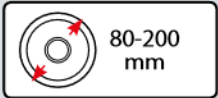


**THERMOPLASTIC POLYURETHANE WHEELS
WITH POLYAMIDE 6 CENTRE**



Description

Tyre: blue non-marking thermoplastic polyurethane, hardness 85 Shore A, excellent rolling resistance and elasticity, good resistance to wear and tearing.

Centre: polyamide 6.

Hub with plain bore which directly houses the axle.

Hub with cylindrical roller bearing in a plastic cage. Also available with stainless steel roller bearings.

Hub with double shielding ball bearing, co-printed in centre (diam. 80-125 mm). Hub with double shielding ball bearing (diam. 150-200 mm). The bearing is protected from dirt, machining residue and corrosive substances by a glass-fibre reinforced polyamide installation bushing with internal labyrinth seal.

Uses

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

Suitable for indoor use for frequent washing and sterilisation.

Excellent rolling resistance guarantees minimum effort in manual handling.

Examples of recommended applications: trolleys for industrial indoor use, tubular trolleys, trolleys for food and chemical industry, mobile scaffoldings (fitted with suitable brackets, they meet Standard UNI EN 1004:2005).

Environments of use

Suitable for industrial environments, also in presence of water and oils. Not suitable in presence of aggressive chemicals.

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 on unpaved floors or in presence of processing residues. They facilitate overcoming small obstacles along the path. They do not mark or damage fragile floors.



Force required to push or tow a wheel

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

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, Zamak 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.

Options available to order:

The series 61 wheels are also available with assembled thread guards (version with hub and roller bearings). To order them add the "PF" suffix to the product code. To order loose thread guards see the Accessories section.

SERIES **61**

**THERMOPLASTIC POLYURETHANE WHEELS
WITH POLYAMIDE 6 CENTRE**



mm	mm	kg	COD.	mm	mm	daN	daN	daN										
80	30	0,11	611101	12	39	160	75	75										
100	30	0,16	611102	12	44	200	120	120										
125	35	0,25	611103	15	44	350	180	180										
150	35	0,38	611105	15	44	400	220	230										
150	45	0,39	611104	20	59	450	240	250										
200	50	0,86	611106	20	59	500	300	300										



mm	mm	kg	COD.	kg	COD.	mm	mm	daN	daN	daN								
80	30	0,13	613101	0,13	613201	12	39	160	75	75								
100	30	0,18	613102	0,18	613202	12	44	200	120	120								
125	35	0,27	613103	0,27	613203	15	44	350	180	180								
150	35	0,40	613105	0,40	613205	15	44	400	220	230								
150	45	0,43	613104	0,43	613204	20	59	450	240	250								
200	50	0,92	613106	0,92	613206	20	59	500	300	300								



mm	mm	kg	COD.	kg	COD.	mm	mm.	daN	daN	daN								
80	30	0,17	612201	0,17	612401	8	40	160	85	85								
100	30	0,21	612202	0,21	612402	8	45	200	120	120								
125	35	0,30	612203	0,30	612403	8	45	350	180	180								
150	45	0,76	612204	0,76	612404	12	60	450	250	250								
160	50	0,87	612210	0,87	612410	12	60	470	275	275								
200	50	1,16	612206	1,16	612406	12	60	500	300	300								

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	COD.	kg	COD.	kg	COD.	mm						daN
80	30	0,62	614201	0,38	615701	0,81	616601	107	100x85	80x60	9	37	120	75
100	30	0,74	614202	0,43	615702	0,89	616602	128	100x85	80x60	9	35	120	120
125	35	0,91	614203	0,66	615703	1,05	616603	156	100x85	80x60	9	37	120	180
150	35	1,08	614204	0,80	615704	1,21	616604	182	100x85	80x60	9	34	120	220
150	45	1,83	614211	1,46	615711	2,11	616611	194	140x110	105x80	11	56	156	250
200	50	2,23	614206	1,81	615706	2,49	616606	240	140x110	105x80	11	56	156	300
80	30	0,63	614501	0,41	615901	0,84	616621	107	100x85	80x60	9	37	120	75
100	30	0,75	614502	0,43	615902	0,90	616622	128	100x85	80x60	9	35	120	120
125	35	0,92	614503	0,67	615903	1,07	616623	156	100x85	80x60	9	37	120	180
150	35	1,11	614504	0,82	615904	1,23	616624	182	100x85	80x60	9	34	120	220
150	45	1,98	614511	1,51	615911	2,16	616631	194	140x110	105x80	11	56	156	250
200	50	2,27	614506	1,86	615906	2,51	616626	240	140x110	105x80	11	56	156	300
80	30	0,60	614701	0,48	614801	0,77	614901	107	100x85	80x60	9	37	120	85
100	30	0,67	614702	0,53	614802	0,84	614902	128	100x85	80x60	9	35	120	120
125	35	0,82	614703	0,66	614803	1,02	614903	156	100x85	80x60	9	37	120	180
150	45	2,01	614731	1,82	614811	2,29	614911	194	140x110	105x80	11	56	156	250
160	50	2,11	614710	1,93	614810	2,39	614910	199	140x110	105x80	11	56	156	275
200	50	2,46	614736	2,37	614806	2,75	614906	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		kg	COD.		kg	COD.		mm		mm	mm	mm	mm	daN				
80	30	0,55	617701		0,73	616401		107	73	12	37	120	75					
100	30	0,67	617702		0,88	616402		128	73	12	35	120	120					
125	35	0,85	617703		1,00	616403		156	73	12	37	120	180					
150	35	1,01	617704		1,14	616404		182	73	12	34	120	220					
150	45	1,69	617711		1,98	616411		188	102	20	56	156	250					
200	50	2,13	617706		2,41	616406		236	102	20	56	156	300					
80	30	0,57	617801		0,75	616421		107	73	12	37	120	75					
100	30	0,68	617802		0,88	616422		128	73	12	35	120	120					
125	35	0,87	617803		1,02	616423		156	73	12	37	120	180					
150	35	1,03	617804		1,16	616424		182	73	12	34	120	220					
150	45	1,74	617811		2,03	616431		188	102	20	56	156	250					
200	50	2,18	617806		2,46	616426		236	102	20	56	156	300					
80	30	0,56	614301		0,72	615501		107	73	12	37	120	85					
100	30	0,61	614302		0,78	615502		128	73	12	35	120	120					
125	35	0,79	614303		0,96	615503		156	73	12	37	120	180					
150	45	1,89	614331		2,21	615511		188	102	20	56	156	250					
160	50	1,99	614310		2,31	615510		193	102	20	56	156	275					
200	50	2,34	614336		2,65	615506		236	102	20	56	156	300					

