

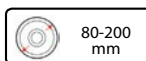
INDUSTRIAL MEDIUM DUTY LOADS



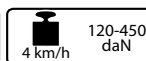


SERIES
60

THERMOPLASTIC POLYURETHANE
WHEELS WITH POLYAMIDE 6 CENTRE



80-200
mm



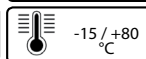
4 km/h
120-450
daN



120-380
daN



6 km/h
100-200
daN



-15 / +80
°C

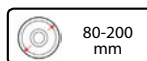
INOX

PAGE 88



SERIES
61

THERMOPLASTIC POLYURETHANE
WHEELS WITH POLYAMIDE 6 CENTRE



80-200
mm



4 km/h
75-300
daN



120-380
daN



6 km/h
70-140
daN



-15 / +70
°C

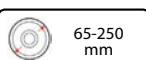
INOX

PAGE 98

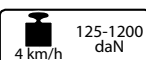


SERIES
68

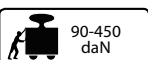
SOLID WHEELS
IN POLYAMIDE 6



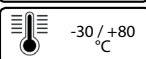
65-250
mm



4 km/h
125-1200
daN



90-450
daN



-30 / +80
°C

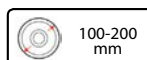
INOX

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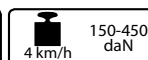


SERIES
73

WHEELS IN SIGMA ELASTIC RUBBER
WITH POLYAMIDE 6 CENTRE



100-200
mm



4 km/h
150-450
daN



100-350
daN



-20 / +70
°C

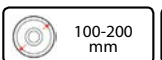
INOX

PAGE 118

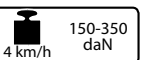


SERIES
73^E

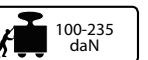
ELASTIC RUBBER WHEELS
WITH POLYAMIDE CENTRE



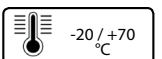
100-200
mm



4 km/h
150-350
daN



100-235
daN



-20 / +70
°C

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THERMOPLASTIC POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE



INOX



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. The bearing is 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.

Uses

Suitable for trolleys and machinery with medium-duty loads, also in case of continuous handling. The ball bearing model is excellent for mechanical handling or manual-mechanical handling and speed up to 6 Km/h.

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 1004:2005).

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 36.

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 or damage 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
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	2	3.2	4.5	6	9	----	----
200 mm	< 1	< 1	< 1	2.5	3	4	5.5	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, 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.



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)










Maximum carrying capacity 400 daN - maximum capacity according to UNI EN 1004:2005 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.

THERMOPLASTIC POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE















															
mm	mm	kg	CODE	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	0.38	601105	15	44	500	250	250							
150	45	0.47	601104	20	59	700	280	350							
200	50	0.82	601106	20	59	750	380	450							



															
mm	mm	kg	CODE	kg	CODE	mm	mm	daN	daN	daN					
80	30	0.13	603101	0.13	603201	12	39	220	120	120					
100	30	0.16	603102	0.16	603202	12	44	300	170	170					
125	35	0.27	603103	0.27	603203	15	44	350	230	230					
150	35	0.40	603105	0.40	603205	15	44	500	250	250					
150	45	0.52	603104	0.52	603204	20	59	700	280	350					
200	50	0.87	603106	0.87	603206	20	59	750	380	450					















															
mm	mm	kg	COD.	kg	COD.	mm	mm.	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				
250	50	1,50	602208*			20	58	1000	450	750					

* = wheel with double ball bearing

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	30	0.62	604201	0.38	605701	0.81	606601	107	100x85	80x60	9	37	120	120		
100	30	0.74	604202	0.43	605702	0.89	606602	128	100x85	80x60	9	35	120	170		
125	35	0.91	604203	0.66	605703	1.05	606603	156	100x85	80x60	9	37	120	220		
150	35	1.08	604204	0.8	605704	1.21	606604	182	100x85	80x60	9	34	120	220		
150	45	1.83	604211	1.46	605711	2.11	606611	194	140x110	105x80	11	56	156	300		
200	50	2.23	604206	2.01	605706	2.49	606606	240	140x110	105x80	11	56	156	300		
80	30	0.63	604501	0.41	605901	0.84	606621	107	100x85	80x60	9	37	120	120		
100	30	0.75	604502	0.43	605902	0.9	606622	128	100x85	80x60	9	35	120	170		
125	35	0.92	604503	0.67	605903	1.07	606623	156	100x85	80x60	9	37	120	220		
150	35	1.11	604504	0.82	605904	1.23	606624	182	100x85	80x60	9	34	120	220		
150	45	1.98	604511	1.51	605911	2.16	606631	194	140x110	105x80	11	56	156	300		
200	50	2.27	604506	2.06	605906	2.56	606626	240	140x110	105x80	11	56	156	300		
80	30	0.60	604701	0.48	604801	0.77	604901	107	100x85	80x60	9	37	120	130		
100	30	0.67	604702	0.53	604802	0.84	604902	128	100x85	80x60	9	35	120	200		
125	35	0.86	604703	0.66	604803	1.02	604903	156	100x85	80x60	9	37	120	220		

Options available to order:



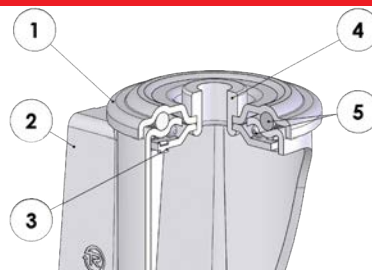
Bracket
with directional
lock
d. 80-125 mm
















Directional lock
for brackets
d. 150-200 mm

THERMOPLASTIC 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	4 km/h				
80	30	0.55	607701	0.73	606401	107	73	12	37	120	120					
100	30	0.67	607702	0.88	606402	128	73	12	35	120	170					
125	35	0.85	607703	1.00	606403	156	73	12	37	120	220					
150	35	1.01	607704	1.14	606404	182	73	12	34	120	220					
150	45	1.69	607711	1.98	606411	188	102	20	56	156	300					
200	50	2.13	607706	2.41	606406	236	102	20	56	156	300					

80	30	0.57	607801	0.75	606421	107	73	12	37	120	120					
100	30	0.68	607802	0.88	606422	128	73	12	35	120	170					
125	35	0.87	607803	1.02	606423	156	73	12	37	120	220					
150	35	1.03	607804	1.16	606424	182	73	12	34	120	220					
150	45	1.74	607811	2.03	606431	188	102	20	56	156	300					
200	50	2.18	607806	2.46	606426	236	102	20	56	156	300					

