



**MBL  
PRODUCT  
PROGRAMME  
01/2015**



## ABOUT MBL

The MBL Group is a family owned international company established in Denmark in 1988. Today, we are a leading supplier of standard products and customer specified solutions for the wheelchair industry. We have more than 1,300 employees and we occupy 40.000m<sup>2</sup> of production facilities in Poland and China.

MBL manufacture an extensive range of quality products for the wheelchair industry, including spoke wheels, plastic wheels, pushrims, front forks, bearing housings, hubs, quick-release axles, foot rests, hand brakes, textiles, rubber tyres, polyurethane tyres and the unique puncture proof solution; Flexel®. Our products are recognised for their innovative design and wide range of options.

Our standard products have all been developed through our well defined R&D process. They are tested according to relevant industrial standards to ensure they meet all quality and durability requirements, and they are ready for production upon order.





# CONTENTS

- 2 INTRODUCTION**  
Standard or customized products? • OEM solutions and outsourcing to MBL
- 3 PRODUCT GROUP 1: WHEELS FOR POWERCHAIRS**  
Wheels with aluminium rim • Wheels with plastic rim • Wheels with steel rim
- 27 PRODUCT GROUP 2: WHEELS 3"-16"**  
Wheels with rubber tyres • Wheels with PU tyres • Wheels with pneumatic tyres or Flexel®
- 63 PRODUCT GROUP 3: REAR WHEELS 16"-36"**  
Basic wheels • Heavy duty wheels • Drum brake wheels • One-arm drive sets • Ultralight wheels  
• Fiber spoke wheels • Special wheels
- 133 PRODUCT GROUP 4: TYRES AND TUBES**  
Tyres • Tubes
- 143 PRODUCT GROUP 5: SOLID TYRES, INSERTS & INFILLS**  
Polyurethane tyres 12" - 26" • Infill for powerchairs (for split rim) • Inserts • Flexel® • Flexel®Lite • Fitting tools
- 157 PRODUCT GROUP 6: HUBS, QR AXLES & BUSHINGS**  
Hubs • Drum brake hubs • QR axles • QR axles for MBL complete wheels
- 173 PRODUCT GROUP 7: RIMS, PUSHRIMS & SPOKE GUARDS**  
Rim profiles • Pushrims for single wall rims • Pushrim for double wall rims • Pushrims for MBL complete wheels • Spoke guards
- 177 PRODUCT GROUP 8: FRONT FORKS & BEARING HOUSINGS**  
Front forks in aluminum • Front forks in steel • Front forks in plastic • Front forks for rollators  
• Bearing housings
- 195 PRODUCT GROUP 9: HAND BRAKES, BRAKE & RELEASE HANDLES**  
Hand brakes • Brake handles • Release handles • Brake and release handles
- 203 PRODUCT GROUP 10: OTHER WHEELCHAIR COMPONENTS**  
Textiles • PU products • Anti-tip systems • Leg support • Foot rests • Accessories for foot rests  
• Head support • Trays • Clamping levers • Swing away side support • Angle adjustable joint • Foam covers and hand grips • Miscellaneous
- 215 PRODUCT GROUP 11: RAMPS**  
Scala ramps • Access ramps
- 235 GENERAL TERMS & CONDITIONS**

# Please notice!

Not all product items listed are on stock for immediate delivery and not all product items are available from both MBL Poland and MBL China. A minimum order quantity is required for many products. Please do not hesitate to contact MBL Sales for precise information at [sales@mbi.dk](mailto:sales@mbi.dk).

# INTRODUCTION TO OUR CATALOGUE

Dear Customer,

We are pleased to present our new product catalogue to you. Our intention is to provide you with an overview of MBL's wide range of products and competences.

As you browse through the catalogue, please note that it only shows a selection of our extensive range of products and services. Beside our standard products, we manufacture a wide range of customized components and offer bespoke OEM solutions. You will find more information about this on the following pages.

We invite you to visit our webpage [www.mbl.dk](http://www.mbl.dk) for further information about our company. Please note that this catalogue may also be viewed and downloaded from our webpage where it is updated on a regular basis.

Yours sincerely

*M. Bichel Lauritsen*

Mogens Bichel Lauritsen  
CEO

**MB** MBL





## STANDARD OR CUSTOMIZED PRODUCTS?

The products shown in this catalogue are MBL standard products which have all been developed through our well defined R&D process. They are tested according to relevant industrial standards to ensure they meet all quality and durability requirements, and they are ready for production upon order.

A large part of our production consists of customized products which are based on MBL standard products but developed into a unique solution that meets our customers' specific requirements and need for individual design.

Some developments require just a slightly different setup in our production - others may require completely new tools to be made. Having our own tool shop implies that we can also seamlessly manage the latter process.

We calculate the detailed unit and any tools costs on an individual basis, so that we are able to provide you with the best possible offer in respect of a given batch quantity.



# OEM SOLUTIONS AND OUTSOURCING TO MBL



For a decade we have worked intensively with outsourcing of quality products from different industries to our factories in China and Poland.

On each site our teams of skilled engineers and project managers are ready to assist you in getting smoothly through the outsourcing process in a well defined structure. Our experience ensures that whether it regards taking over the production of components or manufacturing complete OEM products, finished in a box and ready to ship to the end-user, we know exactly how to manage the process from start to finish.

If a product has not yet been developed, you may choose to benefit from our know-how and engineering power by outsourcing the development phase partly or fully to MBL.

Please do not hesitate to contact us should you require any further information. You may also visit our website where you will find a thorough description of our outsourcing management process described in the brochure "*MBL – outsourcing powered by experience*".

## Production technologies

**MBL controls among others the below production technologies in-house:**

- » Aluminium HP/LP casting
- » Polyurethane and rubber production
- » Plastic injection moulding
- » Sheet and tube laser cutting
- » CNC milling/lathing
- » Manual machining
- » Stamping, forging and punching
- » Electro mechanical production
- » 3D tube bending and CNC sheet bending
- » Welding of steel, stainless steel, aluminium and titanium
- » Mould and tool production – aluminium/plastic injection moulds, punching tools, welding jigs, test tooling etc.
- » Powder coating
- » Lean assembly lines
- » Extensive testing facilities
- » Textile design and sample production
- » Textile cutting, sewing and extrasonic welding
- » Silk screen printing
- » Hardening/heat treatment of metals
- » Metal grinding

In addition to the above, MBL has developed a wide network of competent sourcing partners across Asia and Europe.





# PRODUCT GROUP 1

## WHEELS FOR POWERCHAIRS



### CONTENT

<b>WHEELS WITH ALUMINIUM RIM.....</b>	<b>8</b>
Split aluminium rims and complete wheels.....	8
<b>WHEELS WITH PLASTIC RIM.....</b>	<b>18</b>
Wheels with keyway and pneumatic tyre or Flexel®.....	18
Split plastic rims and wheels with pneumatic tyre or Flexel®.....	18
<b>WHEELS WITH STEEL RIM.....</b>	<b>21</b>
Split steel rims, one piece steel rims and complete wheels.....	21




# WHEELS WITH ALUMINIUM RIM

## Split aluminium rims and complete wheels



### 200 x 50 split rim and complete wheels

- » Rim sets are complete with bearings, spacer bushes and screws
- » Cast aluminium
- » Available with pneumatic tyre, Flexel® or Flexel®Lite (PU infill)
- » Complete wheels are available with the tyre tread patterns shown below

Description	 mm	 mm	 kg	Colour rim	Part no. rim
Split rim with ø8 x 60 mm hub for std. fork mounting	200	28	75	Silver metallic	830833
Split rim with ø12 x 28 mm hub for shaft side mounting	200	28	75	Silver metallic	830834

### Part numbers for wheels with pneumatic tyre, Flexel® or Flexel®Lite (PU infill)



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø8 x 60 mm hub for std. fork mounting	840821	850821	860801
Complete wheels with ø12 x 28 mm hub for shaft side mounting	840826	850826	860806



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø8 x 60 mm hub for std. fork mounting	840822	850822	860802
Complete wheels with ø12 x 28 mm hub for shaft side mounting	840827	850827	860807



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø8 x 60 mm hub for std. fork mounting	840823	850823	860803
Complete wheels with ø12 x 28 mm hub for shaft side mounting	840828	850828	860808

### Wheels with polyurethane tyres






Description	Part no. PU tyre
Complete wheel with ø8 x 60 mm hub for std. fork mounting	860811
Complete wheel with ø12 x 28 mm hub for shaft side mounting	860816

# WHEELS WITH ALUMINIUM RIM



## 8½ x 2” split rim and complete wheels

- » Rim sets are complete with bearings, spacer bushes and screws
- » Cast aluminium
- » Available with pneumatic tyre, Flexel®, Flexel®Lite (PU infill) or PU tyre
- » Complete wheels are available with the tyre tread patterns shown below

Description	 mm	 mm	 kg	Colour rim	Part no. rim
Split rim with ø8 x 60 mm hub for std. fork mounting	215	35	75	Silver metallic	830835
Split rim with ø12 x 33 mm hub for shaft side mounting	215	35	75	Silver metallic	830836

## Wheels with pneumatic tyre, Flexel® or Flexel®Lite (PU infill)



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø8 x 60 mm hub for std. fork mounting	840831	850831	860821
Complete wheels with ø12 x 33 mm hub for shaft side mounting	840836	850836	860826



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø8 x 60 mm hub for std. fork mounting	840832	850832	860822
Complete wheels with ø12 x 33 mm hub for shaft side mounting	840837	850837	860827



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø8 x 60 mm hub for std. fork mounting	840833	850833	860823
Complete wheels with ø12 x 33 mm hub for shaft side mounting	840838	850838	860828

## Wheels with polyurethane tyre



Description	Part no. PU tyre
Complete wheel with ø8 x 60 mm hub for std. fork mounting	860831
Complete wheel with ø12 x 33 mm hub for shaft side mounting	860836



# WHEELS WITH ALUMINIUM RIM



## 2.80/2.50 - 4" split rim and complete wheels

- » Rim sets are complete with bearings, spacer bushes and screws
- » Cast aluminium
- » Available with pneumatic tyre, Flexel® or Flexel®Lite (PU infill)
- » Complete wheels are available with the tyre tread patterns shown below

Description	Colour rim	 mm	 mm	 kg	Part no. rim
Split rim with ø12 x 100 mm hub for std. fork mounting	Silver metallic	220	50	100	830405
Split rim with ø15 x 45 mm hub for shaft side mounting	Silver metallic	220	50	100	830406

## Wheels with pneumatic tyre, Flexel®, or Flexel®Lite (PU infill)



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø12 x 100 mm hub for std. fork mounting	840491	850491	860411
Complete wheels with ø15 x 45 mm hub for shaft side mounting	840496	850496	860416



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø12 x 100 mm hub for std. fork mounting	840492	850492	860412
Complete wheels with ø15 x 45 mm hub for shaft side mounting	840497	850497	860417



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø12 x 100 mm hub for std. fork mounting	84049A	85049A	86049A
Complete wheels with ø15 x 45 mm hub for shaft side mounting	84049B	85049B	86049B



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø12 x 100 mm hub for std. fork mounting - Right	84049C	85049C	86049C
Complete wheels with ø12 x 100 mm hub for std. fork mounting - Left	84049D	85049D	86049D
Complete wheels with ø15 x 45 mm hub for shaft side mounting - Right	84049E	85049E	86049E
Complete wheels with ø15 x 45 mm hub for shaft side mounting - Left	84049F	85049F	86049F

# WHEELS WITH ALUMINIUM RIM



## 3.00 - 4" split rim and complete wheels

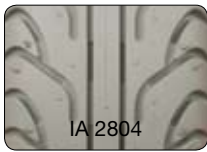
- » Rim sets are complete with bearings, spacer bushes and screws
- » Cast aluminium
- » Available with pneumatic tyre, Flexel® or Flexel®Lite (PU infill)
- » Complete wheels are available with the tyre tread patterns shown below

Description	Colour rim	 mm	 mm	 kg	Part no. rim
Split rim with ø12 x 100 mm hub for std. fork mounting	Silver metallic	260	50	100	830405
Split rim with ø15 x 45 mm hub for shaft side mounting	Silver metallic	260	50	100	830406

## Wheels with pneumatic tyre, Flexel®, or Flexel®Lite (PU infill)



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø12 x 100 mm hub for std. fork mounting	840481	850481	860401
Complete wheels with ø15 x 45 mm hub for shaft side mounting	840486	850486	860406



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø12 x 100 mm hub for std. fork mounting - Right	840482	850482	860402
Complete wheels with ø12 x 100 mm hub for std. fork mounting - Left	84048A	85048A	86040A
Complete wheels with ø15 x 45 mm hub for shaft side mounting - Right	840487	850487	860407
Complete wheels with ø15 x 45 mm hub for shaft side mounting - Left	84048B	85048B	86040B



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø12 x 100 mm hub for std. fork mounting	840483	850483	860403
Complete wheels with ø15 x 45 mm hub for shaft side mounting	840488	850488	860408







Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø12 x 100 mm hub for std. fork mounting	840484	850484	860404
Complete wheels with ø15 x 45 mm hub for shaft side mounting	840489	850489	860409

# WHEELS WITH ALUMINIUM RIM



## 4.10/3.50 - 6" split rim and complete wheels

- » Rim sets are complete with bearings, spacer bushes and screws
- » Cast aluminium
- » Available with pneumatic tyre, Flexel® or Flexel®Lite (PU infill)
- » Complete wheels are available with the tyre tread patterns shown below

Description	Colour rim	 mm	 mm	 mm	 kg	Part no. rim
Split rim with ø12 x 100 mm hub for std. fork mounting	Silver metallic	325	12	64	100	830603

## Wheels with pneumatic tyre, Flexel®, or Flexel®Lite (PU infill)



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with ø12 x 100 mm hub for std. fork mounting - Right	840681	850681	860601
Complete wheels with ø12 x 100 mm hub for std. fork mounting - Left	840682	850682	860602



## CUSTOMER SPECIFIED RIMS

- » We offer aluminium rims made after your specifications
- » Feel free to use your imagination
- » Please contact our sales personnel if you would like to know more



# WHEELS WITH ALUMINIUM RIM



## 12½ x 2¼” split rim and complete wheels

- » Rim sets are complete with screws
- » Rims for customer specified flange hub
- » Cast aluminium
- » Available with pneumatic tyre, Flexel®, Flexel®Lite (PU infill) or PU tyre
- » Complete wheels are available with the tyre tread patterns shown below

Description	Pitch diameter mm	Colour rim	 mm	 mm	 mm	 kg	Part no. rim
Split rim without fitting holes for flange hub	-	Silver metallic	315	80/40	38	100	831281
Split rim with 4 x ø8 mm fitting holes for flange hub	63,5	Silver metallic	315	80/40	38	100	831282

## Wheels with pneumatic tyre, Flexel®, or Flexel®Lite (PU infill)



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with 4 x ø8 mm fitting holes for flange hub	841281	851281	861201



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with 4 x ø8 mm fitting holes for flange hub	841283	851283	861202



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with 4 x ø8 mm fitting holes for flange hub	841285	851285	861203



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with 4 x ø8 mm fitting holes for flange hub	841287	851287	861204

## Wheel with polyurethane tyre



Description	Part no. PU tyre
Complete wheels with 4 x ø8 mm fitting holes for flange hub	861211

## Plastic cap for 12½ x 2¼”, 3.00-8” and 3.00-10” aluminium rims



Description	Part no. Silver metallic	Part no. Black
Ø80 x H9 mm	641023	641021

- » Customer's logo and other colours on request

**MBL**  
3.00-8"



# WHEELS WITH ALUMINIUM RIM



## 3.00 - 8" split rim and complete wheels

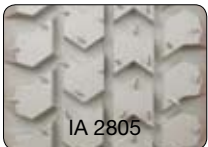
- » Rim sets are complete with screws
- » Rims for customer specified flange hub
- » Cast aluminium
- » Available with pneumatic tyre, Flexel® or Flexel®Lite (PU infill)
- » Complete wheels are available with the tyre tread patterns shown below

Description	Pitch diameter mm	Colour rim	 mm	 mm	 mm	 kg	Part no. rim
Split rim without fitting holes for flange hub	-	Silver metallic	350	80/40	48	100	830881
Split rim with 4 x ø8 mm fitting holes for flange hub	63,5	Silver metallic	350	80/40	48	100	830882

## Wheels with pneumatic tyre, Flexel®, or Flexel®Lite (PU infill)



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with 4 x ø8 mm fitting holes for flange hub - Right	840881	850881	860841
Complete wheels with 4 x ø8 mm fitting holes for flange hub - Left	84088A	85088A	8608A



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with 4 x ø8 mm fitting holes for flange hub	840883	850883	860842

## Plastic cap for 12½ x 2¼", 3.00-8" and 3.00-10" aluminium rims



Description	Part no. Silver metallic	Part no. Black
Ø80 x H9 mm	641023	641021

- » Customer's logo and other colours on request







# WHEELS WITH ALUMINIUM RIM

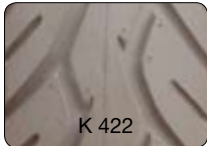


## 3.00 - 10" split rim and complete wheels

- » Rim sets are complete with screws
- » Rims for customer specified flange hub
- » Cast aluminium
- » Available with pneumatic tyre, Flexel® or Flexel®Lite (PU infill)
- » Complete wheels are available with the tyre tread patterns shown below

Description	Pitch diameter mm	Colour rim	 mm	 mm	 mm	 kg	Part no. rim
Split rim without fitting holes for flange hub	-	Silver metallic	410	80/40	54	100	831001
Split rim with 4 x ø8 mm fitting holes for flange hub	60	Silver metallic	410	80/40	54	100	831002

## Wheels with pneumatic tyre, Flexel®, or Flexel®Lite (PU infill)



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with 4 x ø8 mm fitting holes for flange hub - Right	841001	-	861001
Complete wheels with 4 x ø8 mm fitting holes for flange hub - Left	841002	-	861002



Description	Part no. pneumatic	Part no. Flexel®	Part no. Flexel®Lite
Complete wheels with 4 x ø8 mm fitting holes for flange hub - Right	841003	-	861003
Complete wheels with 4 x ø8 mm fitting holes for flange hub - Left	841004	-	861004

## Plastic cap for 12½ x 2¼", 3.00-8" and 3.00-10" aluminium rims



Description	Part no. silver metallic	Part no. black
Ø80 x H9 mm	641023	641021







- » Customer's logo and other colours on request

# WHEELS WITH PLASTIC RIM

## Wheels with keyway and pneumatic tyre or Flexel®

### 7" x 1 3/4" wheel with keyway










 mm	 mm	 mm	 mm	 kg	 g	Part no. pneumatic	Part no. Flexel®
175	45	ø12	32/45	75	550/850	840712	850712



### 8" (200 x 50 mm) wheel with keyway









 mm	 mm	 mm	 mm	 mm	 kg	 g	Part no. pneumatic	Part no. Flexel®
200	50	ø12	49	4	75	570/1000	840812	850812



## Split plastic rims and complete wheels with pneumatic Tyres or Flexel

### 2.50 - 3" split rims and wheels



Rim Colour	 mm	 mm	 mm	 mm	 mm	 kg	Part no. rim
Silver	210	65	ø12	-	38	75	830351
Black	210	65	ø12	-	38	75	830352

- » Rims are complete with screws and nuts
- » Complete wheels are available with the tyre below









Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Silver	840351	850351
Black	840352	850352



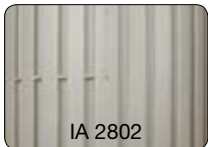
# WHEELS WITH PLASTIC RIM

## 2.80/2.50 - 4" split rims and complete wheels



Rim Colour	 mm	 mm	 mm	 mm	 mm	 kg	Part no. rim
Silver	220	60	ø12	100	54	75	830451
Black	220	60	ø12	100	54	75	830452

- » Rims are complete with screws and nuts
- » Complete wheels are available with the tyres below









Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Silver	840461	850461
Black	840462	850462



Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Silver	840463	850463
Black	840464	850464

## 3.00 - 4" split rim and wheels



Rim colour	 mm	 mm	 mm	 mm	 mm	 kg	Part no. rim
Silver	260	85	ø12	100	54	75	830451
Black	260	85	ø12	100	54	75	830452

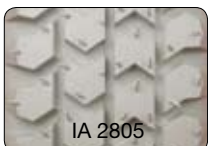
- » Rims are complete with screws and nuts
- » Complete wheels are available with the tyres below



Rim colour	Part no. pneumatic tyre	Part no. Flexel®
Silver	840451	850451
Black	840452	850452



Rim colour	Part no. pneumatic tyre	Part no. Flexel®
Silver	840453	850453
Black	840454	850454



Rim colour	Part no. pneumatic tyre	Part no. Flexel®
Silver	840455	850455
Black	840456	850456







Rim colour	Part no. pneumatic tyre	Part no. Flexel®
Silver	840457	850457
Black	840458	850458

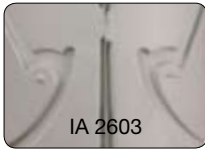
# WHEELS WITH PLASTIC RIM



## 12½" x 2¼" rim with keyway

» Complete wheels available with the shown tyre tread patterns

Rim Colour	 mm	 mm	 mm	 kg	Part no. rim
Black	ø17	55	6	75	111211



**NEW!**







12½" x 2¼" rim  
with keyway

# WHEELS WITH STEEL RIM

Split steel rims, one piece steel rims and complete wheels

## 2.50 - 3" split steel rim and complete wheels



 mm	 mm	 mm	 mm	 mm	 kg	Part no. excl. valve hole	Part no. incl. valve hole
210	65	ø12	85	38	100	830301	830302







- » Rims are complete with screws and nuts
- » Available only in black



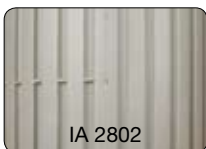
Rim Colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840301	850301

## 2.80/2.50 - 4" split steel rim and complete wheels

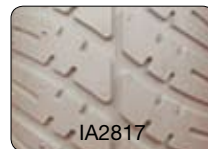


 mm	 mm	 mm	 mm	 mm	 kg	Part no. excl. valve hole	Part no. incl. valve hole
220	60	ø12	100	53	100	830401	830402

- » Rims are complete with screws and nuts
- » Available only in black









Rim colour	Part no. with pneumatic tyre	Part no. with Flexel
Black	840421	850421



Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840422	850422

## 8½" split steel rim and complete wheels



 mm	 mm	 mm	 mm	 mm	 kg	Part no. Rim excl. valve hole	Part no. Rim incl. valve hole
215	50	ø8	60	38	85	830471	830472

- » Rims are complete with screws and nuts
- » Available only in black









Rim Colour	Part no. with pneumatic tyre	Part no. with Flexel
Black	840471	850471

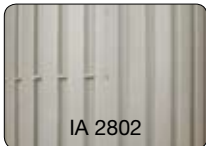
# WHEELS WITH STEEL RIM

## 3.00 - 4" split steel rim and complete wheels



 mm	 mm	 mm	 mm	 mm	 kg	Part no. excl. valve hole	Part no. incl. valve hole
260	85	ø12	100	53	100	830401	830402

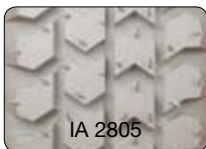
- » Rims are complete with screws and nuts
- » Available only in black



Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840411	850411



Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840412	850412









Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840413	850413



Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840414	850414

## 3.00 - 4" split steel rim and complete wheels



 mm	 mm	 mm	 mm	 mm	 kg	Part no. excl. valve hole	Part no. incl. valve hole
260	85	ø12	100	53	100	830401	830402

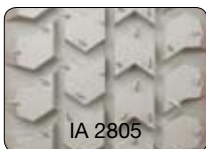
- » Rims are complete with screws and nuts
- » Available only in black



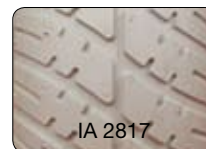
Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840411	850411



Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840412	850412



Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840413	850413









Rim colour	Part no. with pneumatic tyre	Part no. with Flexel®
Black	840414	850414

# WHEELS WITH STEEL RIM



## 4.10/3.50 - 5" one-piece rim

- » Black rim
- » Keyway






Description	 mm	 mm	 mm	 mm	 mm	 kg	Part no.
Black rim excl. valve hole, excl. bearings	280	ø20	35	6	74	100	830501
Black rim incl. valve hole, excl. bearings	280	ø20	35	6	74	100	830502
Black rim excl. valve hole, distance bushing and bearings	280	ø20	88	-	74	100	830511
Black rim incl. valve hole, distance bushing and bearings	280	ø20	88	-	74	100	830512



## 4.10/3.50 - 6" split rim without bearings or keyway - ready for bearings

- » Rims are complete with screws and nuts
- » Black rim
- » Complete wheels are available with the tyre tread pattern shown









Rim colour	 mm	 mm	 mm	 mm	 kg	Part no. Rim excl. valve hole	Part no. Rim incl. valve hole
Black	325	ø47	63	63	100	820621	820622



## 4.10/3.50 - 6" split rim

- » Rims are complete with screws and nuts
- » Black rim
- » Keyway
- » Complete wheels are available with the tyre tread pattern shown



Description	 mm	 mm	 mm	 mm	 mm	 kg	Part no.
Black rim set excl. valve hole, incl. flange hub	325	ø20	67	6	69	100	830601
Black rim set incl. valve hole and flange hub	325	ø20	67	6	69	100	830602
Rim cup excl. valve hole and flange hub	325	ø35,6	-	-	69	100	830603
Rim cup incl. valve hole, excl. flange hub	325	ø35,6	-	-	69	100	830604






# WHEELS WITH STEEL RIM



## 3.00-8" split rim set

- » Rims are complete with screws and nuts
- » Black rim
- » Complete wheels are available with the tyre tread patterns shown

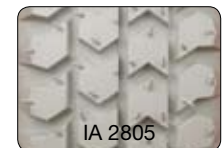








Rim colour	 mm	 mm	 mm	 mm	 kg	Part no. Rim excl. valve hole	Part no. Rim incl. valve hole
Black	350	ø47	63	63	100	820821	820822



## 3.00 - 8" split rim - wide type

- » Rims are complete with screws and nuts
- » Black rim
- » Keyway
- » Complete wheels are available with the tyre tread patterns shown



Description	 mm	 mm	 mm	 mm	 mm	 kg	Part no.
Rim cup excl. valve hole with 6 M10 bolts	350	102	-	6	54	100	820813
Rim cup incl. valve hole with 6 M10 bolts	350	102	-	6	54	100	820814
Rim set excl. valve hole with flange hub - not for drum brake	350	17	50	6	54	100	830841
Rim set excl. valve hole with flange hub - for drum brake	350	17	50	6	54	100	830851
Rim set incl. valve hole with flange hub - not for drum brake	350	17	50	6	54	100	830842
Rim set incl. valve hole with flange hub - for drum brake	350	17	50	6	54	100	830852
Rim set excl. valve hole with flange hub - not for drum brake	350	22	35	6	54	100	830861
Rim set excl. valve hole with flange hub - for drum brake	350	22	35	6	54	100	830871
Rim set incl. valve hole with flange hub - not for drum brake	350	22	35	6	54	100	830862
Rim set incl. valve hole with flange hub - for drum brake	350	22	25	6	54	100	830872

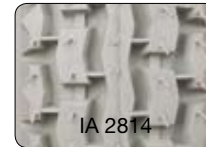
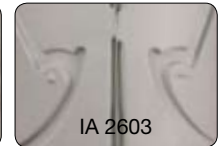








# WHEELS WITH STEEL RIM

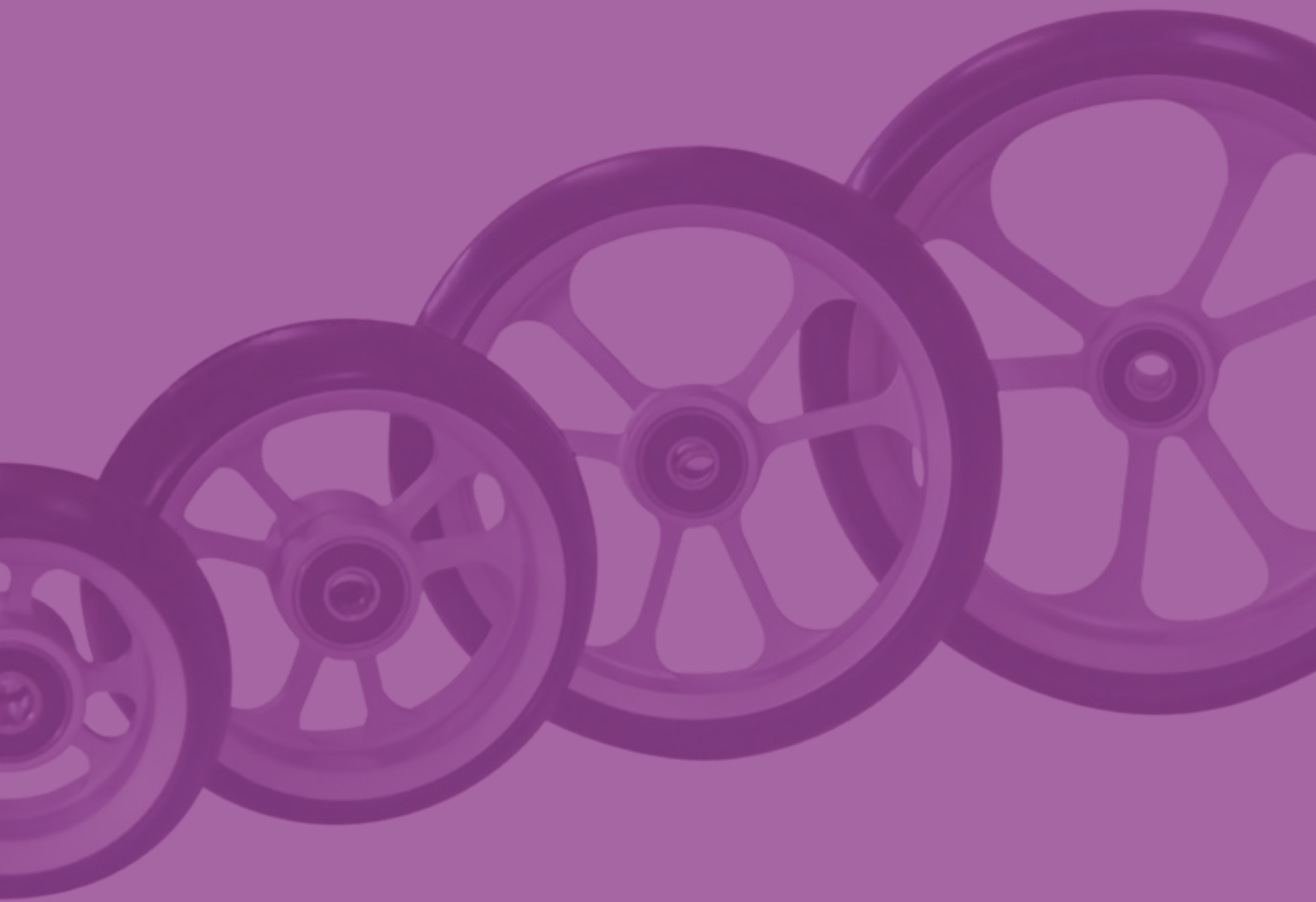


## 12½ x 2¼” split rim

- » Rims are complete with screws and nuts
- » Black rim
- » Keyway
- » Complete wheels are available with the tyre tread patterns shown



Description	 mm	 mm	 mm	 mm	 mm	 kg	Part no.
Rim cup excl. valve hole with 6 M10 bolts	315	102	-	6	36	100	820803
Rim cup incl. valve hole with 6 M10 bolts	315	102	-	6	36	100	820804
Rim set excl. valve hole with flange hub - not for drum brake	315	17	50	6	36	100	830801
Rim set excl. valve hole with flange hub - for drum brake	315	17	50	6	36	100	830811
Rim set incl. valve hole with flange hub - not for drum brake	315	17	50	6	36	100	830802
Rim set incl. valve hole with flange hub - for drum brake	315	17	50	6	36	100	830812
Rim set excl. valve hole with flange hub - not for drum brake	315	22	35	6	36	100	830821
Rim set excl. valve hole with flange hub - for drum brake	315	22	35	6	36	100	830831
Rim set incl. valve hole with flange hub - not for drum brake	315	22	35	6	36	100	830822
Rim set incl. valve hole with flange hub - for drum brake	315	22	25	6	36	100	830832



## PRODUCT GROUP 2

# FRONT & REAR WHEELS 3"-16"

### CONTENT

#### OUR 3"-16" WHEEL PROGRAMME .....28

#### WHEELS WITH SOLID RUBBER TYRE .....29

3" wheels with solid rubber tyre.....	29
4" wheels with solid rubber tyre.....	30
5" wheels with solid rubber tyre.....	33
6" wheels with solid rubber tyre.....	38
7" wheels with solid rubber tyre.....	39
8" wheels with solid rubber tyre.....	40
8" wheels with solid rubber tyre - for rollators.....	41

#### WHEELS WITH POLYURETHANE TYRE.....43

3" and 4" skater wheels with polyurethane tyre.....	43
3" wheels with polyurethane tyre.....	43
4" wheels with polyurethane tyre.....	44
5" wheels with polyurethane tyre.....	45
6" wheels with polyurethane tyre.....	46
7" wheels with polyurethane tyre.....	47
8" wheels with polyurethane tyre.....	49
12" wheels with polyurethane tyre.....	51
12" drumbrake wheels with polyurethane tyre.....	53
16" drumbrake wheels with polyurethane tyre.....	54

#### WHEELS WITH PNEUMATIC TYRES OR FLEXEL® .....55

5" wheels with pneumatic tyres or Flexel®.....	55
6" wheels with pneumatic tyres or Flexel®.....	55
7" wheels with pneumatic tyres or Flexel®.....	57
8" wheels with pneumatic tyres or Flexel®.....	58
10" wheels with pneumatic tyres or Flexel®.....	59
12" wheels with pneumatic tyres or Flexel®.....	60
12" drumbrake wheels with pneumatic tyres or Flexel®.....	61
16" drumbrake wheels with pneumatic tyres or Flexel®.....	62

#### SPACER BUSHES.....63

## OUR 3"-16" WHEEL PROGRAMME

We are proud to present our wide range of small wheels which we develop and improve on a regular basis. If you do not find the exact wheel you are looking for, please do not hesitate to contact our sales personnel - maybe we can develop a wheel for you after your specifications.



### TESTING

All of our wheels are tested in accordance with ISO 7176.

