

# Wheels and castors guide

## Versions / options

### Brakes / truck locks / jacks



#### Blicke drum brake

(product code suffix: -TB / -TBL / -TBR)

This brake works by pressing two brake shoes integrated into the wheel against the cast wheel centre, which acts as the brake drum. The drum brake provides a high level of braking performance even though only a small amount of force is required to activate it. The brake can be operated with a variety of controls, such as a lever arm or cable pull. The enclosed bracket ensures that the brake shoes are largely protected against corrosion and dirt. This ensures that braking performance remains consistent regardless of moisture and road contamination in the area.

See section 18, page 595.



#### Blicke dead man's brake

(product code suffix: -TML / -TMR)

A dead man's brake is similar to a drum brake, but uses an integrated spring for braking when the brake is not activated. The brake can be released using a lever arm or cable pull.

Left-handed (product code suffix: -TML) and right-handed (product code suffix: -TMR) versions are available for dead man's brakes. Dead man's brakes are also available for swivel castors. For dead man's brakes without swivel head brake with product code suffix -TM13 and for dead man's brakes with swivel head brake with product code suffix -TTM13.

See section 18, page 594–595.



#### Blicke truck lock

(product code: FF...)

Truck locks keep transport equipment in a resting position. They are attached directly to the transport equipment. Operating the pedal takes some of the load off the transport equipment without raising it up.

When operated, the truck lock deflects by approximately 10 mm. The maximum surface contact pressure in combination with suitable swivel and fixed castors amounts to approx. 60 kg. Zinc-plated, blue-passivated, Cr6-free.

See section 18, page 606.

Product code	Total height unactuated (H0) [mm]	Total height actuated (H1) [mm]
FF 100-1	108	138
FF 125-1	142	180
FF 125	142	180
FF 150	170	208
FF 160	175	213
FF 200	217	255



#### Blicke jack

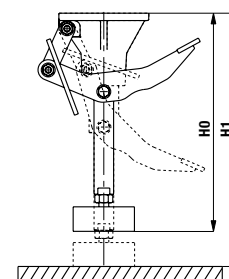
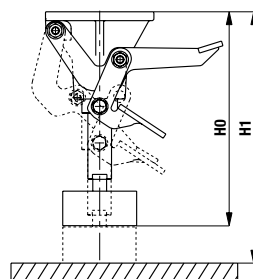
(product code: -WH...)

Blicke jacks are used to raise transport equipment up in their resting position. They are attached directly to the transport equipment. Actuating the pedal raises the transport equipment up.

Jacks can be combined with a wide range of castor series. Jacks perform at their best when the total height of the actuated jack (H1) exceeds the total height of the fixed and swivel castors by 5 mm. Depending on the weight of the operator, they can provide a lifting force of between 150 kg and 250 kg. The vertical load on the jack must not exceed 500 kg when raised.

See section 18, page 606.

Product code	Total height unactuated (H0) [mm]	Total height actuated (H1) [mm]
WH 160	166	209
WH 200	207	250
WH 250	257	300



## Wheels and castors guide

### Versions / options

#### Directional lock



**Blickle directional lock for pressed steel swivel castors**  
(product code: RI...)

Directional locks fix the swivel motion of a swivel castor in predefined directions. When the directional lock is activated, the swivel castor acts like a fixed castor.

This directional lock is provided as a separate part and is installed together with the swivel castor. It can also be installed later as there is no need to make structural changes to the swivel castor bracket.

This option is available for a wide range of swivel castor series. Please refer to the "versions / options" section on the relevant pages for more information.



**Blickle directional lock for welded steel swivel castors**  
(product code suffix: -RI4)

Directional locks fix the swivel motion of a swivel castor in predefined directions. When the directional lock is activated, the swivel castor acts like a fixed castor.

This directional lock is an integrated unit welded to the top plate. It can be used for customer-specific fixing positions in addition to the standard 90° position (product code suffix: -RI4, four fixing positions). This version is robust and designed for use with heavy duty castors.

