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

100-250 mm

75 Shore A

200-800 daN
4 km/h

200-800 daN
6 km/h

200-700 daN

-20 / +70 °C



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/powered handling is involved.

Environments of use

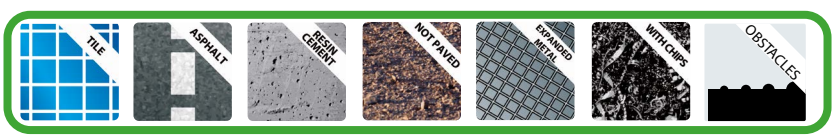
Industrial environments, even in presence of humidity and oils. Not suitable in presence of strong acids and solvents.

WEAK ACIDS		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

	150 kg	250 kg	350 kg	450 kg	550 kg	700 kg
100 mm	2	----	----	----	----	----
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
250 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 100-200 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.



Heavy-duty PT brackets with hardened ball race grooves
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.



Twin electrowelded brackets EEG MHD
Maximum carrying capacity 1400 daN - available diameters 160-200 mm
Top plate fitting. Available with adjustable rear foot brake, operating on wheel rotation only.



Electrowelded sprung-loaded brackets EES MHD
Maximum carrying capacity 700 daN - available diameters 160-200 mm
Top plate fitting. Available with adjustable front brake.

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



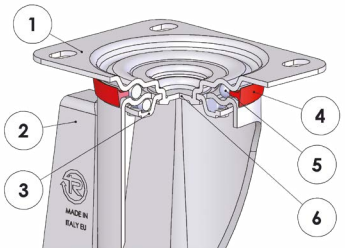
										Static		4 km/h	6 km/h
mm	mm	kg	COD.	kg	COD.	mm	mm.	mm	mm	daN	daN	daN	daN
100	40	0,57	622142	0,52	624142	20	40	47	14	**500**	**200**	**200**	**200**
125	40	0,68	622163	0,45	624163	20	40	47	14	**500**	**350**	**350**	**350**
125	40	0,73	622143	0,51	624143	20	50	47	14	**500**	**350**	**350**	**350**
125	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	**800**	**550**	**550**	**550**
200	50	1,68	622146	1,44	624146	20	58	47	14	**1000**	**700**	**700**	**700**
250	50	2,40	622148	2,10	624148	20	55	52	15	**1000**	**700**	**800**	**800**

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

														4 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
100	40	0.96	628702	0.80	628802	1.06	628902	156	100x85	80x60	9	35	120	**200**
125	40	1.35	628703	1.11	628803	1.51	628903	156	100x85	80x60	9	35	120	**220**
125	40	1.46	628713	1.,17	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	56	156	**300**
200	50	3,69	628716	3,04	628206	4,07	628916	240	140x110	105x80	11	56	156	**300**

Options available to order:



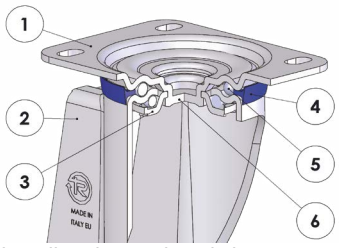
Footguard for brackets NL-M-P-PT



Directional lock for brackets NL diam. 160-200 mm

Medium-duty brackets M - max carrying capacity 500 daN





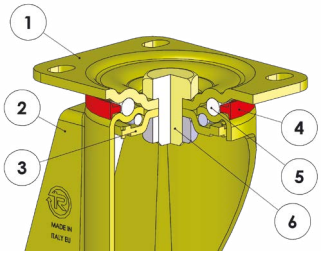
1) Plate: electrolytically galvanised steel plate
2) Fork: electrolytically galvanised steel plate
3) Ball race ring: electroplated galvanised steel
4) Dust seal: blue polyethylene
5) Swivel actions: double ball ring with grease lubrication
6) King pin: integrated with the plate and cold-riveted

Available with adjustable total front foot brake

		kg		kg		kg									4 km/h
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: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised 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

		kg		kg		kg									4 km/h	6 km/h
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	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 NL-M-P-PT

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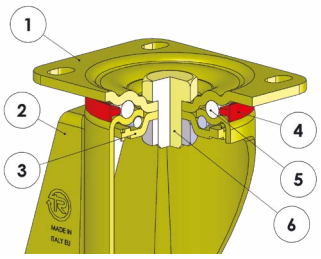
"TR-ROLL" POLYURETHANE WHEELS WITH ERGONOMIC ROUND PROFILE AND ALUMINIUM CENTRE

Heavy duty brackets P - max carrying capacity 700 daN



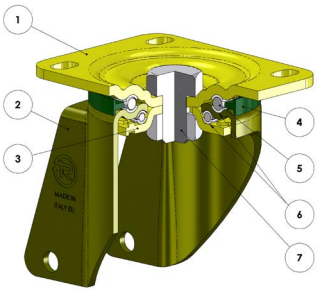


1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised steel plate
4) Dust seal: orange polyamide
5) Swivel actions: double ball ring with grease lubrication
6) King pin: steel bolt in grade 8.8 steel and steel nut
Available with adjustable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

		kg	COD.	kg	COD.	kg	COD.								4 km/h	6 km/h
mm	mm							mm	mm	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**
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**