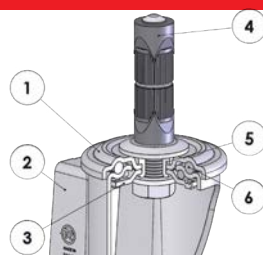
80	30	0.56	604301	0.72	605501	107	73	12	37	120	130					
100	30	0.61	604302	0.78	605502	128	73	12	35	120	200					
125	35	0.79	604303	0.96	605503	156	73	12	37	120	220					

Options available to order:


















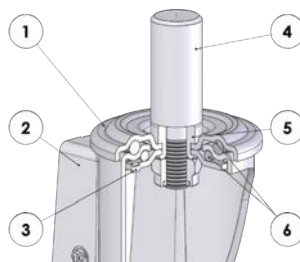
Fastening
with threaded stem

Standard-duty brackets NL - max carrying capacity 300 daN

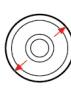
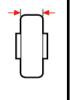





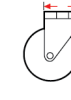
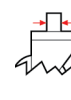
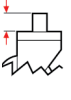







- 1) Plate: electrolytically galvanised steel plate
 - 2) Fork: electrolytically galvanised steel plate
 - 3) Ball race ring: electrolytically galvanised steel plate
 - 4) Stem: zamak expander
 - 5) King pin: bushing in electrolytically galvanised steel
 - 6) Swivel actions: double ball ring with grease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

														
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	mm	daN	
80	30	0.67	609201	0.85	609301	109	73	20	65	20-24	37	120	120	
100	30	0.79	609202	1.00	609302	130	73	20	65	20-24	35	120	130	
125	35	0.97	609203	1.12	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	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	mm	daN	
100	30	1.67	606102	1.88	606202	128	73	22	47	35	120	170		
125	35	1.85	606103	2.00	606203	156	73	22	47	37	120	220		
150	35	2.01	606104	2.14	606204	182	73	22	47	34	120	220		
150	45	2.69	606111	2.98	606211	188	102	26	56	56	156	300		
200	50	3.13	606106	3.41	606206	236	102	26	56	56	156	300		

Options available to order:



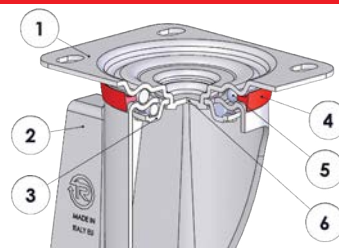
Bracket with Zamak stem fitted with wheels with roller bearings and single ball bearing d. 80-125 mm
















Connection with solid stem with dimensions that can be customised

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

INOX

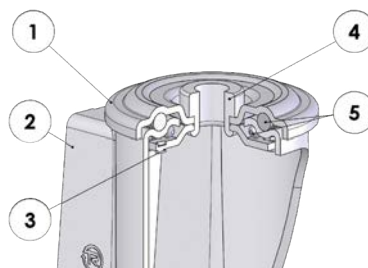


- 1) Plate: AISI 304 stainless steel
 - 2) Fork: AISI 304 stainless steel
 - 3) Ball race ring: AISI 304 stainless steel
 - 4) Dust seal: orange polyethylene
 - 5) Swivel actions: double ball ring with grease lubrication
 - 6) King pin: integrated with the plate and cold-riveted
- Available with total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














																									
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	mm	mm	daN									
80	30	0.61	604401	0.35	605101	0.78	606701	107	100x85	80x60	9	37	120	120											
100	30	0.65	604402	0.40	605102	0.83	606702	128	100x85	80x60	9	35	120	170											
125	35	0.81	604403	0.64	605103	0.95	606703	156	100x85	80x60	9	37	120	220											
150	35	0.97	604404	0.81	605104	1.10	606704	182	100x85	80x60	9	34	120	220											
150	45	1.77	604411	1.33	605111	2.06	606711	194	140x110	105x80	11	56	156	300											
200	50	2.20	604406	1.74	605106	2.48	606706	240	140x110	105x80	11	56	156	300											
80	30	0.64	604601	0.38	605601	0.81	606721	107	100x85	80x60	9	37	120	120											
100	30	0.65	604602	0.41	605602	0.84	606722	128	100x85	80x60	9	35	120	170											
125	35	0.83	604603	0.66	605603	0.97	606723	156	100x85	80x60	9	37	120	220											
150	35	0.99	604604	0.83	605604	1.12	606724	182	100x85	80x60	9	34	120	220											
150	45	1.82	604611	1.38	605611	2.03	606731	194	140x110	105x80	11	56	156	300											
200	50	2.25	604606	1.74	605606	2.53	606726	240	140x110	105x80	11	56	156	300											
80	30	0.60	605401	0.48	605001	0.77	606901	107	100x85	80x60	9	37	120	130											
100	30	0.67	605402	0.53	605002	0.84	606902	128	100x85	80x60	9	35	120	200											
125	35	0.78	605403	0.66	605003	0.95	606903	156	100x85	80x60	9	37	120	220											

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

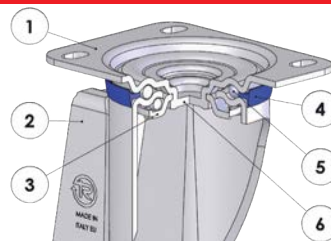
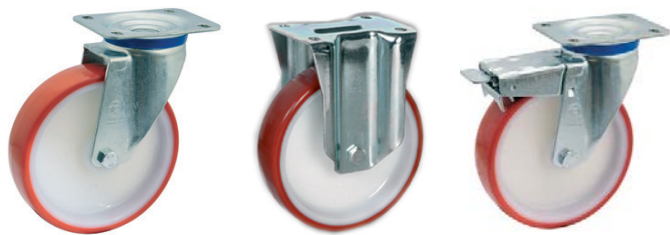
INOX



- 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	4 km/h				
80	30	0.55	607901	0.61	608801	107	73	12	37	120	120					
100	30	0.61	607902	0.82	608802	128	73	12	35	120	170					
125	35	0.79	607903	0.94	608803	156	73	12	37	120	220					
150	35	0.90	607904	1.03	608804	182	73	12	34	120	220					
150	45	1.57	607911	1.85	608811	188	102	20	56	156	300					
200	50	2.14	607906	2.40	608806	236	102	20	56	156	300					
80	30	0.58	608001	0.62	608821	107	73	12	37	120	120					
100	30	0.62	608002	0.82	608822	128	73	12	35	120	170					
125	35	0.81	608003	0.96	608823	156	73	12	37	120	220					
150	35	0.92	608004	1.25	608824	182	73	12	34	120	220					
150	45	1.62	608011	1.90	608831	188	102	20	56	156	300					
200	50	2.19	608006	2.45	608826	236	102	20	56	156	300					
80	30	0.56	606301	0.72	606501	107	73	12	37	120	130					
100	30	0.61	606302	0.78	606502	128	73	12	35	120	200					
125	35	0.73	606303	0.88	606503	156	73	12	37	120	220					

