







THERMOPLASTIC POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE

-  80-250 mm
-  55 Shore D
-  120-750 daN
4 km/h
-  100-500 daN
6 km/h
-  120-450 daN
-  -15 / +80 °C



Description

Tyre: red thermoplastic polyurethane, hardness 55 Shore D, excellent rolling resistance and elasticity features, good resistance to wear and tearing.

Centre: polyamide 6.

Hub with plain bore which directly houses the axle.
 Hub with cylindrical roller bearing in plastic cage. Also available with stainless steel roller bearing.
 Hub with double shielding ball bearing, co-printed in centre (diam. 80-125 mm). Hub with double shielding ball bearings (diam. 150-200 mm). The bearings are protected from dirt, machining residue and corrosive substances by a glass-fibre reinforced polyamide installation bushing with internal labyrinth seal. Diam. 250 mm: hub with shielded ball bearings with interference assembly in the seats obtained by centre moulding. Also available with stainless steel ball bearing.

INOX

Uses


















Suitable for trolleys and machinery with medium-duty loads, also in case of continuous handling.

Suitable for indoor and outdoor use with frequent washing and sterilisation.

Examples of recommended applications: trolleys for industrial use, tubular trolleys, trolleys for food and chemical industry, mobile scaffoldings (fitted with suitable brackets, they meet Standard UNI EN 1004-1:2021).

Environments of use

Suitable for industrial environments, also in presence of water and saturated vapour, alcohol and glycol, mineral and organic 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

Suitable for tiles and cement-resin.


Not recommended unpaved floors or in presence of processing residues.

Not suitable in presence of obstacles, even if small.

They do not mark fragile floors.



Force required to push or tow a wheel

 	100 kg	150 kg	200 kg	250 kg	300 kg	350 kg	400 kg	450 kg	750 kg
80 mm	4,5	----	----	----	----	----	----	----	----
100 mm	2,2	4,5	----	----	----	----	----	----	----
125 mm	1,2	2,2	4	----	----	----	----	----	----
150x35 mm	< 1	2	3,2	5	----	----	----	----	----
150x45 mm	< 1	1,8	2,6	3,5	5	5,3	----	----	----
160 mm	< 1	1,6	2,2	3	3,9	5,1	6	---	---
200 mm	< 1	1,5	2	2,8	3,7	4,8	5,5	6,5	----
250 mm	< 1	< 1	< 1	2	2,8	3,7	4,8	5	7

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 80-200 mm
Top plate, bolt hole, solid stem, Zama expander 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 450 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 100-250 mm
Top plate fitting. Available with front brake and adjustable rear brake.



Medium-heavy duty brackets PX in stainless steel

Maximum carrying capacity 450 daN - available diameters 150-200 mm
Top plate fitting. Available with adjustable rear brake.



Mobile scaffolding brackets (See Scaffolding section on page 360)

Maximum carrying capacity 400 daN - maximum capacity according to UNI EN 1004-1:2021 750 daN
Available diameters 125-200 mm. Top plate, unthreaded stem, threaded stem with leveller fittings. Available with brake and double brake pedal.







Options available to order

The series 60 wheels are also available with assembled thread guards. To order them add the "PF" suffix to the product code. To order loose thread guards see the Accessories section.







SERIES **60**

**THERMOPLASTIC POLYURETHANE WHEELS
WITH POLYAMIDE 6 CENTRE**










										Static				4 km/h	
mm	mm	kg	COD.	mm	mm.	daN	daN	daN							
80	30	0,11	601101	12	39	220	120	120							
100	30	0,15	601102	12	44	300	170	170							
125	35	0,25	601103	15	44	350	230	230							
150	35	0,35	601105	15	44	500	250	250							
150	45	0,51	601104	20	59	700	280	350							
200	50	0,87	601106	20	59	750	320	450							

