

Selecting a Castor

With a seemingly endless combination of wheels and frames available, selecting the right castor for your application can be challenging.

Below are four variables to consider when choosing a castor.



Load Capacity

Heavier loads will require increased capacity castors with wheels made from higher density materials. Bearing selection is also an important consideration: Roller bearings can carry heavier loads than ball bearings. To calculate the minimum load capacity required, divide the weight of the load by the number of castors on which the weight is distributed.

Richmond wheels and castors range from load capacities of 40kg to 10,000kg.

Climate & Environment

Stainless steel frames and bearings are available for use in harsh conditions. Many wheel types will not survive extreme heat or cold, so Richmond developed a range of high and low temperature wheels for applications such as commercial freezers or industrial ovens.

Richmond High/Low Temperature Wheels can perform in extreme temperatures from -30°C to 300°C.

Floor Type

Wheels will perform differently depending on the floor surface. For example, a solid nylon wheel would perform better on a carpeted surface than a softer rebound rubber wheel. This is due to the decreased rolling resistance of the nylon wheel. On a harder surface such as concrete or tiles, a rubber wheel will perform much better than solid nylon. An uneven surface may lead to irregular weight distribution, increasing the load on the castors. It also could be important to select a wheel type that won't mark the surface the castor is to be used on.

Richmond can recommend a wheel type to suit any floor surface.

Ease of Rolling

The major factors that contribute to rolling resistance are load, wheel diameter, wheel hardness and floor surface. Rolling resistance can be decreased by selecting the largest suitable wheel diameter and the hardest suitable wheel material for your application.

When unsure, speak with our knowledgeable staff to advise you on the most suitable castor for your application.

Castors For All Applications

Available in capacities ranging from 40kgs up to 10 tonne, Richmond's range of castors are available in thousands of varieties to suit all kinds of industries and requirements. Our castors are available with a huge variety of wheel types and frame options, including plate mounted rigid, swivel, brake, directional lock options; as well as bolt hole mounted swivel and brake varieties.

Contact our staff or visit our website to find the perfect castor for your application.

Light Duty / General Use

Designed to handle loads ranging from 40-100kg. Our range of light duty castors are suitable for all kinds of everyday applications including household furniture, light duty cabinets, shop fitting applications, display equipment and more.

Available in 50-100mm wheel diameters, our range of light duty castors includes single and twin wheel castors. Available in plate or bolt mount in rigid, swivel, and brake varieties.



Medium Duty

Available in mild or stainless steel varieties Richmond's range of medium duty castors are designed to suit capacities from 100-250kg. These medium duty castors are suitable for medical equipment, laboratory equipment, kitchens, cool rooms, general industry, and more.

Our range of medium duty castors are available with 50-150mm wheels in a variety of wheel types including rebound rubber, nylon, polyurethane, high temp polymer, and lots more.



Heavy Duty / High Capacity

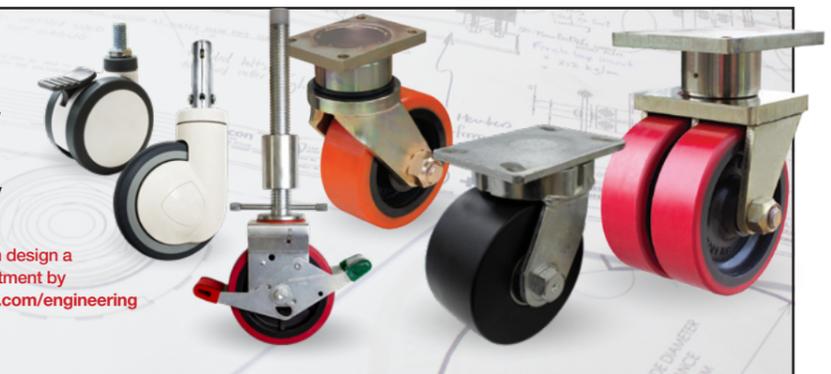
Available in a huge variety of wheel types Richmond's heavy duty and high capacity castors are suitable for heavy duty applications that require a load capacity of over 250kgs per castor. These hard wearing castors can handle almost anything you can throw at them and are suitable for a huge range of industries including logistics, manufacturing, rapid moving production lines, steel manufacture, exhibition services, waste bins, and more.



Specialty Castors

Your industry may require a specific solution, that's why we stock a range of castors designed to suit specific jobs, including medical castors, scaffold castors, and more. We can also work with you to design heavier duty or unique solutions for your industry.

Richmond's Melbourne-based engineering department can custom design a solution to meet your requirements. Contact our engineering department by emailing engineering@richmondau.com or visit www.richmondau.com/engineering to find out how we can help with your project.



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