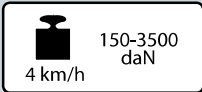
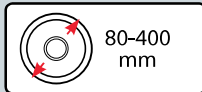


"TR" POLYURETHANE WHEELS WITH CAST IRON CENTRE



Description

Tyre: "TR" polyurethane, hardness 95 Shore A, excellent rolling resistance and elasticity, highly resistant to wear.

Centre: cast iron.

Hub with plain bore so that it can easily be re-worked to achieve a spline or key housing. Hub with shielded ball bearing press-fitted in the seats obtained by precision machining the centre; also available without bearings.

Uses

Ideal for applications with heavy duty loads, even with mechanical handling at high speeds. Combined with appropriate brackets, they guarantee excellent performance up to 16 km/h.

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

The plain bore version, with key way or spline, is suitable for use as a drive wheel.

Examples of recommended applications: trolleys for indoor industrial handling, AGV trolleys, containers, 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 steam.

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 tiles and cement-resin.

Not suitable if large obstacles are present.



Force required to push or tow a wheel

 	150 kg	300 kg	450 kg	600 kg	1000 kg	1500 kg	2000 kg	2800 kg
80 mm	4.5	11	----	----	----	----	----	----
100 mm	3.8	7.7	----	----	----	----	----	----
125x38 mm	3.5	7	11.5	----	----	----	----	----
125x50 mm	3.3	6.5	11	----	----	----	----	----
125x60 mm	3.3	6.5	11	14	----	----	----	----
150x50 mm	2.5	5.2	8.6	12.6	----	----	----	----
150x60 mm	2	4	8	11	----	----	----	----
150x80 mm	1.8	3.5	6	10.5	18	----	----	----
160x50 mm	2.3	5	8.3	12	----	----	----	----
180x50 mm	2	4.1	6.8	9.7	----	----	----	----
200x50 mm	1.7	3.8	6	8.5	16	----	----	----
200x80 mm	1.3	3.5	5.0	6.7	11.5	17	----	----
250x60 mm	1	3	4.7	6.3	10.9	16	----	----
250x80 mm	< 1	2.5	4.5	6	10.3	15.5	----	----
300x60 mm	< 1	2	4	5.5	9.6	15	----	----
300x80 mm	< 1	1.5	3.5	5	8.6	13	16	----
400x100 mm	< 1	< 1	2	3.2	6.8	11	13	21

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.

Available with brackets:



Standard-duty brackets NL

Maximum carrying capacity 300 daN - available diameters 80-200 mm
Top plate fitting. Available with front brake.



Medium-duty brackets M

Maximum carrying capacity 500 daN - available diameters 150-200 mm
Top plate fitting. Available with adjustable front brake.



Medium-heavy duty brackets P

Maximum carrying capacity 750 daN - available diameters 80-200 mm
Top plate fitting. Available with front brake and adjustable rear brake.



Extra-heavy duty brackets EP

Maximum carrying capacity 1600 daN - available diameters 100-250 mm
Top plate fitting. Available with adjustable rear brake.



Electrowelded brackets EE MHD - EE HD - EE EHD.

Maximum carrying capacity 2800 daN - available diameters 125-400 mm
Top plate fitting. Available with adjustable rear brake.



Twin electrowelded brackets EEG MHD - EEG HD - EEG EHD

Maximum carrying capacity 4300 daN - available diameters 100-300 mm
Top plate fitting

Options available to order:














Wheel with key housing



Wheel with very thick tyre



																
mm	mm	kg	COD.	mm	mm.	mm.	mm.	daN	daN	daN						
100	40	1,50	641102	15 H7	45	55	30	500	300	300						
125	40	1,30	641103	20 H7	60	60	30	600	400	400						
150	40	2,90	641104	20 H7	60	70	40	730	500	500						
150	50	3,70	641114	20 H7	60	70	40	910	700	700						
180	50	4,40	641105	20 H7	60	70	40	1100	800	800						
200	50	4,60	641106	20 H7	60	70	40	1500	950	950						
200	60	6,00	641116	25 H7	60	70	40	1700	1000	1000						
200	80	8,40	641126	40 H7	80	95	60	2000	1400	1400						
250	50	6,60	641107	20 H7	60	75	45	1800	1100	1100						
250	80	11,00	641117	40 H7	80	95	60	2800	1600	1600						
250	80	10,10	641127	60 H7	80	95	60	2800	1600	1600						
300	80	14,40	641108	50 H7	80	100	65	3400	2000	2000						
300	100	21,20	641118	50 H7	100	120	80	4200	2500	2500						
350	100	26,10	641109	50 H7	100	120	80	4700	2800	2800						
400	100	31,60	641110	50 H7	100	120	80	5000	3500	3500						

These wheels can also be used as drive wheels: the wheel hub is manufactured so that it can easily be reworked to achieve a spline or key housing. The carrying capacity given is valid for movements at a maximum speed of 6 km/h also if used as a drive wheel on mainly straight routes.

