pressed steel, zinc-plated, blue-passivated, Cr6-free |
| Connection tread / tyre with wheel centre / rim | chemically bonded | | pressed-on tyre | tyre pressed with rim |
| Tread & tyre hardness | 94 Shore A | 70 Shore D | 80 Shore A | 80 Shore A |
| Floor preservation / smooth operation | good | satisfactory | very good | very good |
| Rolling resistance | very good | excellent | satisfactory | satisfactory |
| Wear resistance | very good | good | sufficient | sufficient |
| Non-marking | ✓ | ✓ | optional | optional |
| Temperature resistance | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +80 °C | -20 °C to +60 °C | -25 °C to +80 °C |
| Bearing types (refer to page 84–85) | plain bore, roller bearing, ball bearing (C) | plain bore, ball bearing (C) | plain bore, roller bearing, ball bearing | roller bearing |
| Options | <ul style="list-style-type: none"> electrically conductive, non-marking, grey (-ELS) thread guard with ball bearing seal (-KAD / -KFD) | | <ul style="list-style-type: none"> non-marking, grey tyre (-SG) stainless steel roller bearing (-XR) STARLOCK® cap made from stainless steel (ST-KA...) thread guard (-FA) | <ul style="list-style-type: none"> non-marking, grey tyre (-SG) electrically conductive (-EL) thread guard (-FA) |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C wheels with ball bearing (C) with integrated synthetic thread guard as standard | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +30 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +60 °C |
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Wheels for transport equipment and heavy-duty castors



| Series | V | VWPP | VW | RD |
|--|---|--|---|---|
| Wheel Ø | 80–400 mm | 125–260 mm | 125–260 mm | 100–280 mm |
| Load capacity | 50–800 kg | 50–200 kg | 50–200 kg | 100–650 kg |
| Tread / tyre | standard solid rubber, colour black (see page 52 for a material description) | soft rubber “Blickle Soft”, round profile, colour black, wheel Ø 260 mm with additional hard rubber core (see page 52 for a material description) | soft rubber “Blickle Soft”, round profile, colour black, wheel Ø 260 mm with additional hard rubber core (see page 52 for a material description) | two-component solid rubber “Blickle Comfort”, hard rubber core and highly elastic tread, colour black (see page 53 for a material description) |
| Wheel centre / rim | pressed steel, strong rim structure with tubular steel hub, bolted or pressed, zinc-plated, blue-passivated, Cr6-free | high-quality polypropylene, impact resistant, colour black | pressed steel, strong rim structure with tubular steel hub, bolted or pressed, zinc-plated, blue-passivated, Cr6-free | pressed steel, strong rim structure with tubular steel hub, bolted or pressed, zinc-plated, blue-passivated, Cr6-free |
| Connection tread / tyre with wheel centre / rim | tyre pressed with rim | pressed-on tyre | tyre pressed with rim | tyre pressed with rim |
| Tread & tyre hardness | 80 Shore A | 50 Shore A | 50 Shore A | 65 Shore A |
| Floor preservation / smooth operation | very good | excellent | excellent | very good |
| Rolling resistance | satisfactory | good | good | good |
| Wear resistance | sufficient | satisfactory | satisfactory | satisfactory |
| Non-marking | optional | optional | optional | optional |
| Temperature resistance | -20 °C to +80 °C | -20 °C to +60 °C | -20 °C to +80 °C | -20 °C to +80 °C |
| Bearing types (refer to page 84–85) | plain bore, roller bearing, ball bearing | plain bore, roller bearing, ball bearing | roller bearing, ball bearing | roller bearing, ball bearing |
| Options | <ul style="list-style-type: none"> • non-marking, grey tyre (-SG) • electrically conductive (-EL) • thread guard (-FA) | <ul style="list-style-type: none"> • non-marking, grey tyre (-SG) • stainless steel roller bearing (-XR) • thread guard (-FA) | <ul style="list-style-type: none"> • non-marking, grey tyre (-SG) • thread guard (-FA) | <ul style="list-style-type: none"> • non-marking, grey tyre, 56 Shore A (-VLI) • thread guard (-FA) |
| Additional considerations | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +60 °C • centrally-pressed rim: special impact and shock-resistant design • award-winning design (“Die gute Industrieform”) | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +30 °C | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +60 °C • centrally-pressed rim: special impact and shock-resistant design • award-winning design (“Die gute Industrieform”) | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +60 °C • centrally-pressed rim: special impact and shock-resistant design • award-winning design (“Die gute Industrieform”) |
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| Series | POEV | ALEV | SE | GEV |
|--|---|---|--|---|
| Wheel Ø | 60–300 mm | 100–250 mm | 80–415 mm | 250–620 mm |
| Load capacity | 120–650 kg | 200–650 kg | 200–1,150 kg | 870–4,540 kg |
| Tread / tyre | high-quality elastic solid rubber "Blickle EasyRoll" in smooth rolling quality, colour black (see page 53 for a material description) | high-quality elastic solid rubber "Blickle EasyRoll" in smooth rolling quality, colour black (see page 53 for a material description) | high-quality elastic solid rubber "Blickle EasyRoll" in smooth rolling quality, colour black (see page 53 for a material description) | high-quality elastic solid rubber in smooth rolling quality, colour black (see page 53 for a material description) |
| Wheel centre / rim | high-quality nylon 6, impact resistant, colour black | die-cast aluminium, colour silver grey | thick-walled pressed steel, with tubular steel hub, triple welded, lacquered, colour anthracite (version -SG: lacquered, silver colour) wheel Ø 80–125 mm made from high-quality nylon 6, impact resistant, colour black | rugged grey cast iron, with grease nipple, lacquered, colour anthracite |
| Connection tread / tyre with wheel centre / rim | vulcanised tyre | vulcanised tyre | vulcanised or steel-wire reinforced tyre, pressed-on | steel-wire reinforced tyre, pressed-on |
| Tread & tyre hardness | 65 Shore A | 65 Shore A | 65 Shore A | 65 Shore A |
| Floor preservation / smooth operation | very good | very good | very good | very good |
| Rolling resistance | very good | very good | very good | very good |
| Wear resistance | good | good | good | good |
| Non-marking | optional | optional | optional | optional |
| Temperature resistance | -20 °C to +80 °C temporarily up to +100 °C | -20 °C to +80 °C temporarily up to +100 °C | -20 °C to +80 °C temporarily up to +100 °C | -20 °C to +80 °C temporarily up to +100 °C |
| Bearing types (refer to page 84–85) | plain bore, roller bearing, ball bearing (C), ball bearing (CC), ball bearing | ball bearing | ball bearing | ball bearing |
| Options | <ul style="list-style-type: none"> • non-marking, grey tyre (-SG) • non-marking, blue tyre (-SB) • electrically conductive (-EL) • stainless steel roller bearing (-XR) • thread guard with ball bearing seal (-KAD / -KFD) • stainless steel ball bearing and thread guard (-XKA / -XKF) • thread guard (-FA) | <ul style="list-style-type: none"> • non-marking, grey tyre (-SG) • antistatic, non-marking, grey tyre (-SG-AS) • electrically conductive (-EL) | <ul style="list-style-type: none"> • non-marking, grey tyre (-SG) • grease nipple (-NI) | <ul style="list-style-type: none"> • non-marking, natural colour tyre (-SN) • hub cap for use as end wheel (-E) • drive wheel with hub keyway (see series GEVN) • hub fitting wheel (see series GEVA) (see series GEVA) |