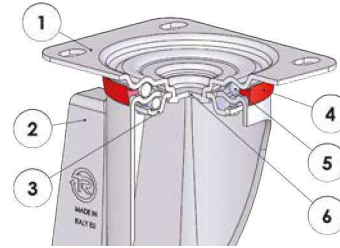


										Static				4 km/h	
mm	mm	kg	COD.	kg	COD.	mm	mm	daN	daN	daN					
80	30	0,13	603101	0,13	603201	12	39	220	120	120					
100	30	0,17	603102	0,17	603202	12	44	300	170	170					
125	35	0,25	603103	0,25	603203	15	44	350	230	230					
150	35	0,37	603105	0,37	603205	15	44	500	250	250					
150	45	0,54	603104	0,54	603204	20	59	700	280	350					
200	50	0,92	603106	0,92	603206	20	59	750	320	450					



												Static				4 km/h		6 km/h	
mm	mm	kg	COD.	kg	COD.	mm	mm.	daN	daN	daN	daN	daN	daN	daN					
80	30	0,17	602201	0,17	602401	8	40	220	130	130	100								
100	30	0,21	602202	0,21	602402	8	45	300	200	200	160								
125	35	0,30	602203	0,30	602403	8	45	350	250	250	200								
150	45	0,76	602204	0,76	602404	12	60	700	300	350	280								
160	50	0,87	602210	0,87	602410	12	60	720	320	400	320								
200	50	1,16	602206	1,16	602406	12	60	750	360	450	360								
250	50	1,50	602208			20	58	1000	450	750	500								

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		kg	COD.	kg	COD.	kg	COD.	mm						daN
80	30	0,57	604201	0,42	605701	0,73	606601	107	100x85	80x60	9	37	120	120
100	30	0,64	604202	0,50	605702	0,80	606602	128	100x85	80x60	9	35	120	170
125	35	0,85	604203	0,65	605703	1,01	606603	156	100x85	80x60	9	37	120	220
150	35	0,97	604204	0,78	605704	1,13	606604	182	100x85	80x60	9	34	120	220
150	45	1,84	604211	1,70	605711	2,12	606611	194	140x110	105x80	11	56	156	300
200	50	2,28	604206	2,23	605706	2,57	606606	240	140x110	105x80	11	56	156	300
80	30	0,59	604501	0,44	605901	0,74	606621	107	100x85	80x60	9	37	120	120
100	30	0,66	604502	0,52	605902	0,82	606622	128	100x85	80x60	9	35	120	170
125	35	0,87	604503	0,67	605903	1,03	606623	156	100x85	80x60	9	37	120	220
150	35	0,99	604504	0,80	605904	1,15	606624	182	100x85	80x60	9	34	120	220
150	45	1,87	604511	1,73	605911	2,17	606631	194	140x110	105x80	11	56	156	300
200	50	2,31	604506	2,27	605906	2,60	606626	240	140x110	105x80	11	56	156	300
80	30	0,62	604701	0,47	604801	0,77	604901	107	100x85	80x60	9	37	120	130
100	30	0,69	604702	0,54	604802	0,85	604902	128	100x85	80x60	9	35	120	200
125	35	0,87	604703	0,67	604803	1,03	604903	156	100x85	80x60	9	37	120	220
150	45	2,00	604731	1,85	604811	2,29	604911	194	140x110	105x80	11	56	156	300
160	50	2,11	604710	1,96	604810	2,40	604910	199	140x110	105x80	11	56	156	300
200	50	2,46	604736	2,41	604806	2,75	604906	240	140x110	105x80	11	56	156	300

