

## Manoeuvrability

Depending on the requirements placed upon the manoeuvrability of appliances/machines, the castors must be positioned accordingly. The various possibilities for castor arrangement are described in the following section.



Three swivel castors of identical mounting height

For small loads and confined areas. The appliance is easily manoeuvrable in all directions. When travelling straight, the appliance is relatively hard to control. This can be improved by fitting a directional lock to one of the three swivel castors. With this arrangement, the appliance tends to tilt.

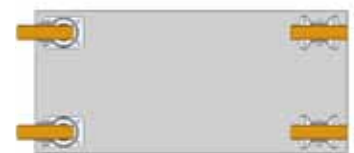
Load capacity	**
Mobility	*****
Guidance at straight travelling	**
Turning circle	****
Capsizing stability	*



Four swivel castors of identical mounting height

For confined areas. The appliance is easily manoeuvrable in all directions. When travelling straight, the appliance is relatively hard to control. This can be improved by fitting directional locks to two of the swivel castors.

Load capacity	****
Mobility	*****
Guidance at straight travelling	**
Turning circle	****
Capsizing stability	***



Two swivel and two fixed castors all of identical height

This is the most frequently used castor arrangement. Suitable for towing operations. Straight line travelling as well as cornering can be handled very well. In confined areas, the appliance is hard to manoeuvre. Alternatively, one wheel set, i.e. two wheels on one axle, may be fitted instead of the fixed castors.

Load capacity	****
Mobility	***
Guidance at straight travelling	****
Turning circle	**
Capsizing stability	****



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

Cost-favourable castor arrangement. Straight travelling can be handled very well. By a load arrangement over the central fixed castors, the appliance can be steered relatively easy and turned on the spot. With this castor arrangement the appliance has a tendency to tilt and bounce. Alternatively, one wheel set, i.e. two wheels on one axle, may be fitted instead of the central fixed castors.

Load capacity	***
Mobility	**
Guidance at straight travelling	*****
Turning circle	*****
Capsizing stability	**



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

Suitable for towing operations. Straight line travelling as well as cornering can be handled very well and turned on the spot easily. With this castor arrangement the appliance has a tendency to tilt and bounce. Alternatively, one wheel set, i.e. two wheels on one axle, may be fitted instead of the central fixed castors.

Load capacity	***
Mobility	****
Guidance at straight travelling	*****
Turning circle	*****
Capsizing stability	**



Four swivel and two fixed castors of identical mounting height

Costly castor arrangement, suitable for towing operations. Straight line travelling as well as cornering can be handled very well, turned on the spot easily and is particularly suitable for heavy loads and long appliances. A constant contact of the fixed castors to the floor is mandatory for ensuring the steerability. Alternatively, one wheel set, i.e. two wheels on one axle, may be fitted instead of the central fixed castors.

Load capacity	*****
Mobility	***
Guidance at straight travelling	*****
Turning circle	*****
Capsizing stability	*****