SERIES **64**

"TR" POLYURETHANE WHEELS WITH CAST IRON CENTRE



										Static		4 km/h	6 km/h
mm	mm	kg	COD.	kg	COD.	mm	mm.	mm	mm	daN	daN	daN	daN
80	20	0,36	642181	0,34	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**	**750**	**600**
150	50	2,48	642354	2,28	644154	25	55	47	14	**910**	**290**	**750**	**600**
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	50	7,00	642147	6,92	644147	20	55	52	15	**1750**	**400**	**1200**	**960**
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**
300	100	22,75	642178	22,46	644178	45	100	85	19	**3400**	**600**	**2500**	**2000**
360	120	31,63	642139	30,50	644139	40	120	90	23	**3800**	**750**	**2800**	**2200**
400	100	28,86	642129	26,30	644129	50	120	110	28	**4500**	**750**	**2800**	**2200**

Options available to order:

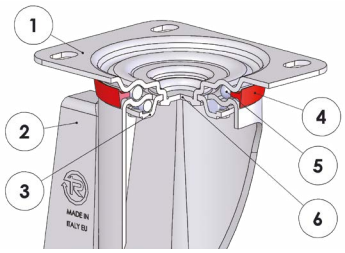


Wheel with very thick tyre

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

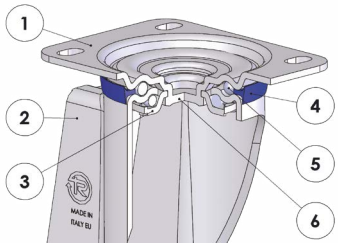
Available with total front foot brake

															4 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
80	28	0.95	644551	0.82	644651	1.11	645451	107	100x85	80x60	9	40	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-riveted

Available with adjustable total front foot brake

															4 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	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:



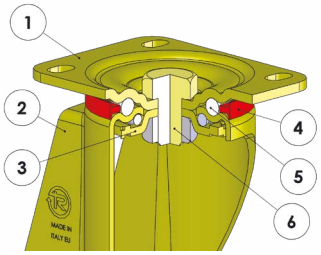
Footguard
for brackets NL-
M-P-PT

SERIES **64**

"TR" POLYURETHANE WHEELS WITH CAST IRON CENTRE

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



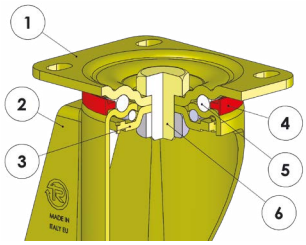


1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised steel plate
4) Dust seal: orange polyamide
5) Swivel actions: double ball ring with grease lubrication
6) King pin: steel bolt in grade 8.8 steel and steel nut

Available with total front foot brake

		kg		kg		kg								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: 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 adjustable rear foot brake

		kg		kg		kg								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	**750**	**600**
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**

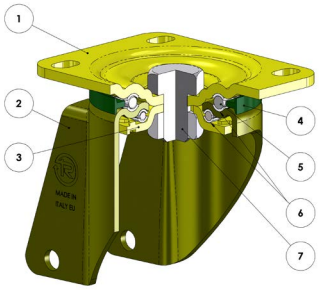
Options available to order:



Footguard for brackets NL-M-P-PT

Heavy-duty PT brackets with hardened ball race grooves - max carrying capacity 900 daN



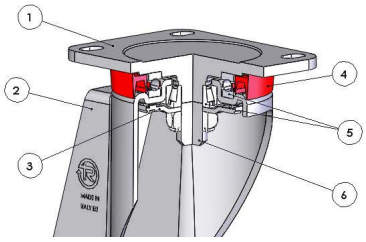


1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised steel plate
4) Dust Seal: dark green polyamide 6
5) Swivel actions: double ball ring with grease lubrication
6) Ball race: hardened carbon steel grooves
7) King pin: steel screw, class 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	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN	daN	
125	50	3,66	645003	2,65	646863	4,24	649903	170	140x110	105x80	11	70	126	**550**	**440**	
150	50	4,67	645004	3,55	646854	5,33	649904	200	140x110	105x80	11	70	126	**750**	**600**	
160	50	4,93	645014	4,08	646864	5,45	649914	205	140x110	105x80	11	70	126	**750**	**600**	
180	50	5,30	645005	4,45	646855	5,90	649905	228	140x110	105x80	11	70	126	**900**	**720**	
200	50	6,06	645006	5,15	646856	6,66	649906	250	140x110	105x80	11	70	126	**900**	**800**	

