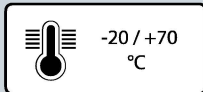


## "TR-ROLL" POLYURETHANE WHEELS WITH ERGONOMIC ROUND PROFILE AND ALUMINIUM CENTRE



### Description

Tyre: very thick TR-Roll polyurethane with ergonomic round profile, hardness 75 Shore A, excellent rolling resistance and elasticity and good resistance to wear and tear.

Centre: made of cast aluminium.

Hub with shielded ball bearings with interference assembly in the seats obtained by centre moulding; also available without bearings.

### Uses

The round profile reduces the start-up coefficient when the castors are positioned at 90° from the line of movement and therefore greatly reduces the amount of effort required by the operators when handling trolleys.

Combined with appropriate brackets, they guarantee excellent performance for mechanical handling up to 16 km/h.

Examples of application: trolleys for the automotive industry, lean manufacturing trolleys and whenever a combination of manual/powering handling is involved.

### Environments of use

Industrial environments, even in presence of humidity and oils. Not suitable in presence of strong acids and solvents.

|              |  |
|--------------|--|
| WEAK ACIDS   |  |
| STRONG ACIDS |  |
| WATER        |  |
| ALCOHOL      |  |

|              |  |
|--------------|--|
| WEAK BASES   |  |
| STRONG BASES |  |
| HYDROCARBONS |  |
| SOLVENTS     |  |

For information on the compatibility of the component wheel materials with specific aggressive chemical substances, see table at page 36.



### Floors

Suitable for all types of industrial floors, even outdoors. Facilitates the overcoming of obstacles.

It does not damage the floors.



### Force required to push or tow a wheel

|   | 150 kg | 250 kg | 350 kg | 450 kg | 550 kg | 700 kg |
|---|--------|--------|--------|--------|--------|--------|
| 125x40 mm   | < 1    | 1,5    | 5      | ----   | ----   |        |
| 125x50 mm   | < 1    | 1      | 2      | 3      |        |        |
| 160 mm  | < 1    | 1      | 2      | 3      | 3,5    |        |
| 200 mm  | < 1    | < 1    | 1      | 2      | 3      | 4      |

For each load and diameter, the table indicates the force (in daN) needed to push or tow a single wheel at the constant speed of 4 km/h on smooth flooring. For manual handling of a 4-wheeled trolley we recommend diameters that have values < 5 daN, for frequent handling we recommend diameters with values < 3 daN.

### Fittings with brackets



#### Standard-duty brackets NL

Maximum carrying capacity 300 daN - available diameters 125-200 mm  
Top plate fitting. Available with front brake.



#### Medium-duty brackets M

Maximum carrying capacity 500 daN - available diameters 160-200 mm  
Top plate fitting. Available with adjustable front brake.



#### Medium-heavy duty brackets P

Maximum carrying capacity 700 daN - available diameters 125-200 mm  
Top plate fitting. Available with adjustable rear brake.



#### Extra-heavy duty brackets EP

Maximum carrying capacity 700 daN - available diameters 160-200 mm  
Top plate fitting. Available with adjustable rear brake.



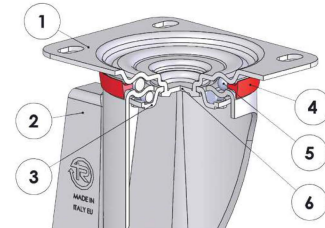
#### Electrowelded brackets EE MHD

Maximum carrying capacity 700 daN - available diameters 125-200 mm  
Top plate fitting. Available with adjustable rear brake.



| mm  |    | kg   |        | COD. |        | mm |     | mm |      | mm   |     | mm  |     | Static | 4 km/h | 6 km/h |
|-----|----|------|--------|------|--------|----|-----|----|------|------|-----|-----|-----|--------|--------|--------|
| mm  | mm | kg   | COD.   | kg   | COD.   | mm | mm. | mm | mm   | daN  | daN | daN | daN | daN    | daN    | daN    |
| 125 | 40 | 0,68 | 622163 | 0,45 | 624163 | 20 | 40  | 47 | 14   | 500  | 350 | 350 | 350 |        |        |        |
| 125 | 40 | 0,73 | 622143 | 0,51 | 624143 | 20 | 50  | 47 | 14   | 500  | 350 | 350 | 350 |        |        |        |
| 125 | 50 | 0,88 | 622153 | 0,65 | 624153 | 20 | 58  | 47 | 14   | 500  | 450 | 450 | 450 |        |        |        |
| 160 | 50 | 1,11 | 622144 | 0,89 | 624144 | 20 | 58  | 47 | 14,5 | 800  | 550 | 550 | 550 |        |        |        |
| 200 | 50 | 1,68 | 622146 | 1,44 | 624146 | 20 | 58  | 47 | 14   | 1000 | 700 | 700 | 700 |        |        |        |

