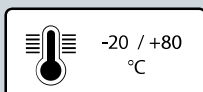
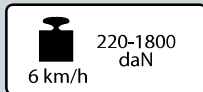
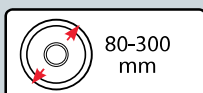


## VULKOLLAN® WHEELS WITH CAST IRON CENTRE



### Description

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

Centre: cast iron.

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. Combined 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 small diameter.

Examples of recommended applications: trolleys for indoor industrial handling, AGV trolleys, containers, electrical pallet trucks, forklift trucks.

### Environments for 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	
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 for tiles and cement-resin.

Not suitable if large obstacles are present.



**Force required to push or tow a wheel**

 4 km/h	150 kg	300 kg	450 kg	600 kg	1000 kg	1500 kg	2000 kg
80 mm	4.5	11	----	----	----	----	----
100 mm	3.8	7.7	----	----	----	----	----
125x38 mm	3.5	7	11.5	----	----	----	----
125x50 mm	3.3	6.5	11	----	----	----	----
150x50 mm	2.5	5.2	8.6	12.6	----	----	----
160x50 mm	2.3	5	8.3	12	----	----	----
180x50 mm	2	4.1	6.8	9.7	----	----	----
200x50 mm	1.7	3.8	6	8.5	16	----	----
200x80 mm	1.3	3.5	5.0	6.7	11.5	17	----
250x60 mm	1	3	4.7	6.3	10.9	16	----
250x80 mm	< 1	2.5	4.5	6	10.3	15.5	----
300x60 mm	< 1	2	4	5.5	9.6	15	----
300x80 mm	< 1	1.5	3.5	5	8.6	13	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.

**Available with brackets:**



**Standard-duty brackets NL**  
Maximum carrying capacity 300 daN - available diameters 80-200 mm  
Top plate fitting. Available with 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 750 daN - available diameters 80-200 mm  
Top plate fitting. Available with front brake and adjustable rear brake.



**Extra-heavy duty brackets EP**  
Maximum carrying capacity 1600 daN - available diameters 100-250 mm  
Top plate fitting. Available with adjustable rear brake.



**Electrowelded brackets EE MHD - EE HD - EE EHD.**  
Maximum carrying capacity 2300 daN - available diameters 125-400 mm  
Top plate fitting. Available with adjustable rear brake.



**Twin electrowelded brackets EEG MHD - EEG HD - EEG EHD**  
Maximum carrying capacity 3500 daN - available diameters 100-250 mm  
Top plate fitting.

**Options available to order:**



Wheel with key housing















Wheel with very thick tyre

SERIES **63H**

VULKOLLAN® WHEELS  
WITH CAST IRON CENTRE



															
		kg	COD.	kg	COD.										
80	28	0,51	632151	0,46	634151	12	32	28	8	370	190	280	220		
100	38	1,02	632152	0,91	634152	15	40	35	11	500	220	380	300		
125	38	1,45	632153	1,34	634153	15	40	35	11	600	240	450	360		
125	50	1,98	632163	1,76	634163	20	55	47	14	800	270	600	440		
125	50	1,96	632363	1,76	634163	25	55	47	14	800	270	600	440		
150	50	2,50	632154	2,28	634154	20	55	47	14	910	290	700	560		
150	50	2,48	632354	2,28	634154	25	55	47	14	910	290	700	560		
160	50	2,65	632164	2,43	634164	20	55	47	14	1000	300	750	600		
160	50	2,63	632364	2,43	634164	25	55	47	14	1000	300	750	600		
180	50	3,02	632155	2,80	634155	20	55	47	14	1100	350	900	720		
200	50	3,65	632156	3,43	634156	20	55	47	14	1500	380	1000	800		
200	50	3,63	632356	3,43	634156	25	55	47	14	1500	380	1000	800		
200	80	7,26	632166	6,74	634166	25	86	62	17	2000	450	1600	1300		
200	80	7,24	632366	6,74	634166	30	86	62	17	2000	450	1600	1300		
250	60	8,13	632157	7,61	634157	25	65	62	17	2500	480	1500	1200		
250	60	8,10	632357	7,61	634157	30	65	62	17	2500	480	1500	1200		
250	80	9,81	632167	9,29	634167	25	86	62	17	2800	500	1900	1500		
250	80	9,80	632367	9,29	634167	30	86	62	17	2800	500	1900	1500		
300	60	11,43	632158	10,96	634158	30	65	62	17	3200	550	1750	1400		
300	80	13,80	632168	13,33	634168	30	86	62	17	3400	600	2300	1800		

Options available to order:

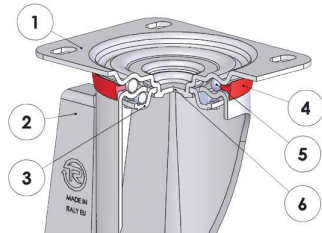


Wheel with key housing



Wheel with very thick tyre

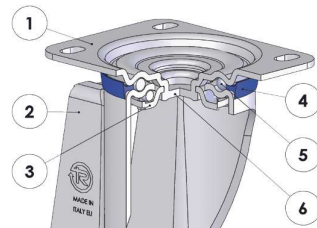
**Standard-duty brackets NL - max carrying capacity 300 daN**