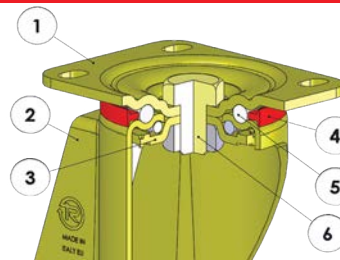
Medium-duty brackets M - max carrying capacity 450 daN



- 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	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	
150	45	2.17	604311	1.46	605711	2.64	606811	194	140x110	105x80	11	58	178	350	
200	50	2.62	604306	2.01	605706	3.04	606806	240	140x110	105x80	11	50	178	450	
150	45	2.32	604711	1.51	605911	2.68	606831	194	140x110	105x80	11	58	178	350	
200	50	2.66	604706	2.06	605906	3.11	606826	240	140x110	105x80	11	50	178	450	

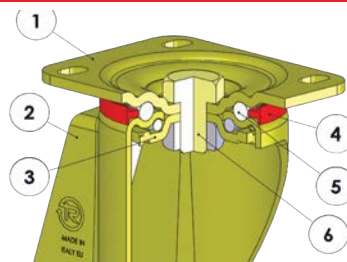
Medium-heavy duty brackets P - max carrying capacity 450 daN



















- 1) Plate: galvanised colonial steel plate
 - 2) Fork: galvanised colonial steel plate
 - 3) Ball race ring: galvanised colonial 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	daN
100	30	1.03	607102	0.54	608102	1.18	609002	138	100x85	80x60	9	46	123	170	
125	35	1.17	607103	0.75	608103	1.31	609003	161	100x85	80x60	9	48	123	230	
100	30	1.05	607302	0.55	608302	1.19	609102	138	100x85	80x60	9	46	123	170	
125	35	1.19	607303	0.77	608303	1.33	609103	161	100x85	80x60	9	48	123	230	
100	30	1.08	608202	0.67	608222	1.24	608242	138	100x85	80x60	9	46	123	200	160
125	35	1.22	608203	0.76	608223	1.36	608243	161	100x85	80x60	9	48	123	250	200

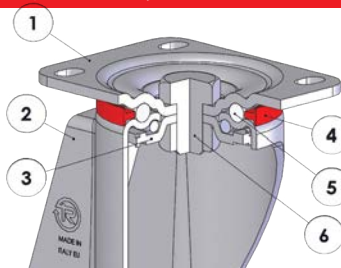
Medium-heavy duty brackets P - max carrying capacity 750 daN



- 1) Plate: galvanised colonial steel plate
 - 2) Fork: galvanised colonial steel plate
 - 3) Ball race ring: galvanised colonial 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	daN		
150	45	2.81	607604	1.39	608604	3.38	609004	200	140x110	105x80	11	70	126	350		
200	50	3.20	607606	1.83	608606	3.77	609006	250	140x110	105x80	11	70	126	450		
150	45	2.87	607504	1.44	608504	3.44	609104	200	140x110	105x80	11	70	126	350		
200	50	3.34	607506	1.88	608506	3.91	609106	250	140x110	105x80	11	70	126	450		
250	50	4.40	608208	3.30	608228	5.10	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	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN		
150	45	2.77	607004	1.53	607114	3.34	607214	200	140x110	105x80	11	70	126	350		
200	50	3.24	607006	1.80	607116	3.81	607216	250	140x110	105x80	11	70	126	450		
150	45	2.75	607314	1.53	607414	3.32	607514	200	140x110	105x80	11	70	126	350		
200	50	3.28	607316	1.85	607416	3.85	607516	250	140x110	105x80	11	70	126	450		

THERMOPLASTIC POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE



INOX



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. 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. The model with ball bearing hub can also be used for mechanical handling or manual-mechanical handling and speed up to 6 km/h.

Suitable for indoor and outdoor 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 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 36.

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	1.8	3	4.5	----	----
150x45 mm	< 1	1.5	2.5	3.9	----	----
200 mm	< 1	< 1	1.6	2.5	3.7	5

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. To order them add the "PF" suffix to the product code. To order loose thread guards see the Accessories section.

THERMOPLASTIC POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE














															
mm	mm	kg	CODE	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							

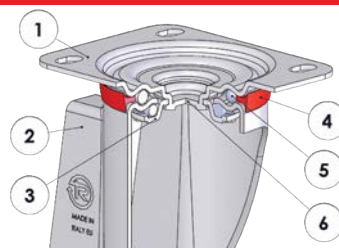


															
mm	mm	kg	CODE	kg	CODE	mm	mm	daN	daN	daN					
80	30	0.13	613101	0.13	613201	12	39	160	75	75					
100	30	0.18	613102	0.18	613202	12	44	200	120	120					
125	35	0.27	613103	0.27	613203	15	44	350	180	180					
150	35	0.40	613105	0.40	613205	15	44	400	220	230					
150	45	0.43	613104	0.43	613204	20	59	450	240	250					
200	50	0.92	613106	0.92	613206	20	59	500	300	300					




















															
mm	mm	kg	CODE	kg	CODE	mm	mm.	daN	daN	daN	daN				
80	30	0.17	612201	0.17	612401	8	40	160	85	85	70				
100	30	0.21	612202	0.21	612402	8	45	200	120	120	100				
125	35	0.30	612203	0.30	612403	8	45	350	180	180	140				

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	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	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		

Options available to order:



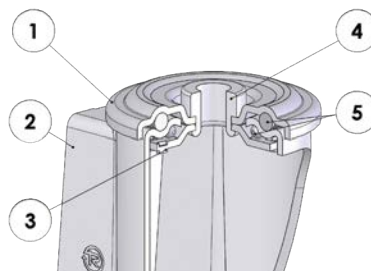
Bracket
with directional
lock
d. 80-125 mm
















Directional lock
for brackets
d. 150-200 mm

THERMOPLASTIC 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

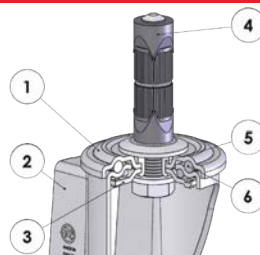
																
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN	4 km/h				
80	30	0.55	617701	0.73	616401	107	73	12	37	120	75					
100	30	0.67	617702	0.88	616402	128	73	12	35	120	120					
125	35	0.85	617703	1.00	616403	156	73	12	37	120	180					
150	35	1.01	617704	1.14	616404	182	73	12	34	120	220					
150	45	1.69	617711	1.98	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					

