VULKOLLAN® WHEELS WITH FORGED STEEL CENTRE

100-250 mm

93 Shore A

250-1500 daN
4 km/h

200-1200 daN
6 km/h

190-550 daN

-20 / +80 °C



Description

Tyre: Vulkollan®, hardness 93 Shore A: excellent rolling resistance and elasticity, highly resistant to wear, tear and deformations.

Centre: forged steel.

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

Uses

Ideal for applications with heavy duty loads, even with mechanical handling at high speeds. Fitted with appropriate brackets, they guarantee excellent performance up to 16 km/h.
The excellent rolling resistance allows an easy handling of heavy loads even with wheels of a small diameter.
Examples of recommended applications: trolleys for indoor industrial handling, AGV trolleys, containers, electrical pallet trucks, forklift trucks.

Environments of use

Designed for industrial environments, even in presence of alcohols, glycols, hydrocarbons. Not recommended in areas with organic acids and mineral acids, base solutions and saturated vapour.

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 tiles and cement-resin.
Not suitable if large obstacles are present.



Force required to push or tow a wheel

	150 kg	300 kg	450 kg	600 kg	1000 kg	1500 kg
100 mm	4	----	----	----	----	----
125 mm	3.3	6.7	----	----	----	----
150 mm	2.4	4.8	7.2	9.6	----	----
175 mm	2.2	4.5	6.8	9	----	----
200 mm	1.7	3.5	5.5	7.6	14.2	----
250 mm	1.2	2.5	4	5.6	10.5	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.

Fittings with brackets



Standard-duty brackets NL
Maximum carrying capacity 300 daN - available diameters 100-200 mm
Top plate fitting.



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 750 daN - available diameters 80-200 mm
Top plate fitting. Available with front brake and adjustable rear brake.



Heavy-duty PT brackets with hardened ball race grooves
Maximum carrying capacity 900 daN - available diameters 150-200 mm
Top plate fitting. vailable with front brake and adjustable rear brake.



Extra-heavy duty brackets EP
Maximum carrying capacity 1500 daN - available diameters 100-250 mm
Top plate fitting. Available with adjustable rear brake.

Options available to order:

The series 63AC 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.

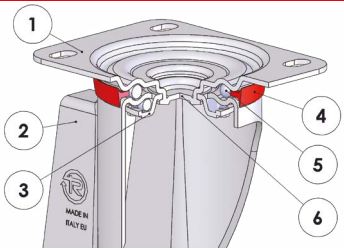
VULKOLLAN® WHEELS WITH FORGED STEEL CENTRE



		kg		kg						Static		4 km/h	6 km/h
mm	mm	kg	COD.	kg	COD.	mm	mm.	mm	mm	daN	daN	daN	daN
100	30	0,74	632122	0,67	634122	12	30	32	10	**375**	**190**	**250**	**200**
125	40	1,38	632123	1,31	634123	12	40	32	10	**500**	**230**	**350**	**280**
150	40	1,84	632124	1,66	634124	17	40	40	12	**900**	**320**	**750**	**600**
150	40	1,76	632224	1,60	634224	20	40	42	12	**900**	**320**	**750**	**600**
175	40	2,80	632125	2,56	634125	20	40	47	14	**1200**	**340**	**850**	**680**
200	50	4,03	632126	3,79	634126	20	50	47	14	**1800**	**420**	**1100**	**880**
200	50	4,00	632226	3,72	634226	25	50	52	15	**1800**	**420**	**1100**	**880**
250	60	8,03	632128	7,75	634128	25	60	52	15	**2200**	**550**	**1500**	**1200**

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

		kg		kg							4 km/h
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN
100	30	1.26	637322	1.01	638222	128	100x85	80x60	9	35	**200**
125	40	2.03	637323	1.68	638223	156	100x85	80x60	9	37	**220**
150	40	2.54	637304	2.15	638214	182	100x85	80x60	9	34	**220**
150	40	3.21	637324	2.84	638224	194	140x110	105x80	11	56	**300**
175	40	4.18	637325	3.89	638225	217	140x110	105x80	11	56	**300**
200	50	5.43	637326	5.21	638226	240	140x110	105x80	11	56	**300**

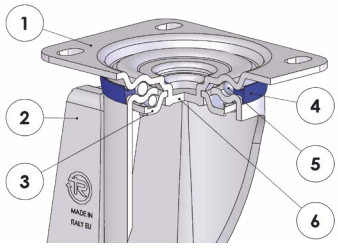
Options available to order:



Footguard for brackets NL-M-P-PT

Medium-duty brackets M - max carrying capacity 500 daN





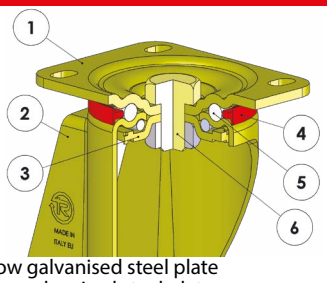
1) Plate: electrolytically galvanised steel plate
2) Fork: electrolytically galvanised steel plate
3) Ball race ring: electroplated galvanised steel
4) Dust seal: blue polyethylene
5) Swivel actions: double ball ring with grease lubrication
6) King pin: integrated with the plate and cold-riveted

Available with adjustable total front foot brake

														4 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
150	40	3.56	637404	2.84	638224	4.13	636704	194	140x110	105x80	11	58	178	**500**
200	50	5.82	637406	5.21	638226	6.18	636706	240	140x110	105x80	11	50	178	**500**

Medium-heavy duty brackets P - max carrying capacity 750 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

														4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
100	30	1.61	637622	1.11	638622	1.75	636302	138	100x85	80x60	9	46	123	**250**	**200**
125	40	2.29	637623	1.76	638623	2.43	636303	161	100x85	80x60	9	44	123	**350**	**280**

Options available to order:

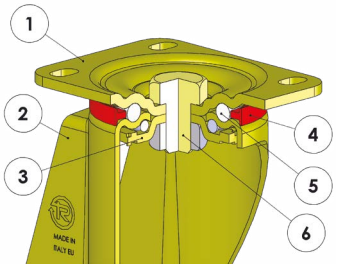


Footguard for brackets NL-M-P-PT

VULKOLLAN® WHEELS WITH FORGED STEEL CENTRE

Heavy duty brackets P - max carrying capacity 750 daN





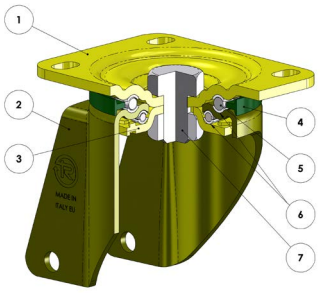
1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised steel plate
4) Dust seal: orange polyamide
5) Swivel actions: double ball ring with grease lubrication
6) King pin: steel bolt in grade 8.8 steel and steel nut

Available with total adjustable 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
150	40	4.19	637624	2.70	638624	4.76	636304	200	140x110	105x80	11	70	126	**750**	**600**
175	40	5.14	637625	3.72	638625	5.71	636305	225	140x110	105x80	11	70	126	**750**	**600**
200	50	6.44	637626	4.98	638626	7.01	636306	250	140x110	105x80	11	70	126	**750**	**600**

Heavy-duty PT brackets with hardened ball race grooves - max carrying capacity 900 daN





1) Plate: yellow galvanised steel plate
2) Fork: yellow galvanised steel plate
3) Ball race ring: yellow galvanised steel plate
4) Dust Seal: dark green polyamide 6
5) Swivel actions: double ball ring with grease lubrication
6) Ball race: hardened carbon steel grooves
7) King pin: steel screw, class 8.8 and stainless steel nut

Available with rear adjustable brake

														4 km/h	6 km/h
mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	mm	daN	daN
150	40	4,19	635604	2,70	638624	4,76	635304	200	140x110	105x80	11	70	126	**750**	**600**
175	40	5,14	635605	3,72	638625	5,71	635305	225	140x110	105x80	11	70	126	**850**	**680**
200	50	6,44	635606	4,98	638626	7,01	635306	250	140x110	105x80	11	70	126	**900**	**800**

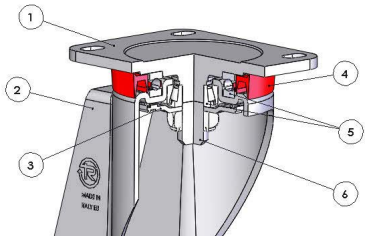
Options available to order:



Footguard for brackets NL-M-P-PT

Extra-heavy duty brackets EP - max carrying capacity 1500 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

mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	4 km/h daN	6 km/h daN
100	30	1.85	637822	1.61	638822			140	100x85	80x60	9	46		**250**	**200**
125	40	2.56	637823	1.70	638823			164	100x85	80x60	9	45		**350**	**280**
150	40	4.46	637824	3.97	638824	5.03	636504	200	135x110	105x80	11	70	126	**750**	**600**
175	40	5.44	637825	5.02	638825	6.01	636505	225	135x110	105x80	11	70	126	**850**	**680**
200	50	6.75	637826	6.30	638826	7.32	636506	250	135x110	105x80	11	70	126	**1100**	**880**
250	60	13.58	637828	11.74	638828			300	175x140	140x105	14	66		**1500**	**1200**