

# SELECTION OF WHEELS

## Important points while ordering castors and wheels

The life of the castor wheels depends on the following factors, to select correct load capacity, to select correct wheels suitable to the flooring, normal working temperature and local atmospheric conditions, noise levels, wear resistant, shock proof, resistant to chemical etc.

## LOAD CAPACITY of castors and wheels

The following formula is generally used to calculate the wheel load capacity trolley/ frame, weight + load divided by three. This calculation is brought about by the fact that very often, because of uneven flooring condition, jerks, shock loads, difference in level on goods lift, rough and hard, sharp edges or steps only three wheels constantly rest on the ground. One of the wheel just idles. The other wheels are overloaded. Therefore Additional safety factors may be considered when calculating Loading capacity. To avoid castor failures due to overload consider the capacity of castor at 50% of normal capacity.

## SWIVELING MOVEMENT AND SMOOTHNESS on operating the trolleys

Castor smoothness depends on load, wheel diameter, tyre, kind of hub, bearing, rollers or bushes and type of flooring. In addition to these factors, the fork swiveling movement also depends on ball diameter and rotation system, offset and type of bearings. As the diameter of wheel increases the push/ pull effort are reduced.

## NON MARKING on floorings

Nylon / CI wheels have always had the disadvantage of leaving dark trails on flooring. High-quality anti-static polyurethane wheels/ rubber bonded wheels that do not leave any trail on flooring both during the movement and while remaining stationary for long time. The pu and rubber wheel are soft in nature and have low noise level

## BRAKING (locking)

Several brake devices are available to allow slope stopping, facilitate direction and lock the 4 wheels of the equipment individually or simultaneously in the desired place with a single movement.

Manufactured by : MECH ENGINEERING CORPORATION

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Manufacturer reserve the right to change the design for continuous development and improvement  
All the load carrying capacity mentioned are in Kgs.

