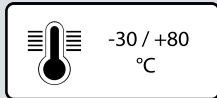
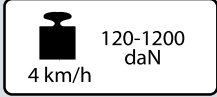
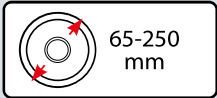


## POLYAMIDE 6 SOLID WHEELS



**INOX**



### Description

Polyamide 6 solid wheels 6, hardness 70 Shore D.

Hub with plain bore 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

Intended mainly for static uses, for medium-heavy capacities.

The excellent rolling resistance ensures that minimum manual effort is needed in handling, but only on smooth floors.

Examples of recommended applications: trolleys for internal use in the food and canning industries, tannery equipment, flower trolleys, manual pallet trucks, mobile scaffoldings (fitted with adequate brackets, they meet UNI EN 1004-1:2021 Standards).

### Environments of use

Designed for industrial environments, even in presence of aggressive chemical substances. Not recommended in areas with strong organic acids and concentrated 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.

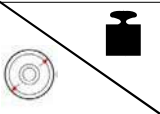
### Floors

Suitable only for smooth and compact floors.

Not suited for areas with obstacles.



### Force required to push or tow a wheel

	100 kg	200 kg	300 kg	400 kg	500 kg	700 kg	1000 kg	1200 kg
65 mm	5.5	----	----	----	----	----	----	----
80 mm	4	----	----	----	----	----	----	----
100 mm	3.5	6	9	----	----	----	----	----
125 mm	2.5	5	6	8	----	----	----	----
150 mm	1	2.5	6	8	10	----	----	----
175 mm	< 1	2	5.5	7	9	----	----	----
200 mm	< 1	1.8	4.7	5.8	6.5	7.8	----	----
250 mm	< 1	1.5	4	4.5	6	8	12	16

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 350 daN - available diameters 65-250 mm  
Top plate, bolt hole, solid stem fittings. Available with front brake.



#### Standard-duty brackets NLX in stainless steel

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 fittings. Available with adjustable front brake.



#### Medium-heavy duty brackets P

Maximum carrying capacity 730 daN - available diameters 100-200 mm  
Top plate fittings. Available with front brake and adjustable rear brake.



#### Heavy supports in PX stainless steel

Maximum carrying capacity 730 daN - available diameters 150-200 mm  
Top plate fittings. Available with adjustable rear brake.



#### Electrowelded brackets EE HD

Maximum carrying capacity 1200 daN - available diameters 250 mm  
Top plate fittings. 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 1004-2:2021 750 daN  
Available diameters 125-200 mm. Top plate, solid stem and threaded stem with leveller fittings. Available with single brake and double pedal.

### Options available to order:

The series 68 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.












Black polypropylene wheels (only version with hub with plain bore)














Polyamide 6 wheels for high loads (page 254)
















																
mm	mm	kg	CODE	mm	mm.	daN	daN	daN								
65	30	0.06	681100	12	34	<b>125</b>	<b>90</b>	<b>120</b>								
80	30	0.08	681111	12	39	<b>200</b>	<b>150</b>	<b>180</b>								
100	30	0.13	681112	12	44	<b>350</b>	<b>175</b>	<b>300</b>								
125	38	0.23	681103	15	44	<b>450</b>	<b>200</b>	<b>400</b>								
150	45	0.34	681104	20	59	<b>600</b>	<b>250</b>	<b>500</b>								
175	45	0.48	681105	20	59	<b>700</b>	<b>275</b>	<b>630</b>								
200	50	0.64	681106	20	59	<b>800</b>	<b>315</b>	<b>730</b>								
250	60	1.30	681108	25	88	<b>1300</b>	<b>450</b>	<b>1200</b>								

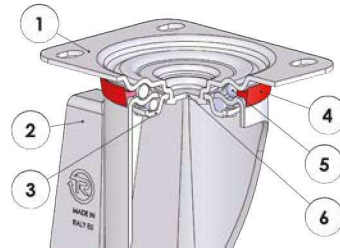


																
mm	mm	kg	CODE	kg	CODE	mm	mm	daN	daN	daN						
80	30	0.10	683111	0.10	683211	12	39	<b>200</b>	<b>150</b>	<b>180</b>						
100	30	0.15	683112	0.15	683212	12	44	<b>350</b>	<b>175</b>	<b>300</b>						
125	38	0.25	683103	0.25	683203	15	44	<b>450</b>	<b>200</b>	<b>400</b>						
150	45	0.51	683104	0.51	683204	20	59	<b>600</b>	<b>250</b>	<b>500</b>						
175	45	0.60	683105	0.60	683205	20	59	<b>700</b>	<b>275</b>	<b>630</b>						
200	50	0.82	683106	0.82	683206	20	59	<b>800</b>	<b>315</b>	<b>730</b>						
200	50	0.81	683116	0.81	683216	25	59	<b>800</b>	<b>315</b>	<b>730</b>						
250	60	1.38	683108			25	88	<b>1300</b>	<b>450</b>	<b>1200</b>						



																
mm	mm	kg	CODE	kg	CODE	mm	mm.	mm	mm	daN	daN	daN				
200	50	0.82	683306	0.63	682106	20	60	47	14	<b>800</b>	<b>315</b>	<b>730</b>				
200	50	0.81	683316	0.63	682106	25	60	47	14	<b>800</b>	<b>315</b>	<b>730</b>				