| Additional considerations | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +35 °C • electrically conductive version (-EL) with increased rolling resistance • wheels with ball bearing (C) and ball bearing (CC) with integrated synthetic thread guard as standard | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +60 °C • electrically conductive version (-EL) with increased rolling resistance • speeds up to a maximum of 10 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +60 °C • wheel centre particularly resistant to dirt, impact and shocks • speeds up to a maximum of 10 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +60 °C • wheel centre is approximately 4 mm wider than the specified wheel width • speeds up to a maximum of 16 km/h are permitted with a reduced load capacity |
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| Series | DS | PK | P | PS |
|--|---|--|---|--|
| Wheel Ø | 300–500 mm | 200–400 mm | 180–415 mm | 300–536 mm |
| Load capacity | 1,800–4,580 kg | 75–250 kg | 50–525 kg | 450–1,300 kg |
| Tread / tyre | high-quality elastic solid rubber in smooth rolling quality, colour black (see page 53 for a material description) | pneumatic tyre, ribbed or zig-zag profile, 2-ply rating, colour black (see page 54 for a material description) | pneumatic tyre, ribbed or zig-zag profile, 2 or 4 ply rating, colour black (see page 54 for a material description) | pneumatic tyre, zig-zag profile, 6, 8 or 10 ply rating, colour black (see page 54 for a material description) |
| Wheel centre / rim | very strong welded steel construction, with tubular steel hub, with grease nipple, lacquered, colour anthracite | high-quality polypropylene, impact resistant, colour black | pressed steel, bolted (flat base rim) or triple welded drop base rim, zinc-plated, blue-passivated, Cr6-free or lacquered, colour silver | heavy pressed steel, bolted (flat base rim), with welded tubular steel hub, zinc-plated, blue-passivated, Cr6-free |
| Connection tread / tyre with wheel centre / rim | steel-wire reinforced tyre, pressed-on | tyre mounted on rim | tyre mounted on rim | tyre mounted on rim |
| Tread & tyre hardness | 65 Shore A | 60 Shore A | 60 Shore A | 60 Shore A |
| Floor preservation / smooth operation | very good | excellent | excellent | excellent |
| Rolling resistance | very good | good | good | good |
| Wear resistance | good | satisfactory | satisfactory | satisfactory |
| Non-marking | – | – | optional | – |
| Temperature resistance | -20 °C to +80 °C temporarily up to +100 °C | -20 °C to +40 °C | -20 °C to +50 °C | -20 °C to +50 °C |
| Bearing types (refer to page 84–85) | ball bearing | plain bore, roller bearing, ball bearing | plain bore, roller bearing, ball bearing | ball bearing |
| Options | <ul style="list-style-type: none"> hub cap for use as end wheel (-E) drive wheel with hub keyway (see series DSN) | <ul style="list-style-type: none"> rim colour red (-ROT) puncture-proof soft rubber wheel (see series VWPP) | <ul style="list-style-type: none"> non-marking, grey tyre (-SG) puncture-proof foam-filled tyre (-AG), slightly reduced compression and operational comfort hub cap for use as end wheel (-E) puncture-proof soft rubber wheel (see series VW) hub fitting wheel (see series PA) | <ul style="list-style-type: none"> hub cap for use as end wheel (-E) |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +60 °C wheel centre is approximately 4 mm wider than the specified wheel width speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +30 °C wheel width and diameter can change during operation | <ul style="list-style-type: none"> speeds up to a maximum of 16 km/h are permitted with a reduced load capacity wheel width and diameter can change during operation | <ul style="list-style-type: none"> speeds up to a maximum of 25 km/h are permitted with a reduced load capacity wheel width and diameter can change during operation |
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| Series | VLE | POTH | POTHs | ALTH |
|--|---|--|--|--|
| Wheel Ø | 250–525 mm | 75–250 mm | 100–200 mm | 80–250 mm |
| Load capacity | 450–1,885 kg | 200–1,000 kg | 200–550 kg | 200–1,250 kg |
| Tread / tyre | super-elastic solid rubber, 2-component or 3-component tyres, tough rubber core, highly elastic, abrasion-resistant tread, colour black (see page 54 for a material description) | high-quality thermoplastic polyurethane (TPU), colour dark grey (see page 55 for a material description) | high-quality thermoplastic polyurethane (TPU), colour blue (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) |
| Wheel centre / rim | heavy pressed steel, bolted, with welded tubular steel hub or reinforced rim version, zinc-plated, blue-passivated, Cr6-free | high-quality nylon 6, impact resistant, colour natural white | high-quality nylon 6, impact resistant, colour natural white | die-cast aluminium, colour silver grey |
| Connection tread / tyre with wheel centre / rim | steel-wire reinforced tyre, mounted on rim | chemically bonded | chemically bonded | cast tread |
| Tread & tyre hardness | 70 Shore A | 94 Shore A | 80 Shore A | 92 Shore A |
| Floor preservation / smooth operation | very good | good | very good | good |
| Rolling resistance | good | very good | very good | very good |
| Wear resistance | good | very good | good | excellent |
| Non-marking | optional | ✓ | ✓ | ✓ |
| Temperature resistance | -20 °C to +80 °C temporarily up to +100 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | ball bearing | plain bore, roller bearing, ball bearing (C), ball bearing | plain bore, roller bearing, ball bearing (C), ball bearing | ball bearing |
| Options | <ul style="list-style-type: none"> • non-marking, grey tyre (-SG) • antistatic, black tyre (-AS) • hub cap for use as end wheel (-E) • hub fitting wheel (see series VLEA) (see series VLEA) | <ul style="list-style-type: none"> • stainless steel roller bearing (-XR) • stainless steel ball bearing (-XK) • stainless steel ball bearing and thread guard (-XKA) • thread guard with ball bearing seal (-KAD) • thread guard (-FA) | <ul style="list-style-type: none"> • stainless steel roller bearing (-XR) • stainless steel ball bearing (-XK) • stainless steel ball bearing and thread guard (-XKA) • thread guard (-FA) | <ul style="list-style-type: none"> • extremely crowned tread (-CO) • antistatic, non-marking, grey (-AS) |
| Additional considerations | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +60 °C • wheel width and diameter can change during operation • speeds up to a maximum of 25 km/h are permitted with a reduced load capacity • puncture-proof and maintenance-free | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +35 °C • wheels with ball bearing (C) with integrated synthetic thread guard as standard | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +35 °C • wheels with ball bearing (C) with integrated synthetic thread guard as standard | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +40 °C • speeds up to a maximum of 10 km/h are permitted with a reduced load capacity |
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Wheels for transport equipment and heavy-duty castors