This option is available for a wide range of heavy duty welded steel swivel castors. Please refer to the "versions / options" section on the relevant pages for more information.



**Blickle directional lock for heavy-duty swivel castors**  
(product code suffix: -RI4H)

Directional locks fix the swivel motion of a swivel castor in predefined directions. When the directional lock is activated, the swivel castor acts like a fixed castor.

This directional lock is a unit integrated with the top plate. This directional lock provides four fixing positions (90°) using a locking bolt. This version is extremely robust and designed for use with heavy-duty castors.

This option is available for a wide range of heavy-duty welded steel swivel castors. Please refer to the "versions / options" section on the relevant pages for more information.



**Blickle directional lock and wheel brake for synthetic swivel castors**  
(product code suffix: -RIFI)

A combination directional lock and wheel brake is available for swivel castors in the Blickle MOVE series with a wheel diameter of 125 mm. It is operated with a two-part foot lever. The left lever activates the full locking system. The right lever activates the directional lock.

This "rear" brake system initially uses positive locking to prevent the rotation of the swivel head. The swivel head is locked by locking a brake spring in a toothed ball disc. In the second stage, the wheel is locked using a non-positive brake mechanism.

directional locks detail



## Wheels and castors guide

### Versions / options



#### Automatic direction reset device

(product code suffix: -RIR2)

Direction reset devices point a swivel castor in a pre-defined direction in an unloaded state. This mechanism reduces issues that affect the handling of transport equipment used in automated facilities and loading and unloading areas.

The RIR2 mechanism is designed for an increased service life.

Special versions are available to provide tailored holding forces and fixings.



#### Thread guard

(product code suffix: -FA or "KA" or "KF" in the product code)

The thread guard discs are made from zinc-plated, blue-passivated, Cr6-free pressed steel (product code suffix: -FA) or by using plastic injection moulding ("KA" or "KF" in the product code). They prevent threads wrapping around the wheel axle and blocking the wheels.

In the "KA" version, the thread guard encompasses the wheel hub.

In the "KF" version, the thread guard covers both the hub and the central bar of the wheel.

This option is available for a wide range of swivel and fixed castor series.

Please refer to the "versions / options" section on the relevant pages for more information.



#### Foot guard

(product code suffix: -FS, -FP and -FG)

The foot guard is made from zinc-plated, blue-passivated, Cr6-free pressed steel (product code suffix: -FS). For welded steel castors (LO / LS series), the foot guard is a robust welded structure. For corrosion-resistant stainless steel castors, the foot guard is made of an impact-resistant synthetic material (polyethylene, product code suffix: -FP). The foot guard is bolted or welded onto the bracket and prevents foot injuries. It is normally 15 to 25 mm away from the floor.

A special version can be provided to ensure a different distance from the floor. Spring-loaded, zinc-plated, blue-passivated, Cr6-free versions (product code suffix: -FG) are also available.

This option is available for a wide range of swivel and fixed castor series. Please refer to the "versions / options" section on the relevant pages for more information.



#### Buffer

(product code: AW..., AG... and ARG...)

Buffers reduce the risk of damage to walls and vehicles in the event of a collision. Buffers for round and square tubes are made from polyethylene or a solid rubber, and are available in the colours grey white, silver grey and grey. They are fixed or connected to tubular frames in the external areas of vehicles. See page 148, 169 and 398 for information about options.

Rotating buffers (product code suffix: -AMW(X), -AMG(X)) are also available for Blickle WAVE synthetic castors. They also prevent scraping against walls.

A bolt is used to fit the buffers directly onto the castors.

See options page 169.

#### spring-loaded foot guard



## Wheels and castors guide

### Versions / options



#### Hub cap for end wheel

(product code suffix: -E)

Hub caps are made from zinc-plated, blue-passivated, Cr6-free pressed steel.

