SERIES 72GH

SIGMA ELASTIC RUBBER WHEELS WITH CAST IRON CENTRE

125-300 mm

70 Shore A

300-950 daN
4 km/h

240-760 daN
6 km/h

250-500 daN

-20 / +70 °C



Description

Tyre: Sigma Elastic rubber, hardness 70 Shore A, excellent elasticity and good resistance to tear and wear.

Centre: cast iron.

Hub with shielded ball bearings with interference assembly in the seats obtained by machining the centre; also available without bearings.

Uses

The excellent elasticity guarantees an easy overcoming of obstacles, vibration damping and noise reduction during use.
Combined with appropriate brackets, they are also suitable for mechanical handling up to 6 km/h.
Also suitable for mixed indoor-outdoor uses.
Examples of recommended applications: trolleys for indoor and outdoor industrial handling, manual pallet trucks, heavy waste collection bins.

Environments of use

Industrial environments, even in presence of humidity. 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

Suitable for all types of industrial floor, even outdoors.
Allows easily overcoming the obstacles and does not damage floors.



Force required to push or tow a wheel

	100 kg	200 kg	300 kg	400 kg	500 kg	700 kg	900 kg
125 mm	1,4	3,7	7	----	----		
150 mm	1	3	5,8	9,5	----		
200x50 mm	< 1	1,8	4	7,1	11		
200x75 mm	< 1	1,8	3,3	5	7	12	
250 mm	< 1	1,5	2,7	4,1	6	10,3	
300 mm	< 1	1,4	2,4	3,6	5	8,5	12,8

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 floors. For manual handling of a 4-wheel trolley choose diameters that have values < 5 daN, for frequent handling choose values < 3 daN.

Available with brackets:



Standard-duty brackets NL
Maximum carrying capacity 300 daN - available diameters 125-200 mm
Top plate fitting. Available with the front brake.



Medium-duty brackets M
Maximum carrying capacity 500 daN - available diameters 150-200 mm
Top plate fitting. Available with adjustable front brake.



Medium-heavy duty brackets P
Maximum carrying capacity 500 daN - available diameters 125-200 mm
Top plate fitting. Available with adjustable rear brake.



Extra-heavy duty brackets EP
Maximum carrying capacity 800 daN - available diameters 150-250 mm
Top plate fitting. Available with adjustable rear brake.



Electrowelded brackets EE MHD - EE HD
Maximum carrying capacity 950 daN - available diameters 125-300 mm
Top plate fitting. Available with adjustable rear brake.



Twin electrowelded brackets EEG HD
Maximum carrying capacity 1000 daN - available diameters 150-200 mm
Top plate fitting.



Electrowelded sprung-loaded brackets EES MHD
Maximum carrying capacity 500 daN - available diameters 150-200 mm
Top plate fitting. Available with adjustable front brake

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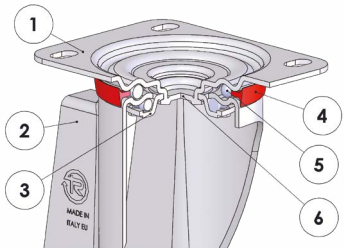
										Static		4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	daN	daN	daN	daN
125	50	1.88	722103	1.64	724103	20	55	47	14	**450**	**250**	**300**	**240**
150	50	2.30	722104	2.06	724104	20	55	47	14	**600**	**275**	**400**	**320**
150	50	2.28	722124	2.06	724104	25	55	47	14	**600**	**275**	**400**	**320**
200	50	3.15	722106	2.87	724106	25	55	52	17	**1000**	**335**	**500**	**400**
200	75	5.35	722126	5.07	724126	25	85	52	17.5	**1200**	**400**	**700**	**560**
250	75	7.17	722108	6.67	724108	25	85	52	17.5	**1500**	**450**	**800**	**640**
300	85	8.51	722109	8.05	724109	30	90	62	16	**1800**	**500**	**950**	**760**
300	85	8.49	722129	8.05	724109	35	90	62	16	**1800**	**500**	**950**	**760**

