SERIES 62 AL

THICK "TR-ROLL" POLYURETHANE WHEELS WITH ALUMINIUM CENTRE

100-250 mm

75 Shore A

300-800 daN
4 km/h

300-800 daN
6 km/h

300-700 daN

-20 / +70 °C



Description

Tyre: very thick TR-Roll polyurethane, 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

Innovative product that combines the load capacity and the resistance to wear and tear of the polyurethane 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.
Examples of application: trolleys for the automotive industry, towing applications.

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 100-125 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 750 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 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 100-200 mm
Top plate fitting. Available with adjustable rear brake.

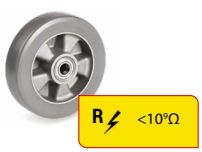


Twin electrowelded brackets EEG MHD - EEG HD
Maximum carrying capacity 1400 daN - available diameters 100-200 mm
Top plate fitting. Available with adjustable rear foot brake, operating on wheel rotation only (diam. 160-200 mm)



Electrowelded sprung-loaded brackets EES MHD
Maximum carrying capacity 800 daN - available diameters 160-250 mm
Top plate fitting. Available with adjustable front brake.

Options available to order:



ESD polyurethane wheels, with electrical resistance <10^9 Ohm
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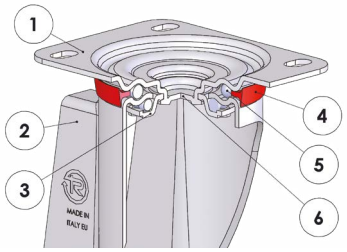
										Static		4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	mm	mm.	mm	mm	daN	daN	daN	daN
100	40	0,45	622102	0,37	624102	15	40	32	10	**400**	**300**	**300**	**300**
125	40	0,79	622113	0,54	624113	20	40	47	14	**500**	**350**	**350**	**350**
125	40	0,75	622103	0,53	624103	20	50	47	14	**500**	**350**	**350**	**350**
160	50	1,20	622104	0,95	624104	20	58	47	14	**800**	**550**	**550**	**550**
160	50	1,24	622114	0,95	624104	25	58	47	14	**800**	**550**	**550**	**550**
180	50	1,37	622105	1,15	624105	20	58	47	14	**900**	**600**	**600**	**600**
200	50	1,74	622106	1,52	624106	20	58	47	14	**1000**	**700**	**700**	**700**
200	50	1,84	622116	1,60	624106	25	58	47	14	**1000**	**700**	**700**	**700**
250	50	2.40	622108	2.10	624108	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	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN
100	40	0,86	624402	0,83	626202	1,05	627302	128	100x85	80x60	9	37	120	**200**
125	40	1,35	624413	1,17	626213	1,51	627313	156	100x85	80x60	9	35	120	**220**
125	40	1,46	624403	1,11	626203	2,34	627303	166	140x110	105x80	11	57	156	**300**
160	50	2,88	624410	2,24	627704	3,42	627304	199	140x110	105x80	11	56	156	**300**
200	50	3,18	624406	3,04	627706	3,70	627306	240	140x110	105x80	11	56	156	**300**

Options available to order:



Footguard
for brackets
NL-M-P

Standard-duty brackets NL - max carrying capacity 300 daN



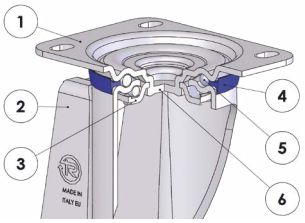
mm	mm	kg	COD.	mm	mm	mm	mm	mm	mm	mm	daN
160	50	2,74	624804	199	140x110	105x80	11	56	M10x1,5	65	**300**
200	50	3,32	624806	240	140x110	105x80	11	56	M10x1,5	65	**300**



mm	mm	kg	COD.	mm	mm	mm	mm	mm	mm	mm	mm	mm	daN
125	40	2,44	624903	166	140x110	105x80	11	46	40	17,5	35	18,5	**300**
160	50	2,86	624910	199	140x110	105x80	11	56	40	17,5	35	18,5	**300**
200	50	3,38	624916	240	140x110	105x80	11	56	40	17,5	35	18,5	**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	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
160	50	2.95	624504	2.24	627704	3.42	627404	199	140x110	105x80	11	58	178	**500**
200	50	3.69	624506	3.04	627706	4.07	627406	240	140x110	105x80	11	50	178	**500**