To use as a steering drive wheel or at speeds higher than 6 km/h it is advisable to contact Tellure Rôta to assess any reduction of the maximum applicable loads that may be necessary. To prevent the polyurethane tyre from deteriorating, any reworking on the wheel must be done keeping the temperature under 80°C (which is recommended as the maximum limit during normal use of the product).

Tellure Rôta is at your disposal to customise the product, modifying the bore with a groove for a key or tongue according to the specifications of the Italian (UNI 6604 and UNI 6607) and European (DIN 6885) regulations in force. The maximum applicable diameter for each wheel, guaranteeing the carrying capacity values, is given in the product dimensions column.

Options available to order:



Wheel
with key
housing



mm	mm	kg	COD.	kg	COD.	mm	mm	mm	mm	daN	daN	daN	daN		
80	20	0,45	642181	0,40	644181	12	18	32	14	200	150	150	120		
80	28	0,51	642151	0,46	644151	12	32	28	8	370	190	280	220		
100	38	1,02	642152	0,91	644152	15	40	35	11	500	220	380	300		
125	38	1,45	642153	1,34	644153	15	40	35	11	600	240	450	360		
125	50	1,98	642163	1,76	644163	20	55	47	14	800	270	550	440		
125	50	1,96	642363	1,76	644163	25	55	47	14	800	270	550	440		
125	58	2,86	642103	2,62	644103	20	58	47	15	800	250	600	480		
150	50	2,50	642154	2,28	644154	20	55	47	14	910	290	700	560		
150	50	2,48	642354	2,28	644154	25	55	47	14	910	290	700	560		
150	58	2,83	642104	2,59	644104	20	58	47	15	1400	350	850	680		
150	78	5,69	642124	5,19	644124	25	88	62	18	1700	400	1000	800		
160	50	2,65	642164	2,43	644164	20	55	47	14	1000	300	750	600		
160	50	2,63	642364	2,43	644164	25	55	47	14	1000	300	750	600		
180	50	3,02	642155	2,80	644155	20	55	47	14	1100	350	900	720		
200	50	3,65	642156	3,43	644156	20	55	47	14	1500	380	1000	800		
200	50	3,63	642356	3,43	644156	25	55	47	14	1500	380	1000	800		
200	78	7,26	642166	6,74	644166	25	86	62	17	2000	450	1600	1300		
200	78	7,24	642366	6,74	644166	30	86	62	17	2000	450	1600	1300		
250	60	8,13	642157	7,61	644157	25	65	62	17	2500	480	1500	1200		
250	60	8,10	642357	7,61	644157	30	65	62	17	2500	480	1500	1200		
250	78	9,81	642167	9,81	644167	25	86	62	17	2800	500	1900	1500		
250	78	9,80	642367	9,81	644167	30	86	62	17	2800	500	1900	1500		
300	60	11,43	642158	10,96	644158	30	65	62	17	3200	550	1750	1400		
300	78	13,80	642168	13,33	644168	30	86	62	17	3400	600	2300	1800		
360	120	31,63	642139	30,50	644139	40	120	90	23	3800	750	2800	2200		

Options available to order:

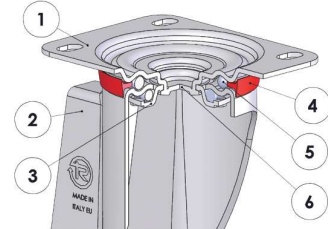


Wheel with very thick tread

SERIES **64**

**"TR" POLYURETHANE WHEELS
WITH CAST IRON CENTRE**

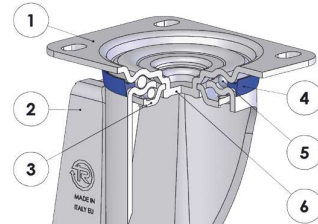
Standard-duty brackets NL - max carrying capacity 300 daN



- 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-rieveted
Available with total front foot brake

mm		kg		kg		kg		mm		mm		mm		mm		daN	
80	28	0.95	644551	0.82	644651	1.11	645451	107	100x85	80x60	9	37	120	200			
100	38	1.51	644552	1.40	644652	1.67	645452	128	100x85	80x60	9	35	120	200			
125	38	1.97	644553	1.86	644653	2.13	645453	156	100x85	80x60	9	37	120	220			
125	50	3.38	644563	2.89	644663	3.58	645463	166	140x110	105x80	11	56	156	300			
150	50	3.87	644554	3.59	644654	4.12	645464	194	140x110	105x80	11	56	156	300			
160	50	3.98	644564	3.71	644664	4.23	645474	199	140x110	105x80	11	56	156	300			
180	50	4.48	644555	4.21	644655	4.68	645465	220	140x110	105x80	11	56	156	300			
200	50	5.16	644556	4.92	644656	5.36	645466	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: electrolytically galvanised steel plate
- 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