# WHEELS WITH SOLID RUBBER TYRE








- » Puncture-proof and maintenance-free
- » No need to inflate
- » Constant tyre pressure
- » Suitable for indoor use with light manual wheel chairs
- » Moderately shock absorbing
- » Low rolling resistance

## 3" wheels with solid rubber tyre

### 3" (80 x 34 mm) ALUCORE wheel with aluminium rim and wide, round solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
80	34	ø8	26	40	1403A1

» Non-marking material

### 3" (80 x 34 mm) PLASTICORE wheel with aluminium rim and wide, round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
80	34	ø8	26	40	1403P1






» Non-marking material

# WHEELS WITH SOLID RUBBER TYRE

## 4" wheels with solid rubber tyre






### 4" (100 x 22 mm) wheels with aluminium rim and narrow, round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
100	22	ø10	22	40	141435
100	22	ø8	36	40	140437
100	22	ø8	45	40	140439






### 4" (100 x 22 mm) wheel with aluminium rim and narrow, round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
100	22	ø8	25	40	141430
100	22	ø8	36	40	140431
100	22	ø8	45	40	140432






### 4" (100 x 26 mm) wheel with aluminium rim and wide, round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
100	26	ø10	26	40	141437
100	26	ø8	36	40	140447
100	26	ø8	45	40	140449

### 4" (100 x 26 mm) wheel with narrow, round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
100	26	ø10	26	40	141406
100	26	ø8	36	40	140406
100	26	ø8	45	40	140408





# ALUCORE & PLASTICORE

MBL's beautifully designed lightweight PLASTICORE and ALUCORE wheels are designed for high performance wheel chairs.

Both type of wheels are available with none-stain black rubber tyres or PU tyres. Each type of wheels provides very low rolling resistance and high comfort.

Available in sizes 3", 4", 5" and 6".








Elegant, durable  
& high comfort

# WHEELS WITH SOLID RUBBER TYRE

## 4" (100 x 26 mm) wheel with narrow, round solid rubber tyre - black








 mm	 mm	 mm	 mm	 kg	Part no.
100	26	ø10	26	40	141406B
100	26	ø8	36	40	140406B
100	26	ø8	45	40	140408B

» Non-marking material






## 4" (100 x 32 mm) wheel with wide, round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
100	32	ø10	32	40	141426
100	32	ø8	34	40	140425
100	32	ø8	36	40	140426
100	32	ø8	40	40	140427
100	32	ø8	45	40	140428

## 4" (100 x 32 mm) wheel with wide, round solid rubber tyre - black








 mm	 mm	 mm	 mm	 kg	Part no.
100	32	ø10	32	40	141426B
100	32	ø8	34	40	140425B
100	32	ø8	36	40	140426B
100	32	ø8	40	40	140427B
100	32	ø8	45	40	140428B

» Non-marking material

## 4" (100 x 34 mm) ALUCORE wheel with aluminium rim and wide, round solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
100	34	ø8	26	40	1404A1

» Non-marking material

# WHEELS WITH SOLID RUBBER TYRE

## 4" (100 x 34 mm) PLASTICORE wheel with aluminium rim and wide, round solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
100	34	ø8	26	40	1404P1

» Non-marking material

## 5" wheels with solid rubber tyre






### 5" (125 x 22 mm) wheel with aluminium rim and narrow, round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
125	22	ø10	22	40	141535
125	22	ø8	36	40	140527
125	22	ø8	45	40	140539






### 5" (125 x 22 mm) wheel with aluminium rim and narrow, round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
125	22	ø8	25	40	141530
125	22	ø8	36	40	140531
125	22	ø8	45	40	140532

### 5" (125 x 27 mm) wheel with aluminium rim and wide, round solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
125	27	ø10	27	40	141537
125	27	ø8	36	40	140547
125	27	ø8	45	40	140549

# WHEELS WITH SOLID RUBBER TYRE






## 5" (125 x 27 mm) wheel with round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
125	27	ø10	32	40	141504
125	27	ø8	36	40	140576
125	27	ø8	40	40	140577
125	27	ø8	45	40	140578
125	27	ø8	53	40	140579
125	27	ø8	60	40	140580

## 5" (125 x 27 mm) wheel with round solid rubber tyre - black








 mm	 mm	 mm	 mm	 kg	Part no.
125	27	ø10	32	40	141504B
125	27	ø8	36	40	140576B
125	27	ø8	40	40	140577B
125	27	ø8	45	40	140578B
125	27	ø8	53	40	140579B
125	27	ø8	60	40	140580B

» Non-marking material






## 5" (125 x 27 mm) wheel with round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
125	27	ø10	32	40	141506
125	27	ø8	36	40	140506
125	27	ø8	40	40	140555
125	27	ø8	45	40	140508
125	27	ø8	53	40	140556
125	27	ø6	56	40	140557
125	27	ø8	60	40	140558

## 5" (125 x 27 mm) wheel with round solid rubber tyre - black








 mm	 mm	 mm	 mm	 kg	Part no.
125	27	ø10	32	40	141506B
125	27	ø8	36	40	140506B
125	27	ø8	40	40	140555B
125	27	ø8	45	40	140508B
125	27	ø8	53	40	140556B
125	27	ø6	56	40	140557B
125	27	ø8	60	40	140558B

» Non-marking material

# WHEELS WITH SOLID RUBBER TYRE

## 5" (125 x 28 mm) light weight sport wheel with black, flat solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
125	28	ø10	32	40	141526
125	28	ø8	36	40	140526
125	28	ø8	45	40	140528

» Non-marking material

## 5" (125 x 28 mm) light weight wheel with black, flat, medium hard solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
125	28	ø10	32	40	141522
125	28	ø8	36	40	140522
125	28	ø8	45	40	140524

» Non-marking material






## 5" (125 x 29 mm) wheel with flat solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
125	29	ø10	32	40	141514
125	29	ø8	36	40	140581
125	29	ø8	40	40	140582
125	29	ø8	45	40	140583
125	29	ø8	53	40	140584
125	29	ø8	60	40	140585

## 5" (125 x 29 mm) wheel with flat solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
125	29	ø10	32	40	141516
125	29	ø8	36	40	140516
125	29	ø8	40	40	140565
125	29	ø8	45	40	140518
125	29	ø8	53	40	140566
125	29	ø6	56	40	140567
125	29	ø8	60	40	140568

# WHEELS WITH SOLID RUBBER TYRE






## 5" (125 x 34 mm) wheel with flat solid softroller rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
125	34	ø10	32	50	141572
125	34	ø8	36	50	140571
125	34	ø8	40	50	140572
125	34	ø8	45	50	140573
125	34	ø8	53	50	140574
125	34	ø8	60	50	140575

## 5" (125 x 34 mm) ALUCORE wheel with aluminium rim and wide, round solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
125	34	ø8	26	40	1405A1

» Non-marking material

## 5" (125 x 34 mm) PLASTICORE wheel with wide, round solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
125	34	ø8	26	40	1405P1

» Non-marking material

## 5" (125 x 40 mm) wheel with flat solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
125	40	ø10	41	40	141623
125	40	ø8	45	40	140623
125	40	ø8	53	40	140627
125	40	ø8	60	40	140625



# WHEELS WITH SOLID RUBBER TYRE

## 5" (125 x 40 mm) wheel with flat solid rubber tyre - black








 mm	 mm	 mm	 mm	 kg	Part no.
125	40	ø10	41	40	141623B
125	40	ø8	45	40	140623B
125	40	ø8	53	40	140627B
125	40	ø8	60	40	140625B

» Non-marking material






## 5.5" (140 x 40 mm) wheel with round solid softroller rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
140	40	ø10	41	50	141632
140	40	ø8	45	50	140632
140	40	ø8	53	50	140636
140	40	ø8	60	50	140634






## 5.5" (140 x 40 mm) wheel with round solid softroller rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
140	40	ø10	41	50	141622
140	40	ø8	45	50	140622
140	40	ø8	53	50	140626
140	40	ø8	60	50	140624

## 5.5" (140 x 40 mm) wheel with black round solid softroller rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
140	40	ø10	10	50	141622B
140	40	ø8	45	50	140622B
140	40	ø8	53	50	140626B
140	40	ø8	60	50	140624B

» Non-marking material

# WHEELS WITH SOLID RUBBER TYRE

## 5.5" (140 x 40 mm) wheel with off-set hub and round solid softroller rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
140	40	ø12	32/45	50	140628
140	40	ø15	32/45	50	140630

## 6" wheels with solid rubber tyre






### 6" (150 x 27 mm) wheel with narrow, round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
150	27	ø10	32	40	141636
150	27	ø8	45	40	140637
150	27	ø8	53	40	140638
150	27	ø8	60	40	140639






### 6" (150 x 27 mm) wheel with round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
150	27	ø10	32	75	141606
150	27	ø8	36	75	140606
150	27	ø8	40	75	140655
150	27	ø8	45	75	140608
150	27	ø8	53	75	140656
150	27	ø8	56	75	140657
150	27	ø8	60	75	140658

### 6" (150 x 33 mm) wheel with wide, flat solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
150	33	ø10	38	40	141672
150	33	ø8	45	40	140673
150	33	ø8	53	40	140674
150	33	ø8	60	40	140675

# WHEELS WITH SOLID RUBBER TYRE






## 6" (150 x 33 mm) wheel with flat solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
150	33	ø10	32	75	141616
150	33	ø8	36	75	140616
150	33	ø8	40	75	140665
150	33	ø8	45	75	140618
150	33	ø8	53	75	140666
150	33	ø8	56	75	140667
150	33	ø8	60	75	140668

## 6" (150 x 34 mm) ALUCORE wheel with wide, round solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
150	34	ø8	26	40	1406A1

» Non-marking material

## 6" (150 x 34 mm) PLASTICORE wheel with wide, round solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
150	34	ø8	26	40	1406P1

» Non-marking material

## 7" wheels with solid rubber tyre

### 7" (175 x 27 mm) wheel with round solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
175	27	ø10	37	40	141706
175	27	ø8	45	40	140706
175	27	ø8	53	40	140756
175	27	ø8	56	40	140757
175	27	ø8	60	40	140708

# WHEELS WITH SOLID RUBBER TYRE






## 7" (175 x 33 mm) wheel with flat solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
175	33	ø10	37	50	141716
175	33	ø8	45	50	140716
175	33	ø8	53	50	140766
175	33	ø8	56	50	140767
175	33	ø8	60	50	140718

## 7" (175 x 36 mm) wheel with wide, flat solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
175	36	ø10	38	40	141772
175	36	ø8	45	40	140773
175	36	ø8	53	40	140774
175	36	ø8	60	40	140775

## 8" wheels with solid rubber tyre






### 8" (200 x 27 mm) wheel with round solid rubber tyre



 mm	 mm	 mm	 mm	 kg	Part no.
200	27	ø10	37	40	141806
200	27	ø8	45	40	140806
200	27	ø8	53	40	140856
200	27	ø8	56	40	140857
200	27	ø8	60	40	140808

### 8" (200 x 27 mm) wheel with round solid rubber tyre and reinforced spokes








 mm	 mm	 mm	 mm	 kg	Part no.
200	27	ø10	37	50	141808
200	27	ø8	45	50	140873
200	27	ø8	53	50	140874
200	27	ø8	60	50	140875

# WHEELS WITH SOLID RUBBER TYRE

## 8" (200 x 33 mm) wheel with flat solid rubber tyre








 mm	 mm	 mm	 mm	 kg	Part no.
200	33	ø10	37	40	141816
200	33	ø8	45	40	140816
200	33	ø8	53	40	140866
200	33	ø6	56	40	140867
200	33	ø8	60	40	140818

## 8" wheels with solid rubber tyre for rollators

### 8" (200 x 34 mm) front wheel for rollators








 mm	 mm	 mm	 mm	 kg	Part no. excl. fitting set	Part no. incl. fitting set
200	34	ø12	38	40	ROL11H	ROL14Z

- » Material tyre: Black TPR.
- » Material rim: Black PP.
- » Tested in accordance with ISO 11199-2.
- » Fitting set for this wheel includes: 2 x bolts M6x10 (part no. 1910ES), 1 x axis Ø8x50 (part. no. 1910BH), 2 x distance bushings ø8,2 (19253N).

### 8" (200 x 34 mm) rear wheel for rollators



 mm	 mm	 mm	 mm	 kg	Part no. excl. fitting set	Part no. incl. fitting set
200	34	ø12	32	40	ROL11J	ROL14Y

- » Material tyre: Black TPR.
- » Material rim: Black PP.
- » Tested in accordance with ISO 11199-2.
- » Fitting set for this wheel includes: 1 x bolt M12x67 (part no. 1910CX), 1 x distance washer (part. no. 19254R), locking nut M12 (644122), 1 x push cover (part. no. 641005).





150 x 30

112



# WHEELS WITH POLYURETHANE TYRE








- » Puncture-proof and maintenance free
- » No need to inflate
- » Constant tyre pressure
- » Suitable for indoor use with light manual wheel chairs
- » Moderately shock absorbing
- » Low rolling resistance

## Skater wheels with polyurethane tyre

### 3" and 4" skater wheels








 mm	 mm	 mm	 mm	 kg	Part no.
80	24	ø8	24	40	140396
100	24	ø8	24	40	140492
Spacer ø8 x 8 mm for skater wheels with 40 mm hub. Untreated aluminium.					192537
Spacer ø8 x 10 mm for skater wheels with 45 mm hub. Untreated aluminium.					192539

## 3" wheels with polyurethane tyre

### 3" (80 x 34 mm) ALUCORE wheel with wide, round polyurethane tyre








 mm	 mm	 mm	 mm	 kg	Part no.
80	34	ø8	26	40	1503A1

- » Non-marking material

# WHEELS WITH POLYURETHANE TYRE

## 3" (80 x 34 mm) PLASTICORE wheel with wide, round polyurethane tyre








 mm	 mm	 mm	 mm	 kg	Part no.
80	34	ø8	26	40	1503P1

» Non-marking material

## 4" wheels with polyurethane tyre

### 4" (100 x 34 mm) ALUCORE wheel with wide, round polyurethane tyre








 mm	 mm	 mm	 mm	 kg	Part no.
100	34	ø8	26	40	1504A1

» Non-marking material

### 4" (100 x 34 mm) PLASTICORE wheel with wide, round polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
100	34	ø8	26	40	1504P1






» Non-marking material

# WHEELS WITH POLYURETHANE TYRE

## 5" wheels with polyurethane tyre






### 5" (125 x 30 mm) wheel with smooth polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
125	30	ø10	32	40	150552
125	30	ø8	36	40	150511
125	30	ø8	40	40	150512
125	30	ø8	45	40	150513
125	30	ø8	53	40	150514
125	30	ø6	56	40	150515
125	30	ø8	60	40	150516






### 5" (125 x 30 mm) wheel with smooth polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
125	30	ø10	32	40	150551
125	30	ø8	36	40	150501
125	30	ø8	40	40	150502
125	30	ø8	45	40	150503
125	30	ø8	53	40	150504
125	30	ø6	56	40	150505
125	30	ø8	60	40	150506

### 5" (125 x 34 mm) ALUCORE wheel with wide, round polyurethane tyre









 mm	 mm	 mm	 mm	 kg	Part no.
125	34	ø8	26	40	1505A1

» Non-marking material

### 5" (125 x 34 mm) PLASTICORE wheel wide, round polyurethane tyre



 mm	 mm	 mm	 mm	 kg	 g	Part no.
125	34	ø8	26	40	-	1505P1



» Non-marking material

# WHEELS WITH POLYURETHANE TYRE

## 6" wheels with polyurethane tyre






### 6" (150 x 30 mm) wheel with ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
150	30	ø10	32	40	150652
150	30	ø8	36	40	150611
150	30	ø8	40	40	150612
150	30	ø8	45	40	150613
150	30	ø8	53	40	150614
150	30	ø6	56	40	150615
150	30	ø8	60	40	150616






### 6" (150 x 30 mm) wheel with ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
150	30	ø10	32	40	150651
150	30	ø8	36	40	150601
150	30	ø8	40	40	150602
150	30	ø8	45	40	150603
150	30	ø8	53	40	150604
150	30	ø6	56	40	150605
150	30	ø8	60	40	150606

### 6" (150 x 34 mm) ALUCORE wheel with wide, round polyurethane tyre








 mm	 mm	 mm	 mm	 kg	Part no.
150	34	ø8	26	40	1506A1

» Non-marking material

### 6" (150 x 34 mm) PLASTICORE wheel with wide, round polyurethane tyre








 mm	 mm	 mm	 mm	 kg	Part no.
150	34	ø8	26	40	1506P1

» Non-marking material

# WHEELS WITH POLYURETHANE TYRE

## 6" (150 x 40 mm) wheel with 5 spokes and smooth V-shaped polyurethane tyre








 mm	 mm	 mm	 mm	 kg	Part no.
150	40	ø10	32	40	15060J
150	40	ø8	45	40	15060D
150	40	ø8	53	40	15060K
150	40	ø8	60	40	15060L

## 7" wheels with polyurethane tyre






### 7" (175 x 40 mm) wheel with 7 spokes and smooth V-shaped polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
175	40	ø10	32	40	15070J
175	40	ø8	53	40	15070K
175	40	ø8	60	40	15070L






### 7" (175 x 43 mm) wheel with smooth polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
175	43	ø8	53	50	150719
175	43	ø8	60	50	150720

### 7" (175 x 45 mm) wheel with ribbed polyurethane tyre








 mm	 mm	 mm	 mm	 kg	Part no.
175	45	ø8	53	50	150732
175	45	ø6	56	50	150734
175	45	ø8	60	50	150736

# WHEELS WITH POLYURETHANE TYRE






7" (175 x 45 mm) wheel with ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
175	45	ø8	53	50	150722
175	45	ø6	56	50	150724
175	45	ø8	60	50	150726






7" (175 x 45 mm) wheel with ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
175	45	ø8	53	60	150712
175	45	ø6	56	60	150714
175	45	ø8	60	60	150716





7" (175 x 45 mm) wheel with off set hub and ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
175	45	ø12	32/45	50	150738
175	45	ø15	32/45	50	150740

7½" (190 x 29 mm) wheel with narrow, smooth/ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.	Part no.
190	29	ø8	45	40	Grey rim - Grey tyre	150741
190	29	ø8	45	40	Black rim - Grey tyre	150742
190	29	ø8	45	40	Black rim - Black tyre	150743
190	29	ø8	53	40	Grey rim - Grey tyre	150744
190	29	ø8	53	40	Black rim - Grey tyre	150745
190	29	ø8	53	40	Black rim - Black tyre	150746








# WHEELS WITH POLYURETHANE TYRE

## 8" wheels with polyurethane tyre






### 8" (200 x 30 mm) wheel with narrow, ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
200	30	ø10	37	40	150851
200	30	ø8	45	40	150802
200	30	ø8	53	40	150803
200	30	ø6	56	40	150804
200	30	ø8	60	40	150805






### 8" (200 x 40 mm) wheel with 7 spokes and smooth V-shaped polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
200	40	ø10	37	40	15080J
200	40	ø8	53	40	15080K
200	40	ø8	60	40	15080L






### 8" (200 x 45 mm) wheel with smooth polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
200	45	ø8	53	50	150819
200	45	ø8	60	50	150820

### 8" (200 x 50 mm) wheel with ribbed polyurethane tyre








 mm	 mm	 mm	 mm	 kg	Part no.
200	50	ø8	53	50	150832
200	50	ø6	56	50	150834
200	50	ø8	60	50	150836

# WHEELS WITH POLYURETHANE TYRE






8" (200 x 50 mm) wheel with ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
200	50	ø8	53	50	150822
200	50	ø6	56	50	150824
200	50	ø8	60	50	150826






8" (200 x 50 mm) wheel with ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
200	50	ø8	53	60	150812
200	50	ø8	56	60	150814
200	50	ø8	60	60	150816






8" (200 x 50 mm) wheel with closed rim and ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
200	50	ø8	60	50	150855

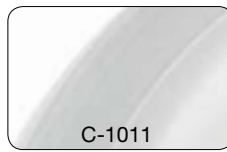
8" (200 x 50 mm) wheel with off-set hub and ribbed polyurethane tyre



 mm	 mm	 mm	 mm	 kg	Part no.
200	50	ø12	53	50	150838
200	50	ø15	56	50	150840






# WHEELS WITH POLYURETHANE TYRE

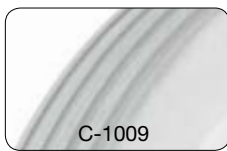
## 12" wheels with polyurethane tyre



### 12" wheel with grey polyurethane tyre C-1011






» Wheel with off-set hub is available with fixed bolt or QR axle. Please state on order.

Figure	Description	 mm	 mm	 mm	 mm	 kg	Part no.
1	Complete wheel with off-set hub	Ø300	37/48	ø12	45	50	151202
2	Complete wheel with symmetric hub	Ø300	55	ø12	45	50	151204



### 12" wheel with grey polyurethane tyre C-1009






» Wheel with off-set hub is available with fixed bolt or QR axle. Please state on order.

Figure	Description	 mm	 mm	 mm	 mm	 kg	Part no.
1	Complete wheel with off-set hub	Ø315	37/48	ø12	42	50	151281
2	Complete wheel with symmetric hub	Ø315	55	ø12	42	50	151282

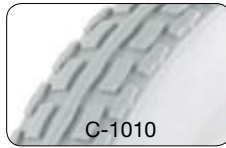


### 12" wheel with grey polyurethane tyre C-1005

» Wheel with off-set hub is available with fixed bolt or QR axle. Please state on order.






Figure	Description	 mm	 mm	 mm	 mm	 kg	Part no.
1	Complete wheel with off-set hub	Ø315	37/48	ø12	50	50	151285
2	Complete wheel with symmetric hub	Ø315	55	ø12	50	50	151286

# WHEELS WITH POLYURETHANE TYRE



## 12" wheel with grey polyurethane tyre C-1010






» Wheel with off-set hub is available with fixed bolt or QR axle. Please state on order.

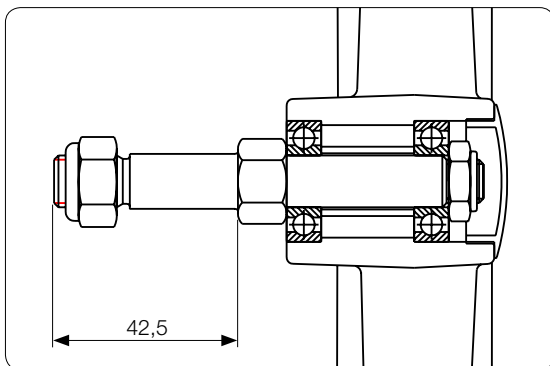
Figure	Description	 mm	 mm	 mm	 mm	 kg	Part no.
1	Complete wheel with. off set hub	Ø320	37/48	ø12	47	50	151283
2	Complete wheel with symmetric hub	Ø320	55	ø12	47	50	151284



## 12" ultra light wheel with grey polyurethane tyre C-1009

» Wheel with off-set hub is available with fixed bolt or QR axle. Please state on order.

Figure	Description	 mm	 mm	 mm	 mm	 kg	Part no.
1	Complete wheel with off-set hub excl. bolt	Ø315	37/48	ø12	39	50	151233
2	Complete wheel with off-set hub incl. M12 bolt	Ø315	37/48	Ø½"	39	50	151244



## Fixed axle bolt ø½" galvanized steel - standard on 12" and 16" wheels (not drum brake wheels)

Specifications	Part no.
M12/ø½" x 42 mm threaded spindle	642137





# WHEELS WITH POLYURETHANE TYRE

## 12" Drum brake wheels with polyurethane tyres



### 12" drum brake wheel with M12 fixed bolt and various options for grey polyurethane tyre






- » M12 x 47mm fixed bolt is standard
- » Quick-release axle or  $\varnothing 1/2$ " bolt is available on request
- » Please refer to product group 4 for other types of tyres
- » "Old" type rim

Description	 mm	 mm	 mm	 kg	Part no. Side A	Part no. Side B
Complete wheels incl.PU tyre C-1011	Ø300	45	M12	75	151251	151252
Complete wheels incl.PU tyre C-1009	Ø315	42	M12	75	151271	151272
Complete wheels incl.PU tyre C-1005	Ø315	50	M12	75	151273	151274
Complete wheels incl.PU tyre C-1010	Ø320	42	M12	75	151275	151276



### 12" drum brake wheel with M12 fixed bolt and two options for grey polyurethane tyres.

- » M12 x 47mm fixed bolt is standard
- » Quick-release axle or  $\varnothing 1/2$ " bolt is available on request
- » Please refer to product group 4 for other types of tyres
- » New type rim with square spokes - wider and stronger than the original type

Description	 mm	 mm	 mm	 kg	 g	Part no. Side A	Part no. Side B
Complete wheels incl.grey PU tyre T56-203	330	56	M12	75	75	151221	151222
Complete wheels incl.grey PU tyre C-1012	300	46	M12	75	75	151223	151224








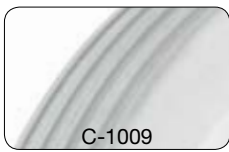
# WHEELS WITH POLYURETHANE TYRE



## 12" drum brake wheel with M12 fixed bolt and low polyurethane tyre

- » Quick-release axle or  $\varnothing 1/2"$  bolt is available on request
- » M12 x 47mm fixed bolt is standard

Description	 mm	 mm	 mm	 kg	 g	Part no. Side A	Part no. Side B
Complete wheels incl. grey PU tyre C-1009	Ø315	39	M12	-	75	151255	151256
Complete wheels incl. black PU tyre C-1009	Ø315	39	M12	-	75	151267	151268







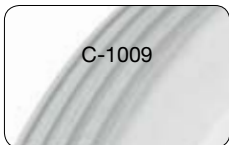
## 16" Drum brake wheels with polyurethane tyres



## 16" drum brake wheel with M12 fixed bolt and two options for grey polyurethane tyres.

- » M12 x 47mm fixed bolt is standard
- » Quick-release axle or  $\varnothing 1/2"$  bolt is available on request
- » Please refer to product group 4 for other types of tyres
- » New type rim with square spokes - wider and stronger than the original type

Description	 mm	 mm	 mm	 kg	Part no. Side A	Part no. Side B
Complete wheels incl. grey PU tyre C-1009	405	44	M12	75	151653	151654





# WHEELS WITH PNEUMATIC TYRE OR FLEXEL®








## FLEXEL:

- » 100% puncture-proof tyre
- » Shock absorbing
- » Low rolling resistance

## 5" wheels with pneumatic tyre or Flexel®

### 5" (125 x 30 mm) wheel with aluminium rim








 mm	 mm	 mm	 mm	 kg	Part no. pneumatic
125	30	ø8	26	40	160511
125	30	ø8	39	40	160514

## 6" wheels with pneumatic tyre or Flexel®

### 6" (150 x 30 mm) wheel with pneumatic tyre



 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
150	30	ø10	32	40	160652	-
150	30	ø8	36	40	160602	-
150	30	ø8	40	40	160607	-
150	30	ø8	45	40	160603	-
150	30	ø8	56	40	160604	-
150	30	ø6	53	40	160608	-
150	30	ø8	60	40	160606	-

## Design according to YOUR specifications...

If you are looking for something special, then please keep in mind that MBL offers to manufacture customized solutions.






Please contact our sales personnel and discuss your ideas with us.



# WHEELS WITH PNEUMATIC TYRE OR FLEXEL®

## 6" (150 x 30 mm) wheel with Flexel








 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
150	30	ø10	32	40	-	170652
150	30	ø8	36	40	-	170602
150	30	ø8	40	40	-	170607
150	30	ø8	45	40	-	170603
150	30	ø8	56	40	-	170608
150	30	ø6	53	40	-	170604
150	30	ø8	60	40	-	170606

## 7" wheels with pneumatic tyre or Flexel®






### 7" (175 x 45 mm) wheel



 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
175	45	ø8	53	50	160732	170732
175	45	ø6	56	50	160734	170734
175	45	ø8	60	50	160736	170736






### 7" (175 x 45 mm) wheel



 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
175	45	ø8	53	50	160722	170722
175	45	ø6	56	50	160724	170724
175	45	ø8	60	50	160726	170726

### 7" (175 x 45 mm) wheel with split rim








 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
175	45	ø8	53	70	160712	170712
175	45	ø6	56	70	160714	170714
175	45	ø8	60	70	160716	170716

# WHEELS WITH PNEUMATIC TYRE OR FLEXEL®

## 7" (175 x 45 mm) wheel with off-set hub








 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
175	45	ø12	32/45	50	160738	170738
175	45	ø15	32/45	50	160740	170740

## 8" wheels with pneumatic tyre or Flexel®






### 8" (200 x 30 mm) wheel



 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
200	30	ø10	37	40	160852	170852
200	30	ø8	45	40	160802	170802
200	30	ø8	53	40	160806	170806
200	30	ø6	56	40	160807	170807
200	30	ø8	60	40	160804	170804






### 8" (200 x 50 mm) wheel



 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
200	50	ø8	53	50	160832	170832
200	50	ø6	56	50	160834	170834
200	50	ø8	60	50	160836	170836

### 8" (200 x 50 mm) wheel








 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
200	50	ø8	53	50	160822	170822
200	50	ø6	56	50	160824	170824
200	50	ø8	60	50	160826	170826

# WHEELS WITH PNEUMATIC TYRE OR FLEXEL®






## 8" (200 x 50 mm) wheel with split rim



 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
200	50	ø8	53	75	160812	170812
200	50	ø6	56	75	160814	170814
200	50	ø8	60	75	160816	170816






## 8" (200 x 50 mm) wheel with off-set hub



 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
200	50	ø12	32/45	50	160838	170838
200	50	ø15	32/45	50	160840	170840

## 8½" (215 x 50 mm) wheel








 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel®
215	50	ø8	60	60	160846	-

## 10" wheels with pneumatic tyre or Flexel®

### 10" (250 x 50 mm) wheel with off-set hub








 mm	 mm	 mm	 mm	 kg	Part no. pneumatic	Part no. Flexel
250	50	ø12	40/50	60	161004	171004

» Fixed bolt or QR axle is available on request

# WHEELS WITH PNEUMATIC TYRE OR FLEXEL®

## 10" (250 x 50 mm) wheel with symmetric hub








					<b>Part no. pneumatic</b>	<b>Part no. Flexel®</b>
mm	mm	mm	mm	kg		
250	50	ø12	55	60	161002	171002

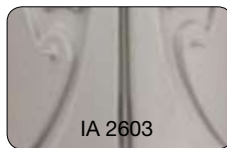
## 12" wheels with pneumatic tyre or Flexel®



### 12½" x 2¼" wheel with grey tyre IA 2601






- » Fixed bolt or QR axle is available on request for fig.1
- » Please see product group 4 for other types of tyres

Figure	Description						Part no. pneu.	Part no. Flexel®
		mm	mm	mm	mm	kg		
1	Complete wheel with. off set hub	ø305	37/48	ø12	47	50	161202	171202
2	Complete wheel with symmetric hub	ø305	55	ø12	47	50	161204	171204



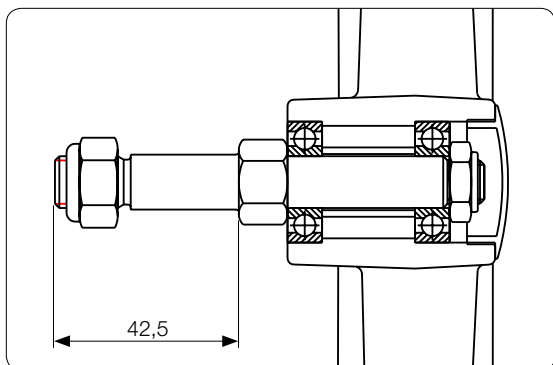
### 12½" x 2¼" wheel with grey tyre IA 2603

- » Fixed bolt or QR axle is available on request for fig.1
- » Please see chapter 4 for other types of tyres

Figure	Description						Part no. pneu.	Part no. Flexel®
		mm	mm	mm	mm	kg		
1	Complete wheel with. off set hub	ø310	37/48	ø12	45	50	161206	171206
2	Complete wheel with symmetric hub	ø310	55	ø12	45	50	161208	171208



# WHEELS WITH PNEUMATIC TYRE OR FLEXEL®



Fixed axle bolt  $\varnothing\frac{1}{2}$ " galvanized steel - standard on 12" and 16" wheels (not drum brake wheels)





Specifications	Part no.
M12/ $\varnothing\frac{1}{2}$ " x 42 mm threaded spindle	642137

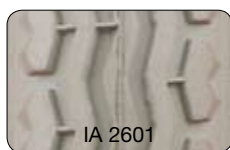
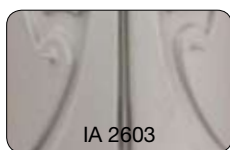
## 12" drum brake wheels with pneumatic tyre or Flexel®



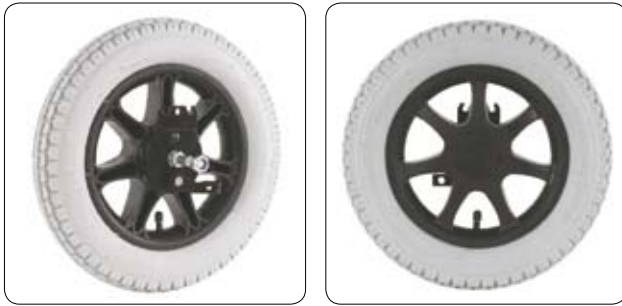
12 ½" x 2¼" drum brake wheel with M12 mm fixed bolt and various options for grey tyres

- » M12 x 47mm fixed bolt is standard
- » Quick-release axle or  $\varnothing\frac{1}{2}$ " bolt is available on request
- » Please refer to product group 4 for other types of tyres
- » Original type of rim

Description					Part no. pneumatic		Part no. Flexel®	
	mm	mm	mm	kg	side A	side B	side A	side B
Complete wheels incl. IA 2601	Ø310	47	M12	-	161251	161252	171251	171252
Complete wheels incl. IA 2603	Ø310	57	M12	-	161273	161274	171273	171274
Complete wheels incl. IA 2814	Ø330	57	M12	-	161275	161276	171275	171276







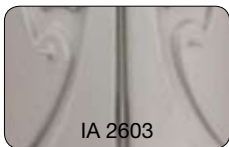
# WHEELS WITH PNEUMATIC TYRE OR FLEXEL®



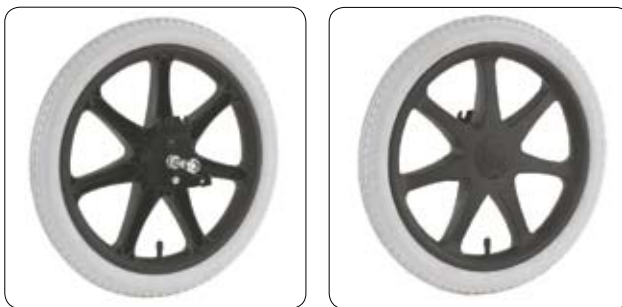
**12 1/2" x 2 1/4" drum brake wheel with M12 fixed bolt and three options for grey tyres.**