| Series | SETH | VSTH | GTH | ALST |
|--|--|--|--|--|
| Wheel Ø | 125–250 mm | 35–125 mm | 100–1,000 mm | 80–300 mm |
| Load capacity | 500–1,350 kg | 100–540 kg | 450–30,000 kg | 200–1,150 kg |
| Tread / tyre | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Softthane®, colour green (see page 55 for a material description) |
| Wheel centre / rim | thick-walled pressed steel, triple welded, with tubular steel hub, lacquered, colour silver | steel | rugged grey cast iron, with grease nipple from wheel Ø 150 mm, lacquered, colour silver | die-cast aluminium, colour silver grey |
| Connection tread / tyre with wheel centre / rim | cast tread | cast tread | cast tread | cast tread |
| Tread & tyre hardness | 92 Shore A | 92 Shore A | 92 Shore A | 75 Shore A |
| Floor preservation / smooth operation | good | good | good | very good |
| Rolling resistance | very good | very good | very good | very good |
| Wear resistance | excellent | excellent | excellent | very good |
| Non-marking | ✓ | ✓ | ✓ | ✓ |
| Temperature resistance | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | ball bearing | ball bearing | ball bearing, spherical roller bearing | ball bearing |
| Options | <ul style="list-style-type: none"> grease nipple (-NI) | | <ul style="list-style-type: none"> antistatic, non-marking, grey (-AS) drive wheel with hub keyway (see series GTHN) | <ul style="list-style-type: none"> antistatic, non-marking, grey (-AS) extremely crowned tread (-CO) |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C wheel centre particularly resistant to dirt, impact and shocks speeds up to a maximum of 10 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 10 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 10 km/h are permitted with a reduced load capacity |
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| Series | GST | ALB | VSB | GB |
|--|--|--|--|--|
| Wheel Ø | 125–400 mm | 100–250 mm | 80 mm | 100–1,000 mm |
| Load capacity | 450–3,000 kg | 400–1,250 kg | 500 kg | 450–30,000 kg |
| Tread / tyre | high-quality polyurethane elastomer Blickle Softhane®, colour green (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Besthane®, colour brown (see page 56 for a material description) | high-quality polyurethane elastomer Blickle Besthane®, colour brown (see page 56 for a material description) | high-quality polyurethane elastomer Blickle Besthane®, colour brown (see page 56 for a material description) |
| Wheel centre / rim | rugged grey cast iron, with grease nipple from wheel Ø 160 mm, lacquered, colour silver | die-cast aluminium, colour silver grey | steel | rugged grey cast iron, with grease nipple from wheel Ø 150 mm, lacquered, colour silver |
| Connection tread / tyre with wheel centre / rim | cast tread | cast tread | cast tread | cast tread |
| Tread & tyre hardness | 75 Shore A | 92 Shore A | 92 Shore A | 92 Shore A |
| Floor preservation / smooth operation | very good | good | good | good |
| Rolling resistance | very good | excellent | excellent | excellent |
| Wear resistance | very good | excellent | excellent | excellent |
| Non-marking | ✓ | ✓ | ✓ | ✓ |
| Temperature resistance | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | ball bearing | ball bearing | ball bearing | ball bearing, spherical roller bearing |
| Options | <ul style="list-style-type: none"> • antistatic, non-marking, grey (-AS) • drive wheel with hub keyway (see series GSTN) • hub fitting wheel (see series GSTA) | | | <ul style="list-style-type: none"> • electrically conductive, non-marking (-ELS) • cast nylon wheel centre, hydrolysis resistant, (see series GSPOB) • drive wheel with hub keyway (see series GBN) • hub fitting wheel (see series GBA) |
| Additional considerations | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +40 °C • speeds up to a maximum of 10 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +40 °C • speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +40 °C | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +40 °C • speeds up to a maximum of 16 km/h are permitted with a reduced load capacity |
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| Series | POBS | ALBS | GVU | PPN |
|--|---|--|--|--|
| Wheel Ø | 80–200 mm | 80–300 mm | 100–400 mm | 60–200 mm |
| Load capacity | 140–500 kg | 200–1,150 kg | 450–3,000 kg | 80–450 kg |
| Tread / tyre | high-quality polyurethane elastomer Blickle Besthane® Soft, colour blue (see page 56 for a material description) | high-quality polyurethane elastomer Blickle Besthane® Soft, colour blue (see page 56 for a material description) | high-quality polyurethane elastomer Vulkollan®, colour natural (see page 56 for a material description) | high-quality polypropylene, impact resistant, colour natural white (see page 57 for a material description) |
| Wheel centre / rim | high-quality nylon 6, impact resistant, colour black | die-cast aluminium, colour silver grey | rugged grey cast iron, with grease nipple from wheel Ø 150 mm, lacquered, colour silver | high-quality polypropylene, impact resistant, colour natural white |
| Connection tread / tyre with wheel centre / rim | cast tread | cast tread | cast tread | |
| Tread & tyre hardness | 75 Shore A | 75 Shore A | 92 Shore A | 60 Shore D |
| Floor preservation / smooth operation | very good | very good | good | satisfactory |
| Rolling resistance | excellent | excellent | very good | very good |
| Wear resistance | very good | very good | excellent | satisfactory |
| Non-marking | ✓ | ✓ | ✓ | ✓ |
| Temperature resistance | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +60 °C |
| Bearing types (refer to page 84–85) | ball bearing (C), ball bearing (CC) | ball bearing | ball bearing | plain bore, roller bearing |
| Options | | <ul style="list-style-type: none"> nylon wheel centre, hydrolysis resistant, (see series POBS) extremely crowned tread (-CO) | <ul style="list-style-type: none"> drive wheel with hub keyway (see series GVUN) hub fitting wheel (see series GVUA) | <ul style="list-style-type: none"> stainless steel roller bearing (-XR) electrically conductive (PP-EL series) thread guard (-FA) colour black (see PP series) |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C wheels with ball bearing (C) and ball bearing (CC) with integrated synthetic thread guard as standard | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +30 °C |
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| Series | PP | POW | PO | SPO |
|--|---|--|--|---|
| Wheel Ø | 60–200 mm | 100–125 mm | 50–300 mm | 75–250 mm |
| Load capacity | 80–450 kg | 200–220 kg | 75–1,500 kg | 300–2,000 kg |
| Tread / tyre | high-quality polypropylene, impact resistant, colour black (see page 57 for a material description) | high-quality nylon 6, impact resistant, colour white (see page 57 for a material description) | high-quality nylon 6, impact resistant, colour natural white (see page 57 for a material description) | high-quality nylon 6, impact resistant, extremely robust heavy-duty version, colour natural white (see page 57 for a material description) |
| Wheel centre / rim | high-quality polypropylene, impact resistant, colour black | high-quality nylon 6, impact resistant, colour white highly elastic cushion layer made from elastic solid rubber, colour red | high-quality nylon 6, impact resistant, colour natural white | high-quality nylon 6, impact resistant, colour natural white |
| Connection tread / tyre with wheel centre / rim | | highly elastic encapsulated cushion layer | | |
| Tread & tyre hardness | 60 Shore D | 70 Shore D | 70 Shore D | 70 Shore D |
| Floor preservation / smooth operation | satisfactory | satisfactory | satisfactory | satisfactory |
| Rolling resistance | very good | very good | excellent | excellent |
| Wear resistance | satisfactory | good | good | good |
| Non-marking | ✓ | ✓ | ✓ | ✓ |
| Temperature resistance | -20 °C to +60 °C | -20 °C to +80 °C | -20 °C to +80 °C | -20 °C to +80 °C |
| Bearing types (refer to page 84–85) | plain bore, roller bearing, ball bearing (C), ball bearing | ball bearing (C) | plain bore, roller bearing, ball bearing (C), ball bearing | plain bore, ball bearing |
| Options | <ul style="list-style-type: none"> electrically conductive, black (-EL) stainless steel roller bearing (-XR) thread guard (-FA) colour natural white (see PPN series) | <ul style="list-style-type: none"> thread guard with ball bearing seal (-KFD) | <ul style="list-style-type: none"> electrically conductive, non-marking, grey (-ELS) stainless steel roller bearing (-XR) stainless steel ball bearing (-XK) stainless steel ball bearing and thread guard (-XKA) grease nipple (-NI) colour blue, non-marking (C5017) thread guard (-FA) | <ul style="list-style-type: none"> stainless steel ball bearing (-XK) grease nipple (-NI) thread guard (-FA) |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +30 °C wheels with ball bearing (C) with integrated synthetic thread guard as standard | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C good noise absorption, absorbs impact and shocks with integrated synthetic thread guard as standard sandwich wheel | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C wheels with ball bearing (C) with integrated synthetic thread guard as standard | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C |
| Page | 336, 434 | 340 | 343–344, 435, 567 | 355–356 |