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
125	50	3.00	724313	2.63	725213	3.22	727113	166	140x110	105x80	11	57	156	**300**
150	50	3.67	724304	3.30	725204	3.96	727124	194	140x110	105x80	11	56	156	**300**
200	50	4.56	724336	4.34	725236	4.86	727126	240	140x110	105x80	11	56	156	**300**

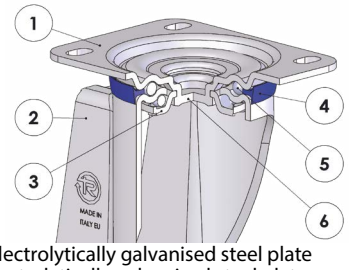
Options available to order



Directional lock
for brackets
d. 150-200 mm

Medium-duty brackets M - max carrying capacity 500 daN





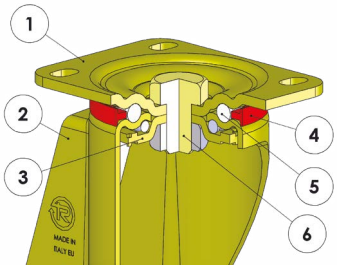
1) Plate: electrolytically galvanised steel plate
2) Fork: electrolytically galvanised steel plate
3) Ball race ring: electrolytically galvanised steel plate
4) Dust seal: blue polyethylene
5) Swivel actions: double ball ring with grease lubrication
6) King pin: integrated with the plate and cold-riveted

Available with adjustable total front foot brake

		kg		kg		kg									4 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	
150	50	4.02	724504	3.30	725204	4.49	727724	194	140x110	105x80	11	58	178	**400**	
200	50	4.95	724536	4.34	725236	5.11	727726	240	140x110	105x80	11	50	178	**500**	

Medium-heavy duty brackets P - max carrying capacity 500 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		kg		kg									4 km/h	6 km/h
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN	daN	
125	50	3,80	727513	3,24	728513			170	140x110	105x80	11	70		**300**	**240**	
150	50	4,65	727504	3,42	728504	5,22	727224	200	140x110	105x80	11	70	126	**400**	**320**	
200	50	5,62	727506	4,16	728506	6,19	727226	250	140x110	105x80	11	70	126	**500**	**400**	

Options available to order



Directional lock
for P brackets
d. 150-200 mm

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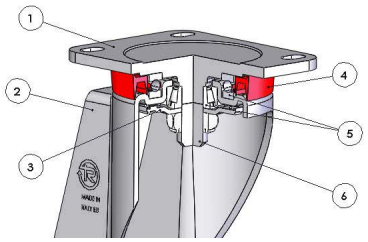
Extra-heavy duty brackets EP - max carrying capacity 800 daN





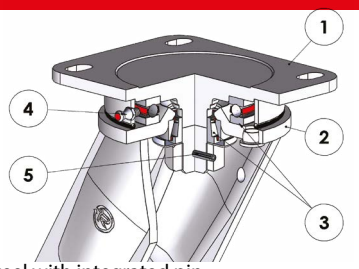
1) Plate: white galvanised forged steel
2) Fork: white galvanised forged steel
3) Lower bearing protection ring
4) Dust seal: orange polyethylene
5) Swivel actions: axial ball bearing and tapered roller bearing
6) King pin: integrated with the machine-processed plate

Available with adjustable total rear foot brake

		kg	CODE	kg	CODE	kg	CODE							4 km/h	6 km/h	
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN	
150	50	4.92	727814	4.43	728814	5.49	727324	200	135x110	105x80	11	70	126	**400**	**320**	
200	50	5.87	727816	5.43	728816	6.44	727326	250	135x110	105x80	11	70	126	**500**	**400**	
200	75	10.90	727806	9.06	728806			275	175x140	140x105	14	66		**700**	**560**	
250	75	12.71	727808	10.88	728808			300	175x140	140x105	14	66		**800**	**640**	

Electrowelded brackets EE MHD - max carrying capacity 500 daN





1) Plate: forged steel with integrated pin
2) Fork: deep-drawn legs electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Nut anti-loosening system