Options available to order:

















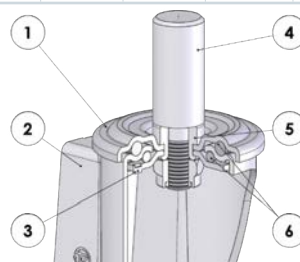
Fitting
with threaded
stem

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	CODE	kg	CODE	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	CODE	kg	CODE	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

















THERMOPLASTIC POLYURETHANE WHEELS WITH POLYAMIDE 6 CENTRE

Standard-duty brackets NLX in stainless steel - max carrying capacity 300 daN

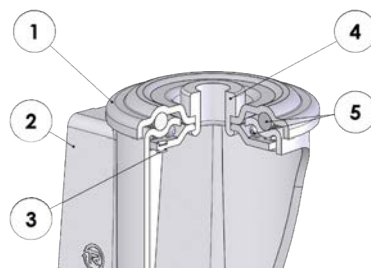
INOX



- 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	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	mm	daN	
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		

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



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 1004:2005 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			
STRONG ACIDS			
WATER			
ALCOHOL			

WEAK BASES			
STRONG BASES			
HYDROCARBONS			
SOLVENTS			

For information on the compatibility of the component wheel materials with specific aggressive chemical substances, see table at page 36.


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)

Maximum carrying capacity 400 daN - maximum capacity according to UNI EN 1004:2005 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)
















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

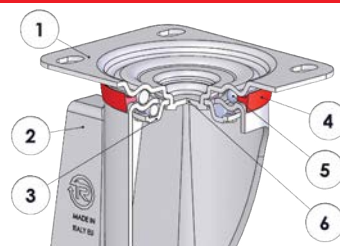


															
mm	mm	kg	CODE	kg	CODE	mm	mm	daN	daN	daN					
80	30	0.10	683111	0.10	683211	12	39	200	150	180					
100	30	0.15	683112	0.15	683212	12	44	350	175	300					
125	38	0.25	683103	0.25	683203	15	44	450	200	400					
150	45	0.51	683104	0.51	683204	20	59	600	250	500					
175	45	0.60	683105	0.60	683205	20	59	700	275	630					
200	50	0.82	683106	0.82	683206	20	59	800	315	730					
200	50	0.81	683116	0.81	683216	25	59	800	315	730					
250	60	1.38	683108	1.38	683208	25	88	1300	450	1200					
















															
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	800	315	730			
200	50	0.81	683316	0.63	682106	25	60	47	14	800	315	730			

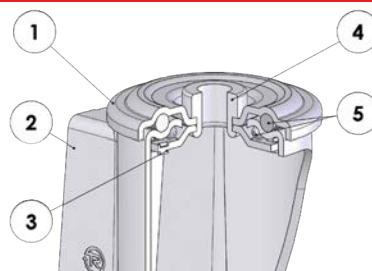
Standard-duty brackets NL - max carrying capacity 350 daN















- 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	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	mm	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									

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

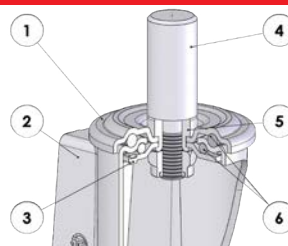
															
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN				
65	30	0.51	687700			100	73	12	37		120				
80	30	0.52	687701	0.70	686701	107	73	12	37	120	180				
100	30	0.55	687702	0.80	686702	128	73	12	35	120	200				
125	38	0.85	687703	0.99	686703	156	73	12	37	120	220				
150	45	1.57	687704	1.86	686704	188	102	20	56	156	300				
175	45	1.73	687705	2.02	686705	212	102	20	56	156	300				
200	50	1.95	687706	2.24	686706	236	102	20	56	156	300				
80	30	0.54	687901	0.73	686721	107	73	12	37	120	180				
100	30	0.62	687902	0.83	686722	128	73	12	35	120	200				
125	38	0.87	687903	1.02	686723	156	73	12	37	120	220				
150	45	1.75	687904	2.03	686724	188	102	20	56	156	300				
175	45	1.85	687905	2.14	686725	212	102	20	56	156	300				
200	50	2.13	687906	2.42	686726	236	102	20	56	156	300				
200	50	2.19	688006	2.48	686606	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) 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	1.55	686102	1.80	687102	128	73	22	47	35	120	200			
125	38	1.85	686103	1.99	687103	156	73	22	47	37	120	220			
150	45	2.57	686104	2.86	687104	188	102	26	56	56	156	300			
200	50	2.95	686106	3.24	687106	236	102	26	56	56	156	300			

Options available to order:



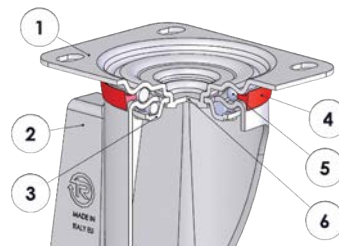
Fitting with expansion stem in polyamide d. 80-125 mm

















Fitting with solid stem with dimensions that can be customised

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

INOX



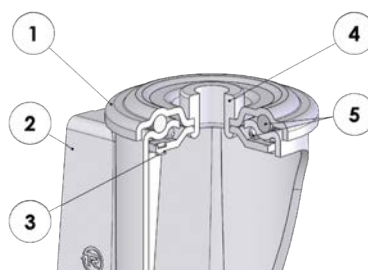
- 1) Plate: AISI 304 stainless steel
 - 2) Fork: AISI 304 stainless steel
 - 3) Ball race ring: AISI 304 stainless steel
 - 4) Dust seal: orange polyethylene
 - 5) Swivel actions: double ball ring with grease lubrication
 - 6) King pin: integrated with the plate and cold-riveted
- Available with total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

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














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

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

INOX

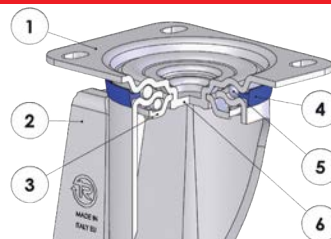
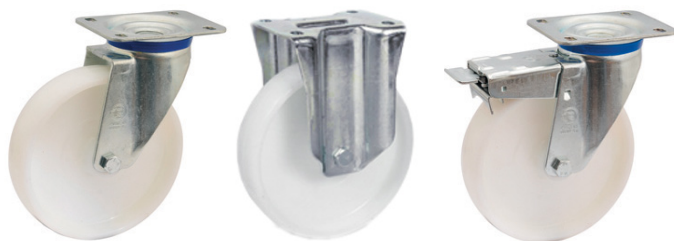