Heavy-duty PT brackets with hardened ball race grooves - max carrying capacity 700 daN





1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow 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

		kg	COD.	kg	COD.	kg	COD.								4 km/h	6 km/h
mm	mm							mm	mm	mm	mm	mm	mm	daN	daN
125	50	2,42	629033	1,96	629113	2,95	629233	170	140x110	105x80	11	70	126	**450**	**400**
160	50	3,52	629034	2,28	629104	4,12	629234	205	140x110	105x80	11	70	126	**550**	**550**
200	50	4,10	629036	2,68	629106	4,66	629236	250	140x110	105x80	11	70	126	**700**	**700**

Options available to order:



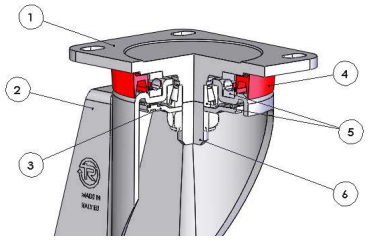
Footguard
for brackets NL-M-P-PT



Directional lock
for brackets P-PT
diam. 160-200 mm

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





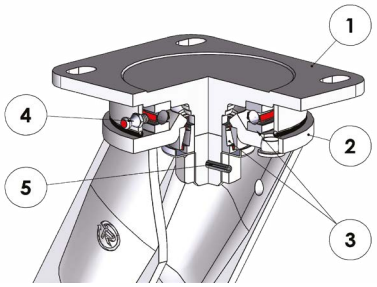
1) Plate: white galvanised forged steel
2) Fork: white galvanised forged steel
3) Lower bearing protection ring
4) Dust seal: orange polyethylene
5) Swivel actions: axial ball bearing and tapered roller bearing
6) King pin: integrated with the machine-processed plate

Available with adjustable total rear foot brake

																4 km/h	6 km/h
mm	mm	kg	COD.		kg	COD.		kg	COD.		mm	mm	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**
200	50	4,40	629306		3,96	629406		4,97	629506		250	135x110	105x80	11	70	126	**700**	**700**

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

																4 km/h	6 km/h
mm	mm	kg	COD.		kg	COD.		kg	COD.		mm	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**
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 - EEG MHD - EES MHD:
see page 428

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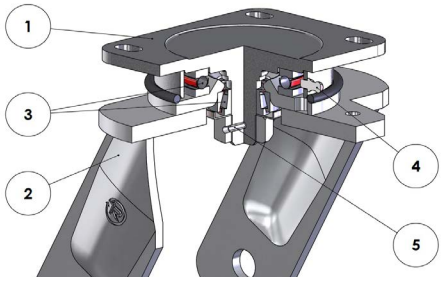
"TR-ROLL" POLYURETHANE WHEELS WITH ERGONOMIC ROUND PROFILE AND ALUMINIUM CENTRE

Twin electrowelded brackets EEG MHD - max carrying capacity 1400 daN



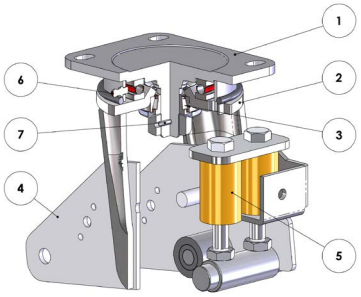


1) Plate: forged steel with integrated pin
2) Fork: deep-drawn tips electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Anti-loosening system nut
Available with adjustable rear foot brake, operating on wheel rotation only

		kg	COD.	kg	COD.	kg	COD.								4 km/h	6 km/h	
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	mm	daN	daN	
160	50+50	7,01	629074	6,14	629174	8,00	629274	221	135x110	135x175	105x80	11	55	182	**1100**	**1100**	
200	50+50	8,18	629076	7,33	629176	9,17	629276	258	135x110	135x175	105x80	11	65	182	**1400**	**1400**	

Electrowelded sprung-loaded bracket EES MHD - max load capacity 700 daN - damping up to 400 daN





1) Top plate: electrolytically galvanised forged steel with integrated pin.
2) Main fork: deep-drawn legs electrowelded to the flange and electrolitically galvanised U-shaped component electrowelded to the legs.
3) Swivel actions: axial ball bearing and tapered roller bearing
4) spring-hinged plates: plates electrowelded to the axle
5) Polyurethane springs
6) Grease nipple
7) Anti-loosening locknut system
Available with adjustable front lock

		kg	COD.	kg	COD.	kg	COD.								MIN	MAX	4 km/h	6 km/h		
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	mm	daN	daN	daN	daN		
160	50	7,07	626804	5,82	626904	8,13	627004	248	135x110	105x80	11	100	240	25	50	**400**	**550**	**550**		
200	50	7,67	626806	6,42	626906	8,78	627006	268	135x110	105x80	11	100	265	25	50	**400**	**700**	**700**		

Spring travel (mm): maximum difference in the total height of the group wheel + support depending on the spring tension

Initial tension (daN): in case of lighter loads than indicated, the bracket works with no damping

Spring tension (daN): in case of heavier loads than indicated, the bracket works with no damping