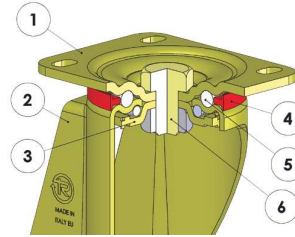
mm		kg		kg		kg		mm		mm		mm		mm		daN	
150	50	4.21	644954	3.59	644654	4.65	645564	194	140x110	105x80	11	58	178	500			
160	50	4.33	644964	3.71	644664	4.78	645574	199	140x110	105x80	11	58	178	500			
200	50	5.55	644956	4.92	644656	5.91	645566	240	140x110	105x80	11	50	178	500			

Options available to order:



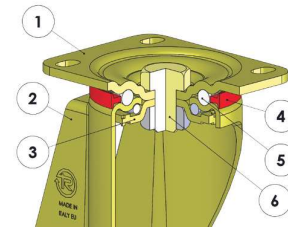
Footguard
for brackets
NL-M-P

Medium-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 total front foot brake

mm		kg	CODE	kg	CODE	kg	CODE	mm				mm	mm	4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
80	28	1.38	645851	0.96	646851			128	100x85	80x60	9	46	123	280	220
100	38	1.93	645852	1.52	646852	2.06	644852	138	100x85	80x60	9	46	123	350	300
125	38	2.37	645853	2.04	646853	2.50	644853	161	100x85	80x60	9	48	123	350	300



- 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 adjustable rear foot brake

mm		kg	CODE	kg	CODE	kg	CODE	mm				mm	mm	4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
125	50	3.66	645863	2.65	646863	4.24	644863	170	140x110	105x80	11	70	126	550	440
150	50	4.81	645854	3.55	646854	5.33	644854	200	140x110	105x80	11	70	126	700	560
160	50	4.93	645864	4.08	646864	5.45	644864	205	140x110	105x80	11	70	126	750	600
180	50	5.30	645855	4.45	646855	5.90	644855	228	140x110	105x80	11	70	126	750	600
200	50	6.06	645856	5.15	646856	6.66	644856	250	140x110	105x80	11	70	126	750	600

Options available to order:

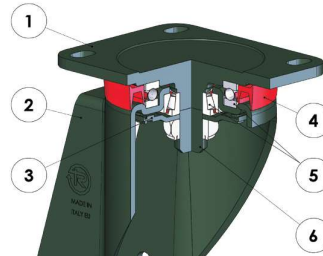


Footguard for brackets NL-M-P

SERIES **64**

**"TR" POLYURETHANE WHEELS
WITH CAST IRON CENTRE**

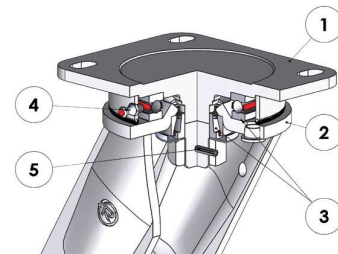
Extra-heavy duty brackets EP - max carrying capacity 1600 daN



- 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	CODE	kg	CODE	kg	CODE						4 km/h	6 km/h	
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
100	38	2.15	647852	1.92	648852			140	100x85	80x60	9	46		350	300
125	38	2.64	647853	2.44	648853			164	100x85	80x60	9	48		350	300
125	50	4.61	647863	4.16	648863			188	135x110	105x80	11	70		550	440
150	50	5.04	647854	4.63	648854	5.56	646654	200	135x110	105x80	11	70	126	700	560
150	58	5.44	647824	4.96	648824			200	135x110	105x80	11	70		850	680
160	50	5.16	647864	4.75	648864	5.68	646664	205	135x110	105x80	11	70	126	750	600
180	50	5.60	647855	5.20	648855	6.20	646655	228	135x110	105x80	11	70	126	900	720
200	50	6.35	647856	6.06	648856	6.95	646656	250	135x110	105x80	11	70	126	1000	800
200	78	12.30	647866	10.46	648866			275	175x140	140x105	14	66		1600	1300
250	60	13.16	647857	11.32	648857			300	175x140	140x105	14	66		1500	1200

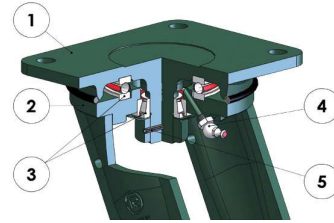
Electrowelded brackets EE MHD - max carrying capacity 1000 daN



