SERIES 73

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		WEAK BASES	
STRONG ACIDS		STRONG BASES	
WATER		HYDROCARBONS	
ALCOHOL		SOLVENTS	

For information on the compatibility of the component wheel materials with specific aggressive chemical substances, see table at page 40.

Floors

They 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.



Stainless steel standard-duty brackets NLX
Maximum carrying capacity 300 daN - available diameters 100-200 mm
Top plate fitting. 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
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.

SIGMA ELASTIC RUBBER WHEELS WITH POLYAMIDE 6 CENTRE



mm	mm	kg	CODE	mm	mm.	Static daN	daN	4 km/h 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**



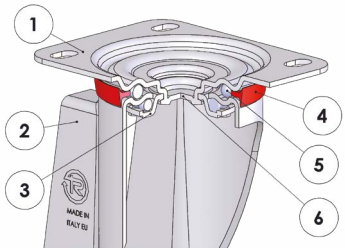
mm	mm	kg	CODE	kg	CODE	mm	mm	Static daN	daN	4 km/h daN
100	40	0.36	733102	0,36	733202	12	44	**200**	**100**	**150**
125	40	0.58	733103	0,58	733203	20	44	**270**	**150**	**230**
160	50	1.04	733104	1.04	733204	20	59	**350**	**200**	**300**
180	50	1.10	733105	1.10	733205	20	59	**400**	**280**	**350**
200	50	1.25	733106	1.25	733206	20	59	**510**	**350**	**450**



mm	mm	kg	CODE	kg	CODE	mm	mm.	mm	mm	Static daN	daN	4 km/h 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-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
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



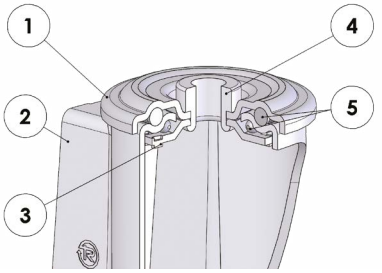
Bracket with active centralised brake d. 160-200 mm

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

											4 km/h
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**

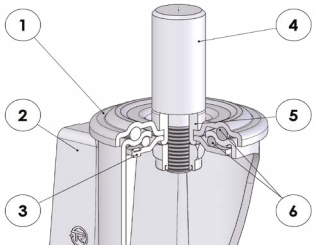
Options available to order:



Bracket with Zamak stem fitted d. 80-125 mm

Standard-duty brackets NL - max carrying capacity 300 daN





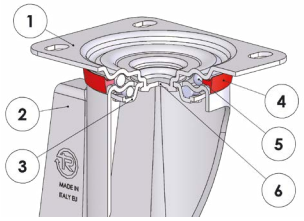
1) Plate: electrolytically galvanised steel plate
2) Fork: electrolytically galvanised steel plate
3) Ball race ring: electrolytically galvanised steel plate
4) Solid stem: galvanised steel
5) King pin: bushing in galvanised steel
6) Swivel actions: double ball ring with grease lubrication
Available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

												4 km/h
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
100	40	0,81	738702	0,96	738802	128	73	22	47	35	120	**150**
125	40	1,02	738703	1,19	738803	156	73	22	47	37	120	**220**
160	50	1,44	738704	1,60	738804	193	102	26	56	56	156	**300**
180	50	2,44	738705	2,74	738805	214	102	26	56	56	156	**300**
200	50	2,62	738706	2,93	738806	236	102	26	56	56	156	**300**

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

INOX





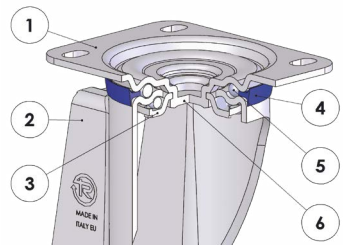
1) Plate: AISI 304 stainless steel
2) Fork: AISI 304 stainless steel
3) Ball race ring: AISI 304 stainless steel
4) Dust seal: orange polyamide
5) Swivel actions: double ball ring with grease lubrication
6) King pin: screw and nut in stainless steel
Available with total front foot brake

															4 km/h	
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN		
100	40	0.85	739402	0.65	739502	0.97	739602	128	100x85	80x60	9	35	120	**150**		
125	40	1.08	739403	0.81	739503	1.19	739603	156	100x85	80x60	9	37	120	**220**		
160	50	2.11	739404	1.74	739504	2.36	739604	198	140x110	105x80	11	56	156	**300**		
200	50	2.44	739406	1.98	739506	2.69	739606	240	140x110	105x80	11	56	156	**300**		
100	40	0.91	739702	0.70	739802	1.02	739902	128	100x85	80x60	9	35	120	**150**		
125	40	1.23	739703	0.96	739803	1.34	739903	156	100x85	80x60	9	37	120	**220**		
160	50	2.32	739704	1.89	739804	2.51	739904	198	140x110	105x80	11	56	156	**300**		
200	50	2.65	739706	2.06	739806	2.77	739906	240	140x110	105x80	11	56	156	**300**		

SIGMA ELASTIC RUBBER WHEELS WITH POLYAMIDE 6 CENTRE

Medium-duty brackets M - max carrying capacity 450 daN





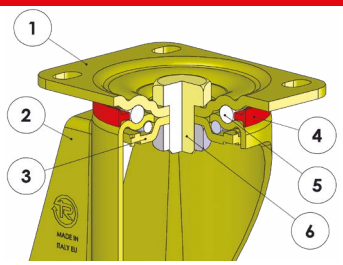
1) Plate: electrolytically galvanised steel plate
2) Fork: electrolytically galvanised steel plate
3) Ball race ring: electrolytically galvanised steel plate
4) Dust seal: blue polyethylene
5) Swivel actions: double ball ring with grease lubrication
6) King pin: integrated with the plate and cold-riveted

Available with adjustable total front foot brake

		kg		kg		kg								4 km/h
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**

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





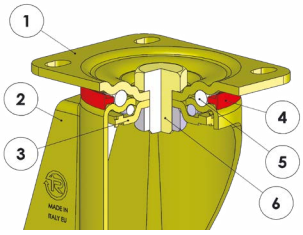
1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised steel plate
4) Dust seal: orange polyamide
5) Swivel actions: double ball ring with grease lubrication
6) King pin: steel bolt in grade 8.8 steel and steel nut

Available with total front foot brake

		kg		kg		kg								4 km/h
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**

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





1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised steel plate
4) Dust seal: orange polyamide
5) Swivel actions: double ball ring with grease lubrication
6) King pin: steel bolt in grade 8.8 steel and steel nut

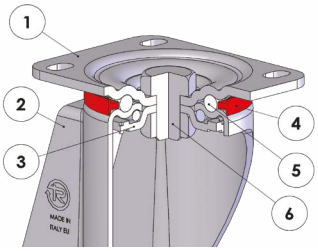
Available with adjustable total rear foot brake

		kg	CODE	kg	CODE	kg	CODE								4 km/h
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

		kg	CODE	kg	CODE	kg	CODE								4 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	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**	