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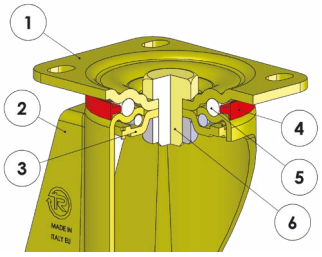
Medium-heavy duty brackets P - max carrying capacity 750 daN



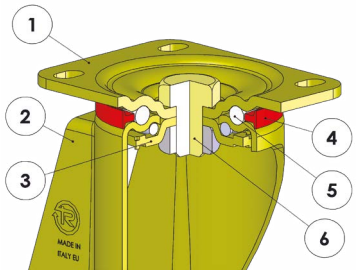


1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised steel plate
4) Dust seal: orange polyamide
5) Swivel actions: double ball ring with grease lubrication
6) King pin: steel bolt in grade 8.8 steel and steel nut

Available with total front foot brake

															4 km/h	6 km/h
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN	daN
100	40	1,35	627602	0,85	628512	1,52	627202	138	100x85	80x60	9	46	123	**300**	**300**
125	40	1,70	627613	1.26	628513	1.87	627213	161	100x85	80x60	9	44	123	**350**	**350**





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

															4 km/h	6 km/h
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN	daN
125	40	2,33	627603	1,69	628503	2,86	627203	170	140x110	105x80	11	70	126	**350**	**350**
160	50	3,60	627610	2,11	628514	4,17	627204	205	140x110	105x80	11	70	126	**550**	**550**
180	50	3,84	627605	2,42	628515	4,41	627205	228	140x110	105x80	11	70	126	**600**	**600**
200	50	4,31	627516	2,85	628516	4,91	627206	250	140x110	105x80	11	70	126	**700**	**700**
250	50	4,84	627608	3,74	628518	5,54	627208	298	140x110	105x80	11	70	173	**750**	**750**

Options available to order:



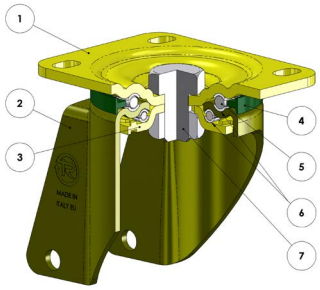
Footguard for brackets NL-M-P-PT



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

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





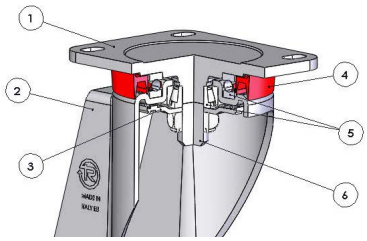
1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised steel plate
4) Dust Seal: dark green polyamide 6
5) Swivel actions: double ball ring with grease lubrication
6) Ball race: hardened carbon steel grooves
7) King pin: steel screw, class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

Available with rear adjustable brake

																4 km/h	6 km/h
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN	daN
125	40	2,33	625003	1,69	628503	2,86	629903	170	140x110	105x80	11	70	126	**350**	**350**
160	50	3,52	625010	2,11	628514	4,12	629904	205	140x110	105x80	11	70	126	**550**	**550**
180	50	3,91	625005	2,42	628515	4,38	629905	228	140x110	105x80	11	70	126	**600**	**600**
200	50	4,10	625016	2,85	628516	4,66	629906	250	140x110	105x80	11	70	126	**700**	**700**

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	3,76	627824	3,35	628824	4,28	626664	205	135x110	105x80	11	70	126	**550**	**550**
200	50	4,57	627826	4,13	628826	5,14	626656	250	135x110	105x80	11	70	126	**700**	**700**

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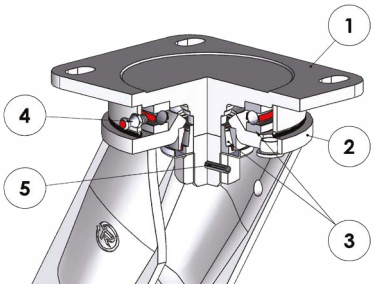
THICK "TR-ROLL" POLYURETHANE WHEELS WITH ALUMINIUM CENTRE

