



ESD "TR-ROLL" POLYURETHANE WHEELS, ELECTRICAL RESISTANCE <math><10^9 \Omega</math> WITH ALUMINIUM CENTRE


 100-200 mm

 75 Shore A

 225-560 daN
4 km/h

 225-560 daN
6 km/h

 240-480 daN

 -20 / +70 °C

 **R** <math><10^9 \Omega</math>



Description

Tyre: very thick ESD TR-Roll polyurethane, light-grey non-marking colour, hardness 75 Shore A, with 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

Suitable for medium-heavy duty application, in those environments where, for safety reasons or for the correct functioning of the equipment, an electro static discharge is required.


This polyurethane compound combines the carrying capacity and the resistance to wear and tear of the polyurethanes with the ability to overcome obstacles and to damp noise, vibrations and impacts of the elastic rubber.

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

The excellent rolling resistance guarantees an easy handling of heavy loads even with wheels of small diameter.

Environments of use

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

| | | | |
|--------------|---|--------------|---|
| WEAK ACIDS |  | WEAK BASES |  |
| STRONG ACIDS |  | STRONG BASES |  |
| WATER |  | HYDROCARBONS |  |
| ALCOHOL |  | SOLVENTS |  |

For information on the compatibility of the component wheel materials with specific aggressive chemical substances, see table at page 40.



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

|   | 100 kg | 200 kg | 300 kg | 400 kg | 500 kg | 550 kg |
|---|--------|--------|--------|--------|--------|--------|
| 100 mm | <1 | 2 | ---- | ---- | ---- | ---- |
| 125 mm | <1 | 1,7 | 3,1 | ---- | ---- | ---- |
| 160 mm | <1 | 1,6 | 2,8 | 4,4 | ---- | ---- |
| 200 mm | <1 | 1,2 | 2,3 | 3,7 | 5,2 | 6,1 |

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 100-200 mm
Top plate fitting. Available with front brake and centralised 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 560 daN - available diameters 100-250 mm
Top plate fitting. Available with front brake and adjustable rear brake.



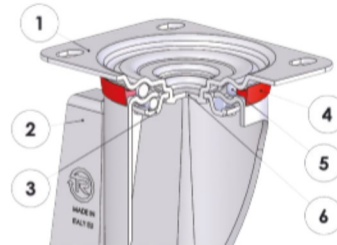
Heavy-duty PT brackets with hardened ball race grooves

Maximum carrying capacity 560 daN - available diameters 160-200 mm
Top plate fitting. Available with adjustable rear brake.



| mm | mm | kg | COD. | kg | COD. | mm | mm. | mm | mm | daN | daN | daN | daN |
|-----|----|------|-----------|------|-----------|----|-----|----|----|-----|-----|-----|-----|
| 100 | 40 | 0,45 | 622102ESD | 0,37 | 624102ESD | 15 | 40 | 32 | 9 | 320 | 240 | 240 | 240 |
| 125 | 40 | 0,79 | 622113ESD | 0,54 | 624113ESD | 20 | 40 | 47 | 14 | 400 | 280 | 280 | 280 |
| 160 | 50 | 1,20 | 622104ESD | 0,95 | 624104ESD | 20 | 58 | 47 | 14 | 640 | 440 | 440 | 440 |
| 200 | 50 | 1,74 | 622106ESD | 1,52 | 624106ESD | 20 | 58 | 47 | 14 | 800 | 480 | 560 | 560 |

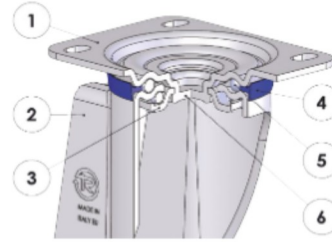
Standard-duty brackets NL - max carrying capacity 300 daN



- 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-riveted
- Available with total front foot brake

| mm | mm | kg | COD. | kg | COD. | kg | COD. | mm | mm | mm | mm | mm | mm | mm | daN |
|-----|----|------|-----------|------|-----------|------|-----------|-----|---------|--------|----|----|-----|-----|-----|
| 100 | 40 | 0,86 | 624402ESD | 0,83 | 626202ESD | 1,05 | 627302ESD | 128 | 100x85 | 80x60 | 9 | 35 | 120 | 200 | |
| 125 | 40 | 1,35 | 624413ESD | 1,17 | 626213ESD | 1,51 | 627313ESD | 156 | 100x85 | 80x60 | 9 | 37 | 120 | 220 | |
| 160 | 50 | 2,88 | 624410ESD | 2,24 | 627704ESD | 3,42 | 627304ESD | 199 | 140x110 | 105x80 | 11 | 56 | 156 | 300 | |
| 200 | 50 | 3,18 | 624406ESD | 3,04 | 627706ESD | 3,70 | 627306ESD | 240 | 140x110 | 105x80 | 11 | 56 | 156 | 300 | |