**Standard-duty brackets NL - max carrying capacity 300 daN**



- 1) Plate: electrolytically galvanised steel plate
  - 2) Fork: electrolytically galvanised steel plate
  - 3) Ball race ring: electrolytically galvanised steel plate
  - 4) Dust seal: orange polyethylene
  - 5) Swivel actions: double ball ring with grease lubrication
  - 6) King pin: integrated with the plate and cold-rievted
- Available with total front foot brake

| mm  |    | kg   |        | CODE |        | kg   |        | CODE |         | mm     |    | mm |     | mm |    | mm |    | mm |     | 4 km/h |
|-----|----|------|--------|------|--------|------|--------|------|---------|--------|----|----|-----|----|----|----|----|----|-----|--------|
| mm  | mm | kg   | CODE   | kg   | CODE   | kg   | CODE   | mm   | mm      | mm     | mm | mm | mm  | mm | mm | mm | mm | mm | daN |        |
| 125 | 40 | 1.35 | 628703 | 1.17 | 628803 | 1.51 | 628903 | 156  | 100x85  | 80x60  | 9  | 35 | 120 |    |    |    |    |    | 220 |        |
| 125 | 40 | 1.46 | 628713 | 1,11 | 628813 | 2,34 | 628913 | 166  | 140x110 | 105x80 | 11 | 57 | 156 |    |    |    |    |    | 300 |        |
| 160 | 50 | 2,95 | 628704 | 2,24 | 628204 | 3,42 | 628904 | 199  | 140x110 | 105x80 | 11 | 57 | 156 |    |    |    |    |    | 300 |        |
| 200 | 50 | 3,69 | 628716 | 3,04 | 628206 | 4,07 | 628916 | 240  | 140x110 | 105x80 | 11 | 57 | 156 |    |    |    |    |    | 300 |        |

**Options available to order:**

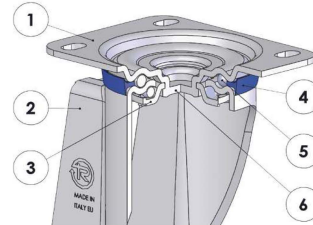


Footguard for brackets NL



Directional lock for brackets NL diam. 160-200 mm

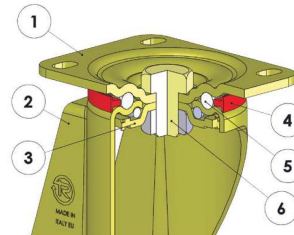
**Medium-duty brackets M - max carrying capacity 500 daN**



- 1) Plate: electrolytically galvanised steel plate
  - 2) Fork: electrolytically galvanised steel plate
  - 3) Ball race ring: electroplated galvanised steel
  - 4) Dust seal: blue polyethylene
  - 5) Swivel actions: double ball ring with grease lubrication
  - 6) King pin: integrated with the plate and cold-riveted
- Available with adjustable total front foot brake

| mm  | mm | kg   | COD.   | kg   | COD.   | kg   | COD.   | mm  | mm      | mm     | mm | mm | mm  | daN |
|-----|----|------|--------|------|--------|------|--------|-----|---------|--------|----|----|-----|-----|
| 160 | 50 | 2,81 | 624604 | 2,10 | 628204 | 3,28 | 627904 | 199 | 140x110 | 105x80 | 11 | 58 | 178 | 500 |
| 200 | 50 | 3,52 | 624606 | 2,87 | 628206 | 3,90 | 627906 | 240 | 140x110 | 105x80 | 11 | 50 | 178 | 500 |

**Medium-heavy duty brackets P - max carrying capacity 700 daN**



- 1) Plate: galvanised colonial steel plate
  - 2) Fork: galvanised colonial steel plate
  - 3) Ball race ring: galvanised colonial steel plate
  - 4) Dust seal: orange polyamide
  - 5) Swivel actions: double ball ring with grease lubrication
  - 6) King pin: steel bolt in grade 8.8 steel and steel nut
- Available with total front foot brake

| mm  | mm | kg   | COD.   | kg   | COD.   | kg   | COD.   | mm  | mm     | mm    | mm | mm | daN | daN |     |
|-----|----|------|--------|------|--------|------|--------|-----|--------|-------|----|----|-----|-----|-----|
| 125 | 40 | 2,27 | 629023 | 1,63 | 629123 | 2,83 | 629523 | 161 | 100x85 | 80x60 | 9  | 44 | 123 | 350 | 350 |

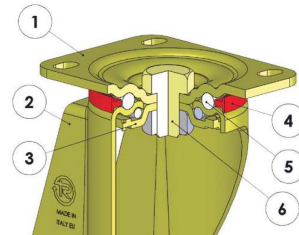
Options available to order:



Footguard  
for brackets  
M-P



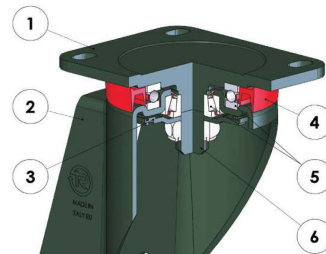
**Heavy duty brackets P - max carrying capacity 700 daN**



