SERIES 66

"TR" POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE

80-250 mm

92 Shore A

150-1000 daN
4 km/h

120-480 daN
6 km/h

100-400 daN

-20 / +80 °C

INOX

Description

Tyre: "TR" polyurethane, hardness 92 Shore A, excellent rolling resistance and elasticity, highly resistant to wear.

Centre: polyamide 6.

Hub with plain bore hole which directly houses the axle.
Hub with cylindrical roller bearing with plastic cage. Also available with stainless steel roller bearings.
Hub with shielded ball bearings with interference assembly in the seats obtained by centre moulding. The wheel is also available without bearings.

Uses

Excellent for trolleys and machinery with medium/heavy-duty loads, also in presence of continuous handling.
Also suitable for mechanical or mixed manual-mechanical handling, up to 6 km/h.
Its excellent rolling resistance guarantees minimum effort by manual handling.
Examples of recommended applications: trolleys for indoor industrial handling, trolleys for the food and chemical industry, manual and electric pallet trucks, equipment for dry cleaner's, slaughterhouses, meat factories.

Environments of use

Suitable for indoor environments, also in presence of medium-harsh chemical agents, alcohol, glycol and water. They are suitable for industrial environments.
Not recommended in areas with strong organic acids and mineral acids.

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

They do not mark or damage delicate floors.
Suitable on tiles, resin-cement, asphalt even in presence of small obstacles on the path.
Not recommended on unpaved floors or in presence of processing residues.

Force required to push or tow a wheel

	100 kg	200 kg	300 kg	400 kg	500 kg	600 kg	800 kg	1000 kg
80 mm	5	----	----	----	----	----	----	----
100 mm	4.5	8	----	----	----	----	----	----
125 mm	4.2	7	----	----	----	----	----	----
150 mm	2.5	4	6	8				
175 mm	1.5	3.7	5.5	7.5	----	----	----	----
200 mm	< 1	3.5	5	8.5	11	17	----	----
250 mm	< 1	3	4	5	10	13	16	22

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 and bolt hole fittings. Available with front brake.

Stainless steel standard-duty brackets NLX
Maximum carrying capacity 300 daN - available diameters 80-200 mm
Top plate and bolt hole fittings. 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 600 daN - available diameters 100-200 mm
Top plate fitting. Available with front brake and adjustable rear brake.

Stainless steel medium-heavy duty brackets PX
Maximum carrying capacity 600 daN - available diameters 150-200 mm
Top plate fitting. Available with adjustable rear brake.

Options available to order

The series 66 wheels are also available with assembled thread guards. To order them add the "PF" suffix to the wheel+bracket code. To order loose thread guards see the Accessories section.

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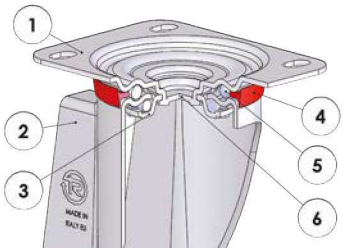
mm	mm	kg	COD.	mm	mm.	Static daN	daN	4 km/h daN
80	25	0,10	661101	12	39	**225**	**100**	**150**
100	30	0,16	661102	12	44	**300**	**135**	**200**
125	30	0,25	661103	15	44	**400**	**150**	**250**
150	40	0,45	661104	20	59	**600**	**240**	**400**
175	40	0,62	661105	20	59	**680**	**270**	**470**
200	50	0,78	661106	20	59	**800**	**300**	**600**
200	50	0,75	661206	25	59	**800**	**300**	**600**
250	60	1,41	661108	25	88	**1200**	**400**	**1000**

mm	mm	kg	COD.	kg	COD.	mm	mm	Static daN	daN	4 km/h daN
80	25	0,13	663101	0,13	663201	12	39	**225**	**100**	**150**
100	30	0,19	663102	0,19	663202	12	44	**300**	**135**	**200**
125	30	0,28	663103	0,28	663203	15	44	**400**	**150**	**250**
150	40	0,54	663104	0,54	663204	20	59	**600**	**240**	**400**
175	40	0,73	663105	0,73	663205	20	59	**680**	**270**	**470**
200	50	0,89	663106	0,89	663206	20	59	**800**	**300**	**600**
200	50	0,85	663116			25	59	**800**	**300**	**600**
250	60	1,52	663108	1,52	663208	25	88	**1200**	**400**	**1000**