They protect the outside ball bearing of end wheels against dirt, dust, etc., and cover the axle end and wheel fitting. In end wheels, the ball bearing is slightly recessed on the outside of the hub. This makes it easy to fit the hub cap on the wheel hub. This reduces the clamping length.

This option is available for a wide range of wheel series.

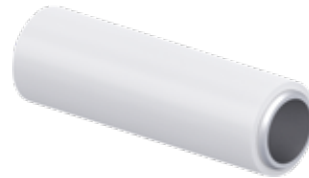
Please refer to the "versions / options" section on the relevant pages for more information.



#### STARLOCK® cap made from stainless steel

(product code: ST-KA...)

STARLOCK® caps are an easy way to fix light duty wheels on an axle. The wheel is placed on an axle as the end wheel, and the STARLOCK® cap is pressed onto the outer end of the axle. STARLOCK® caps are available for the following axle diameters: 12, 15, 20 and 25 mm.



#### PTFE coated stainless steel axle tube

(product code: XAT...)

The PTFE coated stainless steel axle tube consists of a stainless steel axle tube and a PTFE coating. When rotating and under load, the PTFE coating expands onto the inside of the plain bore of the wheel. This provides the desired pairing (PTFE / stainless steel) with outstanding sliding characteristics. It also reduces noise emissions.

This option is available for a wide range of heat-resistant wheel series.

Please refer to the "versions / options" section on the relevant pages for more information.

A variety of heat-resistant castors in the PHN and VKHT wheel series are available with a PTFE coated stainless steel axle tube as standard (see section 10).

## Special systems and solutions

### Truck locks and jacks

#### Truck locks

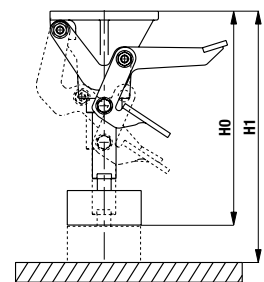
Truck locks keep transport equipment in a resting position. They are attached directly to the transport equipment. Operating the pedal takes some of the load off the transport equipment without raising it up.

When operated, the truck lock deflects by approximately 10 mm. The maximum surface contact pressure in combination with suitable swivel and fixed castors amounts to approx. 60 kg. The following truck lock with a plate size of 100 x 85 mm can be combined with the LE, L and LK castor series. The truck locks with a plate size of 140 x 110 mm can be combined with the LK (wheel Ø 125x50-200 mm) LH, LO and LS castor series. Other versions are available upon request. Zinc-plated, blue-passivated, Cr6-free.

Product code	Total height unactuated	Total height actuated, extended	Plate size [mm]	Bolt hole spacing [mm]	Bolt hole diameter [mm]
	(H0) [mm]	(H1) [mm]			
FF 100-1	108	138	100 x 85	80 x 60	9
FF 125-1	133	163	100 x 85	80 x 60	9
FF 125	142	180	140 x 110	105 x 75-80	12.3
FF 150	170	208	140 x 110	105 x 75-80	12.3
FF 160	175	213	140 x 110	105 x 75-80	12.3
FF 200	217	255	140 x 110	105 x 75-80	12.3

FF 100-1 + FF 125-1

FF 125 - FF 200



#### Jacks

Jacks are used to raise transport equipment up in their resting position. They are attached directly to the transport equipment. Actuating the pedal raises the transport equipment up.

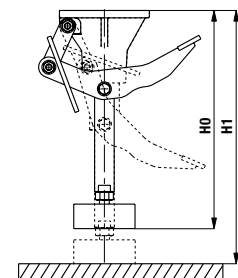
Jacks can be combined with a wide range of castor series. Jacks perform at their best when the total height of the actuated jack (H1) exceeds the total height of the fixed and swivel castors by 5 mm.

Depending on the weight of the operator, they can provide a lifting force of between 150 kg and 250 kg.

The vertical load on the jack must not exceed 500 kg when raised.

Zinc-plated, blue-passivated, Cr6-free.