Standard-duty brackets NL - max carrying capacity 350 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	CODE	kg	CODE	kg	CODE	mm						daN
65	30	0.57	684500	0.37	685100			100	100x85	80x60	9	37		120
80	30	0.58	684501	0.39	685101	0.78	686801	107	100x85	80x60	9	37	120	180
100	30	0.65	684502	0.46	685102	0.85	686802	128	100x85	80x60	9	35	120	200
125	38	0.89	684503	0.64	685103	1.04	686803	156	100x85	80x60	9	37	120	220
125PG	38	1.10	684513	0.91	685143	1.30	686843	156	140x110	105x80	11	37	120	220
150B	45	1.02	684512	0.85	685142			182	100x85	80x60	9	50		220
150	45	1.77	684504	1.45	685104	1.99	686804	194	140x110	105x80	11	56	156	300
175	45	1.90	684505	1.56	685105	2.13	686805	217	140x110	105x80	11	56	156	300
200	50	2.14	684506	1.92	685106	2.33	686806	240	140x110	105x80	11	56	156	300
250	60	4.62	684108	3.19	685108			296	200x160	160x120	14	86		350

80	30	0.61	684801	0.41	685301	0.80	686821	107	100x85	80x60	9	37	120	180
100	30	0.68	684802	0.49	685302	0.88	686822	128	100x85	80x60	9	35	120	200
125	38	0.91	684803	0.66	685303	1.07	686823	156	100x85	80x60	9	37	120	220
125PG	38	1.12	684813	0.94	685323	1.33	686853	156	140x110	105x80	11	37	120	220
150B	45	1.20	684812	1.03	685322			182	100x85	80x60	9	50		220
150	45	1.94	684804	1.63	685304	2.17	686824	194	140x110	105x80	11	56	156	300
175	45	2.02	684805	1.68	685305	2.27	686825	217	140x110	105x80	11	56	156	300
200	50	2.32	684806	2.10	685306	2.46	686826	240	140x110	105x80	11	56	156	300

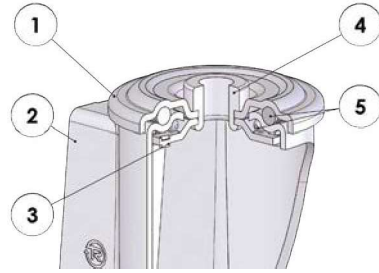
200	50	2.50	684866	2.30	685166	2.67	686846	240	140x110	105x80	11	56	156	300
-----	----	------	--------	------	--------	------	--------	-----	---------	--------	----	----	-----	-----

Options available to order:















Black polypropylene wheels (only version with hub with plain bore)

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

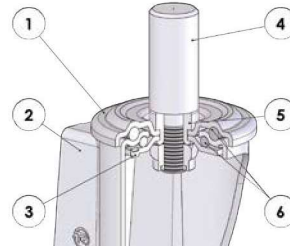
															
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN				
65	30	0.51	687700			100	73	12	37		<b>120</b>				
80	30	0.52	687701	0.70	686701	107	73	12	37	120	<b>180</b>				
100	30	0.55	687702	0.80	686702	128	73	12	35	120	<b>200</b>				
125	38	0.85	687703	0.99	686703	156	73	12	37	120	<b>220</b>				
150	45	1.57	687704	1.86	686704	188	102	20	56	156	<b>300</b>				
175	45	1.73	687705	2.02	686705	212	102	20	56	156	<b>300</b>				
200	50	1.95	687706	2.24	686706	236	102	20	56	156	<b>300</b>				
80	30	0.54	687901	0.73	686721	107	73	12	37	120	<b>180</b>				
100	30	0.62	687902	0.83	686722	128	73	12	35	120	<b>200</b>				
125	38	0.87	687903	1.02	686723	156	73	12	37	120	<b>220</b>				
150	45	1.75	687904	2.03	686724	188	102	20	56	156	<b>300</b>				
175	45	1.85	687905	2.14	686725	212	102	20	56	156	<b>300</b>				
200	50	2.13	687906	2.42	686726	236	102	20	56	156	<b>300</b>				
200	50	2.19	688006	2.48	686606	236	102	20	56	156	<b>300</b>				