- 1) Plate: AISI 304 stainless steel
 - 2) Fork: AISI 304 stainless steel
 - 3) Ball race ring: AISI 304 stainless steel
 - 4) King pin: bushing in stainless steel
 - 5) Swivel actions: double ball ring with grease lubrication
- Available with total front foot brake













																
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN					
80	30	0.50	685801	0.68	686001	107	73	12	37	120	180					
100	30	0.61	685802	0.79	686002	128	73	12	35	120	200					
125	38	0.79	685803	0.93	686003	156	73	12	37	120	220					
150	45	1.45	685804	1.75	686004	188	102	20	56	156	300					
175	45	1.61	685805	1.89	686005	212	102	20	56	156	300					
200	50	1.93	685806	2.22	686006	236	102	20	56	156	300					

80	30	0.52	685901	0.73	686021	107	73	12	37	120	180					
100	30	0.63	685902	0.81	686022	128	73	12	35	120	200					
125	38	0.81	685903	0.96	686023	156	73	12	37	120	220					
150	45	1.63	685904	1.93	686024	188	102	20	56	156	300					
175	45	1.73	685905	2.01	686025	212	102	20	56	156	300					
200	50	2.11	685906	2.40	686026	236	102	20	56	156	300					

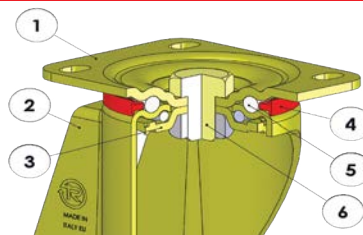
Medium-duty brackets M - max carrying capacity 500 daN


















- 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	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	

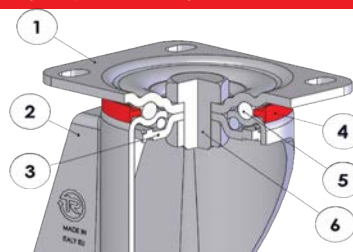
Medium-heavy duty brackets P - max carrying capacity 730 daN



- 1) Plate: galvanised colonial steel plate
 - 2) Fork: galvanised colonial steel plate
 - 3) Ball race ring: galvanised colonial 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	daN	
150	45	2.80	687504	1.67	688504	2.98	686904	200	140x110	105x80	11	70	156	500	
175	45	2.86	687505	1.45	688505	3.43	686905	225	140x110	105x80	11	70	156	630	
200	50	3.11	687506	1.65	688506	3.39	686906	250	140x110	105x80	11	70	156	730	
150	45	2.97	687604	1.57	688604	3.54	686924	200	140x110	105x80	11	70	156	500	
175	45	2.98	687605	1.69	688605	3.55	686925	225	140x110	105x80	11	70	156	630	
200	50	3.28	687606	1.83	688606	3.85	686926	250	140x110	105x80	11	70	156	730	
200	50	3.35	684966	1.89	685366	3.63	686946	250	140x110	105x80	11	70	156	730	

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

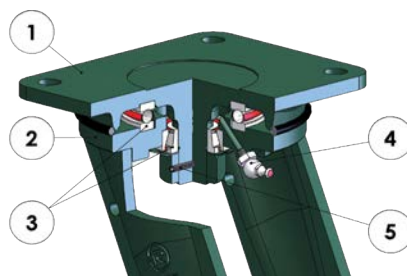


INOX

- 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























															4 km/h	
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN		
150	45	2.66	687004	1.23	687114	3.23	687214	200	140x110	105x80	11	70	156	500		
175	45	2.86	687005	1.42	687115	3.43	687215	225	140x110	105x80	11	70	156	630		
200	50	3.06	687006	1.62	687116	3.63	687216	250	140x110	105x80	11	70	156	730		
150	45	2.86	687314	1.41	687414	3.40	687514	200	140x110	105x80	11	70	156	500		
175	45	2.94	687315	1.54	687415	3.51	687515	225	140x110	105x80	11	70	156	630		
200	50	3.24	687316	1.80	687416	3.81	687516	250	140x110	105x80	11	70	156	730		

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	1200



Our work, our passion

SIGMA ELASTIC RUBBER WHEELS WITH POLYAMIDE 6 CENTRE

100-200
mm

70 Shore A

150-450
daN
4 km/h

100-350
daN

-20 / +70
°C

INOX



Description

Tyre: blue non-marking Sigma Elastic rubber, hardness 70 Shore A, good resistance to tear and wear.

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 bearings.

Hub with ball bearings with interference assembly in the seats obtained by centre moulding. The wheel is also available without bearings.

Uses

Wheels with excellent elasticity features, they are particularly suitable for use on uneven surfaces, in presence of obstacles or for mixed indoor/outdoor uses with medium-duty loads.

The good elasticity and rolling resistance guarantee minimum effort, particularly on uneven surfaces.

Examples of recommended applications: trolleys for industrial indoor and outdoor handling, manual pallet trucks, flight cases for transporting musical instruments.

Environments of use

Designed for industrial environments, even in presence of medium-harsh chemical agents. Not suitable in presence of organic, aromatic solvents, chlorinated substances and hydrocarbons.

WEAK ACIDS	
STRONG ACIDS	
WATER	
ALCOHOL	

WEAK BASES	
STRONG BASES	
HYDROCARBONS	
SOLVENTS	



For information on the compatibility of the component wheel materials with specific aggressive chemical substances, see table at page 36.

Floors

They are suitable for use on all types of floors, even in presence of obstacles. They do not mark or damage fragile floors.



Force required to push or tow a wheel

 	50 kg	100 kg	150 kg	200 kg	300 kg	400 kg
100 mm	2	5	8	----	----	----
125 mm	1.8	3	5	7	----	----
160 mm	1	2	3	5	8.5	----
180 mm	< 1	1	2	3	5.5	----
200 mm	< 1	< 1	1	1.7	3.5	6.5

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 100-200 mm
Top plate, bolt hole and solid stem fittings. Available with front brake.



Medium-duty brackets M

Maximum carrying capacity 450 daN - available diameters 160-200 mm
Top plate fitting. Available with adjustable front brake.



Medium-heavy duty brackets P

Maximum carrying capacity 450 daN - available diameters 100-200 mm
Top plate fitting. Available with front brake and adjustable rear brake.



Stainless steel medium-heavy duty brackets PX I

Maximum carrying capacity 450 daN - available diameters 160-200 mm
Top plate fitting. Available with adjustable rear brake.

Options available to order:










The series 73 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.