- » M12 x 47mm fixed bolt is standard
- » Quick-release axle or Ø1/2" bolt is available on request
- » Please refer to product group 4 for other types of tyres
- » New type of rim with square spokes - wider and stronger than the original type

Description					Part no. pneumatic		Part no. Flexel®	
	mm	mm	mm	kg	side A	side B	side A	side B
Complete wheels incl. IA 2601	Ø310	47	M12	-	161291	161292	171291	171292
Complete wheels incl. IA 2603	Ø310	57	M12	-	161293	161294	171293	171294
Complete wheels incl. IA 2814	Ø330	57	M12	-	161295	161296	171295	171296








## 16" drum brake wheels with pneumatic tyre or Flexel®



**16" drum brake wheel with M12 fixed bolt and tyre IA 2601.**

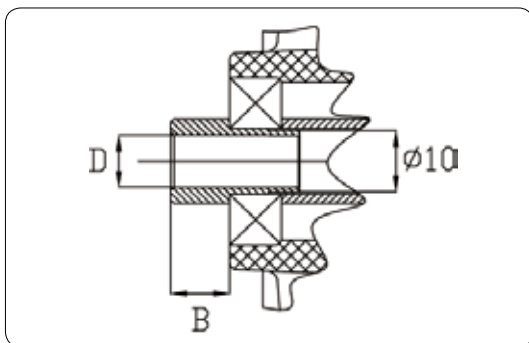
- » M12 x 47mm fixed bolt is standard
- » Quick-release axle or Ø1/2" bolt is available on request
- » Please refer to product group 4 for other types of tyres
- » New type of rim with square spokes - wider and stronger than the original type

Description						Part no. pneumatic		Part no. Flexel®	
	mm	mm	mm	kg	g	side A	side B	side A	side B
Complete wheels incl. IA 2601	Ø395	400	47	-	-	161632	161634	171632	171634



# SPACER BUSHES

## Spacer bushes



### Spacer bushes for small wheels

- » To match the correct hub width to fork width
- » For ø10 mm axles
- » Part. numbers are for packings with 200 pcs
- » Minimum order is 200 pcs. per order



### Choice of spacer bushes for all hub widths:

mm	26 mm			32 mm			37 mm		
	B	D = 6	D = 8	B	D = 6	D = 8	B	D = 6	D = 8
36	5	19406E	19408E	2	19406B	19408B	-	-	-
37	-	-	-	-	-	-	-	-	-
38	6	19406F	19408F	3	19406C	19408C	-	-	-
39	-	-	-	-	-	-	1	19406A	19408A
40	7	19406G	19408G	4	19406D	19408D	-	-	-
41	-	-	-	-	-	-	2	19406B	19408B
42	8	19406H	19408H	5	19406E	19408E	-	-	-
43	-	-	-	-	-	-	3	19406C	19408C
44	9	19406I	19408I	6	19406F	19408F	-	-	-
45	-	-	-	-	-	-	4	19406D	19408D
46	10	19406J	19408J	7	19406G	19408G	-	-	-
47	-	-	-	-	-	-	5	19406E	19408E
48	11	-	-	8	-	-	-	-	-
49	-	-	-	-	-	-	6	19406F	19408F
50	12	-	19408L	9	19406I	19408I	-	-	-
51	-	-	-	-	-	-	7	19406G	19408G
52	13	19406M	-	10	19406J	19408J	-	-	-
53	-	-	-	-	-	-	8	19406H	19408H
54	14	19406N	19408N	11	19406K	19408K	-	-	-
55	-	-	-	-	-	-	9	-	19408I
56	-	-	-	12	*19406L	19408L	9,5	*19406I	-
67	-	-	-	-	-	-	10	19406J	19408J
58	-	-	-	13	19406M	-	-	-	-
59	-	-	-	-	-	-	11	19406K	19408K
60	-	-	-	14	19406N	19408N	-	-	-
61	-	-	-	-	-	-	12	19406L	19408L



PRODUCT GROUP 3  
**REAR WHEELS 16"-36"**

**CONTENT**

<b>BASIC WHEELS .....</b>	<b>67</b>
Transfer .....	68
Budget .....	69
Economy .....	70
Economy Extra .....	71
Plastic .....	74
<b>WHEELS FOR HEAVY USERS .....</b>	<b>75</b>
Buffalo 2 .....	76
Buffalo 3 .....	77
Buffalo 3 Plus .....	78
<b>DRUM BRAKE WHEELS AND BRAKE PLATES .....</b>	<b>79</b>
Drum Brake - Economy .....	80
Drum Brake - Economy Extra .....	81
Drum Brake - Heavy Duty .....	83
Drum Brake - Octopus .....	84
Drum Brake - Plastic .....	86
Brake plates for drum brake hubs.....	87
<b>ONE ARM DRIVE WHEELSETS AND TELESCOPIC SHAFTS.....</b>	<b>89</b>
One arm drive wheelset for cambering with QR axle .....	91
One arm drive wheelset for cambering.....	92
One arm drive wheelset with drum brake (for Cambering) .....	93
Std. telescopic shaft w/ universal joint and hexagonal cone for cambering ....	94
Economy telescopic shaft with hexagonal cone - not for cambering ..	94
<b>LIGHT WEIGHT WHEELS .....</b>	<b>95</b>
Ultralight - RIO 890T.....	97
Ultralight - RIO 930S.....	98
Ultralight - RIO 1000S.....	100
<b>FIBRE SPOKE WHEELS .....</b>	<b>101</b>
Fibre spoke technology .....	102
Tensio® Lightweight.....	105
Tensio® Standard .....	107
Tensio® Heavy Duty .....	109
Pushrims, tyres and tubes we recommend for Tensio® wheels .....	110
<b>SPECIAL WHEELS .....</b>	<b>112</b>
Defence.....	113
Attack .....	114
Pushrims, tyres and tubes we recommend for Attack and Defence .	115
Hurricane 6 x 3.....	116
Octopus 7 x 2 .....	119
Octopus 9 x 2 .....	120
Octopus 30 .....	121
Octopus with centre brake .....	123
Tristar .....	124
Tristar with centre brake .....	125
Tristar with integrated pushrim .....	126
Tristar with centre brake and integrated pushrim .....	127
Off-Road Challenger.....	128
Combo .....	129
Jumbo.....	130
Draisine .....	131



## OUR 16”-36” WHEEL PROGRAMME

We are proud to present our wide range of small wheels which we develop and improve on a regular basis.

If you do not find the exact wheel you are looking for, please do not hesitate to contact our sales personnel - maybe we can develop a wheel for you after your specifications.



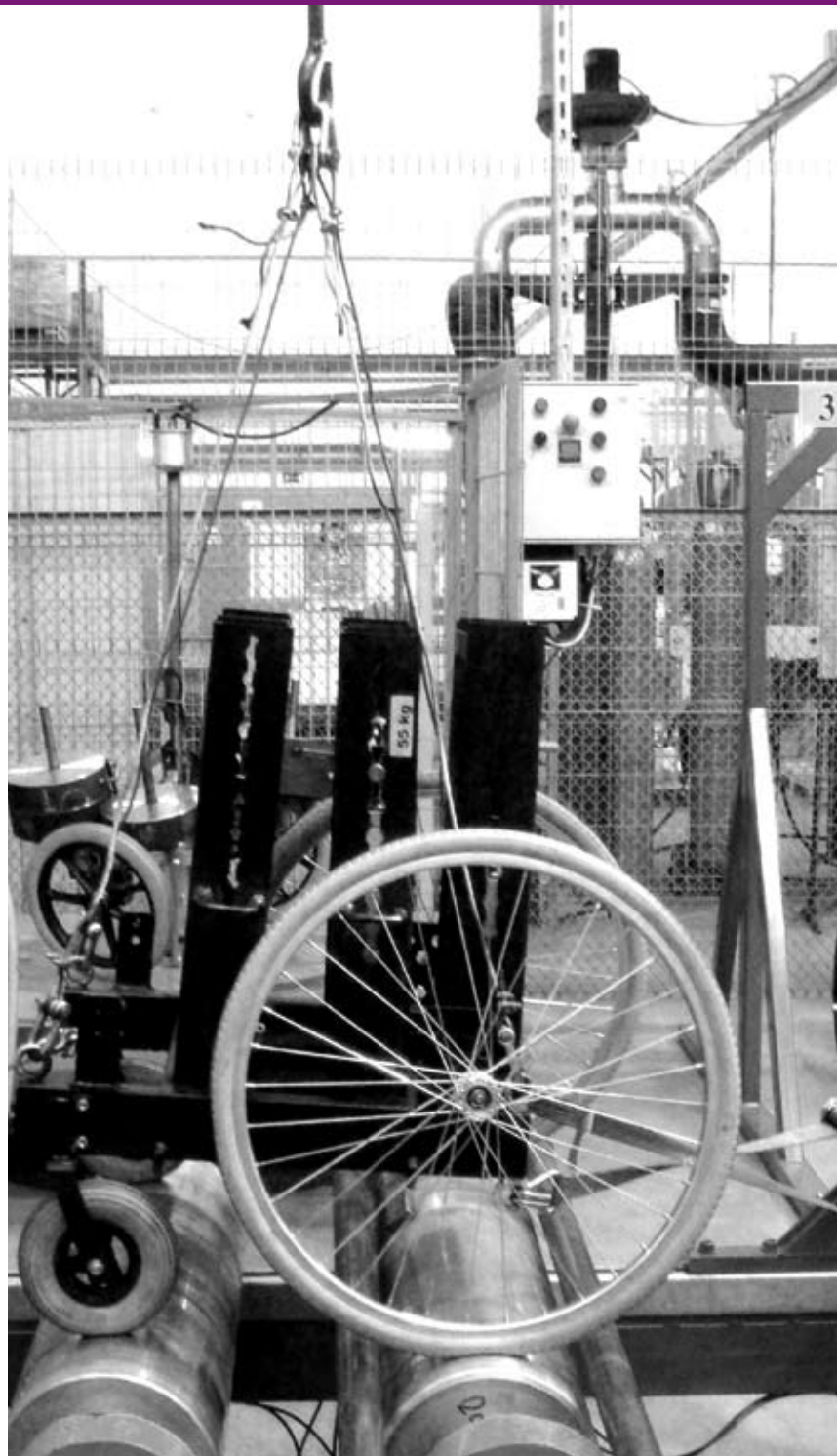
## TESTING

All wheels are tested in accordance with ISO 7176.

All tests of wheels are done in our own test rooms on machines developed in MBL.

The basic test for all wheel types is a double drum test where the wheels have to endure 200.000 cycles. The load depends on which wheel we are testing and our customers requirements.

If it is required by our customers we also do a drop test where the wheels have to endure 7000 cycles. We furthermore offer to carry out carousel tests where the wheels have to endure 100.000 cycles. The load depends on the type of wheel and customer requirements.







**MBL**

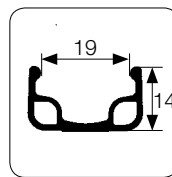
BASIC WHEELS

# BASIC WHEELS

## TRANSFER (24")



PU tyre  
26-559  
Grey or Black



Rim type  
SW1



Black KTL  
steel hub,  
2 crosses



Pushrim fitting  
with 6 rivnuts

24"/Ø559 mm rim with low PU tyres

### Complete wheel - incl. pushrim and grey or black PU tyre

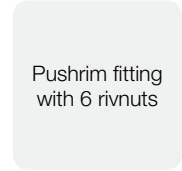
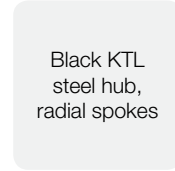
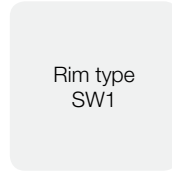
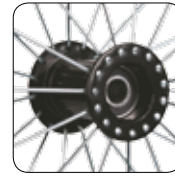
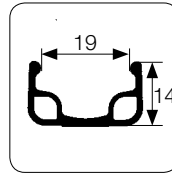
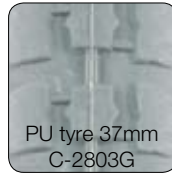
Colour alu.rim/steel hub	 mm	 mm	 mm	No. of spokes	Pushrim	 kg	Part no. grey PU tyre	Part no. black PU tyre
Silver/Black KTL	ø12	53	59	24	Silver anodized aluminium (glued)	75	284ABX	284AC9

### Options and features

- » Suitable for transfer wheel chairs and alike
- » Can be fitted with fixed bolt or QR axle

# BASIC WHEELS

## BUDGET (24")



24"/Ø540 mm

### Complete wheel - incl. pushrim and grey tyre

Colour alu.rim/steel hub	 mm	 mm	 mm	No. of spokes	Pushrim	 kg	Part no. pneumatic	Part no. grey PU tyre
Untreated/ Black KTL	ø12	48	59	30	Silver anodized aluminum (glued)	75	264AC5	284AC5

### Options and features

- » Can be fitted with fixed bolt or QR axle
- » Other wheel sizes available on request



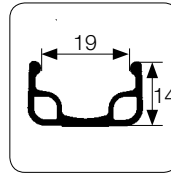
Every week thousands of wheels are manufactured in our production facilities in Poland and China. High volumes and efficient production processes allow us to offer you our basic wheels at competitive prices.

# BASIC WHEELS

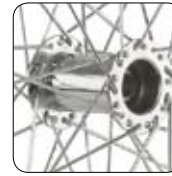
## ECONOMY (22" –24")



INNOVA  
IA 2205  
37mm



Rim type  
SW1









Steel hub  
galvanized steel  
spokes  
3 crosses




Pushrim fitting  
with 6 rivnuts

22"/Ø501 mm

### Bare wheels - excl. tyre and pushrim







Colour alu.rim/steel hub	Hub type	 mm	 mm	 mm	 fittings	 g	 kg	Part no.
Silver/Galvanized	F1	ø12	48	59	6	-	75	232APA

### Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel®


Colour alu.rim/steel hub	 mm/°	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Galvanized	36	36	Black plastic	37-501	262APA	272APA
Silver/Galvanized	36	36	Black powder-coated steel	37-501	262APF	272APF

24"/Ø540 mm

### Bare wheels - excl. tyre and pushrim

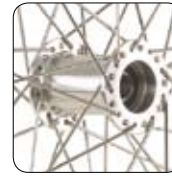
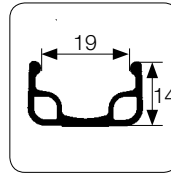
Colour alu.rim/steel hub	Hub type	 mm	 mm	 mm	 fittings	 g	 kg	Part no.
Silver/Galvanized	F1	ø12	48	59	6	-	75	234APA

### Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel®

Colour alu.rim/steel hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/ Galvanized	ø12	36	Black plastic	37-540	264APA	274APA
Silver/Galvanized	ø12	36	Black powder-coated steel	37-540	264APL	274APL
Silver/Galvanized	ø12	36	Chromed steel	37-540	264APG	274APG
Silver/Galvanized	ø12	36	Silver anodized aluminium (glued)	37-540	264APM	274APM

# BASIC WHEELS

## ECONOMY EXTRA (16" –26")



INNOVA  
IA 2205  
37mm

Rim type  
SW1

Alu hub  
Stainless steel  
spokes  
3 crosses

Pushrim fitting  
with 6 rivnuts

### 16"/Ø305 mm

#### Bare wheels - excl. tyre and pushrim

Colour alu. rim/alu. hub	Hub type	mm	mm	mm	fittings	g	kg	Part no.
Silver/Silver	F2	ø12	48	59	4	-	75	241601

#### Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel®

Colour alu. rim/alu. hub	mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	28	Black powder-coated aluminium	47-305	261601	271601

### 17"/Ø357 mm

#### Bare wheels - excl. tyre and pushrimw wheels - excl.tyre and pushrim

Colour alu. rim/alu. hub	Hub type	mm	mm	mm	fittings	g	kg	Part no.
Silver/Silver	F2	ø12	48	59	4	-	75	241701







#### Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel®

Colour alu. rim/alu. hub	mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black powder-coated aluminium	32-357	261701	271701


# BASIC WHEELS

## 18"/Ø400 mm

### Bare wheels - excl. tyre and pushrim







Colour alu. rim/alu. hub	Hub type	 mm	 mm	 mm	 fittings	 g	 kg	Part no.
Silver/Silver	F2	ø12	48	59	4	-	75	241801

### Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel®


Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black powder-coated aluminium	37-400	261801	271801
Silver/Silver	ø12	36	Silver anodized aluminium	37-400	261802	271802

## 20"/Ø451 mm

### Bare wheels - excl. tyre and pushrim







Colour alu. rim/alu. hub	Hub type	 mm	 mm	 mm	 fittings	 g	 kg	Part no.
Silver/Silver	F2	ø12	48	59	4	-	75	242001
Black/Black	F2	ø12	48	59	4	-	75	242004

### Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel®

Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-451	262002	272002
Silver/Silver	ø12	36	Black powder-coated aluminium	37-451	262003	272003
Silver/Silver	ø12	36	Silver anodized aluminium	37-451	262004	272004

## 22"/Ø489 mm


### Bare wheels - excl. tyre and pushrim

Colour alu. rim/alu. hub	Hub type	 mm	 mm	 mm	 fittings	 g	 kg	Part no.
Silver/Silver	F2	ø12	48	59	6	-	75	242201
Black/Black	F2	ø12	48	59	6	-	75	242204









# BASIC WHEELS

## Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel®


Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-489	262202	272202
Silver/Silver	ø12	36	Black powder-coated aluminium	37-489	262203	272203
Silver/Silver	ø12	36	Silver anodized aluminium	37-489	262204	272204

### 24"/Ø540 mm

## Bare wheels - excl. tyre and pushrim







Colour alu. rim/alu. hub	Hub type	 mm	 mm	 mm	 fittings	 g	 kg	Part no.
Silver/Silver	F2	ø12	48	59	6	-	75	242401
Black/Black	F2	ø12	48	59	6	-	75	242404

## Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel®


Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-540	262402	272402
Silver/Silver	ø12	36	Black powder-coated aluminium	37-540	262403	272403
Silver/Silver	ø12	36	Silver anodized aluminium	37-540	262404	272404

### 26"/Ø590 mm

## Bare wheels - excl. tyre and pushrim

Colour alu. rim/alu. hub	Hub type	 mm	 mm	 mm	 fittings	 g	 kg	Part no.
Silver/Silver	F2	ø12	48	59	6	-	75	242601
Black/Black	F2	ø12	48	59	6	-	75	242604

## Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel®

Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black powder-coated aluminium	37-590	262601	272601
Silver/Silver	ø12	36	Silver anodized aluminium	37-590	262602	272602

# BASIC WHEELS

## PLASTIC (24")



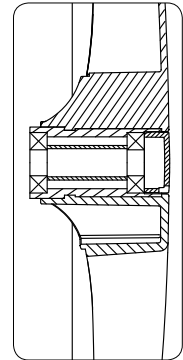
INNOVA Tyre  
IA 2205  
37 mm



PU Tyre  
C-2803G









Hub  
back




24"/Ø540 mm with 53/64mm hub

### Bare wheels with 7 spokes - excl. tyre and pushrim

rim/hub	 mm/"	 mm	 mm	 fittings	 g	 kg	Part no.
Black plastic rim/hub with 7 spokes	ø12	53	64	7	-	75	234P11
Black plastic rim/hub with 7 spokes	ø½"	53	64	7	-	75	234P61

### Complete wheels - incl. pushrim, incl. or excl. pneumatic or PU tyre

 mm/"	No. of spokes	Pushrim	Part no. excl. Tyre	Part no. incl. Tyre and Tube 37mm IA2205	Part no. incl. PU Tyre 37MM C-2803G
ø12	7	Black plastic	254P11	264P11	284P11
ø12	7	Black powder coated aluminum	254P12	264P12	284P12
ø12	7	Silver anodized aluminium	254P13	264P13	284P13
ø½"	7	Black plastic	254P61	264P61	284P61
ø½"	7	Black powder coated aluminum	254P62	264P62	284P62
ø½"	7	Silver anodized aluminium	254P63	264P63	284P63

## Recommendations

### Plastic cap



Description	Part no.
Plastic cap	19300E

- » The plastic cap is a spare part
- » Available with bolt set
- » Bolt-sets and QR-sets for the plastic wheels can be found in product group 6 "Hubs, QR- axles and Bushings"



**MBL**

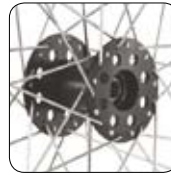
WHEELS FOR  
HEAVY USERS

# WHEELS FOR HEAVY USERS

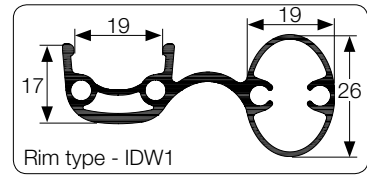
## BUFFALO 2 (24") - with integrated pushrim and high flange hub



INNOVA Tyre  
IA 2205  
37 mm and  
Flexel insert








High flange hub  
with 2,6 mm  
spokes and  
3 crosses




Integrated rim and pushrim in  
cast aluminium

24"/Ø540mm

### Bare wheels 24"/Ø540mm with integrated pushrim - excl. tyre and Flexel®

Colour alu. rim/alu. hub	Hun type	 mm/"	 mm	 mm	 g	 kg	Part no.
Black/Black	F5	ø12	53	64	-	140	254B81
Black/Black	F5	ø½"	53	64	-	140	254B82

### Complete wheels 24"/Ø540mm with integrated pushrim - incl. 37mm tyre, Flexel®

Colour alu. rim and pushrim/alu. hub	 mm/"	Tyre	Part no. Flexel®
Black/Black	ø12	INNOVA 24"x1 3/8", 37-540, grey IA 2205	274B81
Black/Black	ø½"	INNOVA 24"x1 3/8", 37-540, grey IA 2205	274B82

### Options and features

» Other wheel sizes available on request

## DRUM BRAKE WHEEL FOR HEAVY USERS

Please see also our drum brake wheel for heavy users on page 83

# WHEELS FOR HEAVY USERS

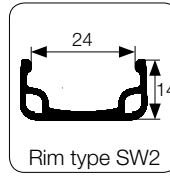
## BUFFALO 3 (24"/Ø540) - with high flange hub and 24mm single wall rim



New photo is coming soon



INNOVA Tyre  
IA 2205  
37 mm and  
Flexel insert



Rim type  
SW2








High flange hub  
with 2,6 mm  
spokes and  
3 crosses



Pushrim fitting  
with 6 splices

24"/Ø540 mm

### Bare wheels 24"/540 mm - excl. tyre, Flexel® and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	Part no.
Black/Black	F5	ø12	53	64	-	130	234B31
Black/Black	F5	ø½"	53	64	-	130	234B32

### Complete wheels 24/Ø540 - incl. 37mm tyre, Flexel® and pushrim

Colour alu. rim/alu. hub	 mm/"	Pushrim	Tyre	Part no. Flexel®
Black/Black	ø12	Silver anodized pushrim	INNOVA 24"x1 3/8", 37-540, grey IA 2205	274B91
Black/Black	ø½"	Silver anodized pushrim	INNOVA 24"x1 3/8", 37-540, grey IA 2205	274B92

### Options and features

» Other wheel sizes available on request

## DRUM BRAKE WHEEL FOR HEAVY USERS

Please see also our drum brake wheel for heavy users on page 83

# WHEELS FOR HEAVY USERS

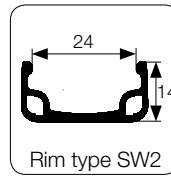
## BUFFALO 3 PLUS (24"/Ø507) - with high flange hub and 24mm single wall rim



New photo is coming soon



CHENG SHIN  
C-90  
47mm and  
Flexel insert



Rim type  
SW2








High flange hub  
with 2,6 mm  
spokes and  
3 crosses



Pushrim fitting  
with 6 splices

24"/Ø507mm

### Bare wheels 24"/507mm - excl. tyre, Flexel® and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	Part no.
Black/Black	F5	ø12	53	64	-	140	234B33
Black/Black	F5	ø1/2"	53	64	-	140	234B34

### Complete wheels 24"/Ø507 - incl. 47mm tyre, Flexel® and pushrim

Colour alu. rim/alu. hub	 mm/"	Pushrim	Tyre	Part no. Flexel®
Black/Black	ø12	Silver anodized pushrim	Cheng Shin 24" x 1,75" x 2", 47-507, Grey Patterned/C-90	274B93
Black/Black	ø1/2"	Silver anodized pushrim	Cheng Shin 24" x 1,75" x 2", 47-507, Grey Patterned/C-90	274B94

### Options and features

» Other wheel sizes available on request

## DRUM BRAKE WHEEL FOR HEAVY USERS

Please see also our drum brake wheel for heavy users on page 83



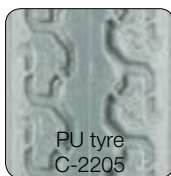
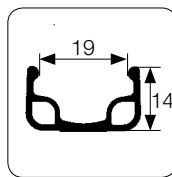


## **MBL**

DRUM BRAKE WHEELS &  
BRAKE PLATES

# DRUM BRAKE WHEELS AND BRAKE PLATES

## DRUM BRAKE - ECONOMY (22"– 24")









Rim type  
SW1

Steel drum  
brake hub;  
galvanized steel  
spokes,  
2 and 3 crosses

Pushrim fitting  
with 6 rivnuts


### Bare wheels 22"- 24"

#### Bare wheels - excl. tyre, pushrim and brake plate

Wheel size "/mm	Colour alu. rim/steel hub	 mm	 mm	 mm	 fittings	 g	 kg	Part no.
22"/489 mm	Silver/Black	ø12	46	63	6	-	75	232BKA-S
24"/540 mm	Silver/Black	ø12	46	63	6	-	75	234BKA-S


### 22"/Ø489 mm

#### Complete wheels - incl. pushrim, tyre/tube or polyurethane tyre - excl. brake plate

Colour alu. rim/steel hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. PU tyre
Silver/Black	ø12	36	Silver anodized aluminium - glued	37-489	262BKA-S	282BKA-S

### 24"/Ø540 mm

#### Complete wheels - incl. pushrim, tyre/tube or polyurethane tyre - excl. brake plate

Colour alu. rim/steel hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. PU tyre
Silver/Black	ø12	36	Silver anodized aluminium - glued	37-540	264BKA-S	284BKA-S

### Options and features

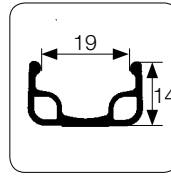
- » Other wheel sizes available on request
- » Other tyres available on request
- » Other pushrims available on request
- » Part no. for brake plates for this wheel can be found on the page after the drum brake wheels

# DRUM BRAKE WHEELS AND BRAKE PLATES

## DRUM BRAKE - ECONOMY EXTRA (20" – 26")



INNOVA  
IA 2205  
37mm



Rim type  
SW1







Drum brake hub  
Stainless steel  
spokes  
2 crosses



Pushrim fitting  
with 6 rivnuts

### Bare wheels 20"-26"

#### Bare wheels - excl. tyre, pushrim and brake plate

Wheel size "/mm	Colour alu.rim/alu hub	Hubtype	 mm	 fittings	 g	 kg	Part no.
16"/305 mm	Silver/Silver	DF1	ø12	4	-	75	235AKA
17"/357 mm	Silver/Silver	DF1	ø12	4	-	75	237AKA
18"/400 mm	Silver/Silver	DF1	ø12	4	-	75	239AKA
20"/451 mm	Silver/Silver	DF1	ø12	4	-	75	230AKA
20"/451 mm	Black/Black	DF1	ø12	4	-	75	230BKA
22"/489 mm	Silver/Silver	DF1	ø12	6	-	75	232AKA
22"/489 mm	Black/Black	DF1	ø12	6	-	75	232BKA
22"/501 mm	Silver/Silver	DF1	ø12	6	-	75	232AKB
22"/501 mm	Black/Black	DF1	ø12	6	-	75	232BKB
24"/540 mm	Silver/Silver	DF1	ø12	6	-	75	234AKA
24"/540 mm	Black/Black	DF1	ø12	6	-	75	234BKA
26"/590 mm	Silver/Silver	DF1	ø12	6	-	75	236AKA
26"/590 mm	Black/Black	DF1	ø12	6	-	75	236BKA

### 20"/Ø451 mm


#### Complete wheels - incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate

Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-451	262042	272042
Silver/Silver	ø12	36	Black powder-coated aluminium	37-451	262043	272043
Silver/Silver	ø12	36	Silver anodized aluminium	37-451	262044	272044

# DRUM BRAKE WHEELS AND BRAKE PLATES

## 22"/Ø489 mm

Complete wheels incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate

Colour alu.rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-489	262242	272242
Silver/Silver	ø12	36	Black powder-coated aluminium	37-489	262243	272243
Silver/Silver	ø12	36	Silver anodized aluminium	37-489	262244	272244

## 22"/Ø501 mm

Complete wheels incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate

Colour alu.rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-501	262AKD	272AKD
Silver/Silver	ø12	36	Black powder-coated aluminium	37-501	262AKE	272AKE
Silver/Silver	ø12	36	Silver anodized aluminium	37-501	262AKF	272AKF


## 24"/Ø540 mm

Complete wheels incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate

Colour alu.rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-540	262442	272442
Silver/Silver	ø12	36	Black powder-coated aluminium	37-540	262443	272443
Silver/Silver	ø12	36	Silver anodized aluminium	37-540	262444	272444

## 26"/Ø590 mm

Complete wheels incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate

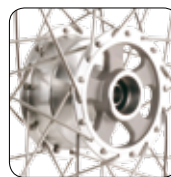
Colour alu.rim/steel hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black powder-coated aluminium	37-590	262643	272643
Silver/Silver	ø12	36	Silver anodized aluminium	37-590	262644	272644

# DRUM BRAKE WHEELS AND BRAKE PLATES

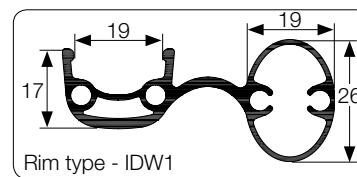
## DRUM BRAKE - HEAVY DUTY



INNOVA Tyre  
IA 2205  
37 mm and  
Flexel insert



Drum brake hub  
2,6 mm stainless  
steel spokes  
2 crosses







Rim type - IDW1

Integrated rim and pushrim in  
cast aluminium - black

24"/Ø540mm

### Bare wheel 24"/Ø540mm with integrated pushrim - excl. tyre and Flexel®

Colour alu. rim/alu. hub	Hub type	 mm	 mm	No. of spokes	 g	 kg	Part no.
Black/Silver	DF1	ø12	46	36	-	140	234IKA

### Complete wheels with integrated pushrim 24"/Ø540mm - incl. 37mm tyre and Flexel®

Colour alu. rim and pushrim/alu. hub	 mm	Tyre	Part no. Flexel®
Black/Silver	ø12	INNOVA 24"x1 3/8", 37-540, grey IA 2205	274IKA

### More information

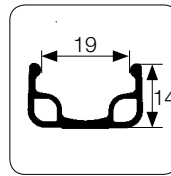
- » Other wheel sizes available on request
- » Standard brake plates are used for this wheel
- » Part no. for brake plates for this wheel can be found on the page after the drum brake wheels

# DRUM BRAKE WHEELS AND BRAKE PLATES

## DRUM BRAKE - OCTOPUS (16"-26")



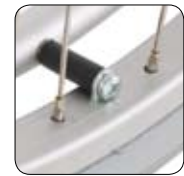
INNOVA  
IA 2205  
37mm



Rim type  
SW1







Octopus drum  
brake hub,  
stainless steel  
spokes, 2  
crosses/radial  
spoking



Pushrim fitting  
with 6 rivnuts


### Bare wheels from 16"- 26"

#### Bare wheels - excl. tyre, pushrim and brake plate

Wheel size mm	Colour alu.rim/steel hub	Hub type	 mm/"	 fittings	 g	 kg	Part no.
16"/305 mm	Silver/Silver	DO1	ø12	4	-	75	235G01
17"/357 mm	Silver/Silver	DO1	ø12	4	-	75	237G01
18"/400 mm	Silver/Silver	DO1	ø12	4	-	75	239G01
20"/451 mm	Silver/Silver	DO1	ø12	4	-	75	230G01
20"/451 mm	Black/Black	DO1	ø12	4	-	75	230G11
22"/489 mm	Silver/Silver	DO1	ø12	6	-	75	232G01
22"/489 mm	Black/Black	DO1	ø12	6	-	75	232G11
22"/501 mm	Silver/Silver	DO1	ø12	6	-	75	232G21
22"/501 mm	Black/Black	DO1	ø12	6	-	75	232G31
24"/540 mm	Silver/Silver	DO1	ø12	6	-	75	234G01
24"/540 mm	Black/Black	DO1	ø12	6	-	75	234G11
26"/590 mm	Silver/Silver	DO1	ø12	6	-	75	236G01
26"/590 mm	Black/Black	DO1	ø12	6	-	75	236G11

### 20"/Ø451 mm

#### Complete wheels incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate


Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-451	260G01	270G01
Silver/Silver	ø12	36	Black powder-coated aluminium	37-451	260G02	270G02
Silver/Silver	ø12	36	Silver anodized aluminium	37-451	260G03	270G03



# DRUM BRAKE WHEELS AND BRAKE PLATES


## 22"/Ø489 mm

Complete wheels incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate

Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-489	262G01	272G01
Silver/Silver	ø12	36	Black powder-coated aluminium	37-489	262G02	272G02
Silver/Silver	ø12	36	Silver anodized aluminium	37-489	262G03	272G03


## 22"/Ø501 mm

Complete wheels incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate

Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-501	262G21	272G21
Silver/Silver	ø12	36	Black powder-coated aluminium	37-501	262G22	272G22
Silver/Silver	ø12	36	Silver anodized aluminium	37-501	262G23	272G23


## 24"/Ø540 mm

Complete wheels incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate

Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black plastic	37-540	264G01	274G01
Silver/Silver	ø12	36	Black powder-coated aluminium	37-540	264G02	274G02
Silver/Silver	ø12	36	Silver anodized aluminium	37-540	264G03	274G03

## 26"/Ø590 mm

Complete wheels incl. pushrim, tyre/tube or tyre/Flexel® - excl. brake plate

Colour alu. rim/alu. hub	 mm	No. of spokes	Pushrim	Tyre	Part no. pneumatic	Part no. Flexel®
Silver/Silver	ø12	36	Black powder-coated aluminium	37-590	266G02	276G02
Silver/Silver	ø12	36	Silver anodized aluminium	37-590	266G03	276G03

# DRUM BRAKE WHEELS AND BRAKE PLATES

## DRUM BRAKE - PLASTIC (24")



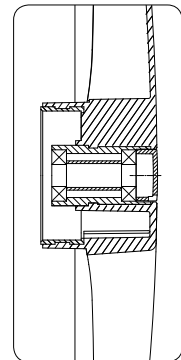
INNOVA Tyre  
IA 2205  
37 mm



PU Tyre  
C-2803G









Hub  
back




24"/Ø540 mm with Ø70-Ø12 x 46/57mm drum brake hub

### Bare wheels incl. 7 spokes - excl. tyre and pushrim

rim/hub	 mm/"	 mm	 mm	 fittings	 g	 kg	Part no.
Black plastic rim/hub with 7 spokes	Ø12	46	64	7	-	75	234P21

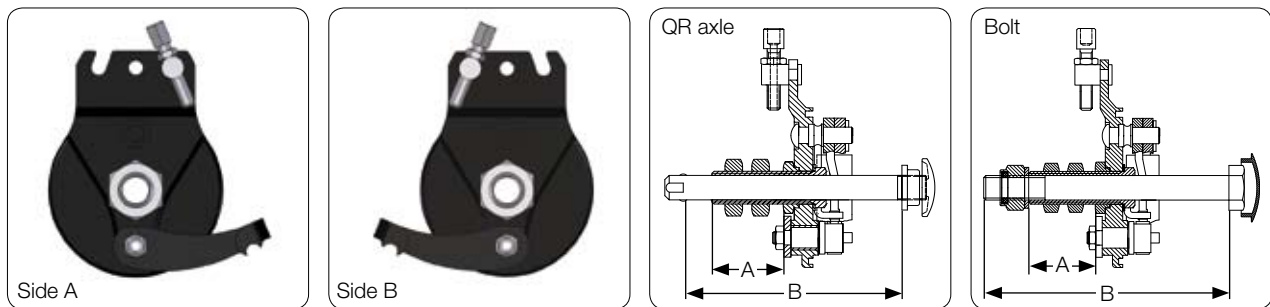
### Complete wheels - incl. pushrim, incl. or excl. pneumatic or PU tyre

 mm	No. of spokes	Pushrim	Part no. incl. PU Tyre 37MM C-2803G	Part no. incl. Tyre and Tube 37mm IA2205	Part no. excl. Tyre
Ø12	7	Black plastic	284P21	264P21	254P21
Ø12	7	Black powder coated aluminum	284P22	264P22	254P22
Ø12	7	Silver anodized aluminium	284P23	264P23	254P23

» The part numbers does not include brake plates. Part numbers for brake plates are listed below.