mm	mm	kg	COD.	kg	COD.	mm	mm.	mm	mm	Static daN	daN	4 km/h daN	6 km/h daN
80	25	0,15	662101	0,10	664101	12	32	28	10	**225**	**100**	**150**	**120**
100	30	0,25	662102	0,15	664102	12	40	32	11,5	**300**	**135**	**200**	**160**
125	30	0,33	662103	0,25	664103	15	40	35	13,5	**400**	**150**	**250**	**200**
175	40	0,85	662105	0,60	664105	20	55	47	14	**680**	**270**	**470**	**380**
200	50	1,07	662106	0,76	664106	20	55	52	15	**800**	**300**	**600**	**480**
200	50	1,06	662126	0,76	664106	25	55	52	15	**800**	**300**	**600**	**480**

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

mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN
80	25	0,61	664201	0,37	665701	0,80	666601	107	100x85	80x60	9	37	120	**150**
100	30	0,75	664202	0,44	665702	0,90	666602	128	100x85	80x60	9	35	120	**200**
125	30	0,91	664203	0,66	665703	1,05	666603	156	100x85	80x60	9	37	120	**220**
125PG	30	1,10	664213	0,86	665713	1,30	666643	156	140x110	105x80	11	37	120	**220**
150	40	1,81	664204	1,44	665704	2,09	666604	194	140x110	105x80	11	56	156	**300**
175	40	1,99	664205	1,70	665705	2,27	666605	217	140x110	105x80	11	56	156	**300**
200	50	2,19	664206	1,97	665706	2,45	666606	240	140x110	105x80	11	56	156	**300**
80	25	0,63	664501	0,41	665901	0,84	666621	107	100x85	80x60	9	37	120	**150**
100	30	0,78	664502	0,46	665902	0,93	666622	128	100x85	80x60	9	35	120	**200**
125	30	0,93	664503	0,68	665903	1,08	666623	156	100x85	80x60	9	37	120	**220**
125PG	30	1,13	664513	0,89	665913	1,33	666653	156	140x110	105x80	11	37	120	**220**
150	40	2,00	664504	1,53	665904	2,18	666624	194	140x110	105x80	11	56	156	**300**
175	40	2,12	664505	1,79	665905	2,38	666625	217	140x110	105x80	11	56	156	**300**
200	50	2,29	604506	2,08	665906	2,53	666626	240	140x110	105x80	11	56	156	**300**

Options available to order

Wheel
with ball bearings
fitted with NL
bracket

Directional lock
for brackets
d. 150-200 mm

Footguard
for brackets
NL-M-P-PT

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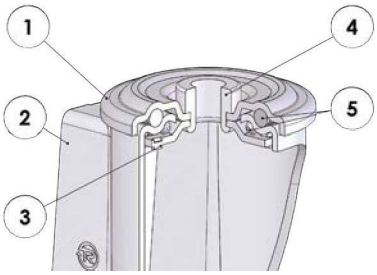
"TR" POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE

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) King pin: bushing in electrolytically galvanised steel
5) Swivel actions: double ball ring with grease lubrication

Available with total front foot brake

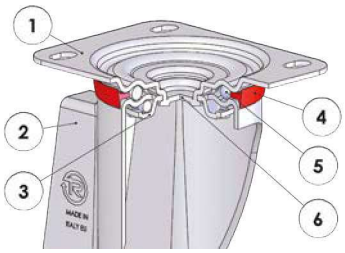
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN
80	25	0.54	667701	0.72	666401	107	73	12	37	120	**150**
100	30	0.68	667702	0.89	666402	128	73	12	35	120	**200**
125	30	0.85	667703	1.00	666403	156	73	12	37	120	**220**
150	40	1.67	667704	1.96	666404	188	102	20	56	156	**300**
175	40	1.86	667705	2.15	666405	212	102	20	56	156	**300**
200	50	2.09	667706	2.37	666406	236	102	20	56	156	**300**
80	25	0.57	667801	0.75	666421	107	73	12	37	120	**150**
100	30	0.71	667802	0.91	666422	128	73	12	35	120	**200**
125	30	0.88	667803	1.03	666423	156	73	12	37	120	**220**
150	40	1.76	667804	2.05	666424	188	102	20	56	156	**300**
175	40	1.97	667805	2.26	666425	212	102	20	56	156	**300**
200	50	2.20	667806	2.48	666426	236	102	20	56	156	**300**