Wheels with standard-duty bracket in stainless steel NLX

SIGMA ELASTIC RUBBER WHEELS WITH POLYAMIDE 6 CENTRE
















															
mm	mm	kg	CODE	mm	mm.	daN	daN	daN							
100	40	0.31	731102	12	44	200	100	150							
125	40	0.38	731103	15	44	270	150	230							
160	50	0.83	731104	20	59	350	200	300							
180	50	0.90	731105	20	59	400	280	350							
200	50	1.04	731106	20	59	510	350	450							

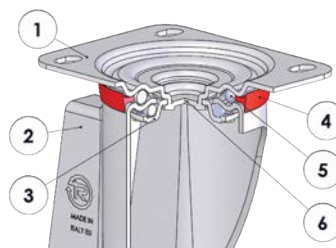
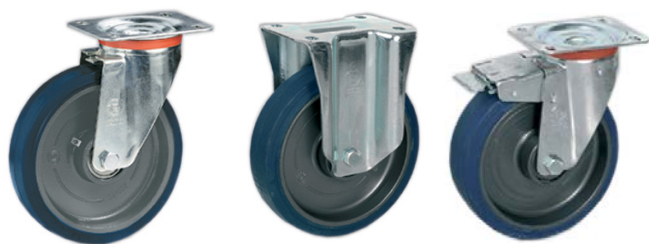


															
mm	mm	kg	CODE	kg	CODE	mm	mm	daN	daN	daN					
100	40	0.36	733102			12	44	200	100	150					
125	40	0.58	733103			20	44	270	150	230					
160	50	1.04	733104	1.04	733204	20	59	350	200	300					
180	50	1.10	733105	1.10	733205	20	59	400	280	350					
200	50	1.25	733106	1.25	733206	20	59	510	350	450					




















															
mm	mm	kg	CODE	kg	CODE	mm	mm.	mm	mm	daN	daN	daN			
100	40	0.36	732102	0.29	734102	12	40	32	11.5	200	120	150			
125	40	0.58	732103	0.38	734103	20	44	47	17	270	200	230			
160	50	0.99	732104	0.79	734104	20	58	47	17	350	250	300			
160	50	0.94	732114	0.79	734104	25	58	47	17	350	250	300			
180	50	1.05	732105	0.85	734105	20	58	47	17	400	320	350			
180	50	1.00	732115	0.85	734105	25	58	47	17	400	320	350			
200	50	1.12	732106	0.92	734106	20	58	47	17	510	350	450			
200	50	1.07	732116	0.92	734106	25	58	47	17	510	350	450			

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	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	mm	daN	
100	40	0.85	735002	0.65	735102	0.97	735202	128	100x85	80x60	9	35	120	150		
125	40	1.08	735003	0.81	735103	1.19	735203	156	100x85	80x60	9	37	120	220		
160	50	2.11	735004	1.74	735104	2.36	735204	198	140x110	105x80	11	56	156	300		
180	50	2.22	735005	1.81	735105	2.46	735205	219	140x110	105x80	11	56	156	300		
200	50	2.44	735006	1.98	735106	2.69	735206	240	140x110	105x80	11	56	156	300		
100	40	0.91	735302	0.70	735402	1.02	735502	128	100x85	80x60	9	35	120	150		
125	40	1.23	735303	0.96	735403	1.34	735503	156	100x85	80x60	9	37	120	220		
160	50	2.32	735304	1.89	735404	2.51	735504	198	140x110	105x80	11	56	156	300		
180	50	2.42	735305	1.96	735405	2.61	735505	219	140x110	105x80	11	56	156	300		
200	50	2.65	735306	2.06	735406	2.77	735506	240	140x110	105x80	11	56	156	300		
100	40	0.91	735602	0.70	735702	1.02	735802	128	100x85	80x60	9	35	120	150		
125	40	1.23	735603	0.96	735703	1.34	735803	156	100x85	80x60	9	37	120	220		
160	50	2.32	735604	1.94	735704	2.56	735804	198	140x110	105x80	11	56	156	300		
180	50	2.42	735605	2.01	735705	2.66	735805	219	140x110	105x80	11	56	156	300		
200	50	2.65	735606	2.19	735706	2.89	735806	240	140x110	105x80	11	56	156	300		

Options available to order:



Bracket
with directional
lock
d. 80-125 mm



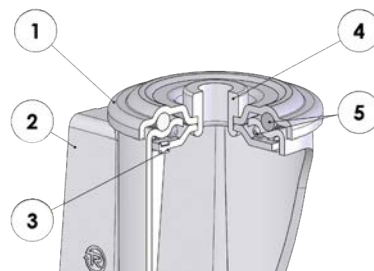
Directional lock
for brackets
d. 150-200 mm















Bracket
with active
centralised
brake
d. 160-200 mm

SIGMA ELASTIC RUBBER 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

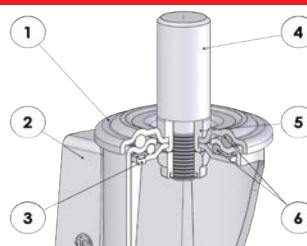
															
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN				
100	40	0.75	737702	0.93	738202	128	73	12	35	120	150				
125	40	0.90	737703	1.11	738203	156	73	12	37	120	220				
160	50	1.43	737704	1.56	738204	193	102	20	56	156	300				
180	50	2.21	737705	2.49	738205	214	102	20	56	156	300				
200	50	2.35	737706	2.63	738206	236	102	20	56	156	300				
100	40	0.81	737802	0.98	738302	128	73	12	35	120	150				
125	40	1.05	737803	1.26	738303	156	73	12	37	120	220				
160	50	1.64	737804	1.77	738304	193	102	20	56	156	300				
180	50	2.41	737805	2.69	738305	214	102	20	56	156	300				
200	50	2.56	737806	2.84	738306	236	102	20	56	156	300				
100	40	0.81	735902	0.98	738402	128	73	12	35	120	150				
125	40	1.05	735903	1.26	738403	156	73	12	37	120	220				
160	50	1.64	735904	1.77	738404	193	102	20	56	156	300				
180	50	2.41	735905	2.69	738405	214	102	20	56	156	300				
200	50	2.56	735906	2.84	738406	236	102	20	56	156	300				

Options available to order:


















Bracket with Zamak
stem fitted
d. 80-125 mm

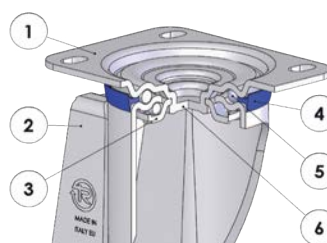
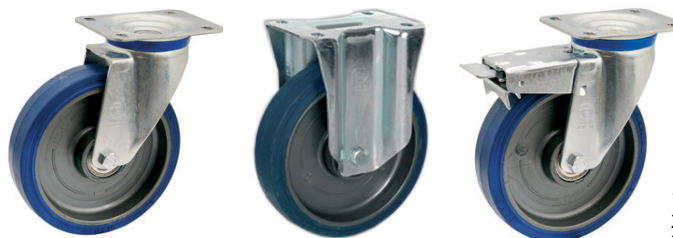
Standard-duty brackets NL - max carrying capacity 300 daN



