Options available to order

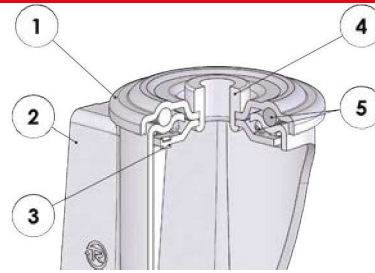


Bracket with directional lock
d. 80-125 mm



Directional lock for brackets
d. 150-200 mm

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

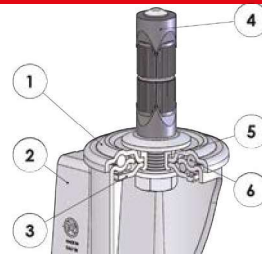
mm	mm	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	daN				
80	30	0,51	607701	0,67	606401	107	73	12	37	120	120				
100	30	0,58	607702	0,73	606402	128	73	12	35	120	170				
125	35	0,78	607703	0,95	606403	156	73	12	37	120	220				
150	35	0,91	607704	1,07	606404	182	73	12	34	120	220				
150	45	1,73	607711	2,05	606411	188	102	20	56	156	300				
200	50	2,19	607706	2,50	606406	236	102	20	56	156	300				
80	30	0,52	607801	0,68	606421	107	73	12	37	120	120				
100	30	0,60	607802	0,75	606422	128	73	12	35	120	170				
125	35	0,80	607803	0,97	606423	156	73	12	37	120	220				
150	35	0,93	607804	1,09	606424	182	73	12	34	120	220				
150	45	1,75	607811	2,05	606431	188	102	20	56	156	300				
200	50	2,22	607806	2,53	606426	236	102	20	56	156	300				
80	30	0,55	604301	0,71	605501	107	73	12	37	120	130				
100	30	0,62	604302	0,78	605502	128	73	12	35	120	200				
125	35	0,80	604303	0,97	605503	156	73	12	37	120	220				
150	45	1,34	604331	1,50	605511	188	102	20	56	156	300				
160	50	2,02	604310	2,32	605510	193	102	20	56	156	300				
200	50	2,37	604336	2,68	605506	236	102	20	56	156	300				

Options available to order



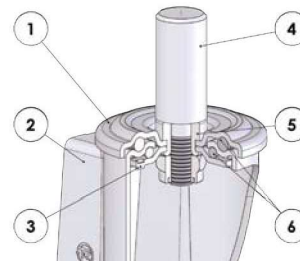
Fastening with threaded stem

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) Stem: zamak expander
 - 5) King pin: bushing in electrolytically galvanised steel
 - 6) Swivel actions: double ball ring with grease lubrication
- Available with total front foot brake

mm	mm	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	mm	daN
80	30	0,63	609201	0,79	609301	109	73	20	65	20-24	37	120	120
100	30	0,70	609202	0,85	609302	130	73	20	65	20-24	35	120	130
125	35	0,90	609203	1,07	609303	158	73	20	65	20-24	37	120	130



- 1) Plate: electrolytically galvanised steel plate
 - 2) Fork: electrolytically galvanised steel plate
 - 3) Ball race ring: electrolytically galvanised steel plate
 - 4) Solid stem: galvanised steel
 - 5) King pin: bushing in electrolytically galvanised steel
 - 6) Swivel actions: double ball ring with grease lubrication
- Available with total front foot brake

mm	mm	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN
100	30	0,75	606102	0,90	606202	128	73	22	47	35	120	170
125	35	0,95	606103	1,12	606203	156	73	22	47	37	120	220
150	35	1,08	606104	1,24	606204	182	73	22	47	34	120	220
150	45	2,10	606111	2,40	606211	188	102	26	56	56	156	300
200	50	2,53	606106	2,84	606206	236	102	26	56	56	156	300

Options available to order



Bracket with Zama stem fitted with wheels with roller bearings and single ball bearing d. 80-125 mm



Connection with solid stem with dimensions that can be customised

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

INOX

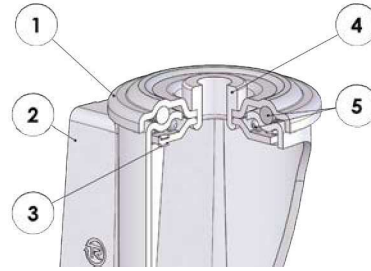


- 1) Plate: AISI 304 stainless steel
 - 2) Fork: AISI 304 stainless steel
 - 3) Ball race ring: AISI 304 stainless steel
 - 4) Dust seal: orange polyethylene
 - 5) Swivel actions: double ball ring with grease lubrication
 - 6) King pin: integrated with the plate and cold-riveted
- Available with total front foot brake