Electrowelded brackets EE MHD - max carrying capacity 700 daN





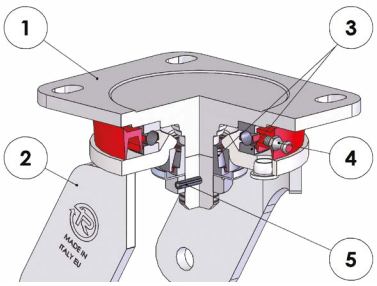
1) Plate: forged steel with integrated pin
2) Fork: deep-drawn legs electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Anti-loosening system nut

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	mm	daN	daN
100	40	3,38	628302		2,40	628402		4,26	628602		170	135x110	105x80	11	51	157	**300**	**300**
125	40	3,71	628303		2,73	628403		4,59	628603		182	135x110	105x80	11	51	157	**350**	**350**
160	50	4,25	628314		3,26	628414		5,13	628614		215	135x110	105x80	11	60	157	**550**	**550**
180	50	4,62	628305		3,64	628405		5,51	628605		242	135x110	105x80	11	70	157	**600**	**600**
200	50	4,97	628306		3,99	628406		6,31	628606		252	135x110	105x80	11	70	157	**700**	**700**

Twin electrowelded brackets EEG MHD - max carrying capacity 700 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

											4 km/h	6 km/h
mm	mm	kg	CODE		kg	CODE		mm	mm	mm	mm	mm	mm	mm	daN	daN
100	40+40	3.45	628062		2.65	628162		140	135x110	105x80	11	55	**600**	**600**
125	40+40	4.20	628063		3.40	628163		170	135x110	105x80	11	55	**700**	**700**

Options available to order:



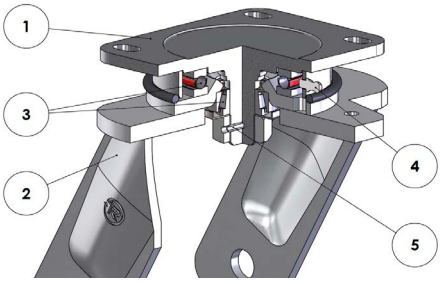
Wheels EE MHD with steering system



Directional lock for brackets EE MHD - EE HD - EED MHD: - EES MHD
see page 428

Twin electrowelded brackets EEG MHD - max carrying capacity 1400 daN



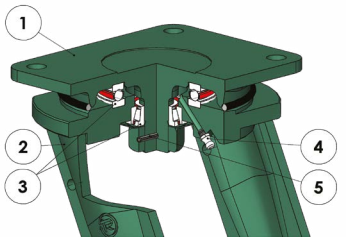


1) Plate: forged steel with integrated pin
2) Fork: deep-drawn tips electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Anti-loosening system nut
Available with adjustable rear foot brake, operating on wheel rotation only

		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	7,18	628074	6,31	628174	8,17	628274	221	135x110	135x175	105x80	11	55	182	**1100**	**1100**	
200	50+50	8,36	628076	7,51	628176	9,35	628276	258	135x110	135x175	105x80	11	65	182	**1400**	**1400**	

Twin electrowelded brackets EEG HD - max carrying capacity 1400 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

		kg	CODE	kg	CODE							4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
160	50+50	10,60	628084	6,20	628184	228	175x140	140x105	14	50		**1100**	**1100**
200	50+50	12,30	628086	7,70	628166	280	175x140	140x105	14	65		**1400**	**1400**

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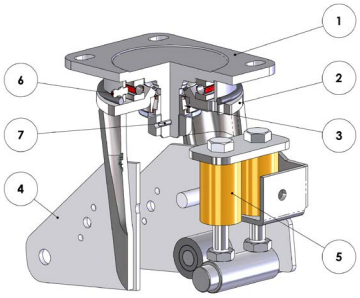
Electrowelded sprung-loaded bracket EES MHD - max load capacity 800 daN - damping up to 400 daN





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

																		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	626304	5,82	626404	8,13	626504	248	135x110	105x80	11	100	240	25	50	**400**	**550**	**550**
200	50	7,67	626306	6,42	626406	8,78	626506	268	135x110	105x80	11	100	265	25	50	**400**	**700**	**700**
250	50	8,75	626308	7,54	626408	9,99	626508	316	135x110	105x80	11	110	315	25	50	**400**	**800**	**800**

Spring travel (mm): maximum difference in the total height of the castor 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