- 1) Plate: electrolytically galvanised steel plate
 - 2) Fork: electrolytically galvanised steel plate
 - 3) Ball race ring: electrolytically galvanised steel plate
 - 4) 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	mm	daN			
100	40	1.75	738702	1.93	738802	128	73	22	47	35	120	150				
125	40	1.90	738703	2.11	738803	156	73	22	47	37	120	220				
160	50	2.43	738704	2.56	738804	193	102	26	56	56	156	300				
180	50	3.21	738705	3.49	738805	214	102	26	56	56	156	300				
200	50	3.35	738706	3.63	738806	236	102	26	56	56	156	300				

Medium-duty brackets M - max carrying capacity 450 daN

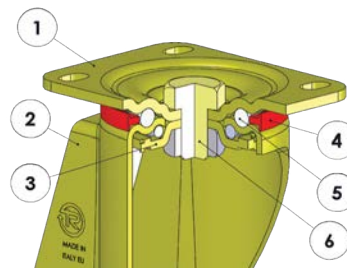
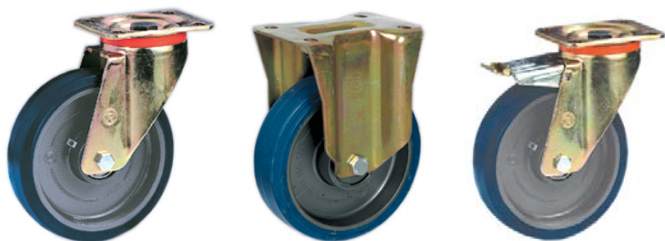


- 1) Plate: electrolytically galvanised steel plate
 - 2) Fork: electrolytically galvanised steel plate
 - 3) Ball race ring: electrolytically galvanised steel plate
 - 4) Dust seal: blue polyethylene
 - 5) Swivel actions: double ball ring with grease lubrication
 - 6) King pin: integrated with the plate 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			
160	50	2.46	736904	1.74	735104	2.89	737604	198	140x110	105x80	11	58	178	300			
200	50	2.83	736906	1.98	735106	3.24	737606	240	140x110	105x80	11	50	178	450			
160	50	2.67	738904	1.94	735404	3.09	739004	198	140x110	105x80	11	58	178	300			
200	50	3.04	738906	2.19	735406	3.44	739006	240	140x110	105x80	11	50	178	450			
160	50	2.62	739104	1.89	735704	3.04	739204	198	140x110	105x80	11	58	178	300			
200	50	2.91	739106	2.06	735706	3.32	739206	240	140x110	105x80	11	50	178	450			

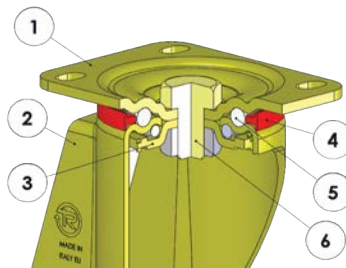
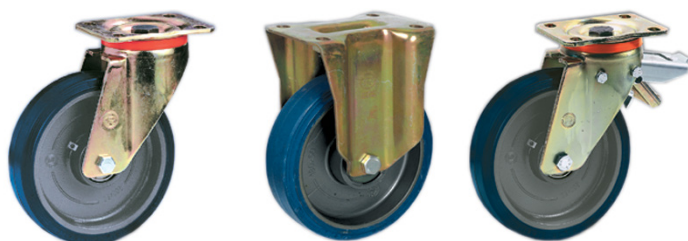
SIGMA ELASTIC RUBBER WHEELS WITH POLYAMIDE 6 CENTRE

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



- 1) Plate: galvanised colonial steel plate
 - 2) Fork: galvanised colonial steel plate
 - 3) Ball race ring: galvanised colonial 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

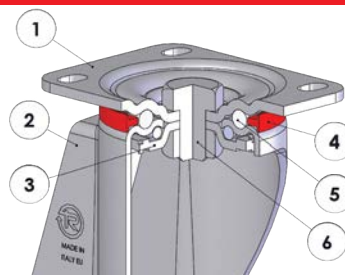
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
100	40	1.18	736002	0.69	736102	1.33	736202	138	100x85	80x60	9	46	123	150
125	40	1.34	736003	0.82	736103	1.48	736203	161	100x85	80x60	9	44	123	230
100	40	1.23	736302	0.73	736402	1.37	736502	138	100x85	80x60	9	46	123	150
125	40	1.49	736303	0.97	736403	1.63	736503	161	100x85	80x60	9	44	123	230
100	40	1.23	736602	0.73	736702	1.37	736802	138	100x85	80x60	9	46	123	150
125	40	1.49	736603	0.97	736703	1.63	736803	161	100x85	80x60	9	44	123	230



- 1) Plate: galvanised colonial steel plate
 - 2) Fork: galvanised colonial steel plate
 - 3) Ball race ring: galvanised colonial 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	daN
160	50	3.18	736004	1.79	736104	3.75	736204	205	140x110	105x80	11	70	126	300
180	50	3.29	736005	1.89	736105	3.86	736205	225	140x110	105x80	11	70	126	350
200	50	3.54	736006	2.05	736106	4.11	736206	250	140x110	105x80	11	70	126	450
160	50	3.39	736304	1.99	736404	3.91	736504	205	140x110	105x80	11	70	126	300
180	50	3.49	736305	2.09	736405	4.06	736505	225	140x110	105x80	11	70	126	350
200	50	3.74	736306	2.26	736406	4.31	736506	250	140x110	105x80	11	70	126	450
160	50	3.34	736604	1.99	736704	3.91	736804	205	140x110	105x80	11	70	126	300
180	50	3.44	736605	2.04	736705	4.01	736805	225	140x110	105x80	11	70	126	350
200	50	3.62	736606	2.13	736706	4.19	736806	250	140x110	105x80	11	70	126	450

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	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	daN	
160	50	3.19	737004	1.74	737104	3.76	737204	205	140x110	105x80	11	70	126	300					
180	50	3.36	737005	1.81	737105	3.93	737205	225	140x110	105x80	11	70	126	350					
200	50	3.58	737006	1.98	737106	4.15	737206	250	140x110	105x80	11	70	126	450					
160	50	3.40	737304	1.94	737404	3.97	737504	205	140x110	105x80	11	70	126	300					
180	50	3.56	737305	2.01	737405	4.13	737505	225	140x110	105x80	11	70	126	350					
200	50	3.78	737306	2.19	737406	4.35	737506	250	140x110	105x80	11	70	126	450					


ELASTIC RUBBER WHEELS WITH POLYAMIDE 6 CENTRE




100-200
mm




70 Shore A



150-350
kg
4 km/h



100-235
daN



-20 / +70
°C



Description

Tyre: blue non-marking elastic rubber, hardness 70 Shore A

Centre: in polyamide 6.