# DRUM BRAKE WHEELS AND BRAKE PLATES

## BRAKE PLATES FOR DRUM BRAKE HUBS



» All brake plates are supplied with stainless steel bushing, brake adjuster and pinch bolt.

### Brake plates for standard drum brake hub in aluminium

#### Complete brake plate sets incl. M12 axle bolt and plastic cap

For hub type	Bushing dim. for fitting (A)	Bolt dim. (B)	Part no. side A	Part no. side B
DF1	M16x1x32 mm	M12 x 120 mm	693111	693112
DF1	M16x1x42 mm	M12 x 130 mm	693113	693114

#### Complete brake plate sets incl. Ø12 mm QR axle and push-button

For hub type	Bushing dim. for fitting (A)	QR axle dim. (B)	Colour of push button	Part no. side A	Part no. side B
DF1	M16x1x32 mm	Ø12 x 98 mm	Untreated alu.	693121	693122
DF1	M18x1x32 mm	Ø12 x 98 mm	Untreated alu.	693129	693130
DF1	M16x1x42 mm	Ø12 x 108 mm	Untreated alu.	693123	693124
DF1	M18x1x42 mm	Ø12 x 108 mm	Untreated alu.	693131	693132

### Brake plates for steel drum brake hub (Economy drum brake wheels)

#### Complete brake plate sets incl. M12 axle bolt and plastic cap

For hub type	Bushing dim. for fitting (A)	Bolt dim. (B)	Part no. side A	Part no. side B
-	M16x1x32 mm	M12 x 120 mm	693111-S	693112-S
-	M16x1x42 mm	M12 x 130 mm	693113-S	693114-S

#### Complete brake plate sets incl. Ø12 mm QR axle and push-button

For hub type	Bushing dim. for fitting (A)	QR axle dim. (B)	Colour of push button	Part no. side A	Part no. side B
-	M16x1x32 mm	Ø12 x 98 mm	Black aluminium	693121-S	693122-S
-	M16x1x42 mm	Ø12 x 108 mm	Black aluminium	693123-S	693124-S

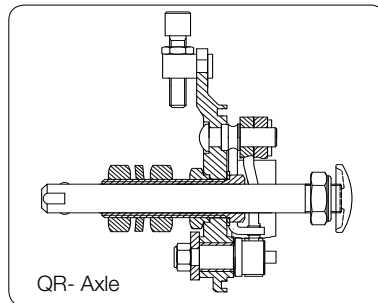
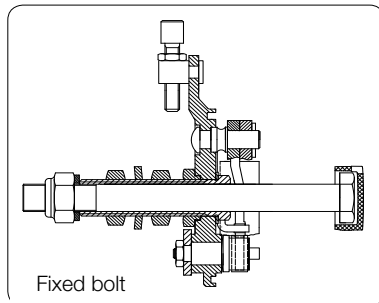
# DRUM BRAKE WHEELS AND BRAKE PLATES

## Brake plates for Octopus drum brake hub

### Complete brake plate sets incl. Ø12 mm QR axle and push-button

For hub type	Bushing dim. for fitting (A)	QR axle dims. (B)	Colour of push button	Part no. side A	Part no. side B
-	M16x1x32 mm	Ø12 x 104 mm	Untreated alu.	693901	693902
-	M18x1x32 mm	Ø12 x 104 mm	Untreated alu.	693911	693912

## Brake plates with fixed axle or QR axle for plastic wheels



- » Stainless steel bushing
- » Other bushings on request
- » Brake adjuster and pinch bolt



Description	Part no. side A	Part no. side B
Brake plate set with M12 x 130 bolt, bushing M16 x 1 x L62 mm, brake adjuster, pinch bolt, button	6931P1	6931P2
Brake plate set with quick release axle 12 x 98mm, incl. push button, M16/d12 x 52mm ss bushing, brakeadjuster and pinch bolt	6931Q1	6931Q2



**MBL**

ONE ARM DRIVE  
WHEELSETS &  
TELESCOPIC SHAFTS

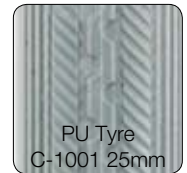
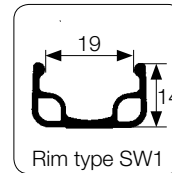


ONE ARM DRIVE WHEELSET  
WITH QR AXLE



# ONE-ARM DRIVE WHEELSETS

## TYPE A: ONE-ARM DRIVE WHEELSETS FOR CAMBERING (20" – 26")



### Complete wheel sets 20"-26"

#### Complete wheel sets incl. QR axle with hexagonal cone

Wheel size	Colour alu. rim/alu. hub	Pushrim	Bushing dims. for fitting	Part no. excl. tyre/tbe	Part no. incl. 25 mm tyre/tube	Part no. incl. 25mm tyre/Flexel	Part no. incl. 25mm PU tyre
20"	Black/Black	Black powder-coated aluminium	M16	250BOA	260BOA	270BOA	280BOA
22"	Black/Black	Black powder-coated aluminium	M16	252BOA	262BOA	272BOA	282BOA
24"	Black/Black	Black powder-coated aluminium	M16	254BOA	264BOA	274BOA	284BOA
26"	Black/Black	Black powder-coated aluminium	M16	256BOA	266BOA	276BOA	286BOA

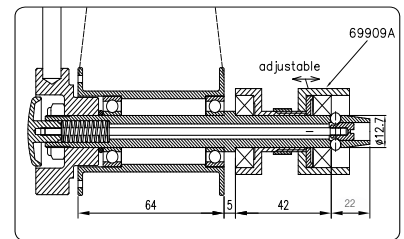
- » Telescopic shaft is not included in the wheel set
- » 2 x bearing housings are included in the wheel set.



- » 1/2" QR axle with hexagonal cone.



- » Bearing housing with 1/2" bearings. Item no. 69909A.
- » Flexible fitting solution which fit on to side plate thicknesses between 8-16mm.
- » Supplied with adapter ring for ø18mm hole.
- » 2 x bearing housings are included in the wheel set.

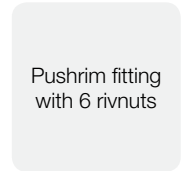
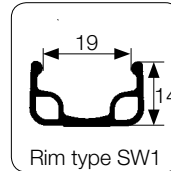
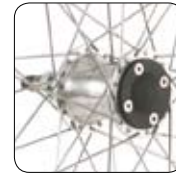


- » Cross section of hub and bearing housing.



# ONE-ARM DRIVE WHEELSETS

## TYPE B: ONE-ARM DRIVE WHEELSETS FOR CAMBERING (20" – 24")



### Complete wheel sets 20"-24"

#### Complete wheel sets incl. fixed axle with hexagonal cone

Wheel size	Colour alu. rim/alu. hub	Pushrim	Bushing dims. for fitting	Part no. excl. tyre/tube	Part no. incl. tyre/tube	Part no. incl. tyre/Flexel®
20"/451	Silver/Silver	Black powder-coated aluminium	M16 X 42 mm	250AND	260ANB	270ANB
22"/489	Silver/Silver	Black powder-coated aluminium	M16 X 42 mm	252AND	262ANB	272ANB
24"/540	Silver/Silver	Black powder-coated aluminium	M16 X 42 mm	254AND	264ANB	274ANB

» Telescopic shaft is not included in the set

#### Complete wheel sets incl. QR axle with hexagonal cone

Wheel size	Colour alu. rim/alu. hub	Pushrim	Bushing dims. for fitting	Part no. excl. tyre/tube	Part no. incl. tyre/tube	Part no. incl. tyre/Flexel®
20"/451	Silver/Silver	Black powder-coated aluminium	M18 X 30 mm	250AOD	260AOB	270AOB
22"/489	Silver/Silver	Black powder-coated aluminium	M18 X 30 mm	252AOD	262AOB	272AOB
24"/540	Silver/Silver	Black powder-coated aluminium	M18 X 30 mm	254AOD	264AOB	274AOB

» Telescopic shaft is not included in the set



- » Axle with hexagonal cone. Item no. 698975.
- » For wheels with either fixed axle or QR axle.



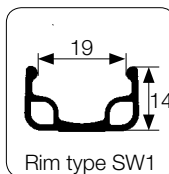
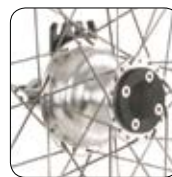
- » Fxed axle with 42 mm bushing.



- » Quick-release axle with 30 mm bushing.
- » 40 mm bushing length available.

# ONE-ARM DRIVE WHEELSETS

## TYPE C: ONE-ARM DRIVE WHEELSETS W/ DRUM BRAKE FOR CAMBERING (22"- 24")



36 stainless steel spokes  
3 crosses

Pushrim fitting with 6 rivnuts

### Complete wheel sets 22"-24"

#### Complete wheel sets incl. brake plate and fixed axle with hexagonal cone

Wheel size	Colour alu. rim/alu. hub	Pushrim	Bushing dims. for fitting	Part no. excl. tyre/tube	Part no. incl. tyre/tube	Part no. incl. tyre/Flexel®
20"/451	Silver/Silver	Black powder-coated aluminium	M16 X 42 mm	250M01	260M01	270M01
22"/489	Silver/Silver	Black powder-coated aluminium	M16 X 42 mm	252M01	262M01	272M01
24"/540	Silver/Silver	Black powder-coated aluminium	M16 X 42 mm	254M01	264M01	274M01

» Telescopic shaft is not included in the wheel set

#### Complete wheel sets incl. brake plate and QR axle with hexagonal cone

Wheel size	Colour alu. rim/alu. hub	Pushrim	Bushing dims. for fitting	Part no. excl. tyre/tube	Part no. incl. tyre/tube	Part no. incl. tyre/Flexel®
20"/451	Silver/Silver	Black powder-coated aluminium	M18 X 30 mm	250O01	260O01	270O01
22"/489	Silver/Silver	Black powder-coated aluminium	M18 X 30 mm	252O01	262O01	272O01
24"/540	Silver/Silver	Black powder-coated aluminium	M18 X 30 mm	254O01	264O01	274O01

» Telescopic shaft is not included in the wheel set



# TELESCOPIC SHAFTS FOR ONE ARM DRIVE WHEELSETS

## Standard telescopic shaft incl. universal joints and hexagonal cone - for cambering



- » Universal joint for cambering of wheels until 9 degrees.
- » Usable for one hand drive wheelsets with QR axle and wheels with fixed axle
- » Easy and quick mounting

<b>Length L:</b>	170-195	180-210	195-235	220-275	255-315	295-370	350-460	420-530	485-595
<b>Part no.</b>	685101	685102	685103	685104	685105	685106	685107	685108	685109

## Economy telescopic shaft with hexagonal cone - not for cambering



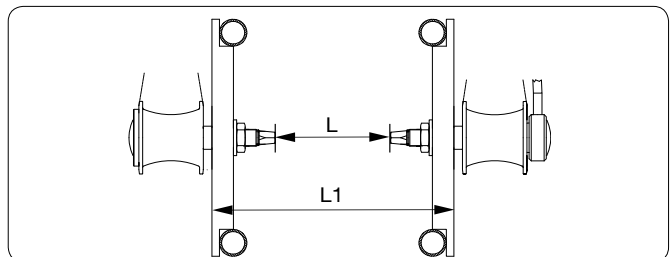
- » Usable for one hand drive wheel-sets with QR axle and wheels with fixed axle
- » Easy and quick mounting

<b>Length L:</b>	170-220	185-245	210-290	255-345	270-385	295-420	310-460	345-460	375-495
<b>Part no.</b>	682101	682102	682103	682104	682108	682107	682105	682109	682106

## How to find the right length of a telescopic shaft?

1. Measure the length **L1** which is the outside distance between the fitting plates of the wheelchair.
2. To find **L** measurement, please use the table below.
3. Look at the table above in order to choose the correct part number. If two of the items are suitable, we suggest you to choose the longest one.

For one arm drive wheelset - Type A	Formula
With QR axle	$L = L1 - 105 \text{ mm}$
For one arm drive wheelset - Type B	Formula
With fixed axle (42 mm bushing length - Standard)	$L = L1 - 116 \text{ mm}$
With QR axle (30 mm bushing length - Standard)	$L = L1 - 94 \text{ mm}$
With QR axle (40 mm bushing length - Not standard)	$L = L1 - 114 \text{ mm}$





**MBL**

LIGHT WEIGHT WHEELS

### ULTRALIGHT RIO 890T AND RIO 930S

MBL's engineers have, as the first in the world, developed and tested MICRO HUBS for wheelchair use. Combined with light weight rims and a special CNC milling method between the spoke holes, we have developed a wheel weighing less than 900 grams.

This wheel has been designed to be used on a wheelchair carrying a person and a chair, together weighing up to 120 kg.

Our Ultra Light wheels are available with titanium spokes or steel spokes.

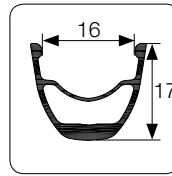
# LIGHT WEIGHT WHEELS

## ULTRALIGHT - RIO 890T (24"-25")

24" wheel with 23mm light weight tyre and light weight aluminium pushrim weighs app. 890g.



Schwalbe  
ULTREMO ZX  
23mm



Rim profile  
DW7








Micro hub and  
18 titanium  
spokes




Black rim with  
silver millings.  
Pushrim fitting  
with 6 splices.

24"/Ø540 mm

### Bare wheels - incl. 6 X M5 rivnuts for pushrim fitting (excl. tyre, tube and pushrim)






Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black KTL w. machined silver cavities/polished	Micro Hub	ø12	48	70	427	60	18	234UT1
Black KTL w. machined silver cavities/polished	Micro Hub	½"	48	70	427	60	18	234UT2

### Complete wheels - incl. tyre, tube and pushrim


Colour alu. rim/alu. hub	Pushrim	No. of spokes	 g	Part no. ø12 mm	Part no. ø½"
Black w. silver/Polished	Silver anodized pushrim Ø19 x 0,8	18	890	264UT1	264UT2
Black w. silver/Polished	Black anodized pushrim Ø19 x 0,8	18	890	264UT3	264UT4

25"/Ø559 mm

### Bare wheels - incl. 6 X M5 rivnuts for pushrim fitting (excl. tyre, tube and pushrim)

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black KTL w. machined silver cavities /polished	Micro hub	ø12	48	70	-	60	18	235UT1
Black KTL w. machined silver cavities /polished	Micro hub	½"	48	70	-	60	18	235UT2

### Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Pushrim	No. of spokes	 g	Part no. ø12 mm	Part no. ø½"
Black w, silver/Polished	Silver anodized pushrim Ø19 x 0,8	18	-	265UT1	265UT2
Black w, silver/Polished	Black anodized pushrim Ø19 x 0,8	18	-	265UT3	265UT4



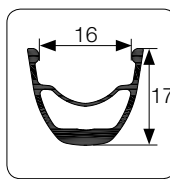
# LIGHT WEIGHT WHEELS

## ULTRALIGHT - RIO 930S (24"-25")

24" wheel with 23mm light weight tyre and light weight aluminium pushrim weighs app. 930g.



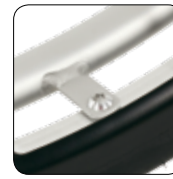
Schwalbe  
ULTREMO ZX  
23mm



Rim profile  
DW7



Micro Hub and  
18 extra light  
stainless steel  
spokes Ø2  
- ø1,8-ø2 mm








Black rim with  
silver millings.


Pushrim fitting  
with 6 splices.

24"/Ø540 mm

### Bare wheels - incl. 6 X M5 rivnuts for pushrim fitting (excl. tyre, tube and pushrim)






Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black KTL w. machined silver cavities /polished	Micro hub	ø12	48	70	455	60	18	234US1
Black KTL w. machined silver cavities /polished	Micro hub	½"	48	70	455	60	18	234US2

### Complete wheels - incl. tyre, tube and pushrim


Colour alu. rim/alu. hub	Pushrim	No. of spokes	 g	Part no. ø12 mm	Part no. ø½"
Black w. silver/Polished	Silver anodized pushrim Ø19 x 0,8	18	930	264US1	264US2
Black w. silver/Polished	Black anodized pushrim Ø19 x 0,8	18	930	264US3	264US4

25"/Ø559 mm

### Bare wheels - incl. 6 X M5 rivnuts for pushrim fitting (excl. tyre, tube and pushrim)

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black KTL w. machined silver cavities /polished	Micro hub	ø12	48	70	-	60	18	235US1
Black KTL w. machined silver cavities /polished	Micro hub	½"	48	70	-	60	18	235US2

### Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Pushrim	No. of spokes	 g	Part no. ø12 mm	Part no. ø½"
Black w. silver/Polished	Silver anodized pushrim Ø19 x 0,8	18	-	265US1	265US2
Black w. silver/Polished	Black anodized pushrim Ø19 x 0,8	18	-	265US3	265US4





The lightest rim around...

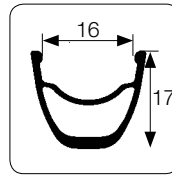
# LIGHT WEIGHT WHEELS

## ULTRALIGHT - RIO 1000S (24"– 25")

24" wheel with 23mm light weight tyre and light weight aluminium pushrim weighs app. 1000 g.



Schwalbe  
ULTREMO ZX  
23mm



Rim type  
DW4








24 extra light  
stainless steel  
spokes Ø2-  
Ø1,8-Ø2 mm




Pushrim fitting  
with 6 splices  
with one hole

24"/Ø540 mm

Bare wheels - incl. 6 X M5 rivnuts for pushrim fitting (excl. tyre, tube and pushrim)






Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	R1	Ø12	48	70	528	50	24	234L11
Black/Black	R1	Ø½"	48	70	528	50	24	234L61

Complete wheels - incl. tyre, tube and pushrim


Colour alu. rim/alu. hub	Pushrim	No. of spokes	 g	Part no. Ø12 mm	Part no. Ø½"
Black/Black	Silver anodized aluminium - Ø19 x 0,8 mm tube	24	1010	264L11	264L61
Black/Black	Black anodized aluminium - Ø19 x 0,8 mm tube	24	1010	264L12	264L62

25"/Ø559 mm

Bare wheels - incl. 6 X M5 rivnuts for pushrim fitting (excl. tyre, tube and pushrim)

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	R1	Ø12	48	70	528	50	24	235L11
Black/Black	R1	Ø½"	48	70	528	50	24	235L61

Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Pushrim	No. of spokes	 g	Part no. Ø12 mm	Part no. Ø½"
Black/Black	Silver anodized aluminium - Ø19 x 0,8 mm tube	24	1028	265L11	265L61
Black/Black	Black anodized aluminium - Ø19 x 0,8 mm tube	24	1028	265L12	265L62



**MBL**

FIBRE SPOKE WHEELS



## FIBER SPOKE TECHNOLOGY

MBL Fiber Spokes are made of ZYLON® fibers. ZYLON® is made by mixing a polymer called PBO (para phenylene benzobisoxazole), while forcing it through a spinning machine. A special twisting and coating procedure ensures the best possible utilisation and performance of the fibers mechanical properties.

The ZYLON® fiber is probably known as today's strongest fiber that is commercially available.

ZYLON's tensile strength is about 10 times that of steel—a ZYLON® thread only 1 mm thick can hold an object weighing 450 kg. The tensile strength is significantly higher than aramid fibres known under the brand names Kevlar and Twaron.

ZYLON is more impact-resistant than steel.

The ZYLON coated cord is manufactured according to the highest quality assurance.



TENSIO FIBRE SPOKE WHEELS

# STIFFER STRONGER & MORE DURABLE

*"I use my wheelchair every day, often in combination with a fifth wheel (handcycle). Using a fifth wheel gives an extra load to the wheels, because the wheelchair tilts backwards which changes the position of the wheels.*

*Since I use the Tensio wheels, I didn't break any spokes! When riding my wheelchair I feel the stiffness of the wheels, a feeling I really love! I feel the stiffness of the wheels even stronger when I am turning. In the beginning, I had to get used to it, because the wheels didn't move in any direction when making a turn, a feeling I wasn't used to.*

*I loved the look of my old wheels, but I even love the look of the Tensio wheels more! This difference is made by the axis and the hoops. See the picture and you know what I mean..."*

Tensio HD user, February 2013



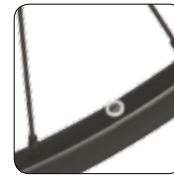
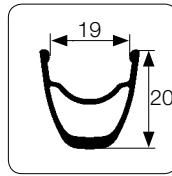
**MB** MBL  
TENSIO LIGHT WEIGHT



# FIBRE SPOKE WHEELS

## TENSIO® LIGHTWEIGHT (24" – 25")

24" wheel with 23mm light weight tyre and light weight aluminium pushrim weighs app. 1170 g.



Rim type  
DW2






Weight reduced  
hub

Tensio  
pushrim fitting  
solution  
6 x M5mm  
rivnuts

Fibre spokes






24"/Ø540 mm

### Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Tensio Light Weight	ø12	53	76,3	658	60	18	F34E1F2202
Black/Polished	Tensio Light Weight	ø12	53	76,3	658	60	18	F34E1F2203
Black/Black	Tensio Light Weight	ø½"	53	76,3	658	60	18	F34E2F2202
Black/Polished	Tensio Light Weight	ø½"	53	76,3	658	60	18	F34E2F2203

25"/Ø559 mm

### Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Tensio Light Weight	ø12	53	76,3	665	60	18	F35E1F2202
Black/Polished	Tensio Light Weight	ø12	53	76,3	665	60	18	F35E1F2203
Black/Black	Tensio Light Weight	ø½"	53	76,3	665	60	18	F35E2F2202
Black/Polished	Tensio Light Weight	ø½"	53	76,3	665	60	18	F35E2F2203

### MORE INFORMATION

Please find part numbers for tyres, tubes and pushrims we recommend for the TENSIO® wheels on the following pages.

Part numbers for axles and bushings can be found in product group 6.



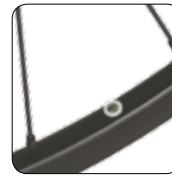
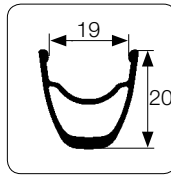
**MB** MBL  
TENSIO STANDARD



# FIBRE SPOKE WHEELS

## TENSIO® STANDARD (24" – 26")

24" wheel with 23mm lightweight tyre and light weight aluminium pushrim weighs app. 1590 g.



Rim type  
DW2






Weight reduced  
hub

Tensio  
pushrim fitting  
solution  
6 x M5mm  
rivnuts

Fibre spokes






### 24"/Ø540 mm

Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Tensio Standard	ø12	53	83	719	70	18	F34B1F2202
Black/Polished	Tensio Standard	ø12	53	83	719	70	18	F34B1F2203
Black/Black	Tensio Standard	ø½"	53	83	719	70	18	F34B2F2202
Black/Polished	Tensio Standard	ø½"	53	83	719	70	18	F34B2F2203






### 25"/Ø559 mm

Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Tensio Standard	ø12	53	83	729	70	18	F35B1F2202
Black/Polished	Tensio Standard	ø12	53	83	729	70	18	F35B1F2203
Black/Black	Tensio Standard	ø½"	53	83	729	70	18	F35B2F2202
Black/Polished	Tensio Standard	ø½"	53	83	729	70	18	F35B2F2203

### 26"/Ø590 mm

Bare wheels with black spokes - excl. tyre, tube and pushrim

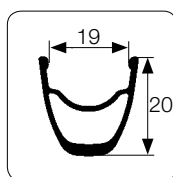
Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Tensio Standard	ø12	53	83	760	70	18	F36B1F2202
Black/Polished	Tensio Standard	ø12	53	83	760	70	18	F36B1F2203
Black/Black	Tensio Standard	ø½"	53	83	760	70	18	F36B2F2202
Black/Polished	Tensio Standard	ø½"	53	83	760	70	18	F36B2F2203





# FIBRE SPOKE WHEELS

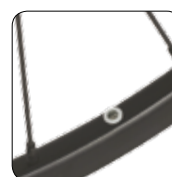
## TENSIO® HEAVY DUTY (24" – 26")



Rim type  
DW2



The hub is with  
3 bearings  
which make the  
wheel stronger  
and suitable for  
sport users.








Tensio  
pushrim fitting  
solution  
6 x M5mm  
rivnuts



Fibre spokes






24"/Ø540 mm

### Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Tensio Heavy Duty	ø12	69	103	770	80	24	F34D1F3202
Black/Polished	Tensio Heavy Duty	ø12	69	103	770	80	24	F34D1F3203
Black/Black	Tensio Heavy Duty	ø½"	69	103	770	80	24	F34D2F3202
Black/Polished	Tensio Heavy Duty	ø½"	69	103	770	80	24	F34D2F3203






25"/Ø559 mm

### Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Tensio Heavy Duty	ø12	69	103	788	80	24	F35D1F3202
Black/Polished	Tensio Heavy Duty	ø12	69	103	788	80	24	F35D1F3203
Black/Black	Tensio Heavy Duty	ø½"	69	103	788	80	24	F35D2F3202
Black/Polished	Tensio Heavy Duty	ø½"	69	103	788	80	24	F35D2F3203

26"/Ø590 mm

### Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Tensio Heavy Duty	ø12	69	103	816	80	24	F36D1F3202
Black/Polished	Tensio Heavy Duty	ø12	69	103	816	80	24	F36D1F3203
Black/Black	Tensio Heavy Duty	ø½"	69	103	816	80	24	F36D2F3202
Black/Polished	Tensio Heavy Duty	ø½"	69	103	816	80	24	F36D2F3203

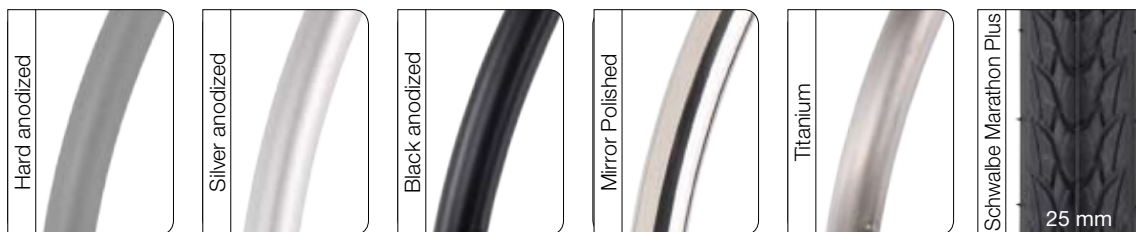
# FIBRE SPOKE WHEELS

## Tyres, tubes and pushrims we can recommend for TENSIO® LIGHTWEIGHT



Wheel SIZE	Part. no. Schwalbe ULTREMO ZX tyres	Part. no light weight tubes	Part. no. pushrims Ø19 x 0,8		
			hard anodized alu.	silver anodized alu.	black anodized alu.
24"	432405	472410	3424L1	342412	342413
25"	432505	472510	3425L1	342512	342513

## Tyres, tubes and pushrims we can recommend for TENSIO® STANDARD and TENSIO® HEAVY DUTY



Wheel SIZE	Part. no. Schwalbe MARATHON PLUS tyres	Part. no light weight tubes	Part. no. pushrims				
			hard anodized alu.	silver anodized alu.	black anodized alu.	mirror Polished	titanium
24"	432404	472410	3424A1	342491	342492	352491	352492
25"	432504	472510	3425A1	342591	342592	352591	352592
26"	432603	472610	3426A1	342691	342692	352691	352692

### MORE INFORMATION

Please refer to product group 7 "Rims, pushrims & spoke guards" for detailed information about the pushrims and product group 4 "Tyres and tubes" for more detailed information about the tyres and tubes.

Part numbers for axles and bushings can be found in product group 6.



**MBL**

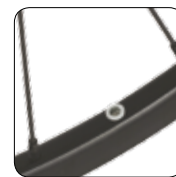
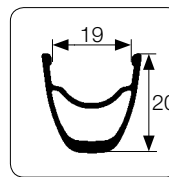
SPECIAL WHEELS





# SPECIAL WHEELS

## DEFENCE (24" - 25")



48 x  
Ø1,6mm  
black  
oxidized  
spokes






Narrow  
light hub  
48/82mm

Rim type  
DW2

Pushrim  
fitting solution  
with 6xM5  
fitting holes






24"/Ø540mm

### Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Radial high flange	ø12	48	82	-	75	48	234DE1
Black/Mirror Polished	Radial high flange	ø12	48	82	-	75	48	234DE2
Black/Black	Radial high flange	ø½"	48	82	-	75	48	234DE3
Black/Mirror Polished	Radial high flange	ø½"	48	82	-	75	48	234DE4

25"/Ø559mm

### Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Radial high flange	ø12	48	82	960	75	48	235DE1
Black/Mirror Polished	Radial high flange	ø12	48	82	960	75	48	235DE2
Black/Black	Radial high flange	ø½"	48	82	960	75	48	235DE3
Black/Mirror Polished	Radial high flange	ø½"	48	82	960	75	48	235DE4

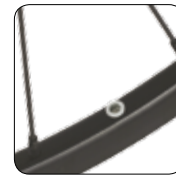
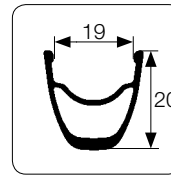
### RECOMMENDATIONS FOR ATTACK AND DEFENCE

Please find part numbers for tyres, tubes and pushrims we recommend for the ATTACK and DEFENCE wheels after the DEFENCE wheel in this product group.

Part numbers for axles and bushings can be found in product group 6.

# SPECIAL WHEELS

## ATTACK (24"- 25")



16 x  
Ø2,6mm  
black  
oxidized  
spokes






Narrow light  
hub  
48/82mm

Rim type  
DW2

Pushrim  
fitting solution  
with 6 x M5  
fitting holes






24"/Ø540 mm

### Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Radial high flange	ø12	48	82	825	75	16	234AT1
Black/Mirror Polished	Radial high flange	ø12	48	82	825	75	16	234AT2
Black/Black	Radial high flange	ø½"	48	82	825	75	16	234AT3
Black/Mirror Polished	Radial high flange	ø½"	48	82	825	75	16	234AT4

25"/Ø559 mm

### Bare wheels with black spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	Radial high flange	ø12	48	82	-	75	16	235AT1
Black/Mirror Polished	Radial high flange	ø12	48	82	-	75	16	235AT2
Black/Black	Radial high flange	ø½"	48	82	-	75	16	235AT3
Black/Mirror Polished	Radial high flange	ø½"	48	82	-	75	16	235AT4

### RECOMMENDATIONS FOR ATTACK AND DEFENCE

Please find part numbers for tyres, tubes and pushrims we recommend for the ATTACK and DEFENCE wheels after the DEFENCE wheel in this product group.

Part numbers for axles and bushings can be found in product group 6.

# SPECIAL WHEELS

## Pushrims we can recommend for ATTACK and DEFENCE



Wheel SIZE	Part. no. pushrims				
	hard anodized alu.	silver anodized alu.	black anodized alu.	mirror Polished	titanium
24"	3424A1	342491	342492	352491	352492
25"	3425A1	342591	342592	352591	352592

## Tyres and tubes we can recommend for ATTACK and DEFENCE



Wheel SIZE	Part. no. Schwalbe MARATHON PLUS tyres	Part. no. Schwalbe ULTREMO ZX tyres	Part. no light weight tubes
24"	432404	432405	472410
25"	432504	432505	472510

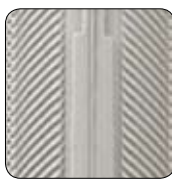
### MORE INFORMATION

Please refer to product group 7 "Rims, pushrims & spoke guards" for detailed information about the pushrims and product group 4 "Tyres and tubes" for more detailed information about the tyres and tubes.

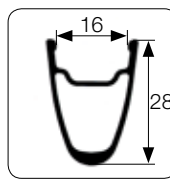
Part numbers for axles and bushings can be found in product group 6.

