

THERMOSETTING RESIN SOLID WHEELS



Description

Thermosetting resin solid wheels, resistant to temperature from -20°C up to 300°C.

Hub with plain bore hole which directly houses the axle.

Hub with shielded ball bearings lubricated with a grease for high temperatures; steel thread-guards to protect the ball bearings from external agents and dirt. Also available with stainless steel ball bearings.

Uses

Their resistance to high temperature makes them particularly suitable for use in the food industry and in cooking ovens, particularly in the bakeries.

They are fitted with brackets and axle components, which are specific for high temperatures.

The ball bearings version ensures an excellent performance and the absence of squeaking over long cycle time applications, even in presence of heavy loads.

They are resistant to medium-harsh chemical agents.

Not suitable in presence of obstacles along the path or on delicate flooring.

Environments of use

Suitable for industrial and institutional environments, also in presence of humidity and chemical agents.

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 on tiles and resin-cement; not recommended on abrasive, unpaved floors or in presence of processing residues.

Not suitable on fragile floor or with obstacles along the path.



Force required to push or tow a wheel

 	100 kg	200 kg	300 kg	400 kg	500 kg
80 mm	4	---	---	---	---
100 mm	3.7	8.2	---	---	---
125 mm	3	7	11	---	---
150 mm	2	5.5	9	---	---
200 mm	1	4	6.5	9	12

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 and bolt hole fittings.



Stainless steel standard-duty brackets NLX

Maximum carrying capacity 300 daN - available diameters 80-200 mm
Top plate and bolt hole fittings.



Stainless steel medium-heavy brackets PX

Maximum carrying capacity 500 daN - available diameters 150-200 mm
Top plate fitting.



mm	mm	kg	COD.	mm	mm	daN	daN	daN
80	35	0,18	672201	12	39	250	125	150
100	35	0,30	671102	12	44	300	130	200
100	35	0,29	672202	15	44	300	130	200
125	35	0,43	672203	15	44	400	180	300
150	50	0,90	672104	20	58	500	190	300
200	50	1,68	672106	20	58	700	240	500

Axle sets



Low tickness PTFE-coated steel axle tubes.
Available for fitting with 80,100 and 125mm standard duty NL brackets.
Suitable also for heavy usages over short cycle time applications.



Standard steel and stainless steel axle tubes for 150 and 200mm wheels fitted with standard duty NL and NLX brackets, as well as with PX medium-heavy duty brackets.
Suitable also for heavy usages over short cycle time applications.



High tickness PTFE-coated stainless steel axle tube for assembly with 80,100 and 125mm standard duty NLX brackets.
Available to order for fitting with other brackets.
Suitable for medium-heavy duty loads over long cycle time applications.



Low friction innovative PTFE bushings over a steel or stainless steel axle tube.
Available for fitting with 80 and 100mm NL and NLX brackets.
Suitable for situations of heavier duty and long cycle time applications.

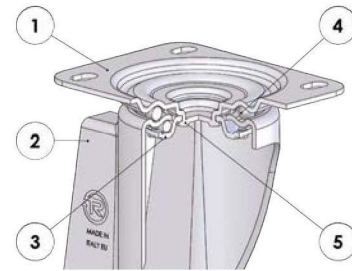


mm	mm	kg	COD.	kg	COD.	kg	COD.	mm	mm	mm	mm.	daN	daN	daN
80	35	0,27	672501	0,27	672601	0,21	674101	15	35	32	9	250	160	160
100	38	0,44	672502	0,44	672602	0,37	674102	15	38	32	9	300	240	240



Ball bearings protection kit composed of:
- n° 2 galvanised steel/stainless steel threadguards
- n° 2 galvanised steel/stainless steel spacers
Item nr. 924610VE (galvanised) - nr. 924609VE (stainless steel)

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) Swivel actions: double ball ring with grease lubrication for high temperatures
- 5) King pin: integrated with the plate and cold-rieveted

mm	mm	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	daN	Axle set
80	35	0,71	677101	0,43	678101	107	100x85	80x60	9	37	150	
100	35	0,85	677102	0,53	678102	128	100x85	80x60	9	35	200	
125	35	1,07	677103	0,73	678103	156	100x85	80x60	9	37	220	
150	50	2,23	677314	1,90	678304	194	140x110	105x80	11	56	300	
200	50	3,08	677316	2,87	678306	240	140x110	105x80	11	56	300	
80	35	0,77	677201	0,49	677401	107	100x85	80x60	9	37	150	
100	35	0,91	677202	0,59	677402	128	100x85	80x60	9	35	200	



mm	mm	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	daN	Axle set
80	35	0,75	677111	0,63	678111	107	100x85	80x60	9	37	160	
100	38	0,95	677112	0,80	678112	128	100x85	80x60	9	35	200	

Options available to order (plain bore)



