

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

-  125-200 mm
-  95 Shore A
-  450-800 daN  
4 km/h
-  360-640 daN  
6 km/h
-  250-300 daN
-  -20 / +80 °C



### Description

Tyre: very thick TR-Roll polyurethane with ergonomic round profile; hardness 95 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

Designed to improve trolleys' manual handling under heavy loads. 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 12 km/h.

Examples of application: trolleys for the automotive industry, lean manufacturing trolleys and electrical pallet trucks.

### Environments of use

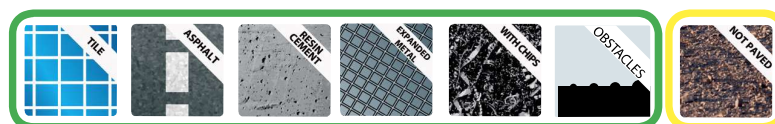
Designed for industrial environments, even in presence of alcohols, glycols, hydrocarbons. Not recommended in areas with organic acids and mineral acids, base solutions and saturated vapour.

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 36.

### Floors

Suitable for all types of industrial floors, except unpaved; it easily overcomes obstacles.



### Force required to push or tow a wheel

 	100 kg	250 kg	400 kg	500 kg	650 kg	800 kg
125 mm	2,5	5	7	----	----	----
160 mm	1,8	4,7	6	7	11	----
200 mm	1,2	4,5	5,4	6,2	9	12

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



#### 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 750 daN - available diameters 125-200 mm  
Top plate fitting. Available with adjustable rear brake.



#### Extra-heavy duty brackets EP

Maximum carrying capacity 800 daN - available diameters 160-200 mm  
Top plate fitting. Available with adjustable rear brake.



#### Electrowelded brackets EE MHD

Maximum carrying capacity 800 daN - available diameters 125-200 mm  
Top plate fitting. Available with adjustable rear brake.

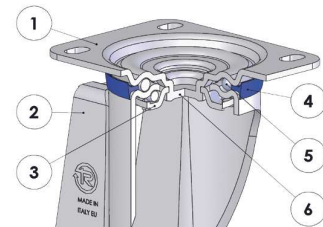
# SERIES 65<sup>ER</sup>

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



mm	mm	kg	COD.	kg	COD.	mm	mm.	mm	mm	Static	4 km/h	6 km/h	
125	40	0,73	652503	0,51	654503	20	50	47	14	<b>650</b>	<b>250</b>	<b>450</b>	<b>360</b>
160	50	1,11	652504	0,89	654504	20	58	47	14,5	<b>900</b>	<b>280</b>	<b>700</b>	<b>560</b>
200	50	1,68	652506	1,44	654506	20	58	47	14	<b>1000</b>	<b>300</b>	<b>800</b>	<b>640</b>

### 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-rieveted
- Available with adjustable total front foot brake

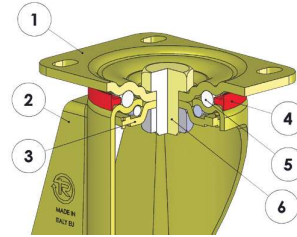
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN
160	50	2,81	655904	2,10	656004	3,28	656304	199	140x110	105x80	11	58	178	<b>500</b>
200	50	3,52	655906	2,87	656006	3,90	656306	240	140x110	105x80	11	50	178	<b>500</b>

### Options available to order:



Footguard  
for brackets  
M-P

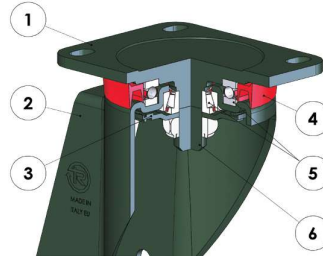
**Heavy duty brackets P - max carrying capacity 750 daN**



- 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	655913	1,63	656013	2,83	656313	170	140x110	105x80	11	70	126	450	360						
160	50	3,46	655914	2,28	656014	4,27	656314	205	140x110	105x80	11	70	126	700	560						
200	50	4,14	655916	2,68	656016	4,74	656316	250	140x110	105x80	11	70	126	750	640						

**Extra-heavy duty brackets EP - max carrying capacity 800 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	655924	3,21	656024	4,14	656324	205	135x110	105x80	11	70	126	700	560						
200	50	4,40	655926	3,96	656026	4,97	656326	250	135x110	105x80	11	70	126	800	640						

Options available to order:

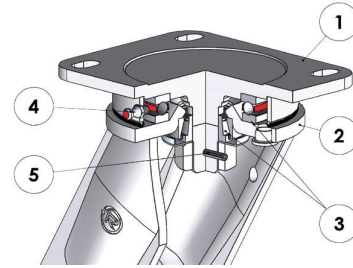


Footguard for brackets M-P



Directional lock for brackets P diam. 160-200 mm

**Electrowelded brackets EE MHD - max carrying capacity 800 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	
125	40	3,65	655933	2,67	656033	4,53	656333	182	135x110	105x80	11	51	157	450	360	4 km/h	6 km/h		
160	50	4,11	655934	3,12	656034	4,99	656334	215	135x110	105x80	11	60	157	700	560				
200	50	4,80	655936	3,82	656036	6,14	656336	252	135x110	105x80	11	70	157	800	640				

**Options available to order:**



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