Options available to order

Wheel with ball bearings fitted with NL bracket

Footguard for brackets NL-M-P-PT

Stainless steel standard-duty brackets NLX - max carrying capacity 300 daN



INOX

1) Plate: AISI 304 stainless steel
2) Fork: AISI 304 stainless steel
3) Ball race ring: AISI 304 stainless steel
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

mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	4 km/h daN
80	25	0.60	664401	0.34	665401	0.77	666701	107	100x85	80x60	9	37	120	**150**
100	30	0.66	664402	0.41	665402	0.84	666702	128	100x85	80x60	9	35	120	**200**
125	30	0.81	664403	0.64	665403	0.95	666703	156	100x85	80x60	9	37	120	**220**
150	40	1.75	664404	1.31	665404	2.04	666704	194	140x110	105x80	11	56	156	**300**
175	40	1.93	664405	1.49	665405	2.21	666705	215	140x110	105x80	11	56	156	**300**
200	50	2.16	664406	1.70	665406	2.44	666706	240	140x110	105x80	11	56	156	**300**
80	25	0.64	664601	0.38	665601	0.81	666721	107	100x85	80x60	9	37	120	**150**
100	30	0.68	664602	0.44	665602	0.87	666722	128	100x85	80x60	9	35	120	**200**
125	30	0.84	664603	0.67	665603	0.98	666723	156	100x85	80x60	9	37	120	**220**
150	40	1.84	664604	1.40	665604	2.13	666724	194	140x110	105x80	11	56	156	**300**
175	40	2.04	664605	1.60	665605	2.32	666725	215	140x110	105x80	11	56	156	**300**
200	50	2.27	664606	1.81	665606	2.55	666726	240	140x110	105x80	11	56	156	**300**

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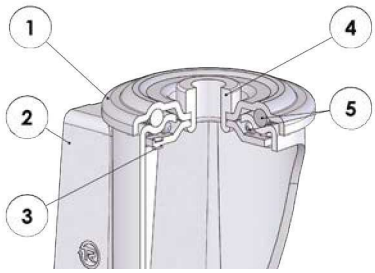
"TR" POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE

Stainless steel standard-duty brackets NLX - max carrying capacity 300 daN

INOX

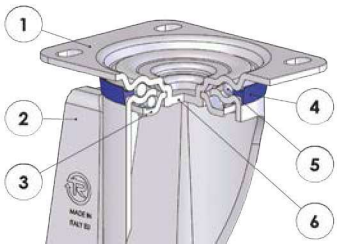


1) Plate: AISI 304 stainless steel
2) Fork: AISI 304 stainless steel
3) Ball race ring: AISI 304 stainless steel
4) King pin: bushing in stainless steel
5) Swivel actions: double ball ring with grease lubrication

Available with total front foot brake

mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN
80	25	0.54	667901	0.71	668801	107	73	12	37	120	**150**
100	30	0.62	667902	0.83	668802	128	73	12	35	120	**200**
125	30	0.79	667903	0.94	668803	156	73	12	37	120	**220**
150	40	1.55	667904	1.83	668804	188	102	20	56	156	**300**
175	40	1.74	667905	2.02	668805	212	102	20	56	156	**300**
200	50	2.10	667906	2.36	668806	236	102	20	56	156	**300**
80	25	0.58	668001	0.75	668821	107	73	12	37	120	**150**
100	30	0.65	668002	0.85	668822	128	73	12	35	120	**200**
125	30	0.82	668003	0.97	668823	156	73	12	37	120	**220**
150	40	1.64	668004	1.32	668824	188	102	20	56	156	**300**
175	40	1.85	668005	2.13	668825	212	102	20	56	156	**300**
200	50	2.21	668006	2.47	668826	236	102	20	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

mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	4 km/h daN
150	40	2.16	664304	1.44	665704	2.62	668704	194	140x110	105x80	11	58	178	**400**
200	50	2.58	664306	1.97	665706	3.00	668706	240	140x110	105x80	11	50	178	**500**
150	40	2.35	664804	1.53	665904	2.71	668904	194	140x110	105x80	11	58	178	**400**
200	50	2.68	664806	2.08	665906	3.08	668906	240	140x110	105x80	11	50	178	**500**
200	50	2.93	665306	2.32	665806	3.35	669206	240	140x110	105x80	11	50	178	**500**

