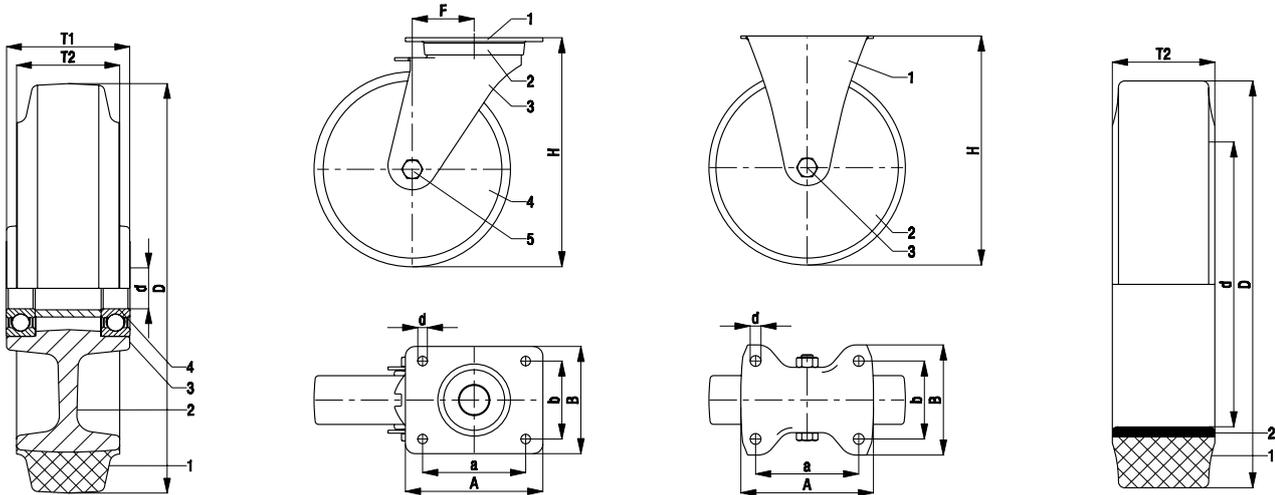


# Wheels and castors guide

## Basic information / definitions



### Wheel

### Swivel castor

### Fixed castor

### Press-on band / tyre

**Designations:**

- 1 = tread / tyre
- 2 = wheel centre / rim
- 3 = hub
- 4 = wheel bearing

**Dimensions:**

- D = wheel diameter
- d = bore diameter
- T1 = hub length
- T2 = wheel width

Wheels are made up of a tread / tyre, wheel centre / rim and a wheel bearing.

Wheels vary in terms of their load capacity, rolling resistance and rolling quality. The special properties of each individual wheel series are explained in detail from page 60 onwards.

**Designations:**

- 1-3 = swivel bracket
  - 1 = top plate
  - 2 = swivel head (swivel bearing)
  - 3 = swivel fork
- 4 = wheel
- 5 = wheel axle

**Dimensions:**

- H = total height / mounting height
- F = offset
- A, B = plate dimensions
- a, b = bolt hole spacing
- d = bolt hole diameter

Swivel castors can be rotated around the vertical axis, improving the manoeuvrability of machinery, equipment, etc. A swivel head (swivel bearing) connects the fork (swivel fork) to the fitting.

There is normally some horizontal distance between the centre of the swivel bearing and the wheel axle (offset), so the fork can swivel freely. This offset allows the castor to rotate easily without additional equipment. It also gives the castor a stable rolling characteristic when travelling straight.

Swivel castors can be fitted with different locks to brake

- the rotation of the wheel (wheel brake)
- the rotation of the wheel and the swivel motion of the fork (wheel and swivel head brake)
- the swivel motion of the fork (directional lock)

**Designations:**

- 1 = fixed bracket
- 2 = wheel
- 3 = wheel axle

**Dimensions:**

- H = total height / mounting height
- A, B = plate dimensions
- a, b = bolt hole spacing
- d = bolt hole diameter

Fixed castors do not swivel and make it easier to move machinery, equipment, etc. in a particular direction without deviating.

**Designations:**

- 1 = tread / tyre
- 2 = steel-band

**Dimensions:**

- D = outer diameter
- d = internal diameter
- T2 = width

Press-on bands / tyres consist of various elastomers and are fitted with a steel band or steel insert.

Press-on bands / tyres vary in terms of their load capacity, rolling resistance and rolling quality. The special properties of each individual press-on band / tyre are explained in detail on page 80-81.

The cross-sections of the wheels on the product pages only provide an example of that particular series. Wheels within the same series may have different designs due to technical reasons.