Options available to order:



Fitting 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	daN		
80	30	0,67	619201	0,85	619301	109	20	65	20-24	37	120	75		
100	30	0,79	619202	1,00	619302	130	20	65	20-24	35	120	120		
125	35	0,97	619203	1,12	619303	158	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 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	1,67	616102	1,88	616202	128	73	22	47	35	120	120		
125	35	1,85	616103	2,00	616203	156	73	22	47	37	120	180		
150	35	2,01	616104	2,14	616204	182	73	22	47	34	120	220		
150	45	2,69	616111	2,98	616211	188	102	26	56	56	156	250		
200	50	3,13	616106	3,41	616206	236	102	26	56	56	156	300		

Options available to order:



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



Fitting with solid stem with customised dimensions

Standard-duty brackets NLX in stainless steel - 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		COD.		kg		COD.		mm		mm		mm		mm		mm		daN		4 km/h
80	30	0,61	614401	0,35	615101	0,78	616701	107	100x85	80x60	9	37	120	75								
100	30	0,65	614402	0,40	615102	0,83	616702	128	100x85	80x60	9	35	120	120								
125	35	0,81	614403	0,64	615103	0,95	616703	156	100x85	80x60	9	37	120	180								
150	35	0,97	614404	0,81	615104	1,10	616704	182	100x85	80x60	9	34	120	220								
150	45	1,77	614411	1,33	615111	1,98	616711	194	140x110	105x80	11	56	156	250								
200	50	2,20	614406	1,71	615106	2,48	616706	240	140x110	105x80	11	56	156	300								
80	30	0,64	614601	0,38	615601	0,81	616721	107	100x85	80x60	9	37	120	75								
100	30	0,65	614602	0,41	615602	0,84	616722	128	100x85	80x60	9	35	120	120								
125	35	0,83	614603	0,66	615603	0,97	616723	156	100x85	80x60	9	37	120	180								
150	35	0,99	614604	0,83	615604	1,12	616724	182	100x85	80x60	9	34	120	220								
150	45	1,82	614611	1,38	615611	2,03	616731	194	140x110	105x80	11	56	156	250								
200	50	2,25	614606	1,74	615606	2,53	616726	240	140x110	105x80	11	56	156	300								
80	30	0,60	615401	0,48	615001	0,77	616901	107	100x85	80x60	9	37	120	85								
100	30	0,67	615402	0,53	615002	0,84	616902	128	100x85	80x60	9	35	120	120								
125	35	0,78	615403	0,66	615003	0,95	616903	156	100x85	80x60	9	37	120	180								
150	45	2,00	615411	1,69	615011	2,29	616911	194	140x110	105x80	11	56	156	250								
160	50	2,10	615410	1,79	615010	2,39	616910	199	140x110	105x80	11	56	156	275								
200	50	2,46	615406	2,21	615006	2,74	616906	240	140x110	105x80	11	56	156	300								

Standard-duty brackets NLX in stainless steel - 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		kg	COD.		kg	COD.		mm		mm	mm	mm	mm	daN				
80	30	0,55	617901		0,72	618801		107	73	12	37	120	75					
100	30	0,61	617902		0,82	618802		128	73	12	35	120	120					
125	35	0,79	617903		0,94	618803		156	73	12	37	120	180					
150	35	0,90	617904		1,03	618804		182	73	12	34	120	220					
150	45	1,57	617911		1,85	618811		188	102	20	56	156	250					
200	50	2,14	617906		2,40	618806		236	102	20	56	156	300					
80	30	0,58	618001		0,75	618821		107	73	12	37	120	75					
100	30	0,62	618002		0,82	618822		128	73	12	35	120	120					
125	35	0,81	618003		0,96	618823		156	73	12	37	120	180					
150	35	0,92	618004		1,05	618824		182	73	12	34	120	220					
150	45	1,62	618011		1,90	618831		188	102	20	56	156	250					
200	50	2,46	618006		2,45	618826		236	102	20	56	156	300					
80	30	0,56	616301		0,72	616501		107	73	12	37	120	85					
100	30	0,61	616302		0,78	616502		128	73	12	35	120	120					
125	35	0,73	616303		0,88	616503		156	73	12	37	120	180					
150	45	1,89	616311		2,04	616511		188	102	20	56	156	250					
160	50	1,99	616310		2,31	616510		193	102	20	56	156	275					
200	50	2,34	616306		2,65	616506		236	102	20	56	156	300					