Wheels and castors guide

Blickle wheel series

Wheels for heavy-duty castors / heat-resistant wheels



| Series | GSP0 | G | SVS | VEHI |
|--|--|---|--|---|
| Wheel Ø | 35–1,000 mm | 80–250 mm | 65–300 mm | 100–200 mm |
| Load capacity | 100–50,000 kg | 250–1,400 kg | 750–15,000 kg | 65–180 kg |
| Tread / tyre | high-quality cast nylon, impact resistant, colour natural beige (see page 57 for a material description) | rugged grey cast iron, lacquered, colour silver (see page 59 for a material description) | heat-treatable steel, lightly-oiled surface (see page 59 for a material description) | highly heat-resistant solid rubber Blickle TempLine® Basic, colour black (see page 52 for a material description) |
| Wheel centre / rim | high-quality cast nylon, impact resistant, colour natural beige | rugged grey cast iron, with grease nipple | heat-treatable steel | pressed steel, zinc-plated, blue-passivated, Cr6-free |
| Connection tread / tyre with wheel centre / rim | | | | tyre pressed with rim |
| Tread & tyre hardness | ■ ■ ■ ■ ■ ■ ■ ■ 80 Shore D | ■ ■ ■ ■ ■ ■ ■ ■ 180–220 HB | ■ ■ ■ ■ ■ ■ ■ ■ 190–230 HB | ■ ■ ■ ■ ■ ■ ■ ■ 80 Shore A |
| Floor preservation / smooth operation | ■ ■ ■ ■ ■ ■ ■ ■ satisfactory | ■ ■ ■ ■ ■ ■ ■ ■ sufficient | ■ ■ ■ ■ ■ ■ ■ ■ sufficient | ■ ■ ■ ■ ■ ■ ■ ■ very good |
| Rolling resistance | ■ ■ ■ ■ ■ ■ ■ ■ excellent | ■ ■ ■ ■ ■ ■ ■ ■ excellent | ■ ■ ■ ■ ■ ■ ■ ■ excellent | ■ ■ ■ ■ ■ ■ ■ ■ satisfactory |
| Wear resistance | ■ ■ ■ ■ ■ ■ ■ ■ very good | ■ ■ ■ ■ ■ ■ ■ ■ excellent | ■ ■ ■ ■ ■ ■ ■ ■ excellent | ■ ■ ■ ■ ■ ■ ■ ■ sufficient |
| Non-marking | ✓ | – | ✓ | – |
| Temperature resistance | -20 °C to +80 °C | -100 °C to +600 °C | -20 °C to +120 °C | -25 °C to +200 °C |
| Bearing types (refer to page 84–85) | ball bearing, spherical roller bearing | plain bore, ball bearing | ball bearing | roller bearing |
| Options | <ul style="list-style-type: none"> plain bore for static loads or very low speeds stainless steel ball bearing (-XK) spherical roller bearing (-PR) for applications requiring extensive travel | <ul style="list-style-type: none"> heat-resistant ball bearing (oven bearing, -IK) | <ul style="list-style-type: none"> spherical roller bearing (-PR) for applications requiring extensive travel | |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C | <ul style="list-style-type: none"> plain bore: provide adequate lubrication on a regular basis the primary purpose of coating is to protect the wheel during transport and storage. Coating remains resistant up to +120 °C | | <ul style="list-style-type: none"> majority of tyre flattening recovers when in motion under load passivation may be altered slightly in high temperatures, corrosion protection will remain unaffected |
| Page | 368 | 376, 436, 468 | 382, 437 | 442 |

Wheels and castors guide

Blickle wheel series

Heat-resistant wheels



| Series | VKHT | POSI | ALSI | POH |
|--|---|--|--|---|
| Wheel Ø | 100 mm | 100–125 mm | 100 mm | 80–200 mm |
| Load capacity | 100 kg | 80–120 kg | 100 kg | 215–720 kg |
| Tread / tyre | highly heat-resistant solid rubber Blickle TempLine® Special, colour black (see page 52 for a material description) | highly heat-resistant silicone rubber Blickle TempLine® Comfort, colour black (see page 53 for a material description) | highly heat-resistant silicone rubber Blickle TempLine® Comfort, colour black (see page 53 for a material description) | highly heat-resistant nylon Blickle TempLine® PerformanceLight, impact resistant, colour natural (see page 57 for a material description) |
| Wheel centre / rim | highly heat-resistant nylon 6, impact resistant, colour black | highly heat-resistant thermoplastic, impact resistant, colour dark grey | die-cast aluminium, colour silver grey | highly heat-resistant Blickle TempLine® PerformanceLight nylon, impact resistant, colour natural |
| Connection tread / tyre with wheel centre / rim | pressed-on tyre | vulcanised tyre | vulcanised tyre | |
| Tread & tyre hardness | 85 Shore A | 75 Shore A | 75 Shore A | 85 Shore D |
| Floor preservation / smooth operation | good | very good | very good | satisfactory |
| Rolling resistance | satisfactory | good | good | excellent |
| Wear resistance | satisfactory | satisfactory | satisfactory | good |
| Non-marking | – | ✓ | ✓ | ✓ |
| Temperature resistance | -30 °C to +260 °C | -20 °C to +250 °C | -25 °C to +250 °C | -25 °C to +170 °C |
| Bearing types (refer to page 84–85) | plain bore | plain bore | plain bore, ball bearing | plain bore, ball bearing |
| Options | <ul style="list-style-type: none"> PTFE coated stainless steel axle tube (-XAT) | <ul style="list-style-type: none"> non-marking, grey tyre (-SG) PTFE coated stainless steel axle tube (-XAT) | <ul style="list-style-type: none"> PTFE coated stainless steel axle tube (-XAT) | <ul style="list-style-type: none"> PTFE coated stainless steel axle tube (-XAT) stainless steel ball bearing with heat-resistant special grease (-HXK) heavy-duty wheel centre for higher loads (series SPOH) |
| Additional considerations | <ul style="list-style-type: none"> oven temperature temporarily up to +300 °C, wheel temperature must not exceed +260 °C tyre flattening recovers when in motion under load | <ul style="list-style-type: none"> oven temperature temporarily up to +300 °C, wheel temperature must not exceed +250 °C suitable for autoclaves | <ul style="list-style-type: none"> oven temperature temporarily up to +300 °C, wheel temperature must not exceed +250 °C ball bearing with heat-resistant special grease (HK) and ball bearing cover (HKA) | <ul style="list-style-type: none"> oven temperature temporarily up to +200 °C, wheel temperature must not exceed +170 °C suitable for autoclaves (plain bore version and version with stainless steel ball bearing with heat-resistant special grease (-HXK)) long-term use in high temperatures may cause the colour to change, but will not affect load capacity |
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Wheels and castors guide

Blickle wheel series

Heat-resistant wheels / guide rollers



| Series | POHI | PHN | FPU | FPTH |
|--|--|--|---|--|
| Wheel Ø | 80–200 mm | 80–200 mm | 25–60 mm | 60–125 mm |
| Load capacity | 180–600 kg | 100–500 kg | 15–100 kg | 110–290 kg |
| Tread / tyre | highly heat-resistant thermoplastic Blickle TempLine® Performance, impact resistant, colour dark grey (see page 57 for a material description) | phenolic resin Blickle TempLine® Classic, impact resistant, colour black (see page 58 for a material description) | high-quality thermoplastic polyurethane (TPU), colour brown (see page 55 for a material description) | high-quality thermoplastic polyurethane (TPU), colour dark grey (see page 55 for a material description) |
| Wheel centre / rim | highly heat-resistant thermoplastic, impact resistant, colour dark grey | Blickle TempLine® Classic phenolic resin, impact resistant, colour black | | high-quality nylon 6, impact resistant, colour silver grey |
| Connection tread / tyre with wheel centre / rim | | | tread directly injected onto the ball bearing | chemically bonded |
| Tread & tyre hardness | 85 Shore D | 90 Shore D | 98 Shore A | 92 Shore A |
| Floor preservation / smooth operation | satisfactory | satisfactory | good | good |
| Rolling resistance | excellent | excellent | very good | very good |
| Wear resistance | satisfactory | sufficient | very good | very good |
| Non-marking | ✓ | – | ✓ | ✓ |
| Temperature resistance | -25 °C to +250 °C | -35 °C to +260 °C temporarily up to +300 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | plain bore, ball bearing | plain bore, ball bearing | ball bearing | ball bearing |
| Options | <ul style="list-style-type: none"> PTFE coated stainless steel axle tube (-XAT) stainless steel ball bearing with heat-resistant special grease (-HXK) | <ul style="list-style-type: none"> PTFE coated stainless steel axle tube (-XAT) | <ul style="list-style-type: none"> electrically conductive, non-marking (-ELS) stainless steel ball bearing (-XK) | <ul style="list-style-type: none"> electrically conductive, non-marking (-ELS) stainless steel ball bearing (-XK) |
| Additional considerations | <ul style="list-style-type: none"> suitable for autoclaves (plain bore version and version with stainless steel ball bearing with heat-resistant special grease (-HXK)) | <ul style="list-style-type: none"> wheels are only conditionally suitable for uneven floors and crossing thresholds | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C hydrolysis resistant |
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Wheels and castors guide