- 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		kg	CODE	kg	CODE	kg	CODE						4 km/h	daN
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
80	28	0.95	634551	0.82	634651	1.11	635451	107	100x85	80x60	9	37	120	200
100	38	1.51	634552	1.40	634652	1.67	635452	128	100x85	80x60	9	35	120	200
125	38	1.97	634553	1.86	634653	2.13	635453	156	100x85	80x60	9	37	120	220
125	50	3.38	634563	2.89	634663	3.58	635463	166	140x110	105x80	11	57	156	300
150	50	3.87	634554	3.59	634654			194	140x110	105x80	11	56		300
160	50	3.98	634564	3.71	634664	4.23	635474	199	140x110	105x80	11	56	156	300
180	50	4.48	634555	4.21	634655	4.68	635465	220	140x110	105x80	11	56	156	300
200	50	5.16	634556	4.92	634656	5.36	635466	240	140x110	105x80	11	56	156	300

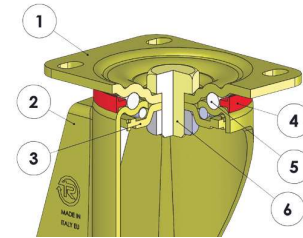
**Medium-duty brackets M - max carrying capacity 500 daN**



- 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-rieveted
- Available with adjustable total front foot brake

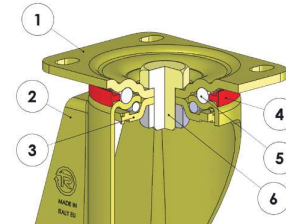
mm		kg	CODE	kg	CODE	kg	CODE						4 km/h	daN
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN
150	50	4.21	637424	3.59	634654	4.65	636724	194	140x110	105x80	11	58	178	500
160	50	4.33	637434	3.71	634664	4.78	636734	199	140x110	105x80	11	58	178	500
200	50	5.55	637426	4.92	634656	5.91	636726	240	140x110	105x80	11	50	178	500

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 total front foot brake

mm		kg	CODE	kg	CODE	kg	CODE	mm						4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
80	28	1.38	635851	0.96	636851			128	100x85	80x60	9	46		<b>280</b>	<b>220</b>
100	38	1.93	635852	1.52	636852	2.06	634852	138	100x85	80x60	9	46	123	<b>350</b>	<b>300</b>
125	38	2.37	635853	2.04	636853	2.50	634853	161	100x85	80x60	9	44	123	<b>350</b>	<b>300</b>



- 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 adjustable rear foot brake

mm		kg	CODE	kg	CODE	kg	CODE	mm						4 km/h	6 km/h
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	daN	daN
125	50	3.66	635863	2.65	636863	4.24	634863	170	140x110	105x80	11	70	126	<b>550</b>	<b>440</b>
150	50	4.81	635854	3.55	636854	5.33	634854	200	140x110	105x80	11	70	126	<b>700</b>	<b>560</b>
160	50	4.93	635864	4.08	636864	5.45	634864	205	140x110	105x80	11	70	126	<b>750</b>	<b>600</b>
180	50	5.30	635855	4.45	636855	5.90	634855	228	140x110	105x80	11	70	126	<b>750</b>	<b>600</b>
200	50	6.06	635856	5.15	636856	6.66	634856	250	140x110	105x80	11	70	126	<b>750</b>	<b>600</b>

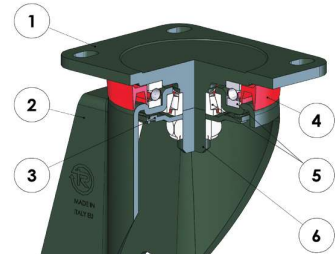
Options available to order:



Footguard  
for brackets  
NL-M-P



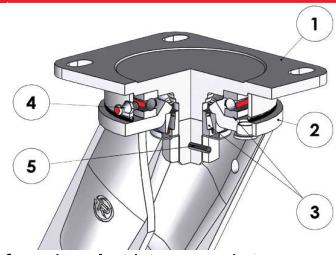
**Extra-heavy duty brackets EP - max carrying capacity 1600 daN**



- 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
- Available with adjustable total rear foot brake

mm		kg		kg		kg		mm		mm		daN		
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	4 km/h	6 km/h	
100	38	2.15	637852	1.92	638852			140	100x85	80x60	9	46	350	300
125	38	2.64	637853	2.44	638853			164	100x85	80x60	9	48	350	300
150	50	5.04	637854	4.63	638854	5.56	636654	200	135x110	105x80	11	70	700	560
160	50	5.16	637864	4.75	638864	5.68	636664	205	135x110	105x80	11	70	750	560
180	50	5.60	637855	5.20	638855	6.20	636655	228	135x110	105x80	11	70	900	720
200	50	6.35	637856	6.06	638856	6.95	636656	250	135x110	105x80	11	70	1000	800
200	80	12.30	637866	10.46	638866			275	175x140	140x105	14	66	1600	1300
250	60	13.16	637857	11.32	638857			300	175x140	140x105	14	66	1500	1200