Hub with plain bore hole which directly houses the axle.









Hub with ball bearings with interference assembly in the seats obtained by centre moulding.









Uses

Wheels with good elasticity, they are particularly suitable for use on uneven surfaces, in presence of obstacles or for mixed indoor/outdoor uses with medium-duty loads. Examples of recommended applications: trolleys for industrial indoor and outdoor handling, manual transpallet, flight cases for transporting musical instruments.

Environments of use

Designed for industrial environments, even in presence of medium-harsh chemical agents. Not suitable in presence of organic, aromatic solvents, chlorinated substances and hydrocarbons.

WEAK ACIDS		
STRONG ACIDS		
WATER		
ALCOHOL		

WEAK BASES		
STRONG BASES		
HYDROCARBONS		
SOLVENTS		



For information on the compatibility of the component wheel materials with specific aggressive chemical substances, see table at page 36.

Floors

They are suitable for use on all types of floors, even in the presence of obstacles. They do not mark or damage fragile floors.



Force required to push or tow a wheel

 	50 kg	100 kg	150 kg	200 kg	300 kg	400 kg
100 mm	2	5	8	----	----	----
125 mm	1.8	3	5	7	----	----
160 mm	1	2	3	6	8.5	----
200 mm	< 1	1.7	2.5	3.8	6.5	----

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 100-200 mm
Top plate fitting. Available with front brake.











Medium-heavy duty brackets P

Maximum carrying capacity 350 daN - available diameters 100-200 mm
Top plate fitting. Available with front brake and adjustable rear brake.











SERIES 73^{AE}

ELASTIC RUBBER WHEELS WITH POLYAMIDE 6 CENTRE

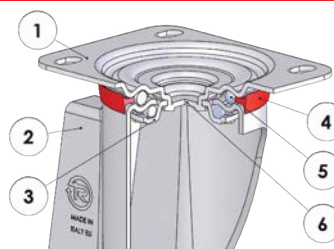


															
mm	mm	kg	CODE	mm	mm	daN	daN	daN							
100	36	0.22	731102AE	12	44	200	100	150							
125	36	0.33	731103AE	12	44	270	150	200							
160	48	0.76	731104AE	20	59	350	175	300							
200	48	1.06	731106AE	20	59	510	235	350							















															
mm	mm	kg	CODE	mm	mm	mm	mm	daN	daN	daN					
100	36	0.32	732102AE	12	40	32	10	200	100	150					
125	36	0.41	732103AE	12	40	32	10	270	150	200					
160	48	0.98	732104AE	20	55	47	14	350	175	300					
200	48	1.28	732106AE	20	55	47	14	510	235	350					

Standard-duty brackets NL - max carrying capacity 300 daN



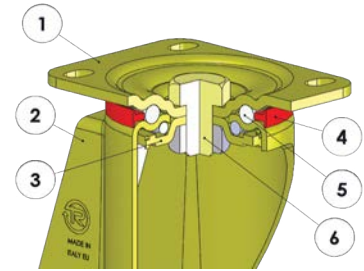
- 1) Plate: electrolytically galvanised steel plate
 - 2) Fork: electrolytically galvanised steel plate
 - 3) Ball race ring: electrolytically galvanised steel plate
 - 4) Dust seal: orange polyethylene
 - 5) Swivel actions: double ball ring with grease lubrication
 - 6) King pin: integrated with the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

														
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
100	36	0.76	735002AE	0.56	735102AE	0.88	735202AE	128	100x85	80x60	9	35	120	150
125	36	1.03	735003AE	0.76	735103AE	1.14	735203AE	156	100x85	80x60	9	37	120	200
160	48	2.04	735004AE	1.67	735104AE	2.29	735204AE	198	140x110	105x80	11	56	156	300
200	48	2.46	735006AE	2.00	735106AE	2.71	735206AE	240	140x110	105x80	11	56	156	300

















100	36	0.87	735602AE	0.66	735702AE	0.93	735802AE	128	100x85	80x60	9	35	120	150
125	36	1.06	735603AE	0.79	735703AE	1.12	735803AE	156	100x85	80x60	9	37	120	200
160	48	2.26	735604AE	1.88	735704AE	2.50	735804AE	198	140x110	105x80	11	56	156	300
200	48	2.68	735606AE	2.22	735706AE	2.93	735806AE	240	140x110	105x80	11	56	156	300

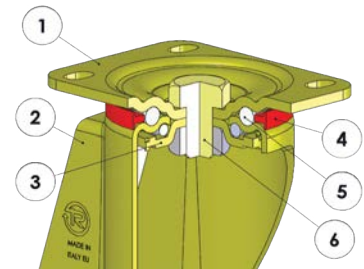
SERIES 73^{AE} ELASTIC RUBBER WHEELS WITH POLYAMIDE 6 CENTRE

Medium-heavy duty brackets P - max carrying capacity 350 daN



















- 1) Plate: galvanised colonial steel plate
 - 2) Fork: galvanised colonial steel plate
 - 3) Ball race ring: galvanised colonial 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	36	1.09	736002AE	0.60	736102AE	1.24	736202AE	138	100x85	80x60	9	46	123	150	
125	36	1.29	736003AE	0.77	736103AE	1.28	736203AE	161	100x85	80x60	9	44	123	200	
100	36	1.19	736602AE	0.69	736702AE	1.33	736802AE	138	100x85	80x60	9	46	123	150	
125	36	1.32	736603AE	0.80	736703AE	1.46	736803AE	161	100x85	80x60	9	44	123	200	



- 1) Plate: galvanised colonial steel plate
 - 2) Fork: galvanised colonial steel plate
 - 3) Ball race ring: galvanised colonial 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	daN	
160	48	3.11	736004AE	1.72	736104AE	3.68	736204AE	205	140x110	105x80	11	70	126	300	
200	48	3.56	736006AE	2.07	736106AE	4.13	736206AE	250	140x110	105x80	11	70	126	350	
160	48	3.33	736604AE	1.98	736704AE	3.90	736804AE	205	140x110	105x80	11	70	126	300	
200	48	3.78	736606AE	2.29	736706AE	4.35	736806AE	250	140x110	105x80	11	70	126	350	