Options available to order

Footguard
for brackets NL-
M-P-PT

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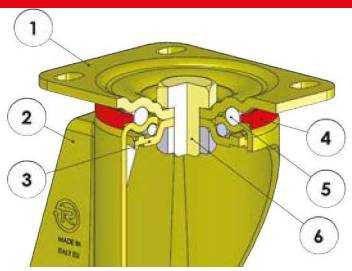
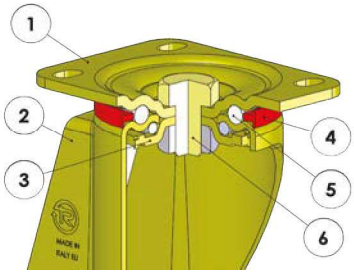
"TR" POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE

Medium-heavy duty brackets P - max carrying capacity 600 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

mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	4 km/h daN
100	30	1.04	667102	0.55	668102	1.19	669002	138	100x85	80x60	9	46	123	**200**
125	30	1.17	667103	0.75	668103	1.31	669003	161	100x85	80x60	9	44	123	**250**
100	30	1.08	667302	0.58	668302	1.22	669102	138	100x85	80x60	9	46	123	**200**
125	30	1.20	667303	0.78	668303	1.34	669103	161	100x85	80x60	9	44	123	**250**



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

mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	4 km/h daN
150	40	2.79	667604	1.37	668604	3.36	669004	200	140x110	105x80	11	70	126	**400**
175	40	3.01	667605	1.58	668605	3.57	669005	225	140x110	105x80	11	70	126	**470**
200	50	3.25	667606	1.79	668606	3.82	669006	250	140x110	105x80	11	70	126	**600**
150	40	2.89	667504	1.46	668504	3.46	669104	200	140x110	105x80	11	70	126	**400**
175	40	3.11	667505	1.69	668505	3.68	669105	225	140x110	105x80	11	70	126	**470**
200	50	3.36	667506	1.90	668506	3.93	669106	250	140x110	105x80	11	70	126	**600**

Options available to order

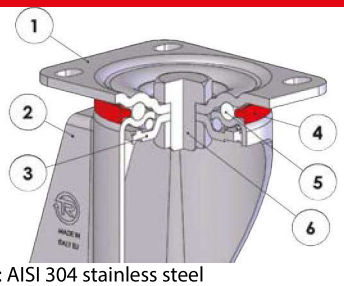
Wheel with ball bearings fitted with P bracket

Directional lock for brackets d. 150-200 mm

Footguard for brackets NL-M-P-PT

Stainless steel medium-heavy duty brackets PX - max carrying capacity 600 daN

INOX



1) Plate: AISI 304 stainless steel
2) Fork: AISI 304 stainless steel
3) Ball race ring: AISI 304 stainless steel
4) Dust seal: orange polyamide
5) Swivel actions: double ball ring with grease lubrication
6) King pin: screw and nut in stainless steel

Available with adjustable total rear foot brake

mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
150	40	2.75	667004	1.36	667114	3.32	667214	200	140x110	105x80	11	70	126	**400**
175	40	2.95	667005	1.56	667115	3.52	667215	225	140x110	105x80	11	70	126	**470**
200	50	3.20	667006	1.76	667116	3.77	667216	250	140x110	105x80	11	70	126	**600**
150	40	2.77	667314	1.55	667414	3.34	667514	200	140x110	105x80	11	70	126	**400**
175	40	3.09	667315	1.69	667415	3.66	667515	225	140x110	105x80	11	70	126	**470**
200	50	3.30	667316	1.87	667416	3.87	667516	250	140x110	105x80	11	70	126	**600**