Blickle wheel series

Guide rollers



| Series | FTH | FSTH | FPOB | FSVU |
|--|--|---|--|--|
| Wheel Ø | 30–75 mm | 40–125 mm | 80–125 mm | 40–100 mm |
| Load capacity | 25–150 kg | 60–375 kg | 160–375 kg | 70–250 kg |
| Tread / tyre | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Besthane®, colour brown (see page 56 for a material description) | high-quality polyurethane elastomer Vulkollan®, colour natural (see page 56 for a material description) |
| Wheel centre / rim | | steel | high-quality nylon 6, impact resistant, colour black | steel |
| Connection tread / tyre with wheel centre / rim | tread directly casted onto the ball bearing | cast tread | cast tread | cast tread |
| Tread & tyre hardness | 92 Shore A | 92 Shore A | 92 Shore A | 92 Shore A |
| Floor preservation / smooth operation | good | good | good | good |
| Rolling resistance | very good | very good | excellent | very good |
| Wear resistance | excellent | excellent | excellent | excellent |
| Non-marking | ✓ | ✓ | ✓ | ✓ |
| Temperature resistance | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C | -20 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | ball bearing | ball bearing | ball bearing | ball bearing |
| Options | <ul style="list-style-type: none"> stainless steel ball bearing (-XK) | <ul style="list-style-type: none"> antistatic, non-marking, grey (-AS) with aluminium wheel centre (series FALTH) | <ul style="list-style-type: none"> stainless steel ball bearing (-XK) | <ul style="list-style-type: none"> stainless steel ball bearing (-XK) |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C speeds up to a maximum of 10 km/h are permitted with a reduced load capacity hydrolysis resistant | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 10 km/h are permitted with a reduced load capacity |
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Wheels and castors guide

Blickle wheel series

Guide rollers / flanged wheels



| Series | FPO | SPKGSP0 | SPK | SPKVS |
|--|---|--|---|--|
| Wheel Ø | 25–125 mm | 50–250 mm | 50–250 mm | 50–400 mm |
| Load capacity | 40–530 kg | 220–3,000 kg | 400–3,500 kg | 500–9,000 kg |
| Tread / tyre | high-quality nylon 6, impact resistant, colour natural white (see page 57 for a material description) | high-quality cast nylon, impact resistant, colour natural beige (see page 57 for a material description) | rugged grey cast iron, colour silver (see page 59 for a material description) | heat-treatable steel, lightly-oiled surface (see page 59 for a material description) |
| Wheel centre / rim | | high-quality cast nylon, impact resistant, colour natural beige | rugged grey cast iron, with grease nipple from wheel Ø 125 mm | heat-treatable steel |
| Connection tread / tyre with wheel centre / rim | tread directly injected onto the ball bearing | | | |
| Tread & tyre hardness | 70 Shore D | 80 Shore D | 180–220 HB | 190–230 HB |
| Floor preservation / smooth operation | satisfactory | satisfactory | sufficient | sufficient |
| Rolling resistance | excellent | excellent | excellent | excellent |
| Wear resistance | good | very good | excellent | excellent |
| Non-marking | ✓ | ✓ | – | ✓ |
| Temperature resistance | -20 °C to +80 °C | -20 °C to +80 °C | -100 °C to +600 °C | -20 °C to +120 °C |
| Bearing types (refer to page 84–85) | ball bearing | plain bore, ball bearing | plain bore, ball bearing | ball bearing |
| Options | <ul style="list-style-type: none"> electrically conductive, non-marking, grey (-ELS) stainless steel ball bearing (-XK) | <ul style="list-style-type: none"> stainless steel ball bearing (-XK) drive wheel with hub keyway (see series SPKGSPON) | <ul style="list-style-type: none"> heat-resistant ball bearing (oven bearing, -IK) | <ul style="list-style-type: none"> heat-resistant ball bearing (oven bearing, -IK) spherical roller bearing (-PR) for applications requiring extensive travel drive wheel with hub keyway (see series SPKVSN) |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C load capacities apply for rail profiles A 45, A 55 (DIN 536) | <ul style="list-style-type: none"> plain bore: provide adequate lubrication on a regular basis load capacities apply for rail profiles A 45, A 55 (DIN 536) the primary purpose of coating is to protect the wheel during transport and storage. Coating remains resistant up to +120 °C | <ul style="list-style-type: none"> load capacities apply for rail profiles A 45, A 55 and A 65 (DIN 536) |
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Wheels and castors guide

Blickle wheel series

Flanged wheels / drive wheels



| Series | DSPKGSP0 | DSPK | GEVN | GTHN |
|--|--|--|---|--|
| Wheel Ø | 50–200 mm | 50–200 mm | 160–620 mm | 75–1,000 mm |
| Load capacity | 50–700 kg | 120–1,200 kg | 300–4,540 kg | 300–25,000 kg |
| Tread / tyre | high-quality cast nylon, impact resistant, colour natural beige (see page 57 for a material description) | heat-treatable steel, lightly-oiled surface (see page 59 for a material description) | high-quality elastic solid rubber in drive-quality, with steel-band, colour black, wheel Ø 400+500 mm: Smooth rolling quality, steel-wire reinforced (see page 53 for a material description) | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) |
| Wheel centre / rim | high-quality cast nylon, impact resistant, colour natural beige | heat-treatable steel | rugged grey cast iron, axle bore and hub keyway in accordance with DIN 6885, lacquered, colour anthracite | rugged grey cast iron, axle bore and hub keyway in accordance with DIN 6885, lacquered, colour silver |
| Connection tread / tyre with wheel centre / rim | | | steel-wired reinforced or pressed-on steel-band tyre | cast tread |
| Tread & tyre hardness | 80 Shore D | 190–230 HB | 65 Shore A | 92 Shore A |
| Floor preservation / smooth operation | satisfactory | sufficient | very good | good |
| Rolling resistance | excellent | excellent | good | very good |
| Wear resistance | very good | excellent | satisfactory | excellent |
| Non-marking | ✓ | ✓ | – | ✓ |
| Temperature resistance | -20 °C to +80 °C | -20 °C to +120 °C | -30 °C to +80 °C temporarily up to +100 °C | -30 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | plain bore, ball bearing | ball bearing | hub keyway | hub keyway |
| Options | • stainless steel ball bearing (-XK) | | • pressed-on steel band in friction wheel quality (-STR) | • antistatic, non-marking, grey (-AS) |
| Additional considerations | • the load capacity reduces at ambient temperatures above +35 °C | | • the load capacity reduces at ambient temperatures above +60 °C • wheel centre is approximately 4 mm wider than the specified wheel width • speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | • the load capacity reduces at ambient temperatures above +40 °C • speeds up to a maximum of 10 km/h are permitted with a reduced load capacity |
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Wheels and castors guide

