

Choosing the right castor or wheel

1 Choose the range based on what you are using it for and how much load it will carry

Light to medium duty—L, Twin, N, Metal ball, K, M and Big M

Load rating: 25–200 kg

Suitable for:

- Trolleys and carts
- Shop fittings and displays
- Mobile storage



General duty to heavy duty—J, Y and O Series

Load rating: 200–500 kg

Suitable for:

- Linen carts
- Work platforms
- Roll cages
- Stock trolleys



Very heavy duty—W, X, V and A Series

Load rating: 500–3500 kg

Suitable for:

- Stock trolleys for automotive plants
- Shipping containers
- Multi-purpose industrial trolleys



Medical—Trinity and Trinity EBC, Central locking, Wheelchair

Load rating: 100–150 kg

- Medical equipment, hospital beds and other applications that need an automatic or accessible brake
- Recliner chairs
- Mobile computer tables



2 Choose a wheel based on the floor surface it will be travelling on

Outdoors and rough ground

Bouncy, elastic tyres help get over bumps. That's why wheelbarrows and other applications that involve rough ground use pneumatic or rubber tyres.



Soft and smooth floors

Hard wheels have high load bearing capacity and reduce push effort on carpet and soft surfaces, but are very noisy on tiles and other hard surfaces and can also leave indentations on wooden floors.



Variable floor surfaces

Road cases are a classic example of tyres that need to adapt to a wide range of floor surfaces. When bands are on the move, their equipment needs to travel over bitumen, carpet, lino, wood and over curbs and stairs. These wheels go everywhere!



Specialised applications

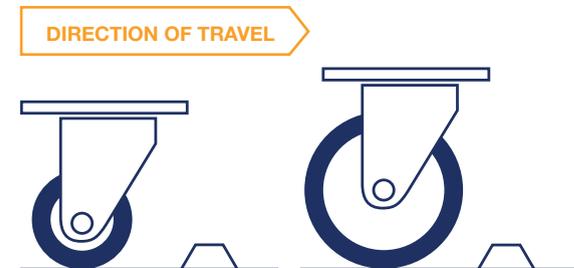
Some applications have specific requirements, and we have a wide range of wheels to suit, including high and low temperature, wheelie bin wheels, central locking castors, antistatic wheels and many, many more!



3 Choose the wheel's diameter

The larger the wheel, the easier to push and the better the ride comfort (ability to pass over bumps and to minimize vibration).

Why? The larger the wheel, the smaller obstacles are in proportion to the wheel's diameter, resulting in greater momentum.



Wheel diameter should be maximised, bearing in mind that:

- As a rule of safety a maximum height of 1400 mm is recommended (including the goods being carried) to enable a clear line of sight.
- Small wheels are sometimes used to reduce the centre of gravity to address tip hazards due to top-heavy loads.

4 Choose the bearing type

Ball

Used in applications where heat can build up due to friction caused by constant movement and/or higher speeds—all towing applications use precision bearings (as the high tolerance and hardened steel used in the sealed and greased bearings reduces heat build-up that can cause weakening of the wheel). Ball bearings offer the lowest friction and therefore the lowest push effort—they are also the most expensive type of bearing in our range.



Roller

Used in high impact applications (the large surface area of the bearing spreads load and therefore protects against high impact). Not suitable for high speed (more than 6 km/h).



Plain bush (or bore)

Used in corrosive environments (polymer bearings won't rust). Also used to reduce cost (the cheapest kind of 'basic' bush).



5 Choose the type of brake and castor configuration



Total brake



No brake



Direction lock



Three-in-one brake

Castor configuration options

Traditional



World's best practice



Trinity EBC with intuitive steer, automatically apply the steering device in the right direction, with the use of a motion sensor.



Trinity complete brake (CB) castors have a 3-in-1 brake that includes a direction lock option to steer from either end.

DIRECTION OF TRAVEL

6 Choose fittings

Bolt hole

Suitable for installing into tubular legs. We have a full range of expanding adaptors, pintle bolts, threaded tube ends, grip neck and friction stems and solid pintles, all designed to work seamlessly with any bolt hole castor.



Washer mount (for bolt hole)

Suitable for mounting bolt hole castors into equipment that do not have tubular legs.



Plate mount

Suitable for mounting onto equipment that have smooth flat surfaces, such as sheet metal or wood.



More information on fitting options can be found from page 64.