Available with adjustable total rear foot brake

		kg	CODE	kg	CODE	kg	CODE							4 km/h	6 km/h	
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN	
125	50	4.78	729303	3.80	729403	5.66	729603	182	135x110	105x80	11	51	157	**300**	**180**	
150	50	5.30	729304	4.31	729404	6.18	729604	210	135x110	105x80	11	60	157	**400**	**320**	
200	50	6.27	729306	5.29	729406	7.15	729606	252	135x110	105x80	11	70	157	**500**	**400**	

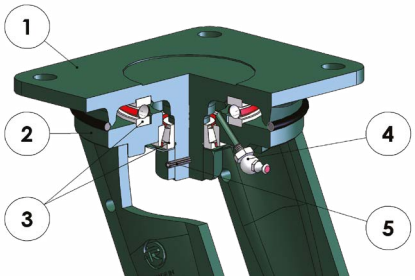
Options available to order



Directional lock for brackets EE MHD - EE HD - EEG MHD - EES MHD see page 428

Electrowelded brackets EE HD - max carrying capacity 950 daN





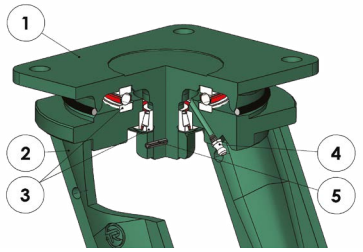
1) Plate: forged steel with integrated pin
2) Fork: deep-drawn legs electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Nut anti-loosening system

Available with adjustable total rear foot brake

														4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
200	75	11.81	729316	10.27	729416	12.69	729616	275	175x140	140x105	14	65	166	**700**	**560**
250	75	13.86	729307	12.27	729407	14.74	729607	320	175x140	140x105	14	74	166	**800**	**640**
300	85	15.32	729308	13.70	729408	16.20	729608	360	175x140	140x105	14	81	166	**950**	**760**

Twin electrowelded brackets EEG HD - max carrying capacity 1000 daN





1) Plate: forged steel with integrated pin
2) Fork: deep-drawn legs electro-welded to the flange
3) Swivel actions: axial ball bearing and tapered roller bearing
4) Grease nipple
5) Nut anti-loosening system

											4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN	daN
150	50+50	12.75	728074	8.30	728174	228	175x140	140x105	14	50	**800**	**640**
200	50+50	14.90	728066	10.35	728166	280	175x140	140x105	14	65	**1000**	**800**
200	50+50	16.55	728076	11.75	728176	285	200x160	160x120	17	65	**1000**	**800**

Options available to order



Directional lock
for brackets EE MHD
- EE HD - EEG MHD - EES
MHD see page 428

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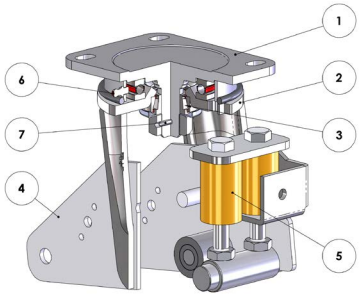
Electrowelded sprung-loaded brackets EES HD - max carrying capacity 500 daN - damping up to 400 daN





1) Top plate: electrolytically galvanised forged steel with integrated pin.
2) Main fork: deep-drawn legs electrowelded to the flange and electrolitically galvanised U-shaped component electrowelded to the legs.
3) Swivel actions: axial ball bearing and tapered roller bearing
4) spring-hinged plates: plates electrowelded to the axle
5) Polyurethane springs
6) Grease nipple
7) Anti-loosening locknut system
Available with adjustable front lock

mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	mm	daN	daN	daN	daN
150	50	8,12	725704	6,87	725804	9,18	726004	243	135x110	105x80	11	100	240	25	50	**400**	**400**	**320**
200	50	8,97	725706	7,72	725806	10,08	726006	268	135x110	105x80	11	100	265	25	50	**400**	**500**	**400**

Spring travel (mm): maximum difference in the total height of the group wheel + support depending on the spring tension

Initial tension (daN): in case of lighter loads than indicated, the bracket works with no damping

Spring tension (daN): in case of heavier loads than indicated, the bracket works with no damping

Options available to order



Directional lock for brackets EE MHD - EE HD - EEG MHD - EES MHD see page 428