# SPECIAL WHEELS

## HURRICANE 6X3 (22" - 24")



INNOVA  
IA 2806  
25mm



Rim type  
DW5









18 x Ø2,3mm  
stainless steel  
spokes



Pushrim fitting  
with 6 round  
splices

22"/Ø489 mm

### Bare wheels incl. 6 x 3 spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 Holes	 g	 kg	Part no.
Black pearl/Black pearl	F3	ø12	53	64	6	-	75	232H01
Black pearl/Black pearl	F3	ø½"	53	64	6	-	75	232H51







06/201

### Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	No. of spokes	Pushrim	Tyre	Part no. ø12 mm	Part no. ø½"
Black pearl/Black pearl	18	Silver anodized aluminium with round splices	25-489	262H01	262H51
Black pearl/Black pearl	18	Black anodized aluminium with round splices	25-489	262H02	262H52
Black pearl/Black pearl	18	Mirror polished stainless steel with round splices	25-489	262H03	262H53
Black pearl/Black pearl	18	Titanium with round splices	25-489	262H04	262H54

24"/Ø540 mm

### Bare wheels incl. 6 x 3 spokes - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 Holes	 g	 kg	Part no.
Black pearl/Black pearl	F3	ø12	53	64	6	-	75	234H01
Black pearl/Black pearl	F3	ø½"	53	64	6	-	75	234H51

Continues on the next page....

# SPECIAL WHEELS

## Complete wheels - incl. tyre, tube and pushrim

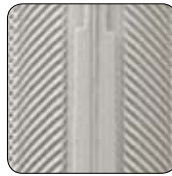
Colour alu. rim/alu. hub	No. of spokes	Pushrim	Tyre	Part no. ø12 mm	Part no. ø½"
Black pearl/Black pearl	18	Silver anodized aluminium with round splices	25-540	264H01	264H51
Black pearl/Black pearl	18	Black anodized aluminium with round splices	25-540	264H02	264H52
Black pearl/Black pearl	18	Mirror polished stainless steel with round splices	25-540	264H03	264H53
Black pearl/Black pearl	18	Titanium with round splices	25-540	264H04	264H54



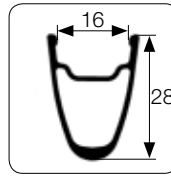


# SPECIAL WHEELS

## OCTOPUS 7 X 2 (24")



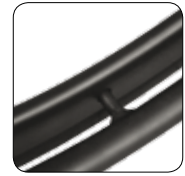
INNOVA  
IA 2806  
25mm



Rim type  
DW5









Octopus hub  
7 x 2 spokes



Pushrim fitting  
with 6 round  
splices

24"/Ø540 mm

Bare wheels incl. 7 x 2 spokes - excl. tyre, tube and pushrim

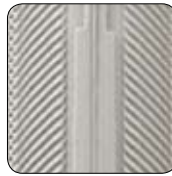
Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 Holes	 g	 kg	Part no.
Black pearl/Black pearl	O1	ø12	53	74	6	880	75	234101
Black pearl/Black pearl	O1	ø½"	53	74	6	880	75	234151

Complete wheels - incl. tyre, tube and pushrim

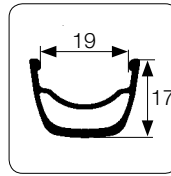
Colour alu. rim/alu. hub	No. of spokes	Pushrim	Tyre	Part no. ø12 mm	Part no. ø½"
Black pearl/Black pearl	14	Silver anodized aluminium with round splices	25-540	264101	264151
Black pearl/Black pearl	14	Black anodized aluminium with round splices	25-540	264102	264152
Black pearl/Black pearl	14	Mirror polished stainless steel with round splices	25-540	264103	264153

# SPECIAL WHEELS

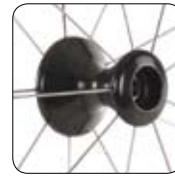
## OCTOPUS 9X2 (24")



INNOVA  
IA 2806  
25mm



Rim type  
DW1









Octopus hub  
9 x 2 spokes



Pushrim fitting  
with 6 splices

24"/Ø540 mm

### Bare wheels incl. 9 x 2 spokes - excl. tyre, tube and pushrim

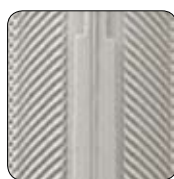
Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 Holes	 g	 kg	Part no.
Black pearl/Black pearl	O1	ø12	53	74	6	-	75	234121
Black pearl/Black pearl	O1	ø½"	53	74	6	-	75	234171

### Complete wheels - incl. tyre, tube and pushrim

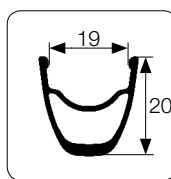
Colour alu. rim/alu. hub	No. of spokes	Pushrim	Tyre	Part no. ø12 mm	Part no. ø½"
Black pearl/Black pearl	18	Silver anodized aluminium	25-540	264121	264171
Black pearl/Black pearl	18	Black anodized aluminium	25-540	264122	264172
Black pearl/Black pearl	18	Mirror polished stainless steel	25-540	264123	264173
Black pearl/Black pearl	18	Titanium	25-540	264124	264174

# SPECIAL WHEELS

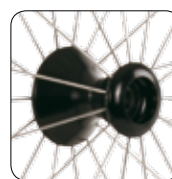
## OCTOPUS 30 (24" – 26")



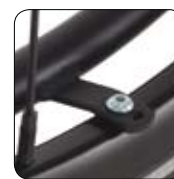
INNOVA  
IA 2806  
25mm



Rim type  
DW2








Octopus hub  
30 spokes  
Radial spoking




Pushrim fitting  
"type B" with  
6 splices

24"/Ø540 mm

Bare wheels incl. 6 X M5 rivnuts for pushrim fitting - excl. tyre, tube and pushrim






Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	O1	ø12	48	70	920	75	30	234A01
Black/Black	O1	ø½"	48	70	920	75	30	234A51

Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	 mm/"	No. of spokes	Pushrim	Tyre	Part no.
Black/Black	ø12	36	Silver anodized aluminium	25-540	264A01
Black/Black	ø12	36	Black anodized aluminium	25-540	264A02
Black/Black	ø12	36	Mirror polished stainless steel	25-540	264A03
Black/Black	ø12	36	Titanium	25-540	264A04
Black/Black	ø½"	36	Silver anodized aluminium	25-540	264A51
Black/Black	ø½"	36	Black anodized aluminium	25-540	264A52
Black/Black	ø½"	36	Mirror polished stainless steel	25-540	264A53
Black/Black	ø½"	36	Titanium	25-540	264A54


25"/Ø559 mm

Bare wheels incl. 6 X M5 rivnuts for pushrim fitting - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	O1	ø12	48	70	950	75	30	235A01
Black/Black	O1	ø½"	48	70	950	75	30	235A51






# SPECIAL WHEELS

## Complete wheels - incl. tyre, tube and pushrim


Colour alu. rim/alu. hub	 mm/"	No. of spokes	Pushrim	Tyre	Part no.
Black/Black	ø12	36	Silver anodized aluminium	25-559	265A01
Black/Black	ø12	36	Black anodized aluminium	25-559	265A02
Black/Black	ø12	36	Mirror polished stainless steel	25-559	265A03
Black/Black	ø12	36	Titanium	25-559	265A04
Black/Black	ø½"	36	Silver anodized aluminium	25-559	265A51
Black/Black	ø½"	36	Black anodized aluminium	25-559	265A52
Black/Black	ø½"	36	Mirror polished stainless steel	25-559	265A53
Black/Black	ø½"	36	Titanium	25-559	265A54

26"/Ø590 mm

## Bare wheels - incl. 6 X M5 rivnuts for pushrim fitting (excl. tyre, tube and pushrim)

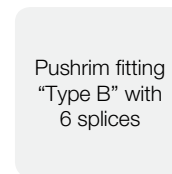
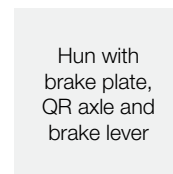
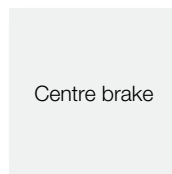
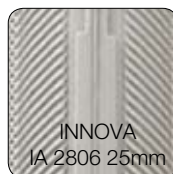
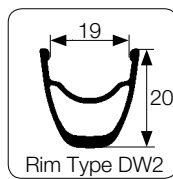
Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Black/Black	O1	ø12	48	70	-	75	36	236A01
Black/Black	O1	ø½"	48	70	-	75	36	236A51

## Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	 mm/"	No. of spokes	Pushrim	Tyre	Part no.
Black/Black	ø12	36	Silver anodized aluminium	25-590	266A01
Black/Black	ø12	36	Black anodized aluminium	25-590	266A02
Black/Black	ø12	36	Mirror polished stainless steel	25-590	266A03
Black/Black	ø12	36	Titanium	25-590	266A04
Black/Black	ø½"	36	Silver anodized aluminium	25-590	266A51
Black/Black	ø½"	36	Black anodized aluminium	25-590	266A52
Black/Black	ø½"	36	Mirror polished stainless steel	25-590	266A53
Black/Black	ø½"	36	Titanium	25-590	266A54

# SPECIAL WHEELS

## OCTOPUS WITH CENTRE BRAKE (24")



Centre brake

Hub with  
brake plate,  
QR axle and  
brake lever

Pushrim fitting  
"Type B" with  
6 splices

24"/Ø540 mm

Complete wheels incl. brake plate set, transparent spoke guard, tyre, tube and pushrim

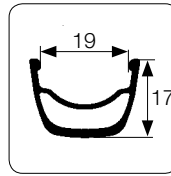
Colour alu. rim/alu. hub	Bushing dims. for fitting	Pushrim	Tyre	Part no. side A	Part no. side B
Black pearl/Black pearl	M16 X 42 mm	Silver anodized aluminium	25-540	264G51	264G52
Black pearl/Black pearl	M16 X 42 mm	Black anodized aluminium	25-540	264G53	264G54
Black pearl/Black pearl	M16 X 42 mm	Mirror polished stainless steel	25-540	264G55	264G56
Black pearl/Black pearl	M16 X 42 mm	Titanium	25-540	264G57	264G58

# SPECIAL WHEELS

## TRISTAR (24")



INNOVA  
SpeedLite  
25mm



Rim type  
DW1








Hub



Pushrim fitting  
"Type B" with  
6 splices

24"/Ø540 mm

Bare wheels incl. 6 X M5 rivnuts for pushrim fitting - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	 mm/"	 mm	 mm	 g	 kg	Part no.
Black pearl/Black pearl	Ø12	48	59	-	75	234T01
Black pearl/Black pearl	Ø½"	48	59	-	75	234T51

Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Pushrim	Tyre	Part no. Ø12 mm	Part no. Ø½"
Black pearl/Black pearl	Silver anodized aluminium	25-540	264T01	264T51
Black pearl/Black pearl	Black anodized aluminium	25-540	264T02	264T52
Black pearl/Black pearl	Mirror polished stainless steel	25-540	264T03	264T53

» 20" and 22" wheels are also available

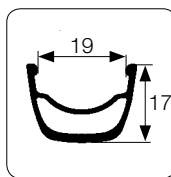


# SPECIAL WHEELS

## TRISTAR WITH CENTRE BRAKE (24")



INNOVA  
SpeedLite  
25mm



Rim type  
DW1





Centre  
brake



Pushrim fitting  
"Type B" with  
6 splices

24"/Ø540 mm

Bare wheels incl. M5 rivnuts, brake plate, brake arm etc. - excl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Bushing dims. for fitting	 g	 kg	Part no. right side	Part no. left side
Black pearl/Black pearl	M16 X 50 mm		75	234T31	234T32

Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Bushing dims. for fitting	Pushrim	Tyre	Part no. right side	Part no. left side
Black pearl/Black pearl	M16 X 50 mm	Silver anodized aluminium	25-540	264T31	264T32
Black pearl/Black pearl	M16 X 50 mm	Black anodized aluminium	25-540	264T33	264T34
Black pearl/Black pearl	M16 X 50 mm	Mirror polished stainless steel	25-540	264T35	264T36

» 20" and 22" wheels are also available

# SPECIAL WHEELS

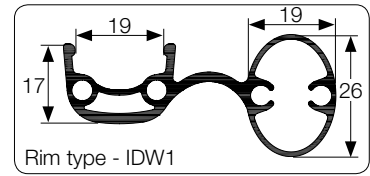
## TRISTAR WITH INTEGRATED PUSHRIM (24")



INNOVA  
SpeedLite  
25mm



Hub








Rim type - IDW1

Integrated rim and pushrim in  
cast aluminium

24"/Ø540 mm

### Bare wheels incl. pushrim - excl. tyre and tube

Colour alu. rim/alu. hub	 mm/"	 mm	 mm	 g	 kg	Part no.
Black pearl/Black pearl	ø12	48	59	-	75	234101
Black pearl/Black pearl	ø½"	48	59	-	75	234151

### Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Pushrim	Tyre	Part no. ø12 mm	Part no. ø½"
Black pearl/Black pearl	Black pearl aluminium	25-540	264101	264151

» 20" and 22" wheels are also available

# SPECIAL WHEELS

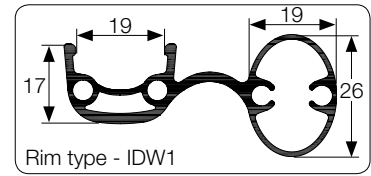
## TRISTAR WITH CENTRE BRAKE AND INTEGRATED PUSHRIM (24")



INNOVA  
SpeedLite  
25mm



Hub





Rim type - IDW1

Integrated rim and pushrim in  
cast aluminium

24"/Ø540 mm

Bare wheels incl. pushrim, brake plate, bushing, brake arm etc. - excl. tyre and tube

Colour alu. rim/alu. hub	Bushing dims. for fitting	 g	 kg	Part no. right side	Part no. left side
Black pearl/Black pearl	M16 X 50 mm		75	234I31	234I32

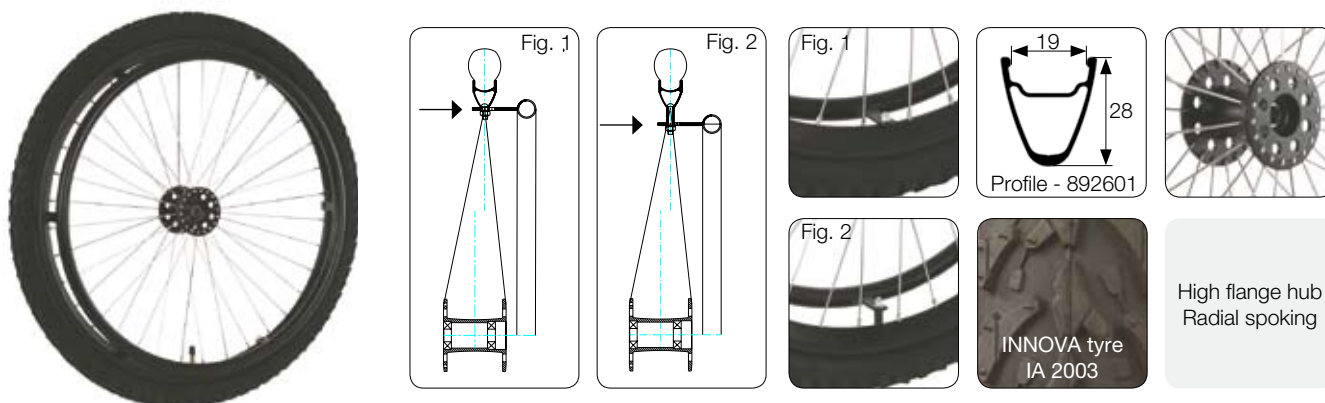
Complete wheels - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	Bushing dims. for fitting	Pushrim	Tyre	Part no. right side	Part no. left side
Black pearl/Black pearl	M16 X 50 mm	Black pearl aluminium	25-540	264I31	264I32

» 20" and 22" wheels are also available






# SPECIAL WHEELS

## OFF-ROAD CHALLENGER (24") - TWO PUSHRIM FITTING OPTIONS




24"/Ø507 mm

### Bare wheels with 10 mm off-set high flange hub - excl. tyre and pushrim

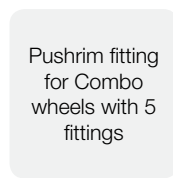
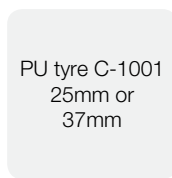
Colour alu. rim/alu. hub	Hub type	 mm/"	 mm	 mm	 Holes	 kg	Part no.
Black/Black	F5	ø12	53	64	6	75	234EXA
Black/Black	F5	ø½"	53	64	6	75	234EZA

### Complete wheels with 10 mm off-set high flange hub - incl. tyre, tube and pushrim

Colour alu. rim/alu. hub	 mm/"	No. of spokes	Pushrim	Fig.	Pushrim diameter mm	Part no.
Black/Black	ø12	36	Black powder-coated aluminium, fitted directly on rim	1	482	264EXG
Black/Black	ø12	36	Black powder-coated aluminium, fitted with long screws	2	450	264EXH
Black/Black	ø½"	36	Black powder-coated aluminium, fitted directly on rim	1	482	264EZG
Black/Black	ø½"	36	Black powder-coated aluminium, fitted with long screws	2	450	264EZH

# SPECIAL WHEELS

## COMBO (24")







PU tyre C-1001  
25mm or  
37mm

IA 2806


Pushrim fitting  
for Combo  
wheels with 5  
fittings

24"/Ø540 mm

### Bare wheels incl. 5 spokes and pushrim - excl. tyre, tube and distance tube

Colour rim/hub	 mm/"	 mm	 mm	Pushrim	 kg	Part no.
Black alu./Black plastic	Ø12	48	59	Black powder coated aluminium	75	254C11
Black alu./Black plastic	Ø12	48	59	Silver anodized aluminium	75	254C12
Black alu./Black plastic	Ø½"	48	59	Black powder coated aluminium	75	254C61
Black alu./Black plastic	Ø½"	48	59	Silver anodized aluminium	75	254C62

### Complete wheels incl. tyre, tube and pushrim - excl. distance tube

Colour rim/hub	 mm/"	Pushrim	Tyre	Pattern pneumatic/polyurethane	Part no. pneumatic	Part no. polyurethane
Black alu./Black plastic	Ø12	Black powder coated aluminium	37-540	IA-2205/C-1001	264C11	284C11
Black alu./Black plastic	Ø12	Silver anodized aluminium	37-540	IA-2205/C-1001	264C12	284C12
Black alu./Black plastic	Ø½"	Black powder coated aluminium	37-540	IA-2205/C-1001	264C61	284C61
Black alu./Black plastic	Ø½"	Silver anodized aluminium	37-540	IA-2205/C-1001	264C62	284C62
Black alu./Black plastic	Ø12	Black powder coated aluminium	25-540	IA-2806/C-1001	264C16	284C16
Black alu./Black plastic	Ø12	Silver anodized aluminium	25-540	IA-2806/C-1001	264C17	284C17
Black alu./Black plastic	Ø½"	Black powder coated aluminium	25-540	IA-2806/C-1001	264C66	284C66
Black alu./Black plastic	Ø½"	Silver anodized aluminium	25-540	IA-2806/C-1001	264C67	284C67

### Options and features

- » Wheels with distance tube for bolt fitting can be made on request
- » Rim and spokes for Combo wheel is made in aluminium
- » Hub is made of black PA6 + 30%
- » Spokes and/or rims can be painted to match colour of wheelchair





# SPECIAL WHEELS

## JUMBO WHEEL WITH INTEGRATED PUSHRIM (22" - 36")







### 22"-26" wheels with tyre and Flexel®

#### Complete wheels incl. pushrim, tyre and Flexel®

Size	Colour alu. rim/alu. hub	 mm	 mm	 mm	 kg	Tyre	Part no.
22" / 489mm	Black/Untreated	ø12	53	64/81	-	22" x 1" Grey IA-2806	272AYD
24" / 540mm	Black/Untreated	ø12	53	64/81	-	24" x 1" Grey IA-2806	274AYD
26" / 590mm	Black/Untreated	ø12	53	64/81	-	26" x 1" Grey IA-2806	276AYD

### 29"- 36" with polyurethane tyres

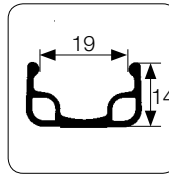
#### Complete wheels incl. polyurethane tyres

Size	Colour alu. rim/alu. hub	 mm	 mm	 mm	 kg	PU Tyre	Part no.
29" / 683,4	Black/Untreated	ø12	53	64/81	-	29" x 1" Grey C-1007	28CAYD
32" / 735,4	Black/Untreated	ø12	53	64/81	-	32" x 1" Grey C-1007	28AAYD
36" / 839,4	Black/Untreated	ø12	53	64/81	-	36" x 1" Grey C-1007	28BAYD



# SPECIAL WHEELS

## DRAISINE WHEEL (20")








INNOVA  
IA 2601  
20 x 1,75

Rim type  
SW1

Galvanized  
steel hub and  
36 galvanized  
steel spokes

20"/406mm with tyre and tube

### Wheel incl. tyre and tube

Colour Alu.rim/ steel hub	Hub type	 mm/"	 mm	 mm	 g	 kg	No. of spokes	Part no.
Silver/Galvanized	Draisine	Ø12	53	59	1465	75	36	240APB



The Draisine wheel is for use on wheelchairs with hand drive. A bar is fixed to the hub in the front wheel. When the wheelchair user pushes/pulls the bar by hand the wheel chair moves.

- » Good for wheelchair users with limited strength in the arms
- » The shoulders of the wheelchair user do not have to move





PRODUCT GROUP 4  
**TYRES & TUBES**



**CONTENT**

**TYRES..... 134**  
Unit conversion..... 134  
Grey and black tyres 3"-26"..... 134

**TUBES ..... 140**  
About valves..... 140  
Tubes for manual wheelchairs ..... 141  
Tubes for powered wheelchairs..... 141

# TYRES

## Unit conversion

### Air pressure

1 Psi = 0,0069 bar

1 bar = 14,5 Psi

Bar is the atmospheric pressure at the sea level.

Psi is 1 pound of force per square inch.

## Grey and black tyres 3"-26"



IA 2202

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
20" x 1 3/8"	37-451	65/4.5	412077	-
22" x 1 3/8"	37-489	65/4.5	412277	-
24" x 1 3/8"	37-540	65/4.5	412477	-
26" x 1 3/8"	37-590	65/4.5	412677	-



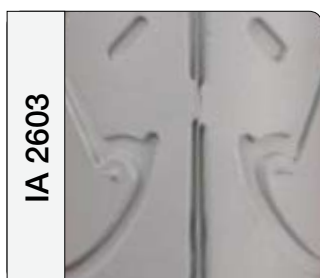
IA 2205

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
20" x 1 3/8"	37-451	65/4.5	412061	-
22" x 1 3/8"	37-489	65/4.5	412261	-
22" x 1 3/8"	37-498	65/4.5	412262	-
22" x 1 3/8"	37-501	65/4.5	412263	-
24" x 1 3/8"	37-540	65/4.5	412461	-
26" x 1 3/8"	37-590	65/4.5	412661	-



IA 2601

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
12½" x 2¼"	57-203	35/2.5	411262	431262
16" x 1.75"	47-305	35/2.5	411662	431662
18" x 1.75"	47-355	35/2.5	411862	431862
20" x 1.75"	47-406	35/2.5	412062	432062



IA 2603

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
12½" x 2¼"	57-203	35/2,38	411291	-
16" x 1.75"	47-305	35/2,38	411691	-

# TYRES



Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
8½" x 2"	-	35/2.5	410863	-
10" x 2"	-	35/2.5	411063	-
12½" x 2¼"	57-203	30/2.1	411263	-



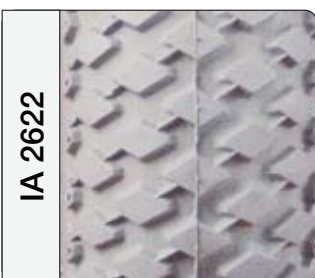
Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
5" x 1"	-	85/6.0	410556	-
6" x 1¼"	-	85/6.0	410656	-



Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
5" x 1"	-	85/6.0	410557	-
200 x 50	-	85/6.0	410859	410857



Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
4" x 1"	-	100/7.0	410456	-



Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
200 x 50	-	36/2,41	410865	430865

# TYRES



IA 2801

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
7" x 1 3/4"	-	36/2.5	410751	-
8 1/2" x 2"	-	36/2.5	410851	-
10" x 2"	-	36/2.5	411051	-



IA 2802

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
6" x 1 1/4"	-	36/2.5	410652	-
8" x 1 1/4"	-	36/2.5	410852	-
200 x 50	-	36/2.5	410853	-
2.50" - 3"	-	50/3.5	420351	-
2.80/2.50" - 4"	-	50/3.5	420451	-
3.00" - 4"	-	50/3.5	420452	-



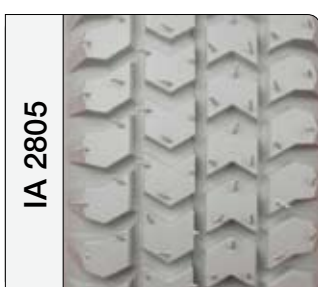
IA 2803

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
22" x 1 3/8"	37-501	65/4.5	412278	-
24" x 1 3/8"	37-540	65/4.5	412478	-



IA 2804

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
3.00" - 4"	-	50/3.5	420461	440461
4.10/3.50" - 4"	-	50/3.5	420462	440462
4.00" - 5"	-	50/3.5	420561	440561
4.10/3.50" - 5"	-	50/3.5	420562	440562
4.10/3.50" - 6"	-	50/3.5	420661	440661
3.00" - 8"	-	50/3.5	420861	440861
3.00" - 10"	-	50/3.5	421061	-

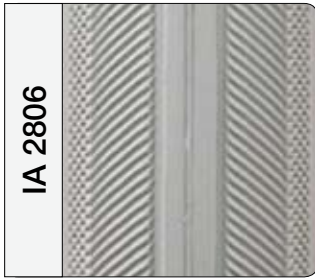


IA 2805

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
3.00" - 4"	-	50/3.5	420472	440472
4.10/3.50" - 5"	-	50/3.5	420572	440572
4.10/3.50" - 6"	-	50/3.5	420672	440672
3.00" - 8"	-	50/3.5	420872	440872



# TYRES



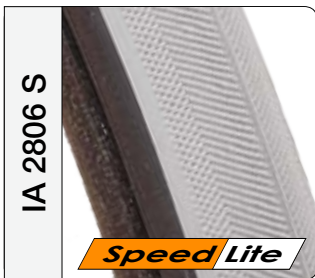
IA 2806

Size	ETRTO	Pressure psi/bar	Weight approx. g	Part no. grey	Part no. grey/black
20" x 1"	25-451	110/7.5	300	412051	412054
22" x 1"	25-489	110/7.5	325	412251	412254
22" x 1"	25-498	110/7.5	335	412252	412255
24" x 1"	25-540	110/7.5	365	412451	412454
25" x 1"	25-559	110/7.5	375	412551	412554
26" x 1"	25-590	110/7.5	395	412651	412654



IA 2805 S

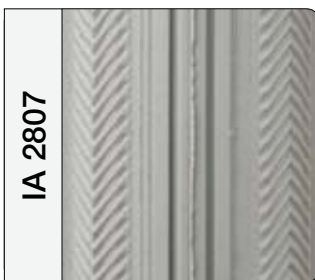
Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
300/90" - 8"	-	58/4	-	440873



IA 2806 S

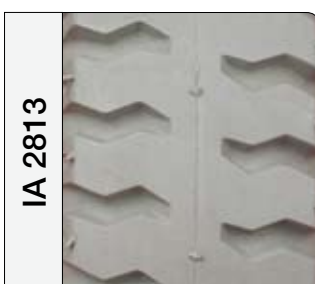
Size	ETRTO	Pressure psi/bar	Weight approx. g	Part no. grey/black
24" x 1"	25-540	110/7,5	225	412481
25" x 1"	25-559	110/7,5	233	412581
26" x 1"	25-590	110/7,5	246	412681

» Tyre with black skinwalls and steel wire



IA 2807

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
20" x 1¼"	32-451	90/6.3	412057	-
22" x 1¼"	32-489	90/6.3	412257	-
22" x 1¼"	32-498	90/6.3	412258	-
24" x 1¼"	32-540	90/6.3	412457	-



IA 2813

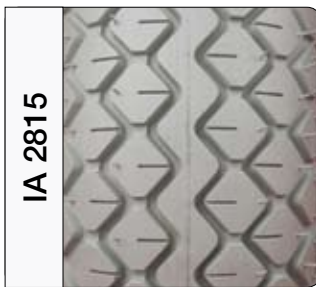
Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
2.50" - 4"	-	50/3.5	420471	-

# TYRES



IA 2814

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
12½" x 2¼"	57-203	30/2.1	411271	431271
14" x 2"	37-254	35/2,4	411471	-



IA 2815

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
4.00" - 5"	-	50/3.5	420571	-



IA 2817

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
2.80/2.50" - 4"	-	50/3.5	420463	-
3.00" - 4"	-	50/3.5	420464	-
2.50" - 8"	-	50/3.5	420864	-



IA 2818

Size	ETRTO	Pressure psi/bar	Weight approx. g	Part no. grey	Part no. grey/black
22" x 1"	25-489	110/7.5	370	412271	412274
24" x 1"	25-540	110/7.5	410	412471	412474



K 422

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
3.00" - 10"	-	36/2.5	421001	-

# TYRES



SA 001

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
6" x 1¼"	-	25/1.75	410654	-
7" x 1¼"	-	25/1.75	410754	-
8" x 1¼"	-	25/1.75	410854	-
8½" x 2"	-	25/1.75	410855	-
9" x 1¼"	-	25/1.75	410954	-
10" x 1¼"	-	25/1.75	411054	-
10" x 2"	-	35/1.75	411055	-
12½" x 2¼"	57-203	30/2.1	411254	-
16" x 1.75"	47-406	35/2.5	411654	-



HV 5104

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
16" x 2.125"	57-305	90/6	-	431651
20" x 2.125"	57-406	90/6	-	432051



IA 2003

Size	ETRTO	Pressure psi/bar	Part no. grey	Part no. black
24" x 1.75" x 2"	47-507	90/6	-	432436

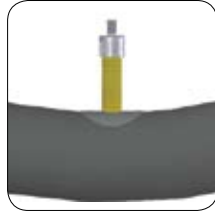
# TUBES

## About valves

### Valves - three types:



Car valve/Schrader

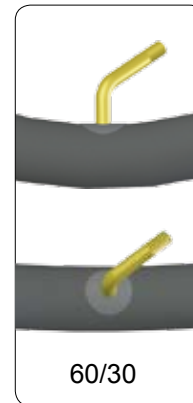
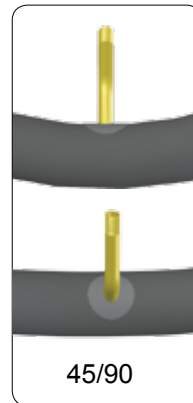
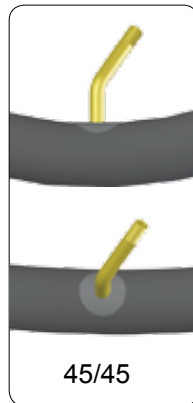
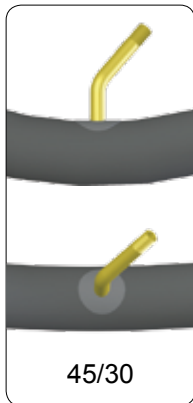
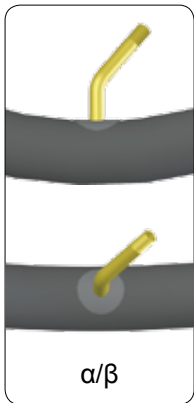
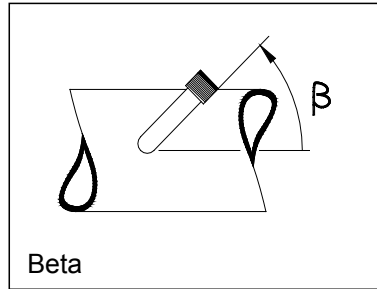
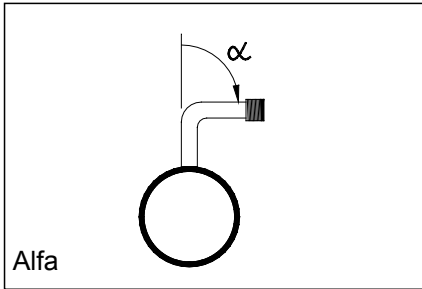


Bicycle valve/Dunlop



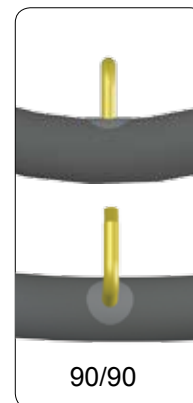
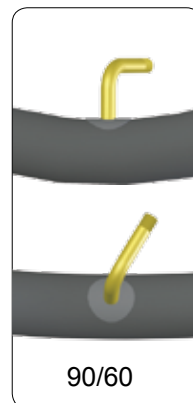
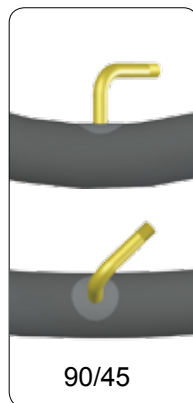
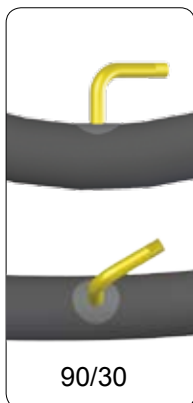
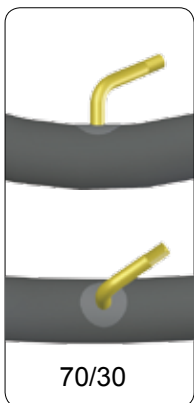
Racer valve/Presta

### Valves - varied shapes:



View from the side ( $\alpha$ )

View from above ( $\beta$ )



View from the side ( $\alpha$ )

View from above ( $\beta$ )