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) 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	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN		
100	30	0,73	686102	0,88	687102	128	73	22	47	35	120	<b>200</b>		
125	38	0,93	686103	1,10	687103	156	73	22	47	37	120	<b>220</b>		
150	45	1,93	686104	2,23	687104	188	102	26	56	56	156	<b>300</b>		
200	50	2,29	686106	2,60	687106	236	102	26	56	56	156	<b>300</b>		

**Options available to order:**



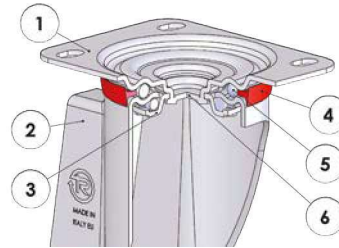
Fitting with expansion stem in polyamide d. 80-125 mm



Fitting 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

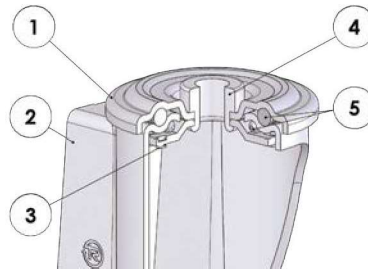
mm		kg		CODE		kg		CODE		mm		mm		mm		mm		daN		
80	30	0.55	684401	0.29	685401	0.73	689001	107	100x85	80x60	9	37	120	<b>180</b>						
100	30	0.61	684402	0.36	685402	0.76	689002	128	100x85	80x60	9	35	120	<b>200</b>						
125	38	0.78	684403	0.63	685403	0.95	689003	156	100x85	80x60	9	37	120	<b>220</b>						
150B	45	1.03	684408	0.83	685408			182	100x85	80x60	9	50		<b>220</b>						
150	45	1.65	684404	1.20	685404	1.94	689004	194	140x110	105x80	11	56	156	<b>300</b>						
175	45	1.79	684405	1.35	685405	2.08	689005	217	140x110	105x80	11	56	156	<b>300</b>						
200	50	2.02	684406	1.56	685406	2.30	689006	240	140x110	105x80	11	56	156	<b>300</b>						

80	30	0.56	684601	0.31	685601	0.75	689101	107	100x85	80x60	9	37	120	<b>180</b>						
100	30	0.64	684602	0.39	685602	0.79	689102	128	100x85	80x60	9	35	120	<b>200</b>						
125	38	0.80	684603	0.65	685603	0.97	689103	156	100x85	80x60	9	37	120	<b>220</b>						
150B	45	1.21	684608	1.00	685608			182	100x85	80x60	9	50		<b>220</b>						
150	45	1.83	684604	1.39	685604	2.11	689104	194	140x110	105x80	11	56	156	<b>300</b>						
175	45	1.91	684605	1.47	685605	2.20	689105	217	140x110	105x80	11	56	156	<b>300</b>						
200	50	2.20	684606	1.75	685606	2.48	689106	240	140x110	105x80	11	56	156	<b>300</b>						

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

**INOX**

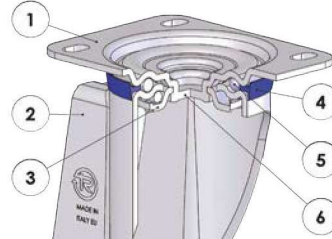


- 1) Plate: AISI 304 stainless steel
  - 2) Fork: AISI 304 stainless steel
  - 3) Ball race ring: AISI 304 stainless steel
  - 4) King pin: bushing in stainless steel
  - 5) Swivel actions: double ball ring with grease lubrication
- Available with total front foot brake

mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN		
80	30	0.50	685801	0.68	686001	107	73	12	37	120	<b>180</b>		
100	30	0.61	685802	0.79	686002	128	73	12	35	120	<b>200</b>		
125	38	0.79	685803	0.93	686003	156	73	12	37	120	<b>220</b>		
150	45	1.45	685804	1.75	686004	188	102	20	56	156	<b>300</b>		
175	45	1.61	685805	1.89	686005	212	102	20	56	156	<b>300</b>		
200	50	1.93	685806	2.22	686006	236	102	20	56	156	<b>300</b>		
80	30	0.52	685901	0.73	686021	107	73	12	37	120	<b>180</b>		
100	30	0.63	685902	0.81	686022	128	73	12	35	120	<b>200</b>		
125	38	0.81	685903	0.96	686023	156	73	12	37	120	<b>220</b>		
150	45	1.63	685904	1.93	686024	188	102	20	56	156	<b>300</b>		
175	45	1.73	685905	2.01	686025	212	102	20	56	156	<b>300</b>		
200	50	2.11	685906	2.40	686026	236	102	20	56	156	<b>300</b>		