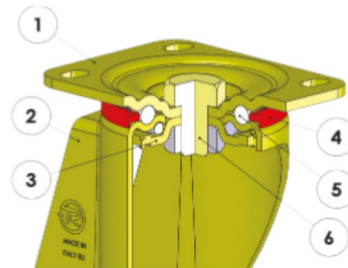
Medium-duty brackets M - max carrying capacity 500 daN



- 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 | 2,95 | 624504ESD | 2,24 | 627704ESD | 3,42 | 627404ESD | 199 | 140x110 | 105x80 | 11 | 58 | 178 | 440 |
| 200 | 50 | 3,69 | 624506ESD | 3,04 | 627706ESD | 4,07 | 627406ESD | 240 | 140x110 | 105x80 | 11 | 50 | 178 | 500 |

Medium-heavy duty brackets P - max carrying capacity 560 daN



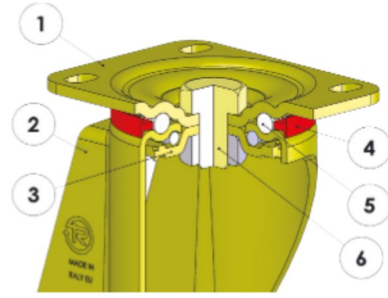
- 1) Plate: galvanised colonial steel plate
 - 2) Fork: galvanised colonial steel plate
 - 3) Ball race ring: galvanised colonial steel plate
 - 4) Dust seal: orange polyamide
 - 5) Swivel actions: double ball ring with grease lubrication
 - 6) King pin: steel bolt in grade 8.8 steel and steel nut
-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

| mm | mm | kg | COD. | kg | COD. | kg | COD. | mm | mm | mm | mm | mm | mm | daN |
|-----|----|------|-----------|------|-----------|------|-----------|-----|--------|-------|----|----|-----|-----|
| 100 | 40 | 1,35 | 627602ESD | 0,85 | 628512ESD | 1,52 | 627202ESD | 138 | 100x85 | 80x60 | 9 | 46 | 123 | 240 |
| 125 | 40 | 1,70 | 627613ESD | 1,26 | 628513ESD | 1,87 | 627213ESD | 161 | 100x85 | 80x60 | 9 | 44 | 123 | 280 |

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ESD "TR-ROLL" POLYURETHANE WHEELS, ELECTRICAL RESISTANCE $<10^9 \Omega$ WITH ALUMINIUM CENTRE

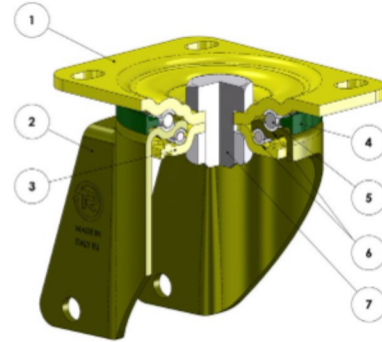
Medium-heavy duty brackets P - max carrying capacity 560 daN



- 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

| 160 | | 200 | | 205 | | 250 | | 140x110 | | 105x80 | | 4 km/h | | 6 km/h | |
|-----|----|------|-----------|------|-----------|------|-----------|---------|---------|--------|----|--------|-----|--------|-----|
| mm | mm | kg | COD. | kg | COD. | kg | COD. | mm | mm | mm | mm | mm | daN | daN | |
| 160 | 50 | 3,60 | 627610ESD | 2,11 | 628514ESD | 4,17 | 627204ESD | 205 | 140x110 | 105x80 | 11 | 70 | 126 | 440 | 440 |
| 200 | 50 | 4,31 | 627516ESD | 2,85 | 628516ESD | 4,91 | 627206ESD | 250 | 140x110 | 105x80 | 11 | 70 | 126 | 560 | 560 |

Heavy-duty PT brackets with hardened ball race grooves - max carrying capacity 560 daN



- 1) Top Plate: electrolytically galvanised steel plate
 - 2) Fork: electrolytically galvanised steel plate
 - 3) Ball Race Ring: electrolytically galvanised steel plate
 - 4) Dust Seal: dark green polyamide 6
 - 5) Swivel actions: double ball ring with grease lubrication
 - 6) Ball race: hardened carbon steel grooves
 - 7) King pin: steel screw, class 8.8 and stainless steel nut
- Available with rear adjustable brake

| mm | | kg | | kg | | kg | | mm | | mm | | mm | | mm | | daN | |
|-----|----|------|-----------|------|-----------|------|-----------|-----|---------|--------|----|----|-----|-----|-----|-----|-----|
| mm | mm | kg | COD. | kg | COD. | kg | COD. | mm | mm | mm | mm | mm | mm | mm | mm | daN | daN |
| 160 | 50 | 3,52 | 625010ESD | 2,11 | 628514ESD | 4,12 | 629904ESD | 205 | 140x110 | 105x80 | 11 | 70 | 126 | 440 | 440 | | |
| 200 | 50 | 4,10 | 625016ESD | 2,85 | 628516ESD | 4,66 | 629906ESD | 250 | 140x110 | 105x80 | 11 | 70 | 126 | 560 | 560 | | |