## Tubes for manual wheelchairs

Size	ETRTO	Valve angle $\alpha/\beta$	Part no.		
			Schrader	Dunlop	Presta
5" x 1¼"	-	70/30	450510	-	-
6" x 1¼"	-	45/45	450601	-	-
7" x 1.75"	-	90/90	450703	-	-
7" x 1.75"	-	45/45	450704	-	-
200 x 50	-	90/90	450801	-	-
8" x 1¼"	-	45/45	450805	-	-
10" x 2"	-	Straight	451006	-	-
12½" x 2¼"	62-203	Straight	451202	-	-
16" x 1.75" x 2.125"	47/57-305	Straight	451601	-	-
18" x 1.75" x 2.125"	47-355	Straight	451802	-	-
20" x 1½"	37-451	Straight	452001	-	-
20" x 1.75" x 2.125"	47/57-406	Straight	452002	-	-
20" x 1"	25-451	Straight	452005	-	-
22" x 1½"	37-489/501	Straight	452201	-	-
22" x 1"	25-489/501	Straight	452202	-	-
24" x 1"	25-540	Straight	452406	-	-
24" x 1" (extra light)	20/28-540	Straight	-	-	472410
24" x 1½"	37-540	Straight	452403	472401	-
24" x 1.75" x 2.125"	57-507	Straight	452404	-	-
25" x 1"	25-559	Straight	452501	-	-
25" x 1" (extra light)	18/25-559	Straight	-	-	472510
26" x 1"	25-590	Straight	452601	-	-
26" x 1½"	37-590	Straight	452602	-	-

## Tubes for powered wheelchairs

Size	ETRTO	Valve		Part no. Schrader
		$\alpha/\beta$		
2.50" - 3" (210 x 65)	-	90/90		450301
2.80/2.50" - 4"	-	90/90		450401
3.00" - 4" (260 x 85)	-	90/90		450402
4.00" - 4"	-	90/90		450404
4.00" - 4"	-	45/45		450406
4.10/3.50" - 4"	-	90/90		450403
4.10/3.50" - 5"	-	90/90		450501
4.10/3.50" - 6"	-	90/90		450611
2.50" - 8"	-	90/90		450810
3.00" - 8"	-	90/90		450811
3.00" - 8"	-	Straight		450812





# PRODUCT GROUP 5

## PUNCTURE PROOF SOLUTIONS



### CONTENT

<b>SOLID TYRES.....</b>	<b>144</b>
Polyurethane tyres 12"-16" .....	145
Polyurethane tyres 20"-36" .....	146
<b>INSERTS &amp; INFILLS .....</b>	<b>149</b>
FLEXEL <sup>®</sup> LITE infill for powerchairs (polyurethane based).....	149
FLEXEL <sup>®</sup> infill for powerchairs (rubber based) .....	150
FLEXEL <sup>®</sup> LITE inserts (polyurethane based) .....	151
FLEXEL <sup>®</sup> inserts (rubber based).....	151
Profile inserts.....	153
<b>INNOVA TYRES FOR INSERTS AND INFILLS .....</b>	<b>154</b>
<b>FITTING TOOLS .....</b>	<b>155</b>
Fitting tools for FLEXEL <sup>®</sup> and FLEXEL <sup>®</sup> LITE inserts .....	155



# SOLID TYRES FOR 12"- 36" WHEELS




- » Puncture-proof and maintenance-free
- » No need to inflate
- » Constant tyre pressure
- » Suitable for indoor use with light manual wheel chairs
- » Moderately shock absorbing
- » Low rolling resistance

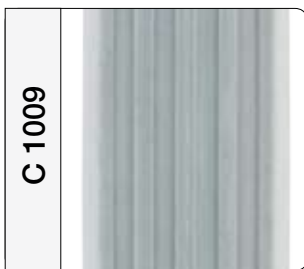


## Polyurethane tyres 12"-16"






C 1005

Inches	 mm	 mm	 mm	Part no.
12½" x 2¼"	315	50	27	131262






C 1009

Inches	 mm	 mm	 mm	Part no.
12½" x 2¼"	315	39	27	131253*
12½" x 2¼"	315	42	27	131252
16" x 1¾"	400	44	27	131651

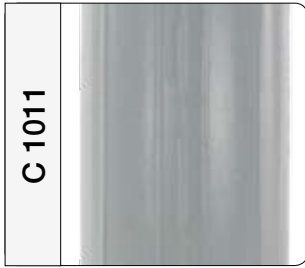
\* for rim diameter Ø25,5






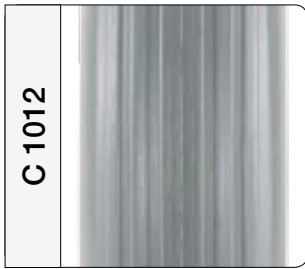
C 1010




Inches	 mm	 mm	 mm	Part no.
12½" x 2¼"	320	47	27	131261

# SOLID TYRES






Inches	 mm	 mm	 mm	Part no.
12½" x 2¼"	300	45	27	131251




Inches	 mm	 mm	 mm	Part no.
12½" x 2"	300	46	36	131200

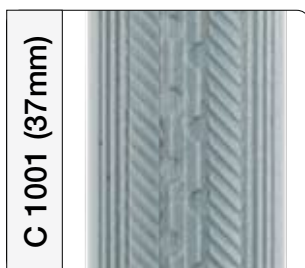


Inches	 mm	 mm	 mm	Part no.
12½" x 2¼"	320	56	36	131264

## Polyurethane tyres 20"-36"




Tyre sizes			Part no.
Inches	ETRTO	mm	
22" x 1"	25-489	19	132251
24" x 1"	25-540	19	132451
26" x 1"	25-590	19	132651

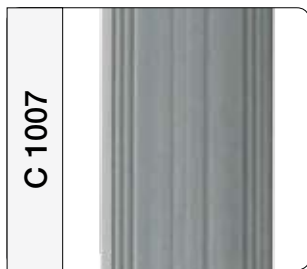


Tyre sizes			Part no.
Inches	ETRTO	mm	
20" x 1 3/8"	37-451	19	132061
22" x 1 3/8"	37-489	19	132261
22" x 1 3/8"	37-498/501	19	132262
24" x 1 3/8"	37-540	19	132461
26" x 1 3/8"	37-590	19	132661

# SOLID TYRES




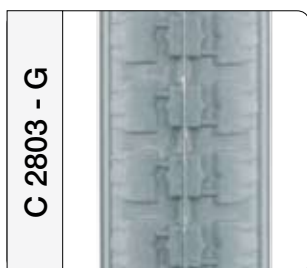
Tyre sizes			Part no.
Inches	ETRTO	mm	
20" x 1"	25-451	19	132081
24" x 1"	25-540	19	132481




Tyre sizes			Part no.
Inches	ETRTO	mm	
29" x 1"	26-683	19	132900
32" x 1"	26-735	19	133200
36" x 1"	26-839	19	133600



Tyre sizes			Part no.
Inches	ETRTO	mm	
20" x 1 3/8"	37-451	19	132071
22" x 1 3/8"	37-489	19	132271
22" x 1 3/8"	37-498/501	19	132272
24" x 1 3/8"	37-540	19	132471
26" x 1 3/8"	37-590	19	132671



Tyre sizes			Part no.
Inches	ETRTO	mm	
20" x 1 3/8"	37-451	19	132077
22" x 1 3/8"	37-489	19	132277
24" x 1 3/8"	37-540	19	132477



## **FLEXEL® LITE...**

- » Polyurethane based
- » Available in sizes 3"-12"
- » Puncture-proof and maintenance-free
- » Shock absorbing
- » Low rolling resistance
- » Low weight - lighter than Flexel®



## INSERTS & INFILLS

- » Infill Flexel® is a one-piece product where Flexel® material is moulded into the tyre. It is used for high volume tyres which are fitted on power wheelchairs.
- » Insert Flexel® is loose Flexel® which need to be inserted into a tyre. Used for tyres from 10-28" and recommended for tyre sizes 3.00-8 and 2.50-8" where is it possible to fit it.



### FLEXEL® LITE infill for power chairs (polyurethane based)



- » Shock absorbing
- » Low rolling resistance
- » Low weight
- » Water based and therefore environmentally friendly

Tyre size	FLEXEL®LITE width (mm)	Internal rim width (mm)	INNOVA tyre tread pattern no.	Part no. INNOVA TYRE	Weight (g)	Part no. grey tyre
2.50 - 3	42	35-40	IA 2802	420351	1070	130300
2.80/2.50 - 4	58	50-55	IA 2817	420463	1200	130422
3.00 - 4	58	50-55	IA2805	420472	1870	130413
7 x 1¾	32	27-28	IA 2801	410751	395	130702
200 x 50	32	27-28	IA 2802	410853	615	130861
3.00-8	36	30-35	IA2805	420872	2490	130807
3.00-8	48	40-45	IA 2805	420872	2540	130806
3.00-8	53	45-50	IA2805	420872	2590	130882
12½ x 2¼	42	35-40	IA 2814	411271	1330	131204
12 ½ x 2¼	42	35-40	SA 001	411254	1010	131205

# INSERTS AND INFILLS

## FLEXEL infill for power chairs (rubber based)



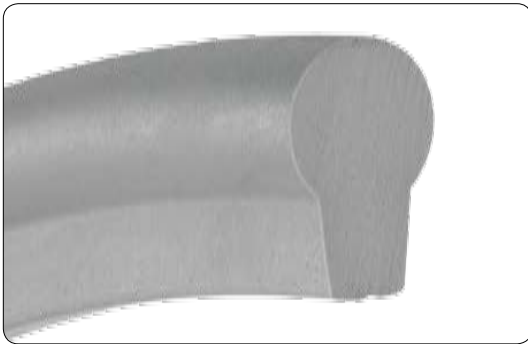
### FLEXEL® infill for power chairs

- » Shock absorbing
- » Low rolling resistance
- » Tyres 3" - 6" are supplied with a moulded FLEXEL® infill
- » Larger tyres are supplied with a loose FLEXEL® infill which can be used on both one piece and split rims

Tyre size	Flexel® Width (mm)	Internal rim width (mm)	INNOVA tyre tread pattern no.	Weight (kg)	Part no. grey tyre
7 x 1¼	32	27-28	IA 2801	0,45	520301
200 x 50	32	27-28	IA 2802	0,80	520402
200 x 50	32	27-28	IA 2622	0,80	520403
2.50 - 3	42	35-40	IA 2802	1,33	520416
2.80/2.50-4	58	50-55	IA 2817	1,60	520423
2.80/2.50-4	63	55-60	IA 2817	1,60	520422
2.80/2.50-4	37	30-35	IA 2817	1,60	520426
2.80/2.50-4	43	35-40	IA2802	1,55	520427
3.00-4	58	50-55	IA2802	2,55	520432
3.00-4	63	55-60	IA2802	2,60	520433
3.00-4	72	65-70	IA2802	2,65	520435
3.00-4	58	50-55	IA 2805	2,60	520451
3.00-4	63	55-60	IA 2805	2,65	520453
3.00-4	68	60-65	IA 2805	2,70	520454
3.00-4	72	65-70	IA 2805	2,75	520455
3.00-4	58	50-55	IA 2804	2,60	520463
3.00-4	63	55-60	IA 2804	2,65	520461
3.00-4	72	65-70	IA 2804	2,70	520462
410/3.50-4	68	60-65	IA 2804	2,95	520481
410/3.50-5	68	60-65	IA 2804	3,10	520502
4.10/3.50-6	67	60-65	IA 2804	3,90	520602
2.50-8	40	33-38	IA 2817	2,87	520828
2.50-8	48	40-45	IA 2817	3,00	520809
2.50-8	58	50-55	IA 2817	3,20	520819
3.00-8	36	30-35	IA2805	3,40	520815
3.00-8	36	30-35	IA 2804	3,40	520820
3.00-8	54	47-52	IA2805	3,40	520813
3.00-8	58	50-55	IA 2804	3,40	520803

# INSERTS AND INFILLS

## FLEXEL®LITE inserts (polyurethane based)



### FLEXEL®LITE inserts

- » 100% environmentally friendly

Suitable for tyre sizes Inches/ETRTO	Weight (g)	Part no.
5 x 1	-	130501
6 x 1 ¼	-	130600
8 x 1 ¼	-	13080D
20"/25-451	270	1320D1
22"/25-489	290	1322D1
24"/25-540	310	1324D1
22"/37-489	-	1322G1
24"/37-540	510	1324G1

## FLEXEL® inserts (rubber based)



### FLEXEL® inserts for tyres

- » 100% puncture-proof tyre
- » Shock absorbing
- » Low rolling resistance

Tyre size		Inner width (mm)	Flexel® type	Weight Flexel® (g)	INNOVA tyre tread pattern	Part no. INNOVA tyre	Part no. Flexel®
Inches/Size	ETRTO						
6 x 1¼	32-87	19	D2	175	IA 2614 udgået	410657	510617
6 x 1¼	32-87	19	D2	175	IA 2613	410656	510617
6 x 1¼	32-87	19	D2	175	IA 2802	410652	510617
6 x 1¼	32-87	19	D2	175	SA 001	410654	510617
7 x 1¼	47-54	27	D3	280	IA 2801	410751	510718
8 x 1¼	32-137	19	D3	260	IA 2802	410852	510818
200 x 50	50-94	27	M3	450	IA 2614 udgået	410859	510863
200 x 50	50-94	27	M3	450	IA 2802	410853	510863

Continues on the next page...

# INSERTS AND INFILLS

Flexel inserts - continued from last page...

Tyre size		Inner width (mm)	Flexel® type	Weight Flexel® (g)	INNOVA tyre tread pattern	Part no. INNOVA tyre	Part no. Flexel®
Inches/Size	ETRTO						
10 x 2	54-152	27	D1	760	IA 2801	411051	511016
12½ x 2¼	57-203	27	F2	1060	IA 2610	411263	511227
12½ x 2¼	57-203	27	F1	1010	IA 2601	411262	511226
12½ x 2¼	57-203	27	I1	1350	IA 2814	411271	511241
3.00-8	-	For rim width 27-32	-	2000	-	-	510872
3.00-8	-	For rim width 45-50	-	2400	-	-	510874
16 x 1.75 x 2	47-305	23	D2	1000	IA 2601	411662	511617
18 x 1.75 x 2	47-355	23	D2	1100	IA 2601	411862	511817
20 x 1	25-451	19	D2	550	IA 2806	412051	512019
20 x 1½ x 1¼	32-451	19	F2	760	IA 2807	412057	512047
20 x 1¾	37-451	19	H2	840	IA 2202	412077	512057
20 x 1¾	37-451	19	H2	840	IA 2205	412061	512057
20 x 1.75 x 2	47-406	19	D2	1350	IA 2601	412062	512017
22 x 1	25-489	19	D2	600	IA 2806	412251	512217
22 x 1	25-489	19	D2	600	IA 2806	412254	512217
22 x 1	25-489	19	D2	600	IA 2818	412271	512217
22 x 1	25-489	19	D2	600	IA 2818	412274	512217
22 x 1½ x 1¼	32-489	19	F2	800	IA 2807	412257	512227
22 x 1	37-489	19	H2	950	IA 2202	412277	512237
22 x 1	37-489	19	H2	950	IA 2205	412261	512237
22 x 1	25-498	19	D2	600	IA 2806	412252	512217
22 x 1½ x 1¼	32-498	19	F2	800	IA 2807	412258	512227
22 x 1½ x 1¼	32-498	19	F2	800	IA 2205	412262	512227
22 x 1¾ x 1¼	37-501	19	H2	950	IA 2803	412278	512237
22 x 1¾ x 1¼	37-501	19	H2	950	IA 2205	412263	512237
24 x 1	25-540	19	D2	650	IA 2806S	412481	512417
24 x 1	25-540	19	D2	650	IA 2806	412451	512417
24 x 1	25-540	19	D2	650	IA 2806	412454	512417
24 x 1	25-540	19	D2	650	IA 2818	412471	512417
24 x 1	25-540	19	D2	650	IA 2818	412474	512417
24 x 1½ x 1¼	32-540	19	F2	900	IA 2807	412457	512427
24 x 1¾	37-540	19	H2	1000	IA 2202	412477	512437
24 x 1¾	37-540	19	G3	950	IA 2803	412478	512433
24 x 1¾	37-540	19	H2	1000	IA 2205	412461	512437
25 x 1	25-559	19	D2	700	IA 2806	412581	512517
25 x 1	25-559	19	D2	700	IA 2806	412551	512517
25 x 1	25-559	19	D2	700	IA 2806	412554	512517
26 x 1	25-590	19	D2	750	IA 2806	412681	512617
26 x 1	25-590	19	D2	750	IA 2806	412651	512617
26 x 1	25-590	19	D2	750	IA 2806	412654	512617
26 x 1¾	37-590	19	H2	1100	IA 2202	412677	512637
26 x 1¾	37-590	19	H2	1100	IA 2205	412661	512637

## Profile inserts

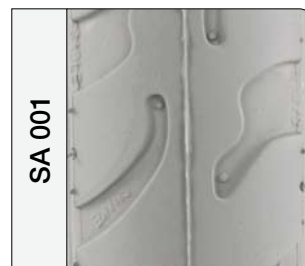
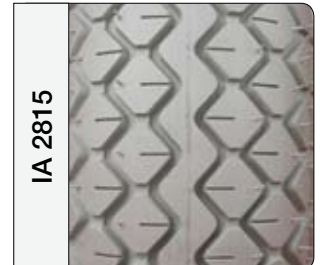
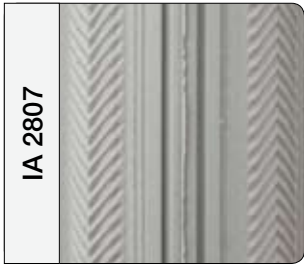
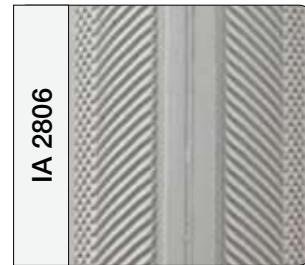
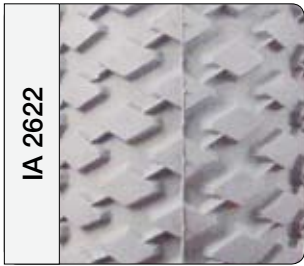
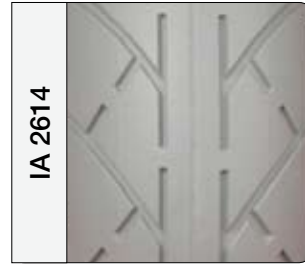
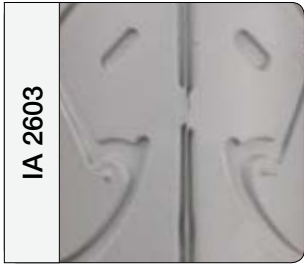
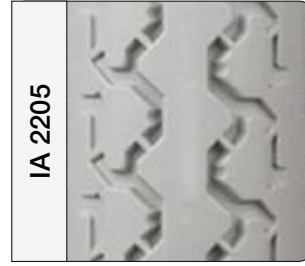


### Semi Compact FLEXEL® - profile insert

- » Can be re-used with a new tyre
- » Held in place by the tube
- » Reduces the risk of puncture
- » Other sizes are available on request

For tyre size	Outer dimensions	For tyre shape	Weight	Part no.
3.00-4"	260 x 85	Round	440	570401
4.10/3.50-6"	325 x 90	Round	530	570601
3.00-8"	350 x 80	Flat	650	570802

# INNOVA TYRES FOR INSERTS AND INFILLS





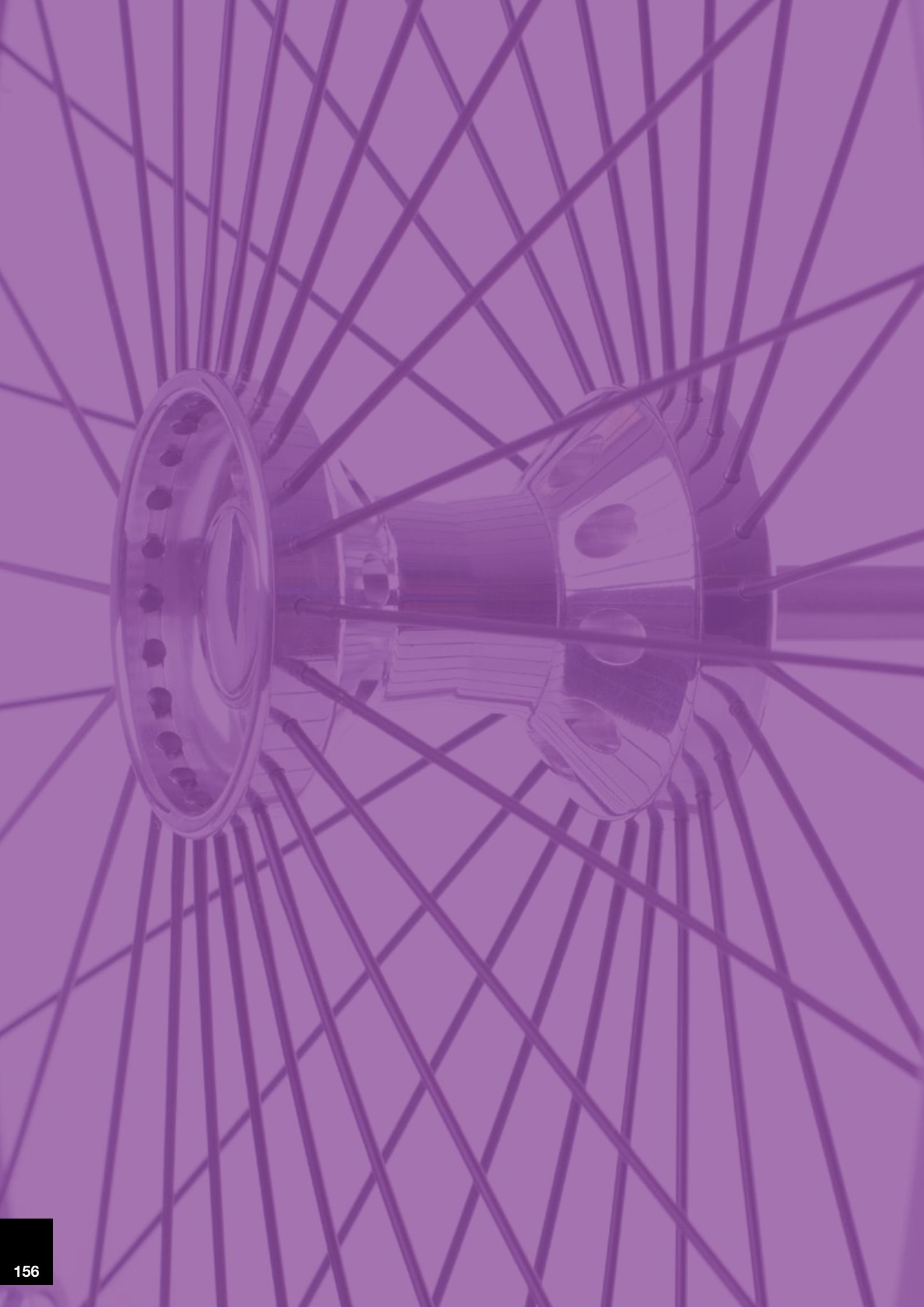
## Fitting tools



### Fitting tools for FLEXEL® and FLEXEL® Lite inserts

- » Solid tyre lever of hardened steel with plastic coated handle
- » Lubricant for easy fitting

Description	Part no.
Tyre lever of hardened steel with plastic coated handle, 22mm	491002
Lubricant for fitting Flexel 500 ml	542002





**CONTENT**

**HUBS ..... 158**  
Hubs which are sold individually ..... 158  
Hubs which are sold only as a part of a wheel assembly ..... 159  
Drum brake hub-sets and brake plate sets ..... 162

**QR AXLES, QR AXLE-SETS AND BOLT-SETS ..... 164**  
QR axles ..... 164  
QR axles for specific hubs ..... 165  
QR axles, QR axle sets and bolt sets for MBL wheel assemblies . 166  
Mini QR axles and position locks ..... 169

**BUSHINGS, NUTS AND WASHERS ..... 170**  
Bushings for QR axles ..... 170  
Nuts and washers ..... 171

# HUBS



< Cross spoking



Radial spoking >

## Spokes





Available types:

- » Galvanized steel
- » Stainless steel
- » Butted stainless steel
- » Fiber spokes

## Hubs which are sold individually

### Type F1: Standard steel hub (for cross and radial spoking)







 mm	 mm	 mm	Holes for spokes	 g	Part no. chrom.pl.	Part no. galvanized	Part no. black KTL
ø12	48	59	36	-	69667A	69667B	69667C
ø12	53	58	36	-	69667D	69667E	69667F
ø12	53	64	36	-	69667G	69667H	69667I
ø½"	48	59	36	-	69668A	69668B	69668C
ø½"	53	58	36	-	69668D	69668E	69668F
ø½"	53	64	36	-	69668G	69668H	69668I

» Spacer for use with solid axle is standard for these hubs0





### Type F2: Standard aluminium hub (for cross and radial spoking)



 mm	 mm	 mm	Holes for spokes	 g	Part no. silver	Part no. black
ø12	48	59	36	114	696051	696053
ø12	53	64	36	120	696061	696063
ø12	59	70	36	128	696071	696073
ø½"	48	59	36	114	696151	696153
ø½"	53	64	36	120	696161	696163
ø½"	59	70	36	128	696171	696173

### Type F4: High flange hub (for radial spoking)







 mm	 mm	 mm	Holes for spokes	 g	Part no. silver	Part no. black
ø12	48	65	36	165	696558	696559
ø½"	48	65	36	165	696568	696569

# HUBS





## Type F5: High flange hub (for cross and radial spoking)



 mm	 mm	 mm	Holes for spokes	 g	Part no. silver	Part no. black
ø12	53	64	36	145	696550	696552
ø½"	53	64	36	145	696560	696562

## Type R1: Radial hub (for radial spoking)



 mm	 mm	 mm	Holes for spokes	 g	Part no. silver	Part no. black
ø12	48	70	36	100	696262	696266
ø12	48	70	24	100	-	696298
ø½"	48	70	36	100	696362	696366
ø½"	48	70	24	100	-	69635C

Hubs which are only sold as part of a wheel assembly

### Please note that...

the hubs shown below are not sold individually. They are available as a part of one of our many wheel assemblies which you can find in product group 3 "Rear wheels 16"- 36".

Please contact our sales personnel, should you have any questions.



## Type F3: Hub - "Hurricane" (for radial spoking)



 mm	 mm	 mm	Holes for spokes	 g	Part no. silver	Part no. black pearl
ø12	53	65	18	120	-	69602D
ø½"	53	65	18	120	-	69612D







## Radial hub for front wheels (for radial spoking)



 mm	 mm	 mm	Holes for spokes	 g	Part no. silver	Part no. black
ø8	45	50	12	100	-	696393

## Type O1: Octopus hub for steel spokes (for radial spoking)



 mm/"	 mm	 mm	Holes for spokes	 g	Part no. silver	Part no. black
ø12	48	70	30	140	-	696263
ø1/2"	48	70	30	140	-	696363

## Hub - "Attack" (for radial spoking)



 mm/"	 mm	 mm	Holes for spokes	 g	Part no. mirror polished	Part no. black
-	48	82	16	152	6SB143B98*	6SB143D98*

\* Part numbers shown are for hubs without bearings.

» Part number for bearings:

694024 - bearing ø12 x Ø28 x 8 mm - 6001 2RS, with black rubber seals.

694031 - bearing ø1/2" x Ø28 x 8 mm - 2RS, with rubber seals.

## Hub - "Defence" (for radial spoking)



 mm	 mm	 mm	Holes for spokes	 g	Part no. Mirror polished	Part no. Black
-	48	82	48	-	6SB162B98*	6SB162D98*

\* Part numbers shown are for hubs without bearings.

» Part number for bearings:

694024 - bearing ø12 x Ø28 x 8 mm - 6001 2RS, with black rubber seals.

694031 - bearing ø1/2" x Ø28 x 8 mm - 2RS, with rubber seals.

## Hub - "Jumbo" (for cross and radial spoking)



 mm	 mm	 mm	Holes for spokes	 g	Part no. silver	Part no. black
ø12	53	64/81	36	-	696403	-

## Hub - "Tensio® Lightweight" (for radial spoking)



 mm/"	 mm	 mm	Holes for spokes	 g	Part no. mirror polished	Part no. black
-	53	76,3	18	64	6FE122B91*	6FE122G91*

\* Part numbers shown are for hubs without bearings.

» Part number for bearings:

694024 - bearing ø12 x Ø28 x 8 mm - 6001 2RS, with black rubber seals.

694031 - bearing ø1/2" x Ø28 x 8 mm - 2RS, with rubber seals.

## Hub - "Tensio® Standard" (for radial spoking)



 mm/"	 mm	 mm	Holes for spokes	 g	Part no. polished	Part no. black
-	53	83	18	134	6FB122B95*	6FB122G95*

\* Part numbers shown are for hubs without bearings.

» Part number for bearings:

694024 - bearing ø12 x Ø28 x 8 mm - 6001 2RS, with black rubber seals.

694031 - bearing ø1/2" x Ø28 x 8 mm - 2RS, with rubber seals.

## Hub - "Tensio® Heavy Duty" (for radial spoking)



 mm/"	 mm	 mm	Holes for spokes	 g	Part no. polished	Part no. black
-	69	103	24	147	6FD112B98*	6FD112G98*

\* Part numbers shown are for hubs without bearings.

» Part number for bearings:

694024 - bearing ø12 x Ø28 x 8 mm - 6001 2RS, with black rubber seals.

694031 - bearing ø1/2" x Ø28 x 8 mm - 2RS, with rubber seals.



## Micro hub

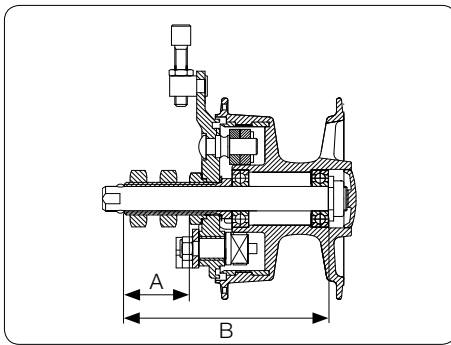


mm/"	mm	mm	Holes for spokes	g	Part no. polished	Part no. black
-	58	70	18	31	696292*	-
-	58	70	18	32	696291*	-

\* Part numbers shown are for hubs without bearings.

- » Part number for bearings for hub with part no.: 696292: 604043 - bearing  $\varnothing 12 \times \varnothing 21 \times B7$  mm.
- » Part number for bearings for hub with part no.: 696291: 69430C - bearing  $\varnothing 1/2" \times \varnothing 22 \times B7$  mm.

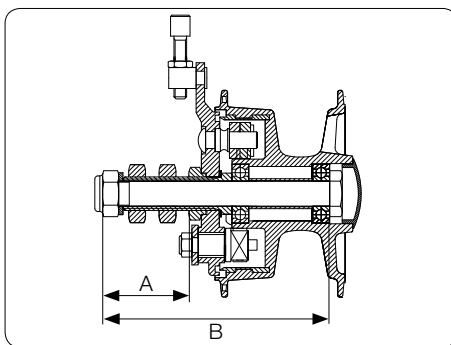
## Drum brake hub-sets and back plate sets



### Type DF1: Complete drum brake hub-set and back plate set - incl. $\varnothing 12$ mm QR axle

- » Aluminium drum  $\varnothing 70$  mm
- » Asbestos-free brake lining in the back plate
- » Every set includes M16 bushing,  $\varnothing 12$  mm QR axle etc.

Dimension $\varnothing d \times A-B$ (mm)	Colour hub	Complete hub-set		Complete back plate set	
		side A	side B	side A	side B
$\varnothing 12 \times 32-98$	Silver	693021	693022	693121	693122
$\varnothing 12 \times 42-108$	Silver	693023	693024	693123	693124

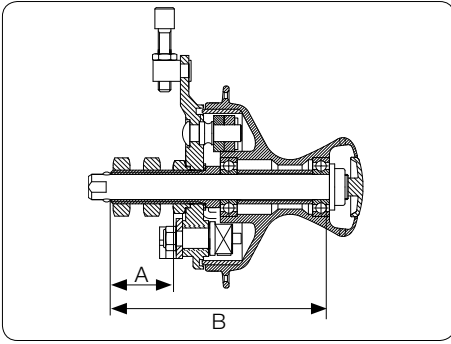


### Complete drum brake hub-set and back plate set - incl. M12 bolt

- » Aluminium drum  $\varnothing 70$  mm
- » Asbestos-free brake lining in the back plate
- » Every set includes M16 bushing, M12 axle bolt etc.

Dimension $\varnothing d \times A-B$ (mm)	Colour hub	Complete hub-set		Complete back plate set	
		side A	side B	side A	side B
$\varnothing 12 \times 32-110$	Silver	693011	693012	693111	693112
$\varnothing 12 \times 42-120$	Silver	693013	693014	693113	693114

# HUBS



## Type DO1: Complete drum brake hub-set and back plate set - incl. Ø12 mm QR axle

- » Aluminium drum Ø70 mm
- » Asbestos-free brake lining in the back plate
- » Every set is I. M16 bushing, Ø12 mm QR axle etc.

Dimension Ød x A-B (mm)	Colour hub	Complete hub-set		Complete back plate set	
		side A	side B	side A	side B
Ø12x32-104	Black	693051	693052	693901	693902



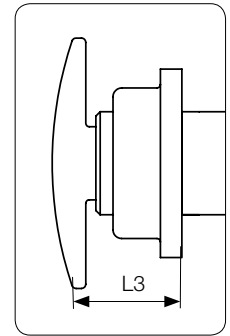
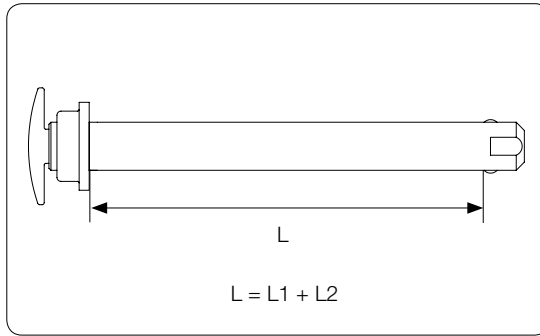
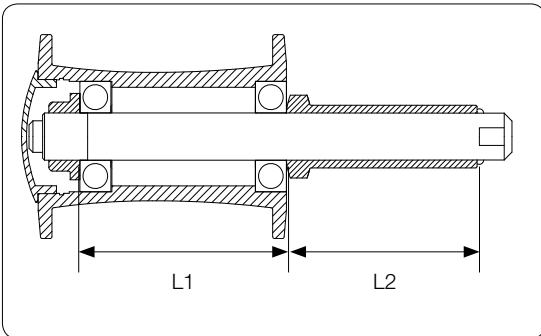
# QR AXLES, QR AXLE-SETS AND BOLT-SETS

## QR axles



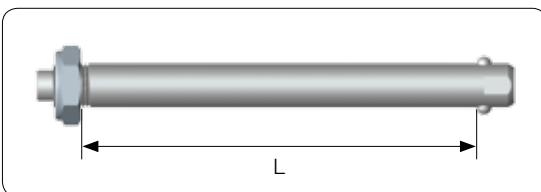
- » Hardened stainless steel
- » Push-button in aluminium
- » Customers logo on pushbutton on request
- » Load 75 kg


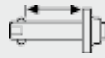
### How to find the right QR axle length?