- 1) Plate: galvanised colonial steel plate
  - 2) Fork: galvanised colonial steel plate
  - 3) Ball race ring: galvanised colonial steel plate
  - 4) Dust seal: orange polyamide
  - 5) Swivel actions: double ball ring with grease lubrication
  - 6) King pin: steel bolt in grade 8.8 steel and steel nut
- Available with adjustable total rear foot brake

| mm  |    | kg   |        | COD. |        | kg   |        | COD. |         | mm     |    | mm |     | mm  |     | mm     |        | daN |  | daN |  |
|-----|----|------|--------|------|--------|------|--------|------|---------|--------|----|----|-----|-----|-----|--------|--------|-----|--|-----|--|
| 125 | 40 | 2,27 | 629003 | 1,63 | 629103 | 2,83 | 629203 | 170  | 140x110 | 105x80 | 11 | 70 | 126 | 350 | 350 | 4 km/h | 6 km/h |     |  |     |  |
| 125 | 50 | 2,42 | 629013 | 2,78 | 629113 | 2,95 | 629213 | 170  | 140x110 | 105x80 | 11 | 70 | 126 | 450 | 400 |        |        |     |  |     |  |
| 160 | 50 | 3,46 | 629004 | 2,28 | 629104 | 4,27 | 629204 | 205  | 140x110 | 105x80 | 11 | 70 | 126 | 550 | 550 |        |        |     |  |     |  |
| 200 | 50 | 4,14 | 629006 | 2,68 | 629106 | 4,74 | 629206 | 250  | 140x110 | 105x80 | 11 | 70 | 126 | 700 | 700 |        |        |     |  |     |  |

**Extra-heavy duty brackets EP - max carrying capacity 700 daN**



- 1) Plate: green galvanised forged steel
  - 2) Fork: green galvanised forged steel
  - 3) Lower bearing protection ring
  - 4) Dust seal: orange polyethylene
  - 5) Swivel actions: axial ball bearing and tapered roller bearing
  - 6) King pin: integrated with the machine-processed plate
- Available with adjustable total rear foot brake

| mm  |    | kg   |        | COD. |        | kg   |        | COD. |         | mm     |    | mm |     | mm  |     | mm     |        | daN |  | daN |  |
|-----|----|------|--------|------|--------|------|--------|------|---------|--------|----|----|-----|-----|-----|--------|--------|-----|--|-----|--|
| 160 | 50 | 3,62 | 629304 | 3,21 | 629404 | 4,14 | 629504 | 205  | 135x110 | 105x80 | 11 | 70 | 126 | 550 | 550 | 4 km/h | 6 km/h |     |  |     |  |
| 200 | 50 | 4,40 | 629306 | 3,96 | 629406 | 4,97 | 629506 | 250  | 135x110 | 105x80 | 11 | 70 | 126 | 700 | 700 |        |        |     |  |     |  |

**Options available to order:**

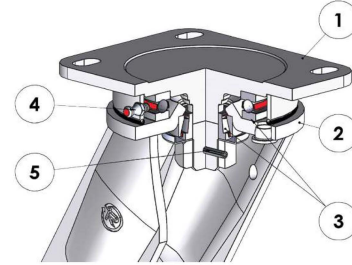


Footguard for brackets P



Directional lock for brackets P diam. 160-200 mm

**Electrowelded brackets EE MHD - max carrying capacity 700 daN**



- 1) Plate: forged steel with integrated pin
  - 2) Fork: deep-drawn legs electro-welded to the flange
  - 3) Swivel actions: axial ball bearing and tapered roller bearing
  - 4) Grease nipple
  - 5) Anti-loosening system nut
- Available with adjustable total rear foot brake

| mm  |    | kg   |        | COD. |        | kg   |        | COD. |         | mm     |    | mm |     | mm  |     | mm     |        | daN |  | daN |  |
|-----|----|------|--------|------|--------|------|--------|------|---------|--------|----|----|-----|-----|-----|--------|--------|-----|--|-----|--|
| 125 | 40 | 3,65 | 629603 | 2,67 | 629703 | 4,53 | 629803 | 182  | 135x110 | 105x80 | 11 | 51 | 157 | 350 | 350 | 4 km/h | 6 km/h |     |  |     |  |
| 125 | 50 | 3,80 | 629613 | 2,82 | 629713 | 4,68 | 629813 | 182  | 135x110 | 105x80 | 11 | 51 | 157 | 450 | 400 |        |        |     |  |     |  |
| 160 | 50 | 4,11 | 629604 | 3,12 | 629704 | 4,99 | 629804 | 215  | 135x110 | 105x80 | 11 | 60 | 157 | 550 | 550 |        |        |     |  |     |  |
| 200 | 50 | 4,80 | 629606 | 3,82 | 629706 | 6,14 | 629806 | 252  | 135x110 | 105x80 | 11 | 70 | 157 | 700 | 700 |        |        |     |  |     |  |

**Options available to order:**



Directional lock  
for brackets EE MHD  
- EE HD - EED MHD:  
see page 332