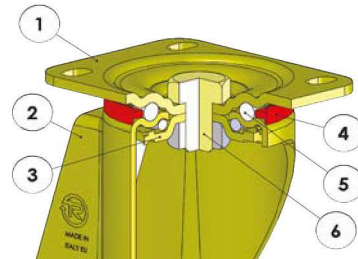
**Medium-duty brackets M - max carrying capacity 500 daN**



- 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	daN
150	45	2.12	684704	1.45	685104	2.52	688204	194	140x110	105x80	11	58	178	500
200	50	2.53	684706	1.92	685106	2.89	688206	240	140x110	105x80	11	50	178	500
150	45	2.29	685004	1.63	685304	2.70	689204	194	140x110	105x80	11	58	178	500
200	50	2.71	685006	2.10	685306	3.01	689206	240	140x110	105x80	11	50	178	500
200	50	2.69	684206	2.10	685166	3.22	684306	240	140x110	105x80	11	50	178	500

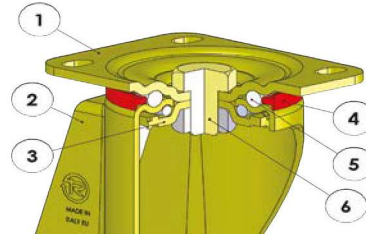
**Medium-heavy duty brackets P - max carrying capacity 730 daN**



- 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	daN
100	30	0.99	687502	0.60	688502	1.14	686902	138	100x85	80x60	9	46	123	300
125	38	1.16	687503	0.64	688503	1.27	686903	161	100x85	80x60	9	44	123	350
100	30	1.02	687602	0.63	688602	1.17	686922	138	100x85	80x60	9	46	123	300
125	38	1.18	687603	0.66	688603	1.29	686923	161	100x85	80x60	9	44	123	350

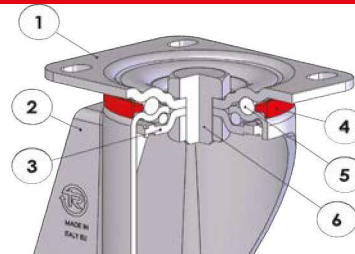
**Medium-heavy duty brackets P - max carrying capacity 730 daN**



- 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		CODE		kg		CODE		mm		mm		mm		mm		mm		daN	
150	45	2.80	687504	1.67	688504	2.98	686904	200	140x110	105x80	11	70	126	<b>500</b>							
175	45	2.86	687505	1.45	688505	3.43	686905	225	140x110	105x80	11	70	126	<b>630</b>							
200	50	3.11	687506	1.65	688506	3.39	686906	250	140x110	105x80	11	70	126	<b>730</b>							
150	45	2.97	687604	1.57	688604	3.54	686924	200	140x110	105x80	11	70	126	<b>500</b>							
175	45	2.98	687605	1.69	688605	3.55	686925	225	140x110	105x80	11	70	126	<b>630</b>							
200	50	3.28	687606	1.83	688606	3.85	686926	250	140x110	105x80	11	70	126	<b>730</b>							
200	50	3.35	684966	1.89	685366	3.63	686946	250	140x110	105x80	11	70	126	<b>730</b>							

**Stainless steel medium-heavy duty brackets PX - max carrying capacity 730 daN**

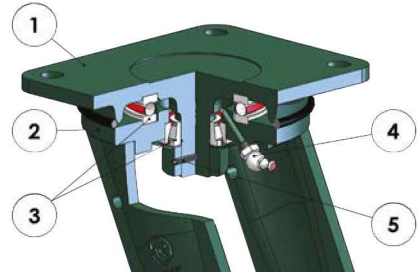


**INOX**

- 1) Plate: AISI 304 stainless steel
  - 2) Fork: AISI 304 stainless steel
  - 3) Ball race ring: AISI 304 stainless steel
  - 4) Dust seal: red 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		CODE		kg		CODE		mm		mm		mm		mm		mm		daN	
150	45	2.66	687004	1.23	687114	3.23	687214	200	140x110	105x80	11	70	126	<b>500</b>							
175	45	2.86	687005	1.42	687115	3.43	687215	225	140x110	105x80	11	70	126	<b>630</b>							
200	50	3.06	687006	1.62	687116	3.63	687216	250	140x110	105x80	11	70	126	<b>730</b>							
150	45	2.86	687314	1.41	687414	3.40	687514	200	140x110	105x80	11	70	126	<b>500</b>							
175	45	2.94	687315	1.54	687415	3.51	687515	225	140x110	105x80	11	70	126	<b>630</b>							
200	50	3.24	687316	1.80	687416	3.81	687516	250	140x110	105x80	11	70	126	<b>730</b>							

Electrowelded brackets EE HD - max carrying capacity 1200 daN



- 1) Plate: forged steel with integrated pin
  - 2) Fork: deep-drawn tips 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 rear drive brake

mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
250	60	7.99	688307	6.40	688407	8.87	688707	320	175x140	140x105	14	74	166	<b>1200</b>