Blickle wheel series

Drive wheels



| Series | GSTN | GBN | GVUN | SPKVSN |
|--|--|--|--|--|
| Wheel Ø | 75–500 mm | 100–1,000 mm | 100–400 mm | 200–300 mm |
| Load capacity | 200–4,200 kg | 400–25,000 kg | 400–3,400 kg | 2,500–7,000 kg |
| Tread / tyre | high-quality polyurethane elastomer Blickle Softhane®, colour green (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Besthane®, colour brown (see page 56 for a material description) | high-quality polyurethane elastomer Vulkollan®, colour natural (see page 56 for a material description) | heat-treatable steel, lightly-oiled surface (see page 59 for a material description) |
| Wheel centre / rim | rugged grey cast iron, axle bore and hub keyway in accordance with DIN 6885, lacquered, colour silver | rugged grey cast iron, axle bore and hub keyway in accordance with DIN 6885, lacquered, colour silver | rugged grey cast iron, axle bore and hub keyway in accordance with DIN 6885, lacquered, colour silver | heat-treatable steel, axle bore and hub keyway in accordance with DIN 6885 |
| Connection tread / tyre with wheel centre / rim | cast tread | cast tread | cast tread | |
| Tread & tyre hardness | 75 Shore A | 92 Shore A | 92 Shore A | 190–230 HB |
| Floor preservation / smooth operation | very good | good | good | sufficient |
| Rolling resistance | very good | excellent | very good | excellent |
| Wear resistance | very good | excellent | excellent | excellent |
| Non-marking | ✓ | ✓ | ✓ | ✓ |
| Temperature resistance | -30 °C to +70 °C temporarily up to +90 °C | -30 °C to +70 °C temporarily up to +90 °C | -30 °C to +70 °C temporarily up to +90 °C | -100 °C to +600 °C |
| Bearing types (refer to page 84–85) | hub keyway | hub keyway | hub keyway | hub keyway |
| Options | • antistatic, non-marking, grey (-AS) | • electrically conductive, non-marking (-ELS) | | |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 10 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> load capacities apply for rail profiles A 45, A 55 and A 65 (DIN 536) load capacity reduced by 50% at +300 °C |
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Wheels and castors guide

Blickle wheel series

Hub fitting wheels

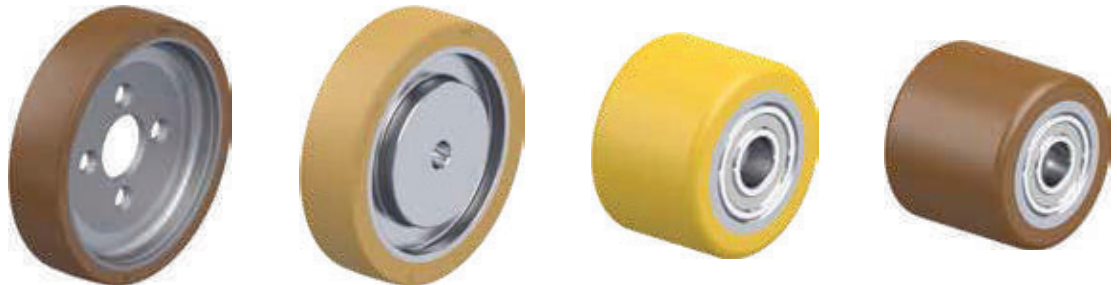


| Series | PA | VLEA | GEVA | GSTA |
|--|--|---|---|--|
| Wheel Ø | 400–536 mm | 405–525 mm | 250–620 mm | 200–400 mm |
| Load capacity | 250–1,300 kg | 950–1,885 kg | 630–4,540 kg | 700–2,500 kg |
| Tread / tyre | pneumatic tyre, ribbed or zig-zag profile, 2 to 10 ply rating, colour black (see page 54 for a material description) | super-elastic solid rubber, 3-component tyre, highly-elastic cushion layer, abrasion-resistant tread, colour black (see page 54 for a material description) | high-quality elastic solid rubber in smooth rolling quality, colour black (see page 53 for a material description) | high-quality polyurethane elastomer Blickle Softthane®, colour green (see page 55 for a material description) |
| Wheel centre / rim | pressed steel, with central hole, fixing holes are counter-sunk for installation on standard hub flanges, zinc-plated, blue-passivated, Cr6-free or lacquered, silver colour | heavy pressed steel, bolted (flat base rim), with central hole, fixing holes are counter-sunk for installation on standard hub flanges, zinc-plated, blue-passivated, Cr6-free | rugged grey cast iron, with central hole, fixing holes are counter-sunk for installation on standard hub flanges, lacquered, colour anthracite | rugged grey cast iron, with central hole, fixing holes are counter-sunk for installation on standard hub flanges, lacquered, colour silver |
| Connection tread / tyre with wheel centre / rim | tyre mounted on rim | steel-wire reinforced tyre, mounted on rim | steel-wire reinforced tyre, pressed-on | cast tread |
| Tread & tyre hardness | ■ ■ ■ ■ ■ 60 Shore A | ■ ■ ■ ■ ■ 70 Shore A | ■ ■ ■ ■ ■ 65 Shore A | ■ ■ ■ ■ ■ 75 Shore A |
| Floor preservation / smooth operation | ■ ■ ■ ■ ■ excellent | ■ ■ ■ ■ ■ very good | ■ ■ ■ ■ ■ very good | ■ ■ ■ ■ ■ very good |
| Rolling resistance | ■ ■ ■ ■ ■ good | ■ ■ ■ ■ ■ good | ■ ■ ■ ■ ■ very good | ■ ■ ■ ■ ■ very good |
| Wear resistance | ■ ■ ■ ■ ■ satisfactory | ■ ■ ■ ■ ■ good | ■ ■ ■ ■ ■ satisfactory | ■ ■ ■ ■ ■ very good |
| Non-marking | – | optional | – | ✓ |
| Temperature resistance | -30 °C to +50 °C | -30 °C to +80 °C temporarily up to +100 °C | -30 °C to +80 °C temporarily up to +100 °C | -30 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | hub fitting | hub fitting | hub fitting | hub fitting |
| Options | | <ul style="list-style-type: none"> • non-marking, grey tyre (-SG) • antistatic, black tyre (-AS) • drive wheel with hub keyway (see series VLEN) | <ul style="list-style-type: none"> • pressed-on steel band in drive quality (-STA) | <ul style="list-style-type: none"> • antistatic, non-marking, grey (-AS) |
| Additional considerations | <ul style="list-style-type: none"> • speeds up to a maximum of 25 km/h are permitted with a reduced load capacity • wheel width and diameter can change during operation | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +60 °C • speeds up to a maximum of 25 km/h are permitted with a reduced load capacity • wheel width and diameter can change during operation • puncture-proof and maintenance-free | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +60 °C • wheel centre is approximately 4 mm wider than the specified wheel width • speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> • the load capacity reduces at ambient temperatures above +40 °C • speeds up to a maximum of 10 km/h are permitted with a reduced load capacity |
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Wheels and castors guide

Blickle wheel series

Hub fitting wheels / rollers for pallet trucks



| Series | GBA | VSVU | HTH | HB |
|--|--|--|---|---|
| Wheel Ø | 200–400 mm | 125–300 mm | 60–90 mm | 80–85 mm |
| Load capacity | 900–3,400 kg | 700–2,400 kg | 220–1,130 kg | 550–960 kg |
| Tread / tyre | high-quality polyurethane elastomer Blickle Besthane®, colour brown (see page 56 for a material description) | high-quality polyurethane elastomer Vulkollan®, colour natural (see page 56 for a material description) | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Besthane®, colour brown (see page 56 for a material description) |
| Wheel centre / rim | rugged grey cast iron, with central hole, fixing holes are counter-sunk for installation on standard hub flanges, lacquered, colour silver | heat-treatable steel | metal | metal |
| Connection tread / tyre with wheel centre / rim | cast tread | cast tread | cast tread | cast tread |
| Tread & tyre hardness | 92 Shore A | 92 Shore A | 92 Shore A | 92 Shore A |
| Floor preservation / smooth operation | good | good | good | good |
| Rolling resistance | excellent | very good | very good | excellent |
| Wear resistance | excellent | excellent | excellent | excellent |
| Non-marking | ✓ | ✓ | ✓ | ✓ |
| Temperature resistance | -30 °C to +70 °C temporarily up to +90 °C | -30 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | hub fitting | axle bore | ball bearing | ball bearing |
| Options | | <ul style="list-style-type: none"> individual turning wheel with clamping set | <ul style="list-style-type: none"> with Blickle Softhane® polyurethane tread (see series HST) splash and washproof version (see series HTHW) wheel centre without ball bearing (ball bearing seat) | <ul style="list-style-type: none"> nylon wheel centre, hydrolysis resistant, (see series HPOB) splash and washproof version (see series HBW) wheel centre without ball bearing (ball bearing seat) |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C |
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Wheels and castors guide