Axle components with stainless steel tube coated with hi-thickness PTFE

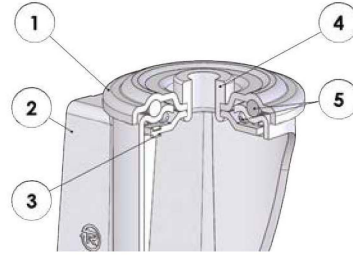


Axle components with stainless steel tube coated with hi-thickness PTFE and spacers















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










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 for high temperatures

									Axle set
mm	mm	kg	COD.	mm	mm	mm	mm	daN	
80	35	0,62	676101	107	73	12	37	150	
100	35	0,72	676102	128	73	12	35	200	
125	35	1,05	676103	156	73	12	37	220	
80	35	0,68	677501	107	73	12	37	150	
100	35	0,78	677502	128	73	12	35	200	



									Axle set
mm	mm	kg	COD.	mm	mm	mm	mm	daN	
80	35	0,70	676111	107	73	12	37	160	
100	38	0,87	676112	128	73	12	35	200	

Options available to order (plain bore)



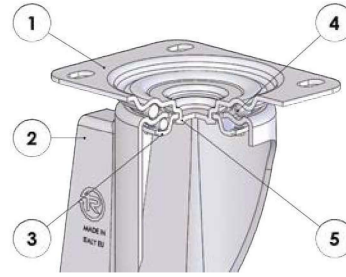
Axle components with stainless steel tube coated with hi-thickness PTFE



Axle components with stainless steel tube coated with hi-thickness PTFE and spacers

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) Swivel actions: double stainless steel ball ring with grease lubrication for high temperatures
- 5) King pin: integrated with the plate and cold-rieveted

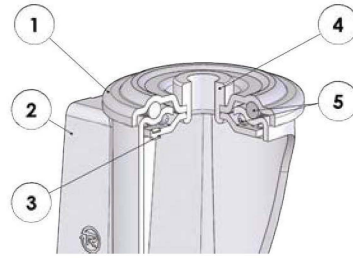
											Axle set		
mm	mm	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	daN		
80	35	0,71	677701	0,40	678701	107	100x85	80x60	9	37	150		
100	35	0,79	677702	0,52	678702	128	100x85	80x60	9	35	200		
125	35	0,92	677713	0,80	678713	156	100x85	80x60	9	37	220		
150	50	2,21	677704	1,77	678704	194	140x110	105x80	11	56	300		
200	50	3,06	677706	2,60	678706	240	140x110	105x80	11	56	300		
80	35	0,78	677901	0,47	678001	107	100x85	80x60	9	37	150		
100	35	0,86	677902	0,59	678002	128	100x85	80x60	9	35	200		



											Axle set		
mm	mm	kg	COD.	kg	COD.	mm	mm	mm	mm	mm	daN		
80	35	0,75	678801	0,63	678901	107	100x85	80x60	9	37	160		
100	38	0,95	678802	0,80	678902	128	100x85	80x60	9	35	200		

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

INOX



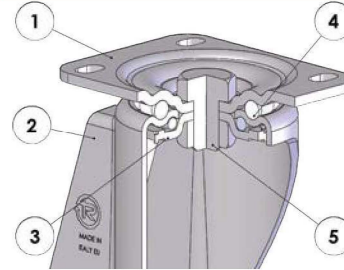
- 1) Plate: AISI 304 stainless steel
- 2) Fork: AISI 304 stainless steel
- 3) Ball race ring: AISI 304 stainless steel
- 4) King pin: bushing in stainless steel
- 5) Swivel actions: double ball ring with grease lubrication

MM	MM	КГ	КОД.	MM	MM	MM	MM	даН	Axle set
80	35	0,62	676701	107	73	12	37	150	
100	35	0,72	676702	128	73	12	35	200	
125	35	1,05	676703	156	73	12	37	220	
80	35	0,69	678201	107	73	12	37	150	
100	35	0,79	678202	128	73	12	35	200	



MM	MM	КГ	КОД.	MM	MM	MM	MM	даН	Axle set
80	35	0,70	676711	107	73	12	37	160	
100	38	0,87	676712	128	73	12	35	200	

Stainless steel medium-heavy duty brackets PX - max carrying capacity 500 daN



INOX

- 1) Plate: AISI 304 stainless steel
- 2) Fork: AISI 304 stainless steel
- 3) Ball race ring: AISI 304 stainless steel
- 4) Swivel actions: double stainless steel ball ring with grease lubrication for high temperatures
- 5) King pin: screw and nut in stainless steel

mm	mm	kg	CODE	kg	CODE	mm	mm	mm	mm	mm	daN	Axle set
150	50	3.25	677004	1.90	677104	200	140x110	105x80	11	70	300	
200	50	4.25	677006	2.74	677106	250	140x110	105x80	11	70	500	