

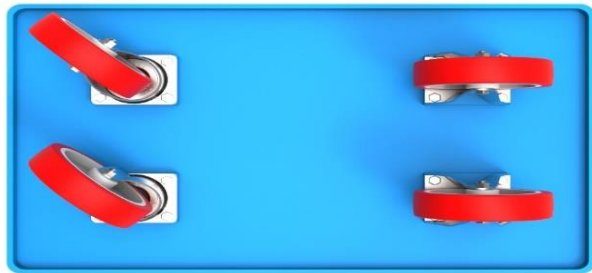
## **Castor Configurations & Loadings**

The effect of uneven floors due to cracking, joints or gullies must be allowed for when assessing the required load rating of a castor. The degree of such defects will determine the extra shock loads acting on the castors.

Castor configurations – these will also effect load calculations as, when moving, one or other castors may float on uneven floors removing its share from the loading. An allowance for this must be made, and so the castor load capacities are listed below, along with the uses and characteristics of each configuration.

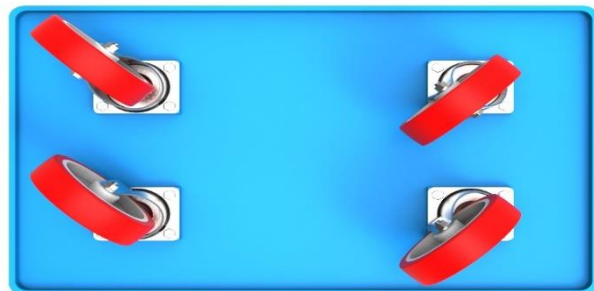
### **Two swivel + two fixed**

When pushed with the two fixed castors leading, this offers the best load control with good steering on straight runs and chambers. Suitable for most loads. Castor capacity at least 33% of total gross load.



### **Four Swivel**

For maximum manoeuvrability. Difficult to control on straight runs, cambers and uneven surfaces, particularly with heavy loads – to overcome this fit directional locks. Castors capacity at least 33% of total gross load.



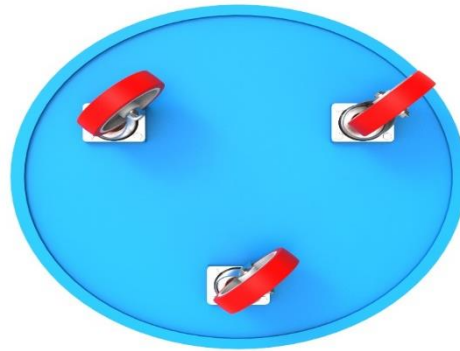
### **One swivel & two fixed**

For easy manoeuvrability. Suitable only for small trolleys with light loads. Stability can be a problem so loads must be distributed evenly. Castor capacity at least 40% of total gross load.



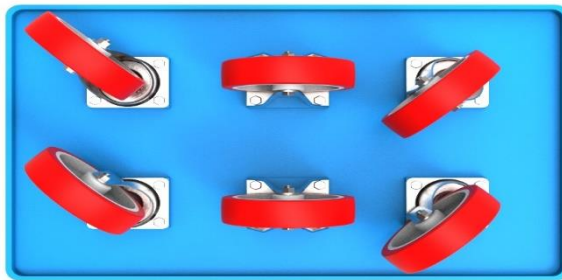
**Three swivel**

For maximum manoeuvrability. Can be difficult to control on straight runs, cambers and uneven surfaces. Suitable only for small trolleys with light loads. Castor capacity at least 40% of total gross load.



**Four swivel & two fixed, centrally pivoting**

Usually used on long trolleys to optimise control and manoeuvrability. The two central fixed castors are usually one size larger, or the same size as the swivel and fitted with 25mm packing under the top plate. Castor capacity for the fixed castors at least 50% of total gross load. Swivel castor loads will vary.



**Two swivel & two fixed, centrally pivoting**

Similar to the above but less stable if the load is not evenly distributed. The two central fixed castors are usually one size larger, or the same size as the swivel and fitted with a 25mm packing under the top plate. Castor capacity for the fixed castors at least 50% of total gross load. Swivel castor loads will vary.

