

Wheels and castors guide

Manoeuvrability

Castors must be positioned to meet requirements for the manoeuvrability and steering of units and machines. A number of different castor arrangements are described below.



Three swivel castors with identical mounting height

Suitable for small loads and narrow routes. The transport equipment is very easy to move in any direction. The transport equipment is relatively difficult to manoeuvre when travelling straight. This can be improved by fitting a directional lock to one of the three swivel castors. This castor arrangement can make the transport equipment more susceptible to tipping.

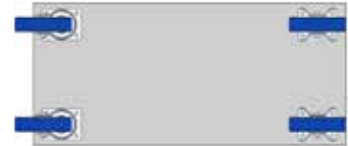
Load capacity	■ ■ ■ ■
Manoeuvrability	■ ■ ■ ■
When travelling straight	■ ■ ■ ■
Cornering	■ ■ ■ ■
Stability	■ ■ ■ ■



Four swivel castors with identical mounting height

Suitable for narrow routes. The transport equipment is very easy to move in any direction. The transport equipment is relatively difficult to manoeuvre when travelling straight. Attaching directional locks to two swivel castors can improve this situation.

Load capacity	■ ■ ■ ■
Manoeuvrability	■ ■ ■ ■
When travelling straight	■ ■ ■ ■
Cornering	■ ■ ■ ■
Stability	■ ■ ■ ■



Two swivel and fixed castors with identical mounting height

Most common castor arrangement, suitable for towing. The transport equipment is easy to manoeuvre when cornering and moving in a straight line. The transport equipment is relatively difficult to manoeuvre in tight spaces. The fixed castor can be replaced with a wheel set, i.e. two wheels on an axle.

Load capacity	■ ■ ■ ■
Manoeuvrability	■ ■ ■ ■
When travelling straight	■ ■ ■ ■
Cornering	■ ■ ■ ■
Stability	■ ■ ■ ■



Four fixed castors, with the central castors having a slightly higher mounting height

Cost-effective castor arrangement. The transport equipment is easy to manoeuvre when moving in a straight line. Arranging the load over the central fixed castors makes the transport equipment relatively easy to steer and rotate on the spot. This castor arrangement can make the transport equipment more susceptible to tipping and swinging. The central fixed castors can be replaced with a wheel set, i.e. two wheels on an axle.

Load capacity	■ ■ ■ ■
Manoeuvrability	■ ■ ■ ■
When travelling straight	■ ■ ■ ■
Cornering	■ ■ ■ ■
Stability	■ ■ ■ ■



Two swivel and two fixed castors, with the fixed castors having a slightly higher mounting height

Suitable for towing. The transport equipment is easy to manoeuvre when cornering and moving in a straight line and rotates easily on the spot. This castor arrangement can make the transport equipment more susceptible to tipping and swinging. We recommend using swivel castors with spring-loaded castors. The central fixed castors can be replaced with a wheel set, i.e. two wheels on an axle.

Load capacity	■ ■ ■ ■
Manoeuvrability	■ ■ ■ ■
When travelling straight	■ ■ ■ ■
Cornering	■ ■ ■ ■
Stability	■ ■ ■ ■



Four swivel castors and two fixed castors identical mounting height

Complicated castor arrangement, suitable for towing. The transport equipment is easy to manoeuvre when cornering and moving in a straight line and rotates easily on the spot. It is particularly well suited for heavy loads and long units. Constant surface contact of the fixed castors is required for manoeuvrability. The central fixed castors can be replaced with a wheel set, i.e. two wheels on an axle.

Load capacity	■ ■ ■ ■
Manoeuvrability	■ ■ ■ ■
When travelling straight	■ ■ ■ ■
Cornering	■ ■ ■ ■
Stability	■ ■ ■ ■