Blickle wheel series

Rollers for pallet trucks / forklift truck wheels



| Series | HTHW | HPO | REV | RTH |
|--|---|--|---|---|
| Wheel Ø | 82–85 mm | 80–85 mm | 215–254 mm | 200–270 mm |
| Load capacity | 550–1,060 kg | 420–1,100 kg | | |
| Tread / tyre | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) | high-quality nylon 6, impact resistant, colour natural white (see page 57 for a material description) | high-quality elastic solid rubber in drive-quality, colour black REV 215x82/60-5-SG: grey, non-marking (see page 53 for a material description) | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) |
| Wheel centre / rim | metal | high-quality nylon 6, impact resistant, colour natural white | rugged grey cast iron or ductile cast iron | rugged grey cast iron or ductile cast iron |
| Connection tread / tyre with wheel centre / rim | cast tread | | vulcanised or steel-wire reinforced tyre, pressed-on | cast tread |
| Tread & tyre hardness | ■ ■ ■ ■ ■ 92 Shore A | ■ ■ ■ ■ ■ 70 Shore D | ■ ■ ■ ■ ■ 70 Shore A | ■ ■ ■ ■ ■ 92 Shore A |
| Floor preservation / smooth operation | ■ ■ ■ ■ ■ good | ■ ■ ■ ■ ■ satisfactory | ■ ■ ■ ■ ■ very good | ■ ■ ■ ■ ■ good |
| Rolling resistance | ■ ■ ■ ■ ■ very good | ■ ■ ■ ■ ■ excellent | ■ ■ ■ ■ ■ very good | ■ ■ ■ ■ ■ very good |
| Wear resistance | ■ ■ ■ ■ ■ excellent | ■ ■ ■ ■ ■ good | ■ ■ ■ ■ ■ satisfactory | ■ ■ ■ ■ ■ excellent |
| Non-marking | ✓ | ✓ | – | ✓ |
| Temperature resistance | -20 °C to +70 °C temporarily up to +90 °C | -20 °C to +80 °C | -30 °C to +80 °C temporarily up to +100 °C | -30 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | ball bearing | ball bearing | | |
| Options | <ul style="list-style-type: none"> with Blickle Besthane® polyurethane tread (see series HBW) with Blickle Softhane® polyurethane tread (see series HSTW) | <ul style="list-style-type: none"> stainless steel ball bearing (-XK) made from cast nylon, for applications requiring high load capacity (see HGSP0 series) | | |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C nylon socket for splash and wash-proof ball bearing | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +35 °C | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +60 °C drive wheels are suitable for the manufacturer number specified on page 571–576 | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C drive wheels are suitable for the manufacturer number specified on page 571–579 |
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Wheels and castors guide

Blickle wheel series

Forklift truck wheels / tyres / press-on bands



| Series | RB | RVU | BSEV | BEV...-ZDG |
|---|---|---|---|---|
| Wheel Ø | 230–343 mm | 230–250 mm | 250–525 mm | 125–610 mm |
| Load capacity | | | 480–2,260 kg | 190–2,700 kg |
| Tread / tyre | high-quality polyurethane elastomer Blickle Besthane®, colour brown (see page 56 for a material description) | high-quality polyurethane elastomer Vulkollan®, colour natural (see page 56 for a material description) | super-elastic solid rubber, 2-component or 3-component tyres, tough rubber core, highly elastic, abrasion-resistant tread, colour black (see page 54 for a material description) | high-quality elastic solid rubber in smooth rolling quality, colour black (see page 53 for a material description) |
| Wheel centre / rim | rugged grey cast iron or ductile cast iron | rugged grey cast iron or ductile cast iron | steel-wire reinforced | steel-wire reinforced |
| Connection tread / tyre with wheel centre / rim | cast tread | cast tread | | |
| Tread & tyre hardness | 92 Shore A | 92 Shore A | 70 Shore A | 65 Shore A |
| Floor preservation / smooth operation | good | good | very good | very good |
| Rolling resistance | excellent | very good | good | very good |
| Wear resistance | excellent | excellent | good | good |
| Non-marking | ✓ | ✓ | optional | optional |
| Temperature resistance | -30 °C to +70 °C temporarily up to +90 °C | -30 °C to +70 °C temporarily up to +90 °C | -30 °C to +80 °C temporarily up to +100 °C | -30 °C to +80 °C temporarily up to +100 °C |
| Bearing types (refer to page 84–85) | | | | |
| Options | | | • non-marking, grey tyre (-SG) | • non-marking, natural colour tyre (-SN) |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C drive wheels are suitable for the manufacturer number specified on page 571–579 | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C drive wheels are suitable for the manufacturer number specified on page 576–578 | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +60 °C tyre is suitable for the standard rims specified in the table on page 584–585 speeds up to a maximum of 25 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +60 °C suitable for wheel centre with outer diameter tolerance h11 speeds up to a maximum of 16 km/h are permitted with a reduced load capacity |
| Page | 571–575, 578–579 | 576, 578 | 584–585 | 586 |

Wheels and castors guide

Blickle wheel series

Press-on bands



| Series | BEV...-ZST | BTH | BB |
|---|---|---|---|
| Wheel Ø | 150–620 mm | 125–610 mm | 125–645 mm |
| Load capacity | 300–5,580 kg | 500–7,200 kg | 500–12,000 kg |
| Tread / tyre | high-quality elastic solid rubber in drive-quality, colour black (see page 53 for a material description) | high-quality polyurethane elastomer Blickle Extrathane®, colour light brown (see page 55 for a material description) | high-quality polyurethane elastomer Blickle Besthane®, colour brown (see page 56 for a material description) |
| Wheel centre / rim | steel-band | steel-band | steel-band |
| Connection tread / tyre with wheel centre / rim | vulcanised tread | cast tread | cast tread |
| Tread & tyre hardness |  65 Shore A |  92 Shore A |  92 Shore A |
| Floor preservation / smooth operation |  very good |  good |  good |
| Rolling resistance |  very good |  very good |  excellent |
| Wear resistance |  good |  excellent |  excellent |
| Non-marking | optional | ✓ | ✓ |
| Temperature resistance | -30 °C to +80 °C temporarily up to +100 °C | -30 °C to +70 °C temporarily up to +90 °C | -30 °C to +70 °C temporarily up to +90 °C |
| Bearing types (refer to page 84–85) | | | |
| Options | • non-marking, natural colour tyre (-SN) | | |
| Additional considerations | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +60 °C suitable for wheel centre with outer diameter tolerance h11 speeds up to a maximum of 16 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C suitable for wheel centre with outer diameter tolerance h11 speeds up to a maximum of 10 km/h are permitted with a reduced load capacity | <ul style="list-style-type: none"> the load capacity reduces at ambient temperatures above +40 °C suitable for wheel centre with outer diameter tolerance h11 speeds up to a maximum of 16 km/h are permitted with a reduced load capacity |
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Wheels and castors guide