» The hub type determines L3 distance and QR axle group

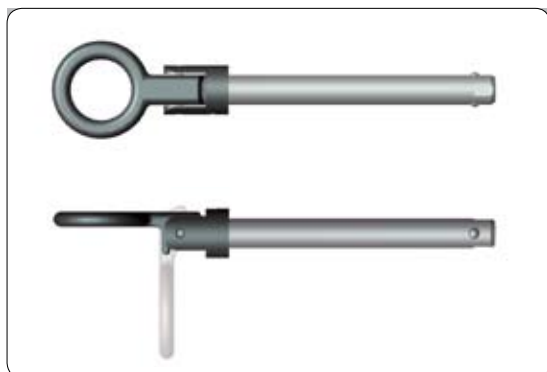
### QR axles incl. standard push-button





 mm	 mm	Part. no.
Ø12	50	611011
Ø12	85	611012
Ø12	98	611001
Ø12	99	611004
Ø12	103	611006
Ø12	104	611008
Ø12	108	611002
Ø12	123	611003
Ø 1/2"	85	611105
Ø 1/2"	99	611106
Ø 1/2"	104	611101
Ø 1/2"	108	611103
Ø 1/2"	112	611107
Ø 1/2"	122	611102

# QR AXLES, QR AXLE-SETS AND BOLT-SETS

## QR axles with tetra-grip

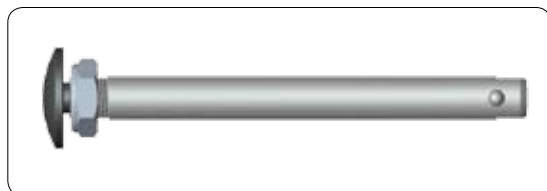


 mm	 mm	Tetra-grip colour	Part. no.
Ø12	98	Black	6180T1
D12	103	Black	6180T2
Ø ½"	99	Black	6181T1
Ø ½"	104	Black	6181T2


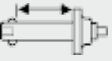
» Grip is made in black PA6 + GF

## Quick release axles for specific hubs

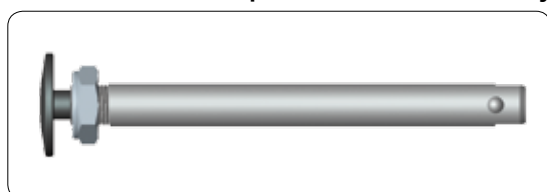
### QR axles incl. alu push-button for hub types: F1, F2, F3, F4, F5 and DF1




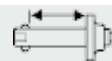
- » Please refer to product group 3 where our wheels assemblies are shown.
- » L3 distance for this group is 11 mm.

 mm	 mm	Part no. with untreated push button	Part no. with black p.c. push button	Part no. with black pearl push button
Ø12	98	618202	618252	-
Ø12	103	618203	618253	618278
Ø12	108	618204	618254	-
Ø12	109	618205	618255	-
Ø ½"	99	618302	618352	-
Ø ½"	104	618303	618353	618388
Ø ½"	110	618305	618355	-

### QR axles incl. alu push-button for hub types: F6, R2, O1, O2 and DO1

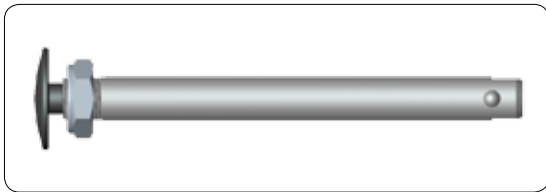



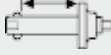
- » Please refer to product group 3 where our wheels assemblies are shown.
- » L3 distance for this group is 13 mm.

 mm	 mm	Button colour	Part. no.
Ø12	98	Black alu.	618081
Ø12	103	Black alu.	618082
Ø12	104	Black alu.	618083
Ø12	108	Black alu.	618084
Ø12	103	Black Pearl alu.	618092
Ø12	103	Polished alu.	618042
Ø12	108	Polished alu.	618044
Ø12	104	Untreated alu.	618033
Ø ½"	99	Black alu.	618181
Ø ½"	104	Black alu.	618183
Ø ½"	109	Black alu.	618184
Ø ½"	104	Black Pearl alu.	618193
Ø ½"	104	Polished alu.	618143
Ø ½"	109	Polished alu.	618144

# QR AXLES, QR AXLE-SETS AND BOLT-SETS

## QR axles incl. alu push-button for hub type: R1



 mm	 mm	Button colour	Part. no.
Ø12	98	Black	618052
Ø 1/2"	99	Black	618152

- » Please refer to product group 3 where our wheel assemblies are shown.
- » L3 distance for this group is 15 mm.

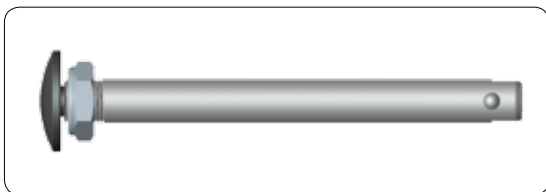
## QR axles , QR axle-sets and bolt-sets for specific hubs and wheel assemblies



### Axles for MBL "Plastic" wheels with with 53/64 mm hub

Description	Dimensions	Button/Plastic cap colour	Part. no.
Bolt set M12 x120mm <b>with</b> bushing (incl. nuts, washers, plastic cap)	120mm	black	613598
Bolt set M12 x120mm <b>without</b> bushing (incl. nuts, washers, plastic cap)	120mm	black	613599
QR axle set Ø12 x 103mm <b>with</b> bushing M16 x 1 x L50 mm (incl. nuts, washers and push button)	Ø12 x 103mm	black	6180Q2
QR axle set Ø1/2" x 103mm <b>with</b> bushing M16 x 1 x L50 mm (incl. nuts, washers and push button)	Ø1/2" x 103mm	black	6181Q2
QR axle Ø12 x 103mm incl. black push button	Ø12 x 103mm	black	6180P2
QR axle Ø1/2"x 103mm incl. black push button	Ø1/2" x 103mm	black	6181P2

- » Please refer to product group 3 where our plastic wheels are shown

### QR axles incl. push-button for Tristar wheels



 mm	 mm	Button colour	Part. no.
Ø12	98	Black Pearl alu.	618291
Ø 1/2"	99	Black Pearl alu.	618391

- » Please refer to product group 3 where Tristar wheels are shown.

### QR axles and bushings for "Attack" and "Defence" wheels

Description	Dimensions	Release button colour	Part. no.
QR- axle, stainless steel, Ø12 x 108mm with black release button	Ø12 x 108mm	black	6180S1
QR- axle, stainless steel, Ø12 x 108mm with mirror polished release button	Ø12 x 108mm	mirror polished	6180S2
QR- axle, stainless steel, Ø1/2" x 108mm with black release button	Ø1/2" x 108mm	black	6181S1
QR- axle, stainless steel, Ø1/2" x 108mm with mirror polished release button	Ø1/2" x 108mm	mirror polished	6181S2
Bushing M16 X 1mm, Ø12 X 60mm , WAF 17 X H7 hexagon, stainless steel	M16 x 1mm	-	621012
Bushing M16 X 1mm, Ø1/2" X 60mm , WAF 17 X H7 hexagon, stainless steel	M16 x 1mm	-	621141

- » Please refer to product group 3 where Attack and Defence wheels are shown

# QR AXLES, QR AXLE-SETS AND BOLT-SETS

## QR axles and bushings for TENSIO® wheels

Description	Dimensions	Release button colour	Part. no.
QR- axle for TENSIO® LIGHTWEIGHT, stainless steel, Ø12 x 113mm with black release button	Ø12 x 113mm	black	6180F2
QR- axle for TENSIO® LIGHTWEIGHT, stainless steel, Ø12 x 113mm with mirror polished release button	Ø12 x 113mm	mirror polished	6180F1
QR- axle for TENSIO® LIGHTWEIGHT, stainless steel, Ø½" x 113mm with black release button	Ø½" x 113mm	black	6181F2
QR- axle for TENSIO® LIGHTWEIGHT, stainless steel, Ø½" x 113mm with mirror polished release button	Ø½" x 113mm	mirror polished	6181F1
QR- axle for TENSIO® STANDARD, stainless steel, Ø12 x 109mm with black release button	Ø12 x 113mm	black	6180F4
QR- axle for TENSIO® STANDARD, stainless steel, Ø12 x 109mm with mirror polished release button	Ø12 x 113mm	mirror polished	6180F3
QR- axle for TENSIO® STANDARD, stainless steel, Ø½" x 109mm with black release button	Ø½" x 113mm	black	6181F4
QR- axle for TENSIO® STANDARD, stainless steel, Ø½" x 109mm with mirror polished release button	Ø½" x 113mm	mirror polished	6181F3
QR- axle for TENSIO® HEAVY DUTY, stainless steel, Ø12 x 129mm with black release button	Ø12 x 129mm	black	6180F6
QR- axle for TENSIO® HEAVY DUTY, stainless steel, Ø12 x 129mm with mirror polished release button	Ø12 x 129mm	mirror polished	6180F5
QR- axle for TENSIO® HEAVY DUTY, stainless steel, Ø½" x 129mm with black release button	Ø½" x 129mm	black	6181F6
QR- axle for TENSIO® HEAVY DUTY, stainless steel, Ø½" x 129mm with mirror polished release button	Ø½" x 129mm	mirror polished	6181F5
Bushing (for all TENSIO® wheels) M16 X 1mm, Ø12 X 60mm , WAF 17 X H7 hexagon, stainless steel	M16 x 1mm	-	621012
Bushing (for all TENSIO® wheels) M16 X 1mm, Ø½" X 60mm , WAF 17 X H7 hexagon, stainless steel	M16 x 1mm	-	621114
Bushing (for all TENSIO® wheels) M18 X 1mm, Ø12 X 60mm , WAF 17 X H7 hexagon, stainless steel	M18 x 1mm	-	621087
Bushing (for all TENSIO® wheels) M18 X 1mm, Ø½" X 60mm , WAF 17 X H7 hexagon, stainless steel	M18 x 1mm	-	621113

» Please refer to product group 3 where our TENSIO® wheels are shown

## Titanium QR axles and bushings for ultralight wheels "RIO 890T" and "RIO 930S" with steel or titanium spokes

Description	Dimensions	Release button colour	Part. no.
QR- axle in titanium, Ø12 x 103mm with polished release button	Ø12 x 103mm	polished alu.	6180SA
QR- axle in titanium, Ø½" x 103 mm with polished release button	Ø½" x 103mm	polished alu.	6181SA
Bushing in titanium, M16 X 1mm, Ø12 X 55mm, WAF 17	M16 x 1mm	-	6210F1
Bushing in titanium, M16 X 1mm, Ø½" X 55mm, WAF 17	M16 x 1mm	-	6211F1
Bushing in titanium, M17 X 1mm, Ø12 X 55mm, WAF 17	M17 x 1mm	-	6210F2
Bushing in titanium, M17 X 1mm, Ø½" X 55mm, WAF 17	M17 x 1mm	-	6211F2
Bushing in titanium, M18 X 1mm, Ø12 X 55mm, Without WAF (type 3)	M18 x 1mm	-	6210F3
Bushing in titanium, M18 X 1mm, Ø½" X 55mm, Without WAF (type 3)	M18 x 1mm	-	6211F3

» Please refer to product group 3 where our ULTRALITE RIO wheels are shown





## **MICRO HUB TECHNOLOGY**

MBL's engineers have, as the first in the world, developed and tested micro hubs for wheelchair use. Combined with a special CNC milling method for the rims, we have developed wheels weighing less than 900 grams.

Please refer to product group 3 to see our lightweight wheels.

# QR AXLES, QR AXLE-SETS AND BOLT-SETS

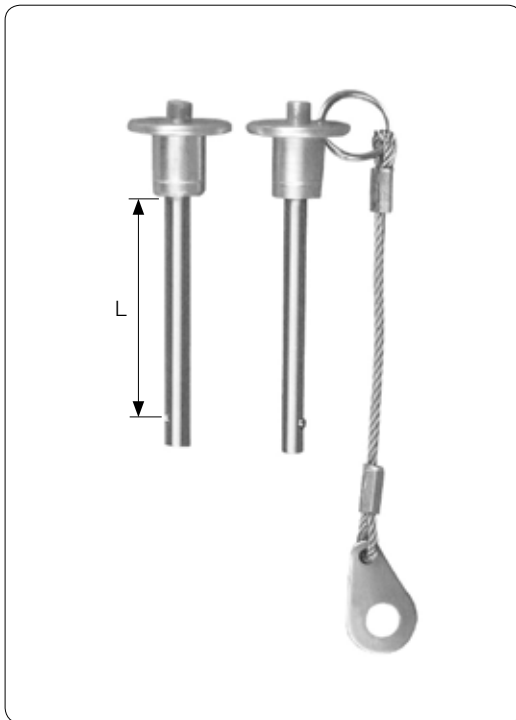
## Stainless steel QR axles and bushings for "ULTRALIGHT RIO 1000S"


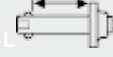
Description	Dimensions	Release button colour	Part. no.
QR-axle for Ultralight RIO 1000S, stainless steel, Ø12 x 113mm with black release button for radial hub	Ø12 x 113mm	Black	618063
QR-axle for Ultralight RIO 1000S, stainless steel, Ø12 x 113mm with mirror polished release button for radial hub	Ø12 x 113mm	Mirror polished	618064
QR-axle fo Ultralight RIO 1000S, stainless steel, Ø½" x 113mm with black release button for radial hub	Ø½" x 113mm	Black	618163
QR-axle for Ultralight RIO 1000S, stainless steel, Ø½" x 113mm with mirror polished release button for radial hub	Ø½" x 113mm	Mirror polished	618164
Bushing for Ultralight RIO 1000S, M16 x 1, D12 x 65, WAF 17 x H7 Hexagon	M16 x 1mm	-	6210A1
Bushing for Ultralight RIO 1000S, M16 x 1, D½" x 65, WAF 17 x H7 Hexagon	M16 x 1mm	-	6211A1

» Please refer to product group 3 where Ultralight RIO 1000S is shown

## Mini QR axles and positions locks

### Mini QR axles in stainless steel



 mm	 mm	Part. no. with wire and ring	Part. no. without wire and ring
Ø1/4" (6,3 mm)	20	610605	610610
	25	610606	610611
	30	610607	610612
	35	610608	610613
	40	610609	610614
Ø8	20	610810	610816
	25	610811	610817
	30	610812	610818
	35	610813	610819
	40	610814	610820
Ø10	45	610815	610821
	20	611046	611053
	25	611047	611054
	30	611048	611055
	35	611049	611056
40	611050	611057	
45	611051	611058	
50	611052	611059	

» Other dimensions on request

# BUSHINGS, NUTS AND WASHERS




## Bushings for QR axles

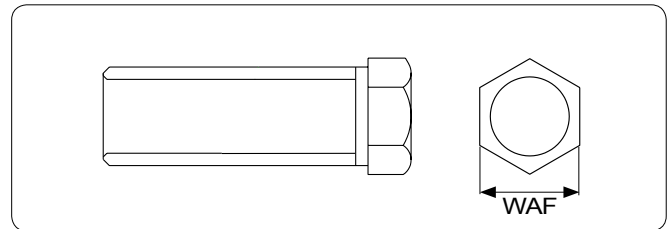


### Bushings for QR axles




- » Stainless steel
- » Available in many different lengths
- » Available in different outer diameters
- » Available with different hole diameters and tolerances

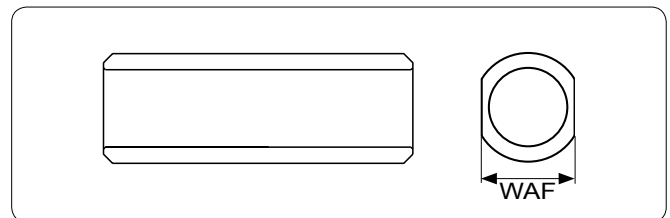
#### Type 1

 mm	 mm	Length mm	 g	WAF mm	Part. no.
M16 x 1	ø12	33/7	20	HEX 17	621036
M16 x 1	ø12	50/7	30	HEX 17	621011
M16 x 1	ø12	60/7	35	HEX 17	621012
M16 x 1	ø12	75/7	40	HEX 17	621013






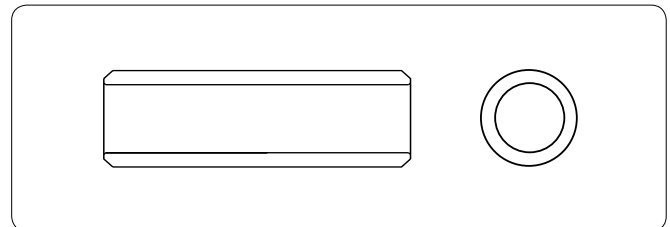
#### Type 2

 mm	 mm	Length mm	 g	WAF mm	Part. no.
M18 x 1.5	ø½"	51	35	16	621120
M18 x 1.5	ø½"	56	40	16	621119
M18 x 1.5	ø½"	69	50	16	621121






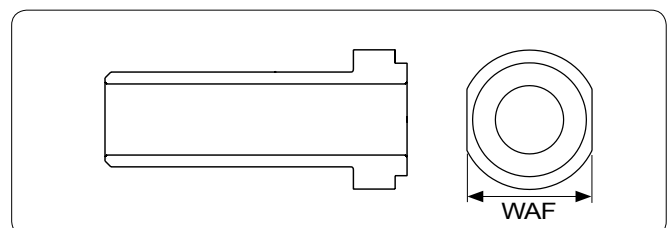
#### Type 3

 mm	 mm	Length mm	 g	WAF mm	Part. no.
M16 x 1	ø12	50	30	-	621014
M18 x 1	ø12	50	40	-	621022
M16 x 1	ø½"	51	25	-	621138
M18 x 1	ø½"	51	35	-	621139



#### Type 4

 mm	 mm	Length mm	 g	WAF mm	Part. no.
M16 x 1	ø½"	51/9-24,5	40	22	621116
M16 x 1	ø½"	51/9-22	35	20	621125
M16 x 1	ø½"	51/9-20	35	18	621126



# BUSHINGS, NUTS AND WASHERS

## Nuts and washers



### Nuts and washers

- » Strong, ductile material
- » Electro-zinc plated
- » Other dimensions on request

### Nuts

Thread mm	Width across flats mm	Height mm	Figure	Type	Part. no.	Part no. for 500 pcs.	Part no. for 1000 pcs.
M16 x 1	24	8	A	Contra	644004	644061	644071
M18 x 1	24	8	A	Contra	644005	644062	644072
M12 x 1	19	7,5	B	Self-locking/For QR	644101A	644063	644073
M10 x 1.5	17	10	B	Self-locking	644111	644064	644074
M12 x 1.75	19	12	B	Self-locking	644112	644065	644075
M12 x 1.75	19	8	B	Self-locking	644113	644066	644076
M14 x 1	19	10	B	Self-locking	644202	644067	644077
M16 x 1	24	11	B	Self-locking	644203	644068	644078
M18 x 1.5	27	10	B	Self-locking	644205	644069	644079

### Washers

Inner diameter mm	Outer diameter mm	Thickness mm	Figure	Type	Part. no.	Part no. for 500 pcs.	Part no. for 1000 pcs.
12	20	2,0	C	Washer	645002	645061	645071
16	28	2,5	C	Washer	645004	645062	645072
18	34	3,0 facet	C	Washer	645005	645063	645073
18,2	28,4	1,0	C	Washer	641001	645064	645074
12,2	21,1	2,5	D	Centre spring washer	645101	645065	645075
16,2	27,4	2,65	D	Centre spring washer	645102	645066	645076
18,2	29,4	2,65	D	Centre spring washer	645103	645067	645077



PRODUCT GROUP 7  
**RIMS, PUSHRIMS &  
 SPOKEGUARDS**



**CONTENT**

**RIM PROFILES..... 174**

**PUSHRIM FITTING OPTIONS ..... 177**

**PUSHRIMS FOR SINGLE WALL RIMS ..... 178**

**Smooth surface pushrims for single wall rims ..... 178**

- Black powder coated aluminium..... 178
- Black anodized aluminium..... 178
- Silver anodized aluminium ..... 179
- Titanium ..... 179
- Black powder coated steel ..... 180
- Chrome plated steel ..... 180
- Polished stainless steel - shining finish..... 181
- Polished stainless steel - matte finish..... 181
- Black plastic..... 181

**Friction/covered pushrims for single wall rims ..... 182**

- Pushrims with knobs ..... 184
- Silicon rubber ..... 183
- Medium hard foam grip ..... 183

**PUSHRIMS FOR DOUBBLE WALL RIMS ..... 184**

- Black anodized aluminium..... 184
- Silver anodized aluminium ..... 184
- Hard anodized aluminium..... 184
- Titanium ..... 185
- Polished stainless steel - shining finish..... 185
- Polished stainless steel - matte finish..... 185

**PUSHRIMS FOR MBL WHEEL ASSEMBLIES..... 188**

- Plastic wheels..... 188
- Buffalo 3 and Buffalo 3 Plus..... 188
- Combo..... 188
- Ultralight - RIO 1000S..... 189
- Tensio® Lightweight..... 189
- Tensio® Standard, Tensio® Heavy Duty, Attack and Defence ..... 190
- Hurricane and Octopus 7 x 2..... 191
- Off Road Challenger ..... 191

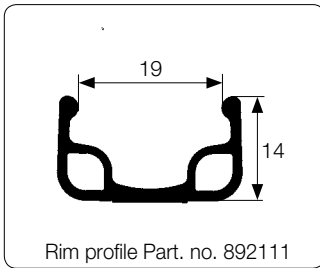
**SILICON COVERS..... 192**

**SPOKE GUARDS..... 193**



# RIM PROFILES

## SW1 - Basic Standard

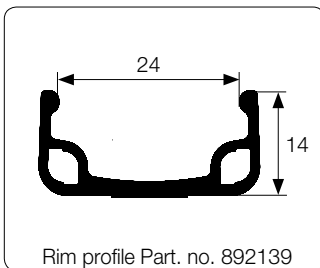


Rim size	Tyre size
19-357	17"
19-355	18 x 1,75"
19-400	18"
19-406	20 x 1,75"
19-451	20"
19-489	22"
19-498	22"
19-501	22"
19-540	24"
19-559	25"
19-590	26"

### Standard options:

- » 36 spoke holes
- » 4 or 6 holes for pushrims
- » Black or silver finish

## SW2 - Basic Wide

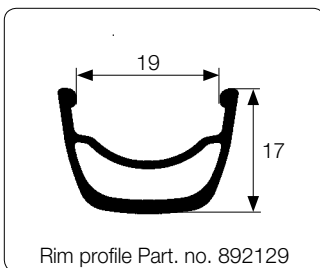


Rim size	Tyre size
24-305	16 x 1,75 x 2"
24-507	24 x 1.75 x 2"

### Standard options:

- » 36 spoke holes
- » 4 or 6 holes for pushrims
- » Black or silver finish

## DW1 - Sport Standard

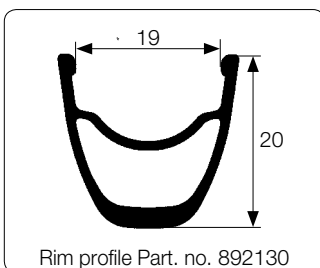


Rim size	Tyre size
19-489	22"
19-540	24"
19-559	25"
19-590	26"

### Standard options:

- » 36 spoke holes
- » 6 holes for pushrims
- » Black finish

## DW2 - Sport X-tra



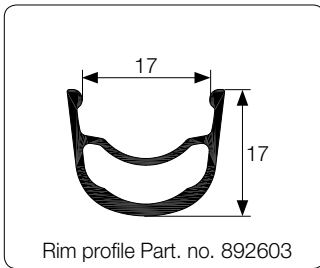
Rim size	Tyre size
19-489	22"
19-540	24"
19-559	25"
19-590	26"
19-622	28"/700 C

### Standard options:

- » 6 holes for pushrims
- » Black finish
- » Standard for fibre spokes

# RIM PROFILES

## DW3 - Light

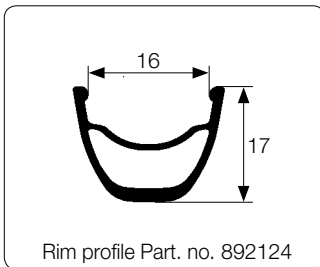


Rim size	Tyre size	Weight (g)
16-540	24"	372
16-559	25"	385
16-590	26"	407

### Standard options:

- » 36 spoke holes
- » 6 holes for pushrims
- » Black finish

## DW4 - Ultra Light

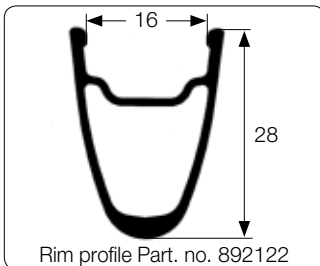


Rim size	Tyre size	Weight (g)
16-540	24"	317
16-559	25"	328
16-590	26"	347

### Standard options:

- » 36 spoke holes
- » 6 holes for pushrims
- » Black finish

## DW5 - Racing

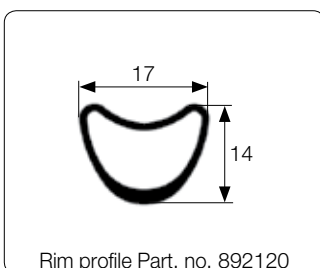


Rim size	Tyre size
16-540	24"

### Standard options:

- » 36 spoke holes
- » 6 holes for pushrims
- » Black finish

## DW6 - Tubeless

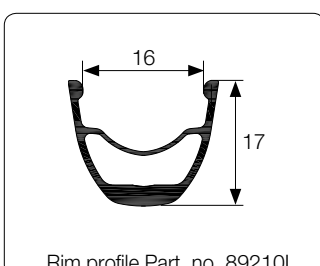


Rim size	Tyre size
17-331	16"
17-382	18"

### Standard options:

- » Rim for front wheels
- » Tubeless tyres only
- » Black finish

## DW7 - Ultra Light Milled



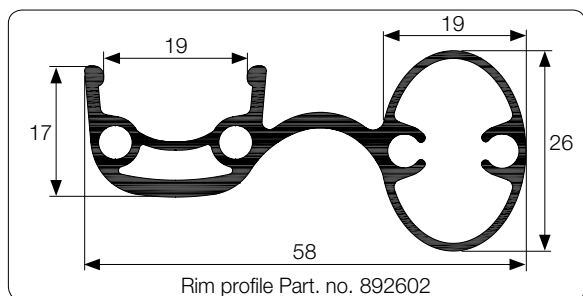
Rim size	Tyre size
16-540	24"
16-559	25"

### Standard options:

- » 36 spoke holes
- » 6 holes for pushrims
- » Black finish with silver millings
- » Other sizes are available on request

# RIM PROFILES

## IDW1- Integrated rim/pushrim



Rim size	Tyre size
19-540	24"

### Standard options:

- » For Tristar wheel
- » Cast aluminum
- » 20", 22", 26" and up to 36" rims can be made on request



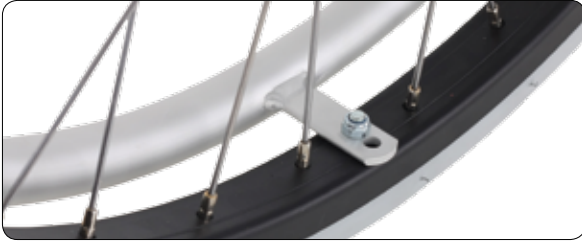
## NEW!

The lightest rim around...

Rim type DW7 in black with silver millings is now available as 24" with a weight of only 295g and 25" with a weight of only 305g. Other sizes are available on request.

# PUSHRIM FITTING OPTIONS

## Type A: Standard splice-fitting with screw and lock nut



- » Fits pushrim with splices for single and double wall rim
- » Distance between pushrim and rim is 13mm or 20mm

## Type B: “De luxe” splice-fitting with rivnut and screw



- » For double wall rims only
- » Distance between pushrim and rim is 13mm or 20mm
- » Rim fitted with rivnut - pushrim exchangeable without removing tyre and tube

## Type C: Standard anchor-plate fitting



- » For single wall rims only
- » For pushrims with rivnuts
- » Distance between pushrim and rim is 17mm as standard. Other lengths on request
- » Standard on MBL single wall rims

## Type D: Adjustable anchor-plate fitting



- » For single wall rims only
- » For pushrims with rivnuts
- » Adjustable - choose 7mm or 20mm distance between rim and pushrim

## Type E: Clip fitting



- » For single wall rims only
- » Available on complete wheels only as the clip is fixed with rivets

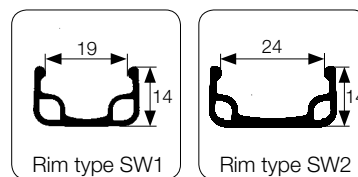
# PUSHRIMS FOR SINGLE WALL RIMS



## Smooth pushrims for single wall rims



### Black powder coated aluminium

- » Ø19,6 x 1,25 mm
- » Fits MBL rim types SW1 and SW2
- » Smooth surface

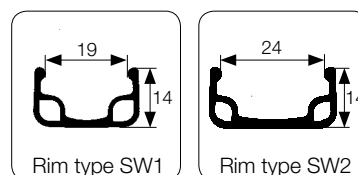




Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
16"/305	Ø19,6 x 291	271	195	321601	-	-	-	-
17"/357	Ø19,6 x 352	332	250	321701	-	-	-	-
18"/400	Ø19,6 x 395	375	270	321801	-	-	-	-
20"/451	Ø19,6 x 446	426	340	322001	-	-	-	-
22"/489	Ø19,6 x 483	464	360	322201	322251	-	-	-
22"/498	Ø19,6 x 501	-	380	-	-	-	-	322221
22"/498/501	Ø19,6 x 495	475	380	322211	322261	-	-	-
24"/540	Ø19,6 x 535	515	410	322401	322451	-	-	-
24"/540	Ø19,6 x 539	-	420	-	-	-	-	322421
26"/590	Ø19,6 x 585	565	450	-	322651	-	-	-



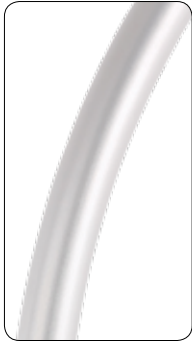
### Black anodized aluminium

- » Ø19,6 x 1,25 mm
- » Fits MBL rim types SW1 and SW2
- » Smooth surface



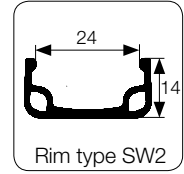
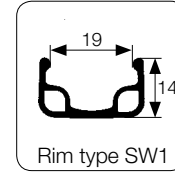
Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø19,6 x 450	434	340	-	-	342002	-	-
22"/489	Ø19,6 x 488	472	360	-	-	-	342252	-
24"/540	Ø19,6 x 540	523	410	-	-	-	342452	-
26"/590	Ø19,6 x 589	573	450	-	-	-	342652	-



# PUSHRIMS FOR SINGLE WALL RIMS



## Silver anodized aluminium

- » Ø19,6 x 1,25 mm
- » Fits MBL rim profiles SW1 and SW2
- » Smooth surface

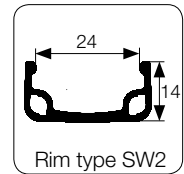
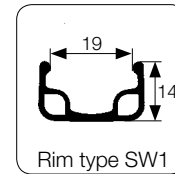




Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
16"/305	Ø19,6 x 291	271	195	321602	-	-	-	-
17"/357	Ø19,6 x 352	332	250	321702	-	-	-	-
18"/400	Ø19,6 x 395	375	270	321802	-	-	-	-
20"/451	Ø19,6 x 446	426	340	322002	-	-	-	-
20"/451	Ø19,6 x 450	434	340	-	-	342001	-	-
22"/489	Ø19,6 x 483	464	360	322202	322252	-	-	-
22"/489	Ø19,6 x 489	472	360	-	-	-	342251	-
22"/498	Ø19,6 x 501	-	380	-	-	-	-	322222
22"/498/501	Ø19,6 x 495	475	380	322212	322262	-	-	-
24"/540	Ø19,6 x 534	515	410	322402	322452	-	-	-
24"/540	Ø19,6 x 539	-	420	-	-	-	-	322422
24"/540	Ø19,6 x 540	523	410	-	-	-	342451	-
24"/507	Ø19,6 x 501	SD=482	?	-	322475	-	-	-
26"/590	Ø19,6 x 585	565	450	-	322652	-	-	-
26"/590	Ø19,6 x 589	573	450	-	-	-	342651	-



## Titanium

- » Ø19 x 1,25 mm
- » Fits MBL rim profiles SW1 and SW2
- » Recommended for active and sport use
- » Generates minimal heat when braking at high speed
- » Smooth hard-wearing surface



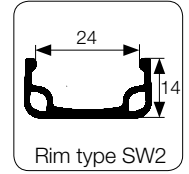
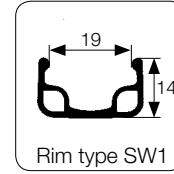
Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø19,6 x 446	426		332008	-	-	-	-
22"/489	Ø19,6 x 483	464		-	332258	-	-	-
22"/489	Ø19,6 x 489	472		-	-	-	352281	-
24"/540	Ø19,6 x 534	515		-	332458	-	-	-
24"/540	Ø19,6 x 540	523		-	-	-	352481	-
26"/590	Ø19,6 x 585	565		-	332658	-	-	-
26"/590	Ø19,6 x 589	573		-	-	-	352681	-



# PUSHRIMS FOR SINGLE WALL RIMS



## Black powder coated steel

- » Ø19 x 1 mm
- » Fits MBL rim types SW1 and SW2
- » Smooth surface

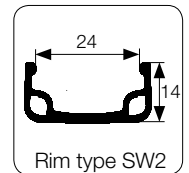
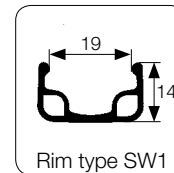




Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø19 x 445	426		332003	-	-	-	-
22"/502	Ø19 x 495	475		332213	332262	-	-	-
24"/540	Ø19 x 532	513	580	332403	332453	-	-	-



## Chrome plated steel

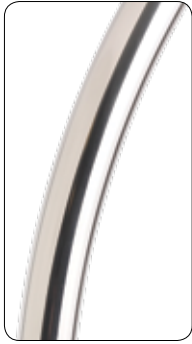
- » Ø19 x 1 mm
- » Fits MBL rim types SW1 and SW2
- » Generates minimal heat when braking at high speed
- » High friction when user has dry hands
- » Hard-wearing
- » Smooth surface



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø19 x 445	426	475	332001	-	-	-	-
20"/451	Ø19 x 452	435	495	-	-	352001	-	-
22"/489	Ø19 x 483	464	515	-	332251	-	-	-
22"/489	Ø19 x 489	473	540	-	-	-	352251	-
24"/540	Ø19 x 534	515	570	-	332451	-	-	-
24"/540	Ø19 x 540	523	600	-	-	-	352451	-
26"/590	Ø19 x 584	565	630	-	332651	-	-	-
26"/590	Ø19 x 590	573	670	-	-	-	352651	-

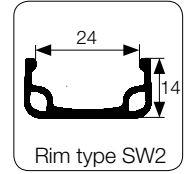
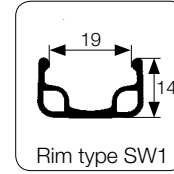




# PUSHRIMS FOR SINGLE WALL RIMS

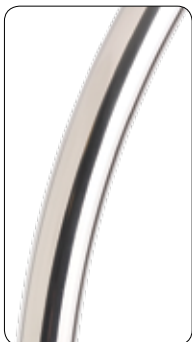


## Polished stainless steel "shining finish"

- » Ø20 x 0,9 mm
- » Fits MBL rim types SW1 and SW2
- » Generates minimal heat when braking at high speed
- » Maintenance-free
- » Hard-wearing
- » Smooth surface

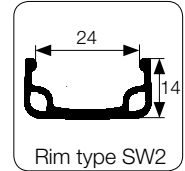
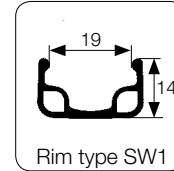




Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø20 x 445	425	640	332004	-	-	-	-
20"/451	Ø20 x 450	430	640	-	-	352022	-	-
22"/489	Ø20 x 484	464	700	-	332254	-	-	-
22"/489	Ø20 x 490	472	620	-	-	-	352272	-
24"/540	Ø20 x 534	515	770	-	332454	-	-	-
24"/540	Ø20 x 541	523	800	-	-	-	352472	-
26"/590	Ø20 x 584	564	840	-	332654	-	-	-
26"/590	Ø20 x 594	576	820	-	-	-	352672	-



## Polished stainless steel "matte finish"

- » Ø20 x 0,9 mm
- » Fits MBL rim types SW1 and SW2
- » Generates minimal heat when braking at high speed
- » Maintenance-free
- » Hard-wearing
- » Smooth surface



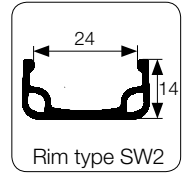
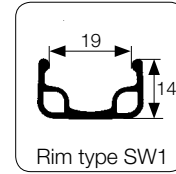
Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø20 x 445	425	640	332005	-	-	-	-
20"/451	Ø20 x 452	434	640	-	-	352012	-	-
22"/489	Ø20 x 482	462	700	-	-	-	-	-
22"/489	Ø20 x 498	472	620	-	-	-	352262	-
24"/540	Ø20 x 534	514	770	-	332455	-	-	-
24"/540	Ø20 x 541	523	800	-	-	-	352461	-
26"/590	Ø20 x 584	564	840	-	332655	-	-	-
26"/590	Ø20 x 591	573	820	-	-	-	352662	-



# PUSHRIMS FOR SINGLE WALL RIMS



## Black plastic

- » Ø19/26 mm
- » Fits MBL rim types SW1 and SW2
- » Non allergic and insulates against cold
- » Generates heat when braking at high speed
- » Excellent grip - high friction



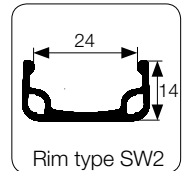
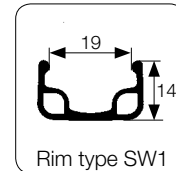
Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø19/26 x 450	424	390	312002	-	-	-	-
22"/489	Ø19/26 x 488	462	420	312202	312252	-	-	-
22"/498	Ø19/26 x 516	-	420	-	-	-	-	312222
22"/498/501	Ø19/26 x 501	475	440	-	312262	-	-	-
24"/540	Ø19/26 x 539	513	470	312402	312452	-	-	-
24"/540	Ø19/26 x 554	-	470	-	-	-	-	312422



## Pushrims - covered/friction for single wall rims



## Pushrims with knobs

- » Ø24 mm
- » Fits MBL rim types SW1 and SW2
- » User friendly soft knobs
- » Length of knobs on pushrims with splices=20mm
- » Note: the knobs can be adjusted to different angles
- » If clip fitting is required the knobs must be fitted on the pushrim at an angle of 45° - 90°.