**Electrowelded brackets EE MHD - 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) Anti-loosening system nut
- Available with adjustable total rear foot brake

mm		kg		kg		kg		mm		mm		daN		
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	4 km/h	6 km/h	
125	50	4.88	638303	3.90	638403	5.76	638903	182	135x110	105x80	11	51	600	440
150	50	5.50	638304	4.51	638404	6.38	638904	210	135x110	105x80	11	60	700	560
160	50	5.65	638314	4.66	638414	6.53	638914	215	135x110	105x80	11	60	750	600
180	50	6.14	638305	5.16	638405	7.02	638905	242	135x110	105x80	11	70	900	720
200	50	6.77	638306	5.79	638406	7.65	638906	252	135x110	105x80	11	70	1000	800

Options available to order:



Bracket EE MHD with steering system

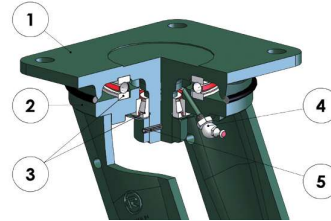


Directional lock for brackets EE MHD - EE HD - EED MHD: see page 332



Footguard for brackets NL-M-P

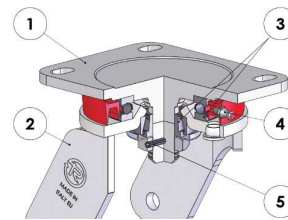
**Electrowelded brackets EE HD - max carrying capacity 2300 daN**



- 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) Anti-loosening system nut
- Available with adjustable total rear foot brake

mm		kg		kg		kg		mm		mm		mm		mm		daN	
mm	mm	kg	CODE	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	mm	mm	4 km/h	6 km/h
200	80	13.72	638316	12.18	638416	14.60	638916	275	175x140	140x105	14	65	166	166	166	1600	1300
250	60	14.82	638307	13.23	638407	15.70	638907	320	175x140	140x105	14	74	166	166	166	1500	1200
250	80	16.50	638317	14.91	638417	17.38	638917	320	175x140	140x105	14	74	166	166	166	1600	1300
250	80	17.56	638327	15.23	638427	18.44	638927	325	200x160	160x120	17	74	166	166	166	1900	1500
300	60	18.24	638308	16.62	638408	19.12	638908	360	175x140	140x105	14	81	166	166	166	1600	1300
300	60	19.30	638328	16.95	638428	20.18	638928	365	200x160	160x120	17	81	166	166	166	1750	1400
300	80	20.61	638318	18.99	638418	21.49	638918	360	175x140	140x105	14	81	166	166	166	1600	1300
300	80	21.67	638338	19.32	638438	22.55	638938	365	200x160	160x120	17	81	166	166	166	2300	1800

**Twin electrowelded brackets EEG MHD - max carrying capacity 900 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) Anti-loosening system nut

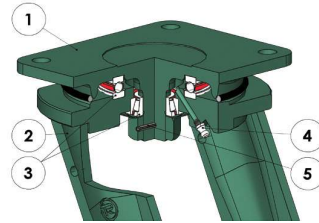
mm		kg		kg		mm		mm		mm		mm		daN	
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	mm	mm	4 km/h	6 km/h
100	38+38	4.50	638062	3.75	638162	140	135x110	105x80	11	55	55	55	55	700	600
125	38+38	5.45	638063	4.70	638163	170	135x110	105x80	11	55	55	55	55	900	720

Options available to order:



Directional lock  
for brackets EE MHD  
- EE HD - EED MHD:  
see page 332

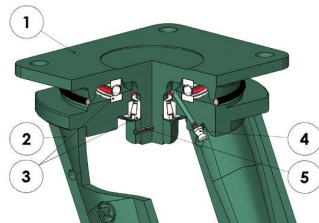
**Twin electrowelded brackets EEG HD - max carrying capacity 2000 daN**



- 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) Anti-loosening system nut

mm		kg		kg		mm		mm		mm		mm		daN		daN	
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	4 km/h	6 km/h	daN	daN		
125	50+50	11.00	638072	7.70	638172	210	175x140	140x105	14	50	50	1200	880				
150	50+50	13.10	638074	8.70	638174	223	175x140	140x105	14	50	50	1400	1100				
160	50+50	13.40	638084	9.00	638184	228	175x140	140x105	14	50	50	1500	1200				
200	50+50	15.90	638066	11.30	638166	280	175x140	140x105	14	65	65	1600	1300				
200	50+50	17.55	638076	12.70	638176	285	200x160	160x120	17	65	65	2000	1600				

**Twin electrowelded brackets EEG MHD - max carrying capacity 3500 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) Anti-loosening system nut

mm		kg		kg		mm		mm		mm		mm		daN		daN	
mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	mm	4 km/h	6 km/h	daN	daN		
200	80+80	34.80	638086	25.05	638186	280	250x200	210x160	19	52	52	3200	2500				
250	60+60	36.95	638067	27.20	638167	330	250x200	210x160	19	62	62	3000	2400				
250	80+80	40.30	638077	30.55	638177	330	250x200	210x160	19	62	62	3500	2800				