- 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	CODE	kg	CODE	kg	CODE						4 km/h	6 km/h	
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
125	50	4.88	648303	3.90	648403	5.76	648503	182	135x110	105x80	11	51	157	550	440
150	50	5.50	648304	4.51	648404	6.38	648504	210	135x110	105x80	11	60	157	700	560
160	50	5.65	648314	4.66	648414	6.53	648514	215	135x110	105x80	11	60	157	750	600
180	50	6.14	648305	5.16	648405	7.02	648505	242	135x110	105x80	11	70	157	900	720
200	50	6.77	648306	5.79	648406	7.65	648506	252	135x110	105x80	11	70	157	1000	800

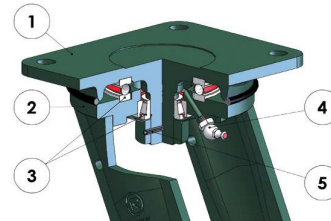
Electrowelded brackets EE HD - max carrying capacity 2300 daN



- 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	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	4 km/h	6 km/h
150	78	12.15	648315	10.61	648415	13.03	648515	218	175x140	140x105	14	50	166	1000	800
150	78	12.15	648324	10.61	648424			223	200x160	160x120	17	50		1000	800
200	78	13.72	648316	12.18	648416	14.60	648516	275	175x140	140x105	14	65	166	1600	1300
250	60	14.82	648307	13.23	648407	15.70	648507	320	175x140	140x105	14	74	166	1500	1200
250	78	16.50	648317	14.91	648417	17.38	648517	320	175x140	140x105	14	74	166	1600	1300
250	78	17.56	648327	15.23	648427	18.44	648527	325	200x160	160x120	17	74	166	1900	1500
300	60	18.24	648308	16.62	648408	19.12	648508	360	175x140	140x105	14	81	166	1600	1300
300	60	19.30	648328	16.95	648428	20.18	648528	365	200x160	160x120	17	81	166	1750	1400
300	78	20.61	648318	18.99	648418	21.49	648518	360	175x140	140x105	14	81	166	1600	1300
300	78	21.67	648338	19.32	648438	22.55	648538	365	200x160	160x120	17	81	166	2300	1800

Electrowelded bracket EE EHD - max carrying capacity 2800 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

mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	4 km/h	6 km/h		
300	100	29.80	648309	25.10	648409	384	250x200	210x160	19	78	2500	2000		
400	100	44.91	648310	40.21	648410	475	250x200	210x160	19	95	2800	2200		

Options available to order:



Bracket EE MHD with steering system

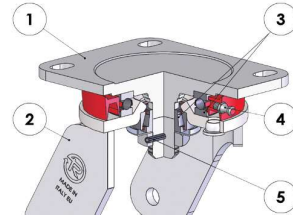


Directional lock for brackets EE MHD - EE HD - EED MHD: see page 332

SERIES **64**

**"TR" POLYURETHANE WHEELS
WITH CAST IRON CENTRE**

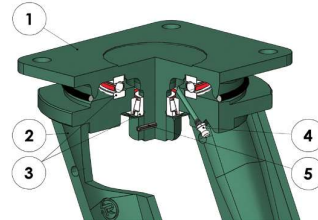
Twin electrowelded brackets EEG MHD - max carrying capacity 900 daN



- 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

mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	4 km/h daN	6 km/h daN
100	38+38	4.50	648062	3.75	648162	140	135x110	105x80	11	55	700	600
125	38+38	5.45	648063	4.70	648163	170	135x110	105x80	11	55	900	720

Twin electrowelded brackets EEG HD - max carrying capacity 2000 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

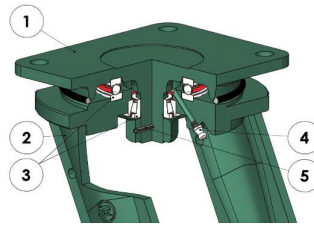
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	4 km/h daN	6 km/h daN
125	50+50	11.00	648072	7.70	648172	210	175x140	140x105	14	50	1100	880
150	50+50	13.10	648074	8.70	648174	223	175x140	140x105	14	50	1400	1100
160	50+50	13.40	648084	9.00	648184	228	175x140	140x105	14	50	1500	1200
200	50+50	15.90	648066	11.30	648166	280	175x140	140x105	14	65	1600	1300
200	50+50	17.55	648076	12.70	648176	285	200x160	160x120	17	65	2000	1600

Options available to order:



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

Twin electrowelded brackets EEG MHD - max carrying capacity 4300 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

mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN	daN		
200	78+78	34.80	648086	25.05	648186	280	250x200	210x160	19	52	3200	2500		
250	60+60	36.95	648067	27.20	648167	330	250x200	210x160	19	62	3000	2400		
250	78+78	40.30	648077	30.55	648177	330	250x200	210x160	19	62	3500	2800		
300	78+78	50.00	648078	40.00	648178	385	250x200	210x160	19	75	4300	3500		