Product code	Total height unactuated	Total height actuated	Plate size [mm]	Bolt hole spacing [mm]	Bolt hole Ø [mm]
	(H0) [mm]	(H1) [mm]			
WH 160	166	209	140 x 110	105 x 75-80	12.3
WH 200	207	250	140 x 110	105 x 75-80	12.3
WH 250	257	300	140 x 110	105 x 75-80	12.3



## Special systems and solutions

### Adapter plates

Adapter plates can be used to compensate for differences between the mounting height of different castors. Adapter plates can also be used to modify the mounting height of the transport equipment. Adapter plates are available in steel (zinc-plated, blue-passivated, Cr6-free) and synthetic (nylon, black) designs. Untreated steel adapter plates are also available for welding upon request.

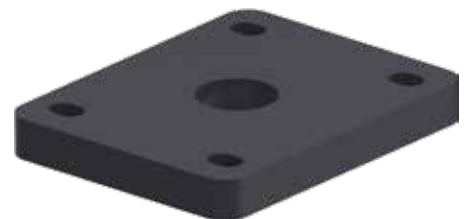
#### Steel adapter plates, zinc-plated

Product code	Plate size [mm]	Bolt hole spacing [mm]	Bolt hole diameter [mm]	Height [mm]
APS1-02,5	100 x 85	80 x 60	9	2,5
APS1-08	100 x 85	80 x 60	9	8
APS3-04	140 x 110	105 x 75-80	11	4
APS3-08	140 x 110	105 x 75-80	11	8
APS3-10	140 x 110	105 x 75-80	11	10



#### Synthetic adapter plates

Product code	Plate size [mm]	Bolt hole spacing [mm]	Bolt hole diameter [mm]	Height [mm]
AP1-10	100 x 85	80 x 60	9	10
AP3-17	140 x 110	105 x 75-80	11	17



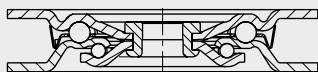
## Special systems and solutions

### Swivel heads

Swivel heads can be used for a wide variety of applications: rotating plates, rotating platforms, flatbed turntables or axle-pivot steering systems. When combined with standard fixed castors, they can provide castor systems without an offset, which are easy to steer.



#### 1 DK-L series



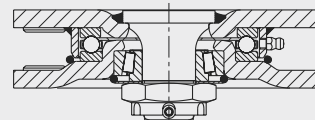
- pressed steel
- double ball bearing
- strong central kingpin
- swivel head seal
- minimum swivel head play and smooth rolling characteristic and increased service life thanks to the special dynamic Blickle riveting process
- zinc-plated, blue-passivated, Cr6-free

#### 2 DK-LUH series



- strong pressed steel
- four-point ball bearing for extremely heavy loads
- enclosed and sealed swivel head
- particularly resistant to impact and shocks due to specially-shaped hardened bearing seats
- zinc-plated, blue-passivated, Cr6-free

#### 3 DK-LS series



- particularly robust welded steel construction
- axial grooved ball bearing ISO 104 and tapered roller bearing ISO 355
- welded central kingpin, extremely stable, bolted and secured
- dust and splash-proof
- grease nipple
- zinc-plated, yellow-passivated, Cr6-free

Swivel heads	Load capacity* [kg]	Plate size [mm]	Bolt hole spacing [mm]	Bolt hole Ø [mm]	Flange plate height (A) [mm]	Flange plate internal clearance (B) [mm]
DK-L-3	400	140 x 110	105 x 75-80	11	28	20
DK-LUH-3	1,000	140 x 110	105 x 75-80	11	31	21
DK-LS-3	1,500	140 x 110	105 x 75-80	11	37	21
DK-LS-35	2,500	175 x 140	140 x 105	14	44	24
DK-LS-36	2,500	200 x 160	160 x 120	14	44	24
DK-LS-38	5,500	255 x 200	210 x 160	18	60	25

\* With central axial load