mm		kg		kg		kg		mm		mm		mm		mm		daN	
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	mm	mm	daN	4 km/h
80	30	0,57	604401	0,42	605101	0,73	606701	107	100x85	80x60	9	37	120		120		
100	30	0,64	604402	0,50	605102	0,80	606702	128	100x85	80x60	9	35	120		170		
125	35	0,78	604403	0,66	605103	0,94	606703	156	100x85	80x60	9	37	120		220		
150	35	1,06	604404	0,94	605104	1,22	606704	182	100x85	80x60	9	34	120		220		
150	45	1,87	604411	1,73	605111	2,14	606711	194	140x110	105x80	11	56	156		300		
200	50	2,28	604406	2,23	605106	2,57	606706	240	140x110	105x80	11	56	156		300		
80	30	0,59	604601	0,44	605601	0,74	606721	107	100x85	80x60	9	37	120		120		
100	30	0,66	604602	0,52	605602	0,82	606722	128	100x85	80x60	9	35	120		170		
125	35	0,80	604603	0,68	605603	0,96	606723	156	100x85	80x60	9	37	120		220		
150	35	0,92	604604	0,80	605604	1,08	606724	182	100x85	80x60	9	34	120		220		
150	45	1,87	604611	1,73	605611	2,17	606731	194	140x110	105x80	11	56	156		300		
200	50	2,31	604606	2,27	605606	2,60	606726	240	140x110	105x80	11	56	156		300		
80	30	0,62	605401	0,47	605001	0,77	606901	107	100x85	80x60	9	37	120		130		
100	30	0,69	605402	0,54	605002	0,85	606902	128	100x85	80x60	9	35	120		200		
125	35	0,80	605403	0,68	605003	0,96	606903	156	100x85	80x60	9	37	120		220		
150	45	2,00	605411	1,85	605011	2,29	606911	194	140x110	105x80	11	56	156		300		
160	50	2,11	605410	1,96	605010	2,40	606910	199	140x110	105x80	11	56	156		300		
200	50	2,46	605406	2,41	605006	2,75	606906	240	140x110	105x80	11	56	156		300		

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

INOX

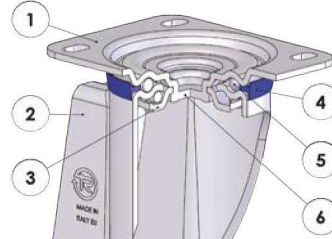


- 1) Plate: AISI 304 stainless steel
 - 2) Fork: AISI 304 stainless steel
 - 3) Ball race ring: AISI 304 stainless steel
 - 4) King pin: bushing in stainless steel
 - 5) Swivel actions: double ball ring with grease lubrication
- Available with total front foot brake

															
mm	mm	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	daN				
80	30	0,51	607901	0,67	608801	107	73	12	37	120	120				
100	30	0,58	607902	0,73	608802	128	73	12	35	120	170				
125	35	0,72	607903	0,88	608803	156	73	12	37	120	220				
150	35	0,78	607904	0,94	608804	182	73	12	34	120	220				
150	45	1,75	607911	2,05	608811	188	102	20	56	156	300				
200	50	2,19	607906	2,50	608806	236	102	20	56	156	300				
80	30	0,52	608001	0,68	608821	107	73	12	37	120	120				
100	30	0,60	608002	0,75	608822	128	73	12	35	120	170				
125	35	0,74	608003	0,90	608823	156	73	12	37	120	220				
150	35	0,84	608004	1,00	608824	182	73	12	34	120	220				
150	45	1,78	608011	2,08	608831	188	102	20	56	156	300				
200	50	2,22	608006	2,53	608826	236	102	20	56	156	300				
80	30	0,55	606301	0,71	606501	107	73	12	37	120	130				
100	30	0,62	606302	0,78	606502	128	73	12	35	120	200				
125	35	0,74	606303	0,90	606503	156	73	12	37	120	220				
150	45	1,34	606311	1,50	606511	188	102	20	56	156	300				
160	50	2,02	606310	2,32	606510	193	102	20	56	156	300				
200	50	2,37	606306	2,68	606506	236	102	20	56	156	300				

THERMOPLASTIC POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE

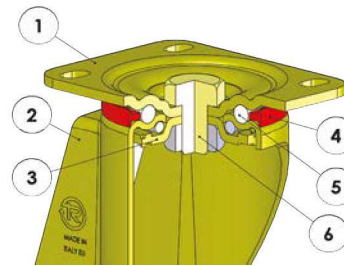
Medium-duty brackets M - max carrying capacity 450 daN