Extra-heavy duty brackets EP - max carrying capacity 1600 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

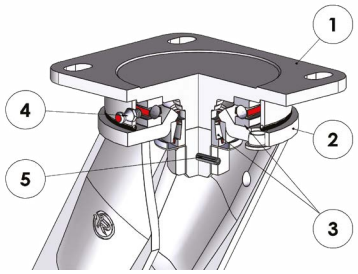
		kg	CODE	kg	CODE	kg	CODE							4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
100	38	2.15	647852	1.92	648852			140	100x85	80x60	9	46		**350**	**300**
125	38	2.64	647853	2.44	648853			164	100x85	80x60	9	48		**350**	**300**
125	50	4.61	647863	4.16	648863			188	135x110	105x80	11	70		**550**	**440**
150	50	5.04	647854	4.63	648854	5.56	646654	200	135x110	105x80	11	70	126	**750**	**600**
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**

SERIES **64**

"TR" POLYURETHANE WHEELS WITH CAST IRON CENTRE

Electrowelded brackets EE MHD - max carrying capacity 1000 daN





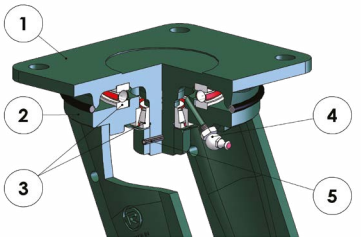
1) Plate: forged steel with integrated pin
2) Fork: deep-drawn legs electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Anti-loosening system nut

Available with adjustable total rear foot brake

																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	**750**	**600**
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





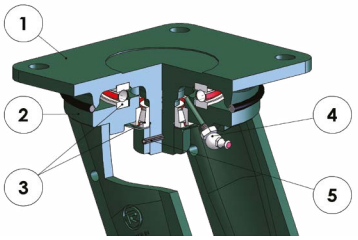
1) Plate: forged steel with integrated pin
2) Fork: deep-drawn legs electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Anti-loosening system nut

Available with adjustable total rear foot brake

																4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
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



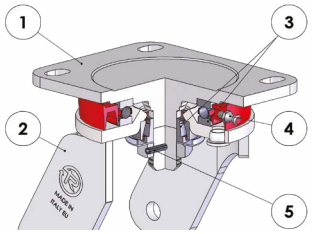


1) Plate: forged steel with integrated pin
2) Fork: deep-drawn legs electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Anti-loosening system nut

											4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN	daN
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**

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

											4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN	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**

Options available to order:



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



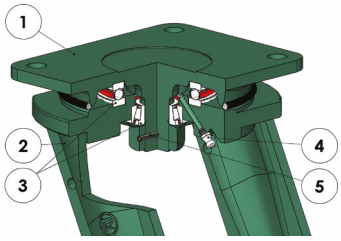
Bracket
EE MHD
with steering
system

SERIES **64**

"TR" POLYURETHANE WHEELS WITH CAST IRON CENTRE

Twin electrowelded brackets EEG HD - max carrying capacity 2000 daN



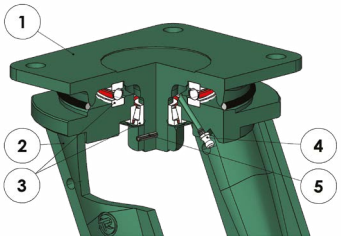


1) Plate: forged steel with integrated pin
2) Fork: deep-drawn legs electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Anti-loosening system nut

											4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN	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	**1500**	**1200**
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**

Twin electrowelded brackets EEG EHD - 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

											4 km/h	6 km/h
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**

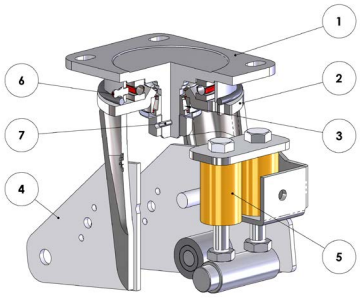
Options available to order:



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

Electrowelded sprung-loaded brackets EES HD - max carrying capacity 1000 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		kg		kg												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	8,47	649304	7,22	649404	9,53	649504	248	135x110	105x80	11	100	240	25	50	**400**	**750**	**600**	
200	50	9,47	649306	7,82	649406	10,18	649506	268	135x110	105x80	11	100	265	25	50	**400**	**1000**	**800**	
250	50	11,85	649308	10,64	649408	13,09	649508	316	135x110	105x80	11	110	315	25	50	**400**	**1000**	**960**	

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

Options available to order:



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