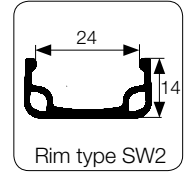
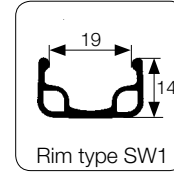
Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø19,6 x 425	-	650	-	-	-	-	-
20"/451	Ø19,6 x 417	435	650	-	-	342024	-	-
22"/489	Ø19,6 x 463	-	670	-	-	-	-	-
22"/489	Ø19,6 x 455	473	680	-	-	-	342274	-
22"/498/501	Ø19,6 x 475	-	690	-	-	-	-	-
24"/540	Ø19,6 x 514	-	720	-	-	-	-	-
24"/540	Ø19,6 x 506	524	590	-	-	-	342474	-
26"/590	Ø19,6 x 564	-	700	-	-	-	-	-
26"/590	Ø19,6 x 556	576	620	-	-	-	342674	-



# PUSHRIMS FOR SINGLE WALL RIMS



## Silicon rubber

- » Total dimension of tube and cover Ø24 mm
- » Fits MBL rim types SW1 and SW2
- » Insulated against cold
- » Soft, non allergic material
- » Generates heat when braking
- » High friction
- » smooth surface

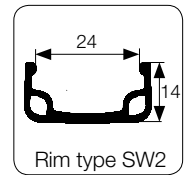
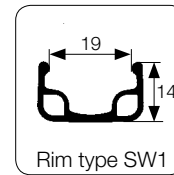




Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø24 x 448	424	520	322006	-	-	-	-
22"/489	Ø24 x 486	462	570	322206	322256	-	-	-
22"/498	Ø24 x 506	-	600	-	-	-	-	322226
22"/498/501	Ø24 x 499	475	630	322216	322266	-	-	-
24"/540	Ø24 x 537	513	620	322406	322456	-	-	-
24"/540	Ø24 x 544	-	640	-	-	-	-	322426
26"/590	Ø24 x 589	565	670	-	322656	-	-	-



## Medium hard foam grip

- » Total dimension of tube and cover Ø24 mm
- » Hardness of foam cover is 65 Sha
- » Insulated against cold
- » High friction
- » Generates heat when braking
- » Smooth surface



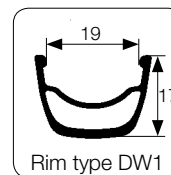
Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 4 rivnuts	Part No. 6 rivnuts	Part No. 4 splices	Part No. 6 splices	Part No. 4 clip fittings
20"/451	Ø24 x 448	424		322010	-	-	-	-
20"/451	Ø24 x 457	435		-	-	342004	-	-
20"/451	Ø24 x 455	-		-	-	-	-	322028
22"/489	Ø24 x 486	462		322210	322260	-	-	-
22"/489	Ø24 x 495	473		-	-	-	342254	-
22"/498	Ø24 x 506	-		-	-	-	-	322228
22"/498/501	Ø24 x 499	475		322213	322263	-	-	-
22"/498/501	Ø24 x 508	486		-	-	-	342264	-
24"/540	Ø24 x 537	513		322410	322460	-	-	-
24"/540	Ø24 x 546	524		-	-	-	342454	-
24"/540	Ø24 x 544	-		-	-	-	-	322428
26"/590	Ø24 x 589	565		-	322660	-	-	-
26"/590	Ø24 x 598	576		-	-	-	342654	-
26"/590	Ø24 x 596	-		-	-	-	-	322628



# PUSHRIMS FOR DOUBLE WALL RIMS

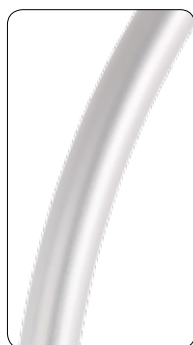


## Black anodized aluminium

- » Ø19,6 x 1,25 mm
- » Fit MBL rim types DW1
- » Smooth surface

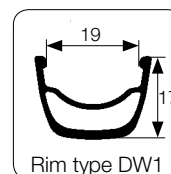




Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 6 splices
22"/489	Ø19,6 x 483	466	360	342256
24"/540	Ø19,6 x 534	517	380	342456
25"/559	Ø19,6 x 553	536	400	342556
26"/590	Ø19,6 x 584	567	410	342656



## Silver anodized aluminium

- » Ø19,6 x 1,25 mm
- » Fit MBL rim types DW1
- » Smooth surface



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 6 splices
22"/489	Ø19,6 x 483	466	360	342255
24"/540	Ø19,6 x 534	517	380	342455
25"/559	Ø19,6 x 553	536	400	342555
26"/590	Ø19,6 x 584	567	410	342655

## HARD ANODIZED PUSHRIMS

Please note that all existing aluminium pushrims in the MBL catalogue are now available with a hard anodized surface finish.

Colour: Dark grey

Hardness: > 500 HV

Types and minimum order quantity: on request

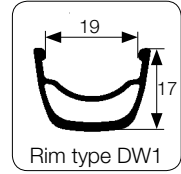
Should you have any interest please do not hesitate to contact our sales personnel.

# PUSHRIMS FOR DOUBLE WALL RIMS





## Titanium

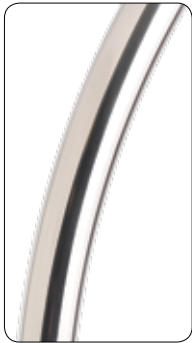
- » Ø19,05 x 0,9 mm
- » Fit MBL rim types DW1
- » Recommended for active and sport use
- » Generates minimal heat when braking at high speed
- » Smooth hard-wearing surface



Rim type DW1

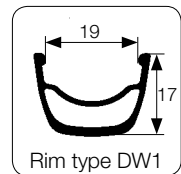


Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 6 splices
22"/489	Ø19,05 x 483	466	-	352282
24"/540	Ø19,05 x 534	517	-	352482
25"/559	Ø19,05 x 553	536	-	352582
26"/590	Ø19,05 x 584	567	-	352682





## Polished stainless steel "shining finish"

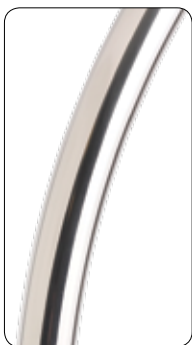
- » Ø20 x 0,9 mm
- » Fit MBL rim types DW1
- » Maintenance-free
- » Hard-wearing
- » Generates minimal heat when braking at high speed
- » Smooth surface



Rim type DW1

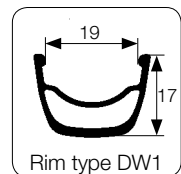


Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 6 splices
22"/489	Ø20 x 484	466	620	352258
24"/540	Ø20 x 535	517	800	352458
25"/559	Ø20 x 554	536	820	352558
26"/590	Ø20 x 585	567	860	352658





## Polished stainless steel "matte finish"

- » Ø20 x 0,9mm
- » Fit MBL rim types DW1
- » Maintenance-free
- » Hard-wearing
- » Generates minimal heat when braking at high speed
- » Smooth surface



Rim type DW1



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 6 splices
22"/489	Ø20 x 484	466	620	352259
24"/540	Ø20 x 535	517	800	352459
25"/559	Ø20 x 554	536	820	352559
26"/590	Ø20 x 585	567	860	352659











# PUSHRIMS FOR MBL REAR WHEEL ASSEMBLIES

## Pushrims for PLASTIC WHEELS



### Black plastic



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 7 Rivenuts
24"/540	Ø19/26 x 540	514	-	312462



### Black powder coated aluminium



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 7 Rivenuts
24"/540	Ø19,6 x 1,25 x 533	514	-	3224A2

### Silver anodized aluminium





Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No. 7 Rivenuts
24"/540	Ø19,6 x 1,25 x 533	514	-	3224A3

## Pushrims for BUFFALO 3 and BUFFALO 3 PLUS

### Silver anodized pushrim with 6 splices





Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No.
24"/540 (Buffalo 3)	Ø19,6 x 1,25 x 534	514	-	342451
24"/507 (Buffalo 3 plus)	Ø19,6 x 1,25 x 501	481	-	34241C

## Pushrims for COMBO



### Silver anodized pushrims incl. 5 X M5 rivnuts



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No.
24"/540	Ø19.6 x 1.25 x 530	511	-	322486

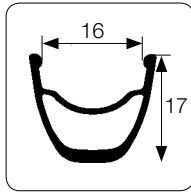
### Black powder coated pushrims incl. 5 X M5 rivnuts



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No.
24"/540	Ø19.6 x 1.25 x 530	511	-	322488

# PUSHRIMS FOR MBL REAR WHEEL ASSEMBLIES



## Pushrims for ULTRALIGHT RIO 1000S



- » Light weight anodized pushrims Ø19 x 0,8
- » 6 splices with one hole



### Silver anodized aluminium



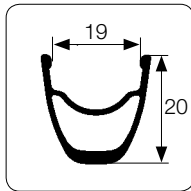
Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No.
24"/540	Ø19 x 0,8 x 533	517	210	342408
25"/559	Ø19 x 0,8 x 553	537	-	342577

### Black anodized aluminium



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part No.
24"/540	Ø19 x 0,8 x 533	517	210	342409
25"/559	Ø19 x 0,8 x 553	536	-	342503



## Pushrims for TENSIO® LIGHTWEIGHT



- » Light weight anodized pushrims Ø19 x 0,8
- » 6 splices
- » Splices with only one hole
- » Hard anodized pushrim on special request



### Silver anodized aluminium



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part. no. Silver
24"/540	Ø19 x 0,8 x 527	510	-	342412
25"/559	Ø19 x 0,8 x 546	530	-	342512



### Black anodized aluminium



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part. no. Black
24"/540	Ø19 x 0,8 x 527	510	-	342413
25"/559	Ø19 x 0,8 x 546	530	-	342513

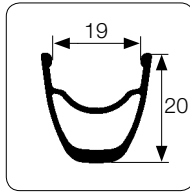
### Hard anodized aluminium\*



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part. no. Hard anodized
24"/540	Ø19 x 0,8 x 527	510	-	3424L1
25"/559	Ø19 x 0,8 x 546	530	-	3425L1

# PUSHRIMS FOR MBL REAR WHEEL ASSEMBLIES



Pushrims for TENSIO® STANDARD, TENSIO® HEAVY DUTY, ATTACK AND DEFENCE



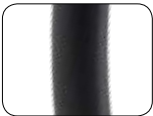
- » Choose between anodized, titanium or stainless steel pushrims
- » 6 splices



## Silver anodized aluminium



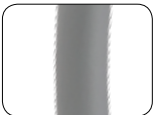
Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part. no. 6 Splices
24"/540	Ø19,6 x 1,25 x 534	510	-	342491
25"/559	Ø19,6 x 1,25 x 553	529	-	342591
26"/590	Ø19,6 x 1,25 x 584	560	-	342691



## Black anodized aluminium



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part. no. 6 Splices
24"/540	Ø19,6 x 1,25 x 534	510	-	342492
25"/559	Ø19,6 x 1,25 x 553	529	-	342592
26"/590	Ø19,6 x 1,25 x 584	560	-	342692

## Hard anodized aluminium





Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part. no. 6 Splices
24"/540	Ø19,6 x 1,25 x 534	510	-	3424A1
25"/559	Ø19,6 x 1,25 x 553	529	-	3425A1
26"/590	Ø19,6 x 1,25 x 584	560	-	3426A1

\*Hard anodized pushrim on special request.



## Titanium



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part. no. 6 Splices
24"/540	Ø19.05 x 0,9 x 534	510	-	352492
25"/559	Ø19.05 x 0,9 x 553	529	-	352592
26"/590	Ø19.05 x 0,9 x 584	560	-	352692

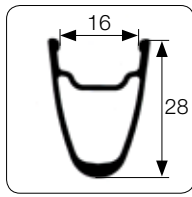
## Polished stainless steel "Shining finish"



Size of wheel " / mm	Dimension (mm)	 (mm)	 (g)	Part. no. 6 Splices
24"/540	Ø20 x 0,9 x 534	510	-	352491
25"/559	Ø20 x 0,9 x 553	529	-	352591
26"/590	Ø20 x 0,9 x 584	560	-	352691

# PUSHRIMS FOR MBL REAR WHEEL ASSEMBLIES

## Pushrims for HURRICAME WHEELS and OCTOPUS 7 X 2



» Pushrims with 6 round splices

### Silver anodized aluminium



Size of wheel " / mm	Dimension (mm)	(g)	Part No. 6 splices
24" / 540	Ø19,6 x 548	-	342498

### Black anodized aluminium



Size of wheel " / mm	Dimension (mm)	(g)	Part No. 6 splices
24" / 540	Ø19,6 x 548	-	342499

### Polished stainless steel "Shining finish"



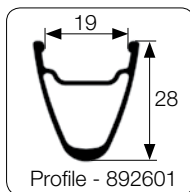
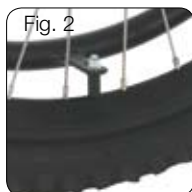
Size of wheel " / mm	Dimension (mm)	(g)	Part No. 6 splices
24" / 540	Ø19 x 549	-	352497

### Titanium



Size of wheel " / mm	Dimension (mm)	(g)	Part No. 6 splices
24" / 540	Ø19 x 548	-	352498

## Pushrims for OFF ROAD CHALLENGER



- » Pushrims with 6 splices
- » Figure 1 shows pushrim fitted directly on rim
- » Figure 2 shows pushrim fitted with long screws

### Black powder coated aluminium



Size of wheel " / mm	Dimension (mm)	(mm)	(g)	Figure	Part No. 6 splices
24" / 507	Ø19,6 x 482	460	-	1	342269
24" / 507	Ø19,6 x 450	428	-	2	342063

# SILICON COVERS FOR PUSHRIMS



## Silicon covers with ribbed or smooth surface

- » Pushrim covers in silicone are a perfect solution for many wheelchair users
- » Can be used onto your existing pushrim to improve grip and comfort
- » Easy to mount in seconds without using any tools
- » These covers are ideal for chipped and damaged pushrims
- » Insulate from cold steel/aluminium
- » Provides better control over a chair as well as better efficiency of propulsion and braking
- » Do not cause allergic reaction
- » Other dimensions are available on request

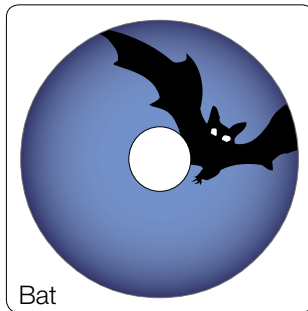
Pushrim dimension Ød x Ød (mm)	Wheel size	Weight (g)	Part no. black ribbed (1 pcs)	Part no. black smooth (1 pcs)
Ø16-19 x Ø430-437	20"	400	382031	382021
Ø16-19 x Ø438-445	20"	400	382032	382022
Ø16-19 x Ø446-453	20"	400	382033	382023
Ø16-19 x Ø454-461	20"	400	382034	382024
Ø16-19 x Ø462-469	22"	450	382231	382221
Ø16-19 x Ø470-477	22"	450	382232	382222
Ø16-19 x Ø478-485	22"	450	382233	382223
Ø16-19 x Ø486-493	22"	450	382234	382224
Ø16-19 x Ø494-501	22"	450	382235	382225
Ø16-19 x Ø502-510	22"	450	382236	382226
Ø16-19 x Ø511-518	24"	500	382431	382421
Ø16-19 x Ø519-525	24"	500	382432	382422
Ø16-19 x Ø526-532	24"	500	382433	382423
Ø16-19 x Ø533-539	24"	500	382434	382424
Ø16-19 x Ø561-570	26"	550	382631	382621
Ø16-19 x Ø571-580	26"	550	382632	382622
Ø16-19 x Ø581-590	26"	550	382633	382623
MBL - oval plastic	20"	400	-	382030
MBL - oval plastic	22"	450	-	382230
MBL - oval plastic	24"	500	-	382430

# SPOKE GUARDS

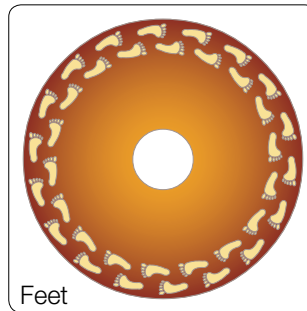
## Spoke guards



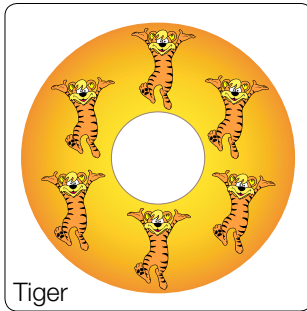
Lightning



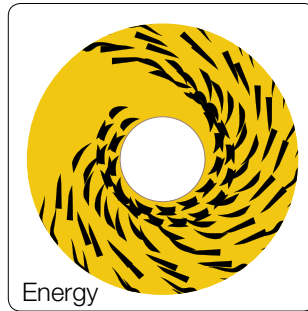
Bat



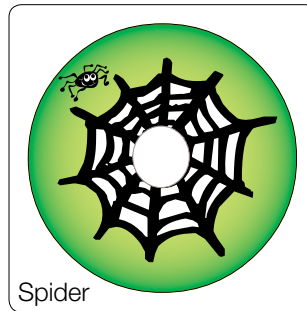
Feet



Tiger



Energy

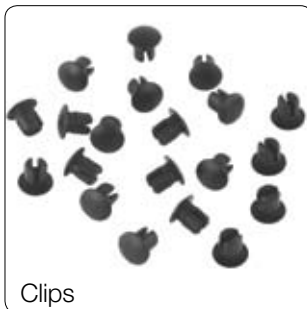


Spider

### Spoke guards

- » Material: PETG
- » High transparency
- » High surface hardness
- » Impact resistant
- » Easy mounting system with clips
- » Fits wheels with both splice and anchor-plate pushrim
- » Supplied with 6 clips for Ø2 mm spokes
- » Customer specified designs are available on request

For wheel size	Diameter	Weight	Part no. Transparent	Part no. Lightning	Art. nr Bat	Part no. Feet	Part no. Tiger	Part no. Energy	Part no. Spider
20"/Ø451	Ø417	280	372031	372032	372033	372034	372035	372036	372037
22"/Ø489/Ø498	Ø460	300	372231	372232	372233	372234	372235	372236	372237
24"/Ø540	Ø505	330	372431	372432	372433	372434	372435	372436	372437
26"/Ø590	Ø555	455	372631	372632	372633	372634	372635	372636	372637



Clips

### Clips for spoke guards

Description	Part no.
Pack of 500 clips - for Ø2 mm spokes	373002
Pack of 6 clips - for Ø2 mm spokes	373003





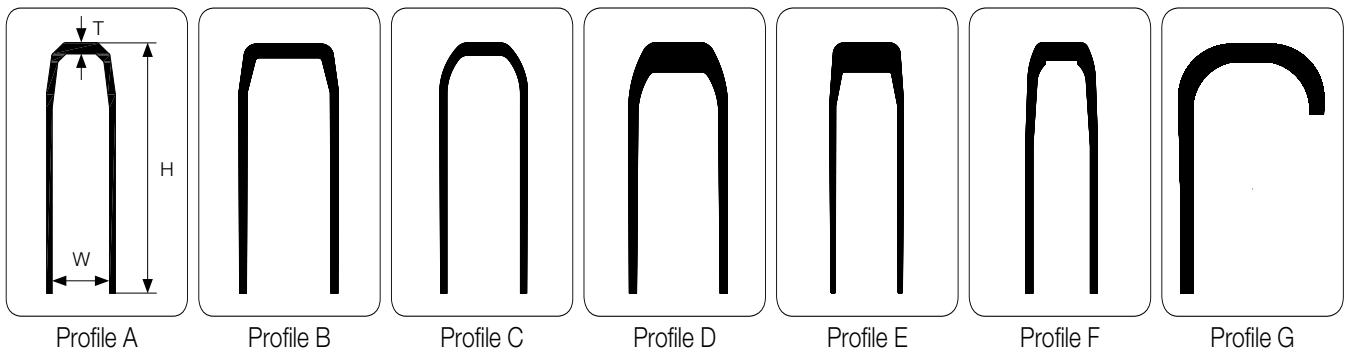


**CONTENT**

<b>FRONT FORKS.....</b>	<b>196</b>
Front forks - aluminium .....	196
Front forks - steel .....	198
Front forks - plastic .....	199
<b>BEARING HOUSINGS.....</b>	<b>200</b>
Bearing housings.....	200
Parts for bearing housings .....	201

# FRONT FORKS

## Front forks - aluminium



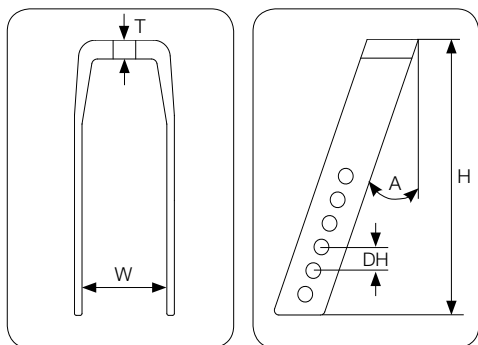
### Front fork profile extrusions

Profile	Specifications	Inner width (W) mm	Height (H) mm	Thickness (T) mm	Part. no. profile
A	39 mm front fork profile. Untreated aluminium	39	170	8	C-657001
A	95 mm front fork profile. Untreated aluminium	95	170	15	C-657011
B	45 mm front fork profile. Untreated aluminium	45	180	10	C-657002
B	100 mm front fork profile. Untreated aluminium	100	185	11	C-657007
B	85 mm front fork profile. Untreated aluminium	85	180	11	C-657009
B	60 mm front fork profile. Untreated aluminium	60	180	10	C-657003
B	60 mm front fork profile. Untreated aluminium	60	146	10	C-657008
C	45 mm front fork profile. Untreated aluminium	45	180	10	C-657004
C	53 mm front fork profile. Untreated aluminium	53	180	9	C-657012
<b>NEW</b> D	53 mm front fork profile. Untreated aluminium	53	180	21	C-89264W
D	60 mm front fork profile. Untreated aluminium	60	180	21	C-657014
E	45 mm front fork profile. Untreated aluminium	45	180	21	C-657005
F	39 mm front fork profile. Untreated aluminium	39	170	12	C-657013
<b>NEW</b> G	Monoleg front fork profile. Untreated aluminium	83	177	12,5	C-657024



- » Extruded aluminium profiles
- » Strong hardened aluminium
- » Other dimensions on request
- » We also offer machined front forks after our customer's design

# FRONT FORKS



## Front forks - aluminium

- » Extruded aluminium profiles
- » Strong hardened aluminium
- » ø8,2 mm holes for wheel fitting
- » Other dimensions on request

Profile	Inner width W (mm)	Height H (mm)	Thickness T (mm)	Angle A (degrees)	No. of side holes	Dist. betw. side holes DH (mm)	Weight (g)	Part. no. ø12 silver	Part. no. ø12 black	Part. no. ø14 black
A	39	65	8	24	1	-	50	-	653927	653928
A	39	92	8	24	2	12.5	65	-	653929	653930
A	39	120	8	20	4	12.5	85	-	653931	653932
A	39	146	8	20	4	12.5	110	-	653933	653934
A	39	170	8	16	5	12.5	115	-	653905	653911
B	45	92	10	24	2	12.5	75	-	654573	654574
B	45	120	10	20	4	12.5	100	-	654575	654576
B	45	146	10	20	6	12.5	130	-	654504	654522
B	45	180	10	16	5	12.5	150	654515	654516	654523
B	60	120	10	20	4	12.5	130	656074	656075	656076
B	60	146	10	20	4	12.5	165	656077	656078	656079
B	60	180	10	16	5	12.5	170	656067	656068	656069
C	53	160	9	20	5	12.5	120	-	-	655304
C	53	180	9	20	5	12.5	150	655301	655302	-

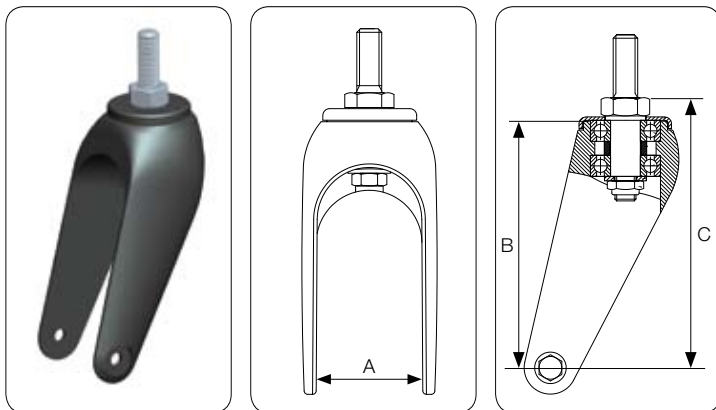


## Aluminium front forks with bearings and axle tap

- » Available with M12 x 1.75 or M14 x 2 forged axle tap
- » Max wheel diameter is 200mm
- » Other lengths on request

Profile	Inner width W (mm)	Height H (mm)	Top thickness T (mm)	Angle A (degrees)	No. side holes	Dist. between side holes DH (mm)	Thread	Weight (g)	Part. no. Black
E	45	151	21	20	2	12,5	M12	320	654562
E	45	151	21	20	2	12,5	M14	320	654564
D	60	151	21	20	2	12,5	M12	350	656062
D	60	151	21	20	2	12,5	M14	350	656064

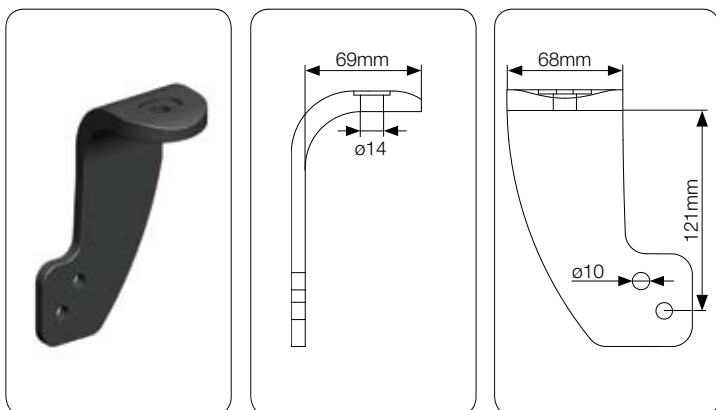
# FRONT FORKS



## Front fork - aluminium

- » Material: Black powder coated aluminium
- » High strength aluminium fork
- » Gravity casted and heat treated
- » Nice textured surface
- » Available in 3 sizes
- » Standard with M14 x2 x 36mm forged threaded pin
- » Available with different fixation types
- » ø8.2mm holes for wheel fitting
- » Front forks excl. axle tap are incl. ø15mm bearings, distance tube and plastic cap

A (mm)	B (mm)	C (mm)	Max. wheel diameter (mm)	Weight incl. axle tap (g)	Part. no. excl. axle tap	Part. no. incl. axle tap
60	151	164	210	730	65801K	658001
60	144	157	200	719	65801L	658006
60	129	142	175	708	65801M	65800L



## Monoleg front fork - aluminium

- » Black powder coated aluminium
- » Various fork fixations possible
- » Available in different Designs
- » Please contact MBL for other details
- » Reference numbers: NB100D + NB100E

## Front fork - steel



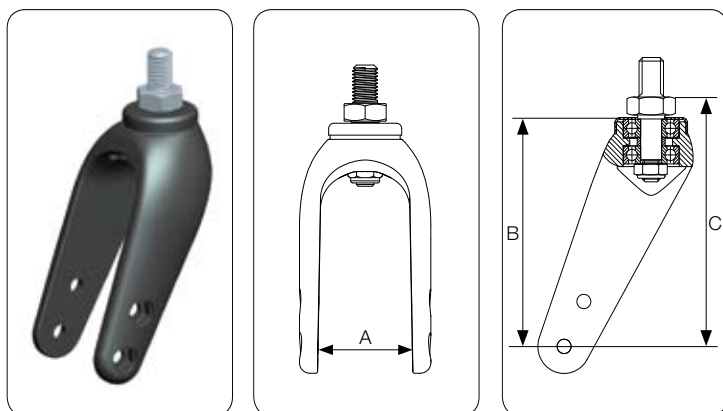
## Front fork - steel

- » ø8.2 mm hole for wheel fitting
- » Axle tap on request

Inner width W (mm)	Height H (mm)	Max. wheel diameter (mm)	Spindle fitting hole (mm)	Weight (g)	Part. no. black
58	110	200	ø12	350	6560A6

# FRONT FORKS

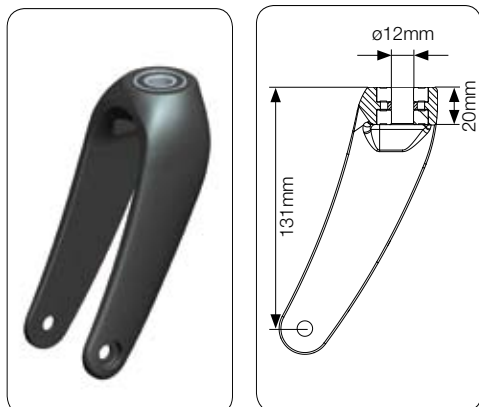
## Front forks - plastic



### Front fork - plastic

- » Material: PA + GF
- » Standard with M14 x 2 x 20 mm forged axle tap
- » ø8.2mm holes for wheel fitting
- » Plastic caps supplied for unused axle holes
- » Frontforks without axle tap are incl. ø12mm bearings, distance tube and plastic cap.

Colour	A (mm)	B (mm)	C (mm)	Max. wheel diameter (mm)	Weight incl. axle tap (g)	Part. no. excl. axle tap	Part. no. incl. axle tap
Black	40	102	114	150	310	654096	654097
Black	45	126	139	200	354	654596	654597
Grey	45	126	139	200	354	65459D	65459E
Black	53	126	139	200	322	655396	655397
Black	60	126	139	200	340	656096	656097



### Front fork for rollators - plastic

- » Material: black PA + GF
- » ø8,2mm holes for wheel fitting