- 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		kg		COD.		kg		COD.		mm		mm		mm		mm		mm		daN	
150	45	2,16	604311	1,70	605711	2,64	606811	194	140x110	105x80	11	58	178	350							
200	50	2,64	604306	2,23	605706	3,04	606806	240	140x110	105x80	11	50	178	450							
150	45	2,19	604711	1,73	605911	2,68	606831	194	140x110	105x80	11	58	178	350							
200	50	2,67	604706	2,27	605906	3,11	606826	240	140x110	105x80	11	50	178	450							
150	45	2,32	608411	1,85	604811	2,74	608911	194	140x110	105x80	11	58	178	350							
160	50	2,43	608410	2,96	604810	2,85	608910	199	140x110	105x80	11	58	178	400							
200	50	2,82	608406	2,41	604806	3,27	608906	240	140x110	105x80	11	50	178	450							

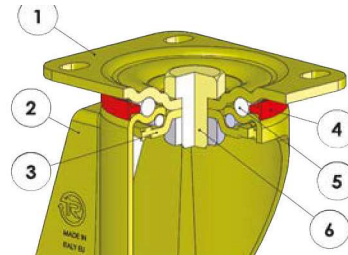
Medium-heavy duty brackets P - max carrying capacity 450 daN



- 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		kg		COD.		kg		COD.		mm		mm		mm		mm		mm		daN	
100	30	1,04	607102	0,63	608102	1,18	609002	138	100x85	80x60	9	46	123	170							
125	35	1,19	607103	0,74	608103	1,34	609003	161	100x85	80x60	9	44	123	230							
100	30	1,06	607302	0,65	608302	1,20	609102	138	100x85	80x60	9	46	123	170							
125	35	1,21	607303	0,76	608303	1,36	609103	161	100x85	80x60	9	44	123	230							
100	30	1,08	608202	0,67	608222	1,23	608242	138	100x85	80x60	9	46	123	200	160						
125	35	1,21	608203	0,76	608223	1,36	608243	161	100x85	80x60	9	44	123	250	200						

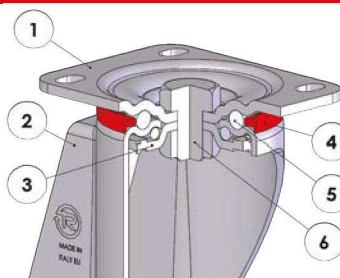
Medium-heavy duty brackets P - max carrying capacity 750 daN



- 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 adjustable total rear foot brake

mm		kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN
150	45	2,77	607604	1,85	608604	3,34	609004	200	140x110	105x80	11	70	126	350
200	50	3,26	607606	2,40	608606	3,83	609006	250	140x110	105x80	11	70	126	450
150	45	2,80	607504	1,88	608504	3,37	609104	200	140x110	105x80	11	70	126	350
200	50	3,29	607506	2,44	608506	3,87	609106	250	140x110	105x80	11	70	126	450
150	45	2,93	608211	2,01	608231	3,37	608251	200	140x110	105x80	11	70	126	350
160	50	3,04	608210	2,12	608230	3,60	608250	205	140x110	105x80	11	70	126	400
200	50	3,44	608206	2,58	608226	4,01	608246	250	140x110	105x80	11	70	126	450
250	50	3,99	608208	3,13	608228	4,73	608248	298	140x110	105x80	11	66	126	750

Stainless steel medium-heavy duty brackets PX - max carrying capacity 450 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		kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN
150	45	2,77	607004	1,85	607114	3,34	607214	200	140x110	105x80	11	70	126	350
200	50	3,26	607006	2,40	607116	3,83	607216	250	140x110	105x80	11	70	126	450
150	45	2,80	607314	1,88	607414	3,37	607514	200	140x110	105x80	11	70	126	350
200	50	3,29	607316	2,44	607416	3,87	607516	250	140x110	105x80	11	70	126	450
150	45	2,93	609411	2,01	609811	3,37	609911	200	140x110	105x80	11	70	126	350
160	50	3,04	609410	2,12	609810	3,60	609910	205	140x110	105x80	11	70	126	400
200	50	3,44	609406	2,58	609806	4,01	609906	250	140x110	105x80	11	70	126	450