





CAST IRON SOLID WHEELS

	100-200 mm
	500-1400 daN 4 km/h
	260-800 daN
	-40 / +400 °C



Description

Cast iron solid wheels.

Hub with plain bore which directly houses the axle.

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

Uses

Intended mainly for static uses and for high carrying capacities.

The model with plain bore is resistant to temperatures from -40 C to +400°C and is, therefore, particularly suitable for oven applications. To use a castor at temperatures above 100 °C, the wheel needs to be fitted with a specific bracket for high-temperature use.

Examples of recommended applications: trolleys for workshops, industrial ovens.

Environments of use

Designed for industrial environments, even in presence of medium-harsh chemical agents. Not recommended in humid environments and in presence of strong organic acids and concentrated mineral acids.

WEAK ACIDS		WEAK BASES	
STRONG ACIDS		STRONG BASES	
WATER		HYDROCARBONS	
ALCOHOL		SOLVENTS	

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

Floors



Suitable only for smooth and compact floors.

Not suited for areas with obstacles.

They may damage fragile floors.



Force required to push or tow a wheel

 	100 kg	300 kg	500 kg	700 kg	1000 kg	1400 kg
100x30 mm	< 1	5.6	15	---	---	---
100x40 mm	< 1	4.3	11.2	---	---	---
125 mm	< 1	3.2	7.6	14	---	---
150 mm	< 1	2.5	4.7	7.4	12.2	---
200 mm	< 1	1.7	3.5	5.8	10.3	18

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.

Available with brackets:



Standard-duty brackets NL

Maximum carrying capacity 300 daN - available diameters 100-150 mm
Top plate fitting.



Medium-heavy duty brackets P

Maximum carrying capacity 750 daN - available diameters 125-200 mm
Top plate fitting.



Extra-heavy duty brackets EP

Maximum carrying capacity 1100 daN - available diameters 150-200 mm
Top plate fitting.

Options available to order



Steel wheel for extremely heavy loads












Wheel with brackets NL and P for high temperatures













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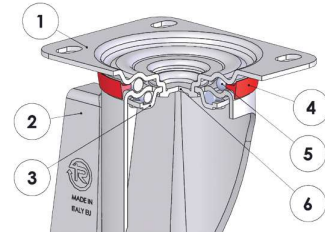


																
mm	mm	kg	CODE	mm	mm	daN	daN	daN								
100	30	0.62	691102	15	34	800	260	500								
100	30	0.70	691112	15	44	800	260	500								
100	40	0.92	691202	20	44	900	300	600								
125	40	1.09	691103	15	44	1200	350	700								
125	40	1.12	691203	20	44	1200	350	700								
150	45	1.81	691104	20	59	1500	500	1200								
200	45	3.34	691106	20	59	1900	600	1400								
200	45	3.19	691206	25	59	1900	800	1400								



																
mm	mm	kg	CODE	kg	CODE	mm	mm.	mm	mm	daN	daN	daN				
100	38	1.33	692122	1.14	694102	15	40	42	13	900	300	600				
100	38	1.28	692102	1.14	694102	20	40	42	13	900	300	600				
125	40	1.67	692103	1.43	694103	20	40	47	14	1200	350	700				
150	50	2.46	692104	2.18	694104	20	56	47	14	1500	500	1200				
200	50	3.64	692106	3.29	694106	20	56	52	15	1900	600	1400				
200	50	3.57	692126	3.57	694106	25	56	52	15	1900	600	1400				

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

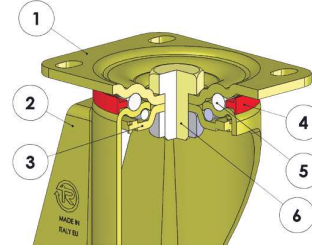
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN			
100	30	1.16	694802	0.89	695702	128	100x85	80x60	9	35	200			
100	40	1.50	694812	1.16	695712	128	100x85	80x60	9	35	200			
125	40	1.73	694803	1.38	695703	156	100x85	80x60	9	37	220			
150	45	3.24	694804	2.87	695704	194	140x110	105x80	11	56	300			
100	40	1.91	694902	1.57	695802	128	100x85	80x60	9	35	200			
125	40	2.31	694903	1.96	695803	156	100x85	80x60	9	37	220			
150	50	3.89	694904	3.52	695804	194	140x110	105x80	11	56	300			

Options available to order



Wheel with NL and P brackets for high temperatures

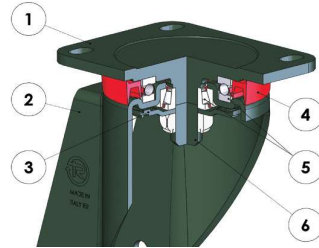
Medium-heavy duty brackets P - max carrying capacity 750 daN



- 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

mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN				
125	40	1.96	697603	1.46	698603	161	100x85	80x60	9	48	350				
150	45	4.16	697504	2.73	698504	200	140x110	105x80	11	70	750				
200	45	5.81	697506	4.35	698506	250	140x110	105x80	11	70	750				
125	40	2.75	696203	2.05	696303	161	100x85	80x60	9	48	350				
150	50	4.81	696204	3.38	696304	200	140x110	105x80	11	70	750				
200	50	6.11	696206	4.65	696306	250	140x110	105x80	11	70	750				

Extra-heavy duty brackets EP - max carrying capacity 1100 daN



- 1) Plate: green galvanised forged steel
- 2) Fork: green 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

mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN												
150	45	4.43	697804	3.94	698804	200	135x110	105x80	11	70	1100												
200	45	6.03	697806	5.62	698806	250	135x110	105x80	11	70	1100												
150	50	5.08	697604	4.59	697704	200	135x110	105x80	11	70	1100												
200	50	6.30	697606	5.92	697706	250	135x110	105x80	11	70	1100												