Blickle wheel series

Heat-resistant Progressus wheels for castors



| Series | PGV | ALTPU |
|---|---|---|
| Wheel Ø | 84–186 mm | 120–150 mm |
| Load capacity | 90–200 kg | 120–150 kg |
| Tread / tyre | high-quality elastic solid rubber in smooth rolling quality, colour grey, non-marking (see page 53 for a material description) | high-quality thermoplastic polyurethane (TPU), colour dark grey, non-marking, electrically conductive (see page 55 for a material description) |
| Wheel centre / rim | die-cast aluminium, colour silver grey | die-cast aluminium, colour silver grey |
| Connection tread / tyre with wheel centre / rim | tyre mounted on rim | chemically bonded |
| Tread & tyre hardness | 80 Shore A | 92 Shore A |
| Floor preservation / smooth operation | very good | good |
| Rolling resistance | very good | very good |
| Wear resistance | satisfactory | very good |
| Non-marking | ✓ | ✓ |
| Temperature resistance | -20 °C to +134 °C | -20 °C to +134 °C |
| Bearing types (refer to page 84–85) | roller bearing, ball bearing | ball bearing |
| Options | <ul style="list-style-type: none"> electrically conductive (-EL) | |
| Additional considerations | <ul style="list-style-type: none"> suitable for autoclaves tyre flattening recovers when in motion under load | <ul style="list-style-type: none"> suitable for autoclaves majority of tyre flattening recovers when in motion under load |
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Wheels and castors guide

Wheel bearing types



Plain bore

("G" in the product code)

The plain bore is a simple, cost-effective and resilient wheel bearing. It is also corrosion-resistant and maintenance-free under normal conditions. Plain bores are mainly used for light duty and transport equipment castors, which are only moved infrequently and at slow speeds. Nylon plain bore sockets are used for wheels with tubular steel hubs. Plain bores may run hot at high speeds and under high loads. Cast iron wheels with plain bores must be lubricated on a regular basis.



Roller bearing

("R" in the product code)

The roller bearing is a robust, resilient and largely maintenance-free wheel bearing that can be installed in a small space. Roller bearings (also called roller basket or needle bearings) have a small radial bearing clearance and are mainly used for transport equipment castors. The roller bearing consists of steel rollers in a synthetic or steel cage. These rollers roll between the axle and the wheel hub. The rotation around the axle causes rolling friction rather than dynamic friction. This keeps the rolling resistance of the wheel relatively low, even under heavy loads. Roller bearings are lubricated with a long-life grease and maintenance-free under normal application conditions. Stainless steel versions of roller bearings are also available (-XR in the product code).



Ball bearing

("K" in the product code)

The wheel bearing with grooved ball bearing (also called a precision ball bearing) meets high standards in terms of load capacity, rolling characteristics (even at high speeds) and resistance to environmental factors. Grooved ball bearings have the lowest level of bearing clearance, and are mainly used in technically-demanding transport unit castors and heavy-duty castors. A cover cap provides protection against dust (non-rubbing seal, also known as a Z bearing). Ball bearings can be installed with one or two sealing caps (slipping sealing, also known as an RS or 2RS bearing) for special requirements. Wheel bearings with ball bearings sealed on both sides (2RS) must not be lubricated to avoid damage to the ball bearing. Grooved ball bearings are lubricated using long-life grease and are maintenance-free under normal application conditions. Two ball bearings are installed in the hub as standard. A spacer sleeve is used to maintain the distance between the inner race of the ball bearing. This means that the wheel can be clamped axially into a bracket (exception: roller for pallet trucks). In addition to the standard version, ball bearings are also available in a corrosion-resistant version (-XK in the product code), a version lubricated with heat-resistant special grease (-HK or -HXX (corrosion resistant) in the product code) or as a heat-resistant ball bearing (oven bearing, -IK in the product code). Heat-resistant ball bearings are suitable for use in temperatures between -30 °C and +300 °C with reduced load capacity.



Central ball bearing (C) with thread guard

("KA" or "KF" in the product code)

A central ball bearing provides extremely precise and smooth operation, and a good seal. These bearings are primarily used for synthetic wheels supporting small loads and for guide rollers. The ball bearing is encapsulated with the wheel centre. The central ball bearing is provided with two sealing caps (slipping sealing, so-called 2RS bearings) as standard. Ball bearings are lubricated with long-life grease and are maintenance-free under normal application conditions. The additional synthetic ball bearing cover provides protection for both the wheel hub and the thread. When the wheel is fitted in swivel and fixed brackets, no flanged bushes are required, unlike for conventional wheel bearings with ball bearings that are pressed in.

Wheels and castors guide

Wheel bearing types



Two central ball bearings (CC) with thread guard

("KA" or "KF" in the product code)

The wheel bearing with two central ball bearings provides a high level of precision and smooth running performance. It also provides an effective seal while meeting demanding load capacity requirements. Positive locking is used to encapsulate the ball bearings with the wheel centre. The central ball bearings are provided with two sealing caps (slipping sealing, so-called 2RS bearings) as standard. The ball bearings are lubricated using long-life grease and are maintenance-free under normal application conditions. The additional synthetic ball bearing cover provides protection for both the wheel hub and the thread. When the wheel is fitted in swivel and fixed brackets, no flanged bushes are required, unlike for conventional wheel bearings with ball bearings that are pressed in.



Central ball bearing (C) with thread guard and additional ball bearing seal

("KAD" or "KFD" in the product code)

Additional sealing can be provided for ball bearings used in highly-corrosive wet areas. Combining sealing caps (slipping sealing, so-called 2RS bearing), clearance sealing and an additional slipping sealing provides the ball bearing with optimal protection against water spray and dirt. Wheels with an additional ball bearing seal are suitable for machine washing. The slipping seal increases the rolling resistance slightly. Ball bearings are lubricated with long-life grease and are maintenance-free under normal application conditions. The additional synthetic ball bearing cover provides protection for both the wheel hub and the thread. When the wheel is fitted in swivel and fixed brackets, no flanged bushes are required, unlike for conventional wheel bearings with ball bearings that are pressed in. The ball bearing cover (-HKA, -XKA or -XKF in the product code) does not have the additional rubber sealing ring provided in the version with a ball bearing seal. The -XKA version is also suitable for machine washing due to the corrosion-resistant ball bearing.



Two central ball bearings (CC) with thread guard and additional ball bearing seals

("KAD" or "KFD" in the product code)

Additional sealing can be provided for ball bearings used in highly-corrosive wet areas. Combining sealing caps (slipping sealing, so-called 2RS bearing), clearance sealing and an additional slipping sealing provides ball bearings with optimal protection against water spray and dirt. Wheels with an additional ball bearing seal are suitable for machine washing. The slipping seal increases the rolling resistance slightly. Ball bearings are lubricated with long-life grease and are maintenance-free under normal application conditions. The additional synthetic ball bearing cover provides protection for both the wheel hub and the thread. When the wheel is fitted in swivel and fixed brackets, no flanged bushes are required, unlike for conventional wheel bearings with ball bearings that are pressed in.

Versions with the ball bearing cover (-HKA, -XKA or -XKF in the product code) do not have the additional rubber sealing ring provided in the version with a ball bearing seal. The -XKA version is also suitable for machine washing due to the corrosion-resistant ball bearing.



Spherical roller bearing

("PR" in the product code)

Spherical roller bearings have two rows of rollers to increase the contact surface of the rolling elements and achieve extremely high load capacities while keeping dimensions relatively small. Spherical roller bearings allow for angular adjustment and are therefore resistant to the axle being bent. The extremely high load capacity provides outstanding operational performance. Spherical roller bearings are therefore used in heavy duty wheels, with a focus on plant engineering (three shift operation). Two spherical roller bearings are installed in the hub as standard. A spacer sleeve is used to maintain the distance between the inner races of the spherical roller bearing. This means that the wheel can be clamped into a bracket. Spherical roller bearings are not normally sealed. A special seal is available for spherical roller bearings upon request.