

Wheels and castors guide

Fitting types



Plate (top plate)

Bolt hole

Steel plug-in stem

Threaded pin

(product code suffix: -GS...)

The castor is fixed to a level surface using bolts and nuts. The bolt hole spaces are standardised. Plate fittings are available for both swivel and fixed castors and are used for light-duty, transport equipment and heavy-duty castors. The plate must be aligned with the short side facing in the running direction for castors with a directional lock.

The following dimensions must be taken into consideration when selecting the plate fitting:

- plate size (external dimensions)
- bolt hole spaces
- bolt hole \emptyset

Diagrams of top plate fittings with external dimensions and bolt hole spacing: page 106–111

The castor is attached using a connection element (e.g. a bolt) through the central hole of the swivel head. For levelling castors (series HRIG), the bolt hole has a female thread and the connection element is screwed into the central kingpin of the swivel bracket from the unit side.

The load capacities specified here can only be reached if the top plate lies along the entire diameter of the swivel castor.

This fitting type does not provide positive anti-twist locking, and therefore reduces the load capacity of the swivel head brake.

Using a bolt hole to install the castor is a cost-effective solution, which only requires a single bolt (ideally in compliance with DIN 912 / ISO 4762). This fitting type is primarily used for light-duty and transport equipment castors.

The following dimensions must be taken into consideration when selecting the fitting with a bolt hole:

- plate \emptyset (external dimensions) (D)
- bolt hole \emptyset (d)

The castor is fitted using a plug-in stem, which is inserted into a corresponding tube or hole and secured. The stem fitting is fixed to the castor and a fixing bolt (cross hole) or clamp must be used to prevent it rotating or falling out. The hole must be aligned transverse to the running direction for castors with a directional lock.

The load capacities specified here can only be reached if the top plate lies along the entire diameter of the swivel castor.

Stem fittings are primarily used for light-duty, synthetic and transport equipment castors.

A stainless steel plug-in stem fitting is available for stainless steel swivel castors.

The following dimensions must be taken into consideration when selecting the fitting with a stem:

- stem \emptyset (P)
- stem length (Q)
- position of the cross hole (H), if applicable
- diameter of the cross hole (d), if applicable

The castor is fitted using a threaded pin, which is bolted to the transport equipment using a female thread or a cylindrical hole and nut.

Threaded pin fittings are primarily used for light-duty castors.

A stainless steel threaded pin (-GSX...) is available for corrosion-resistant synthetic swivel castors.

The following dimensions must be taken into consideration when selecting the fixing with a threaded pin:

- threaded pin \emptyset (thread M10 or M12) (P)
- threaded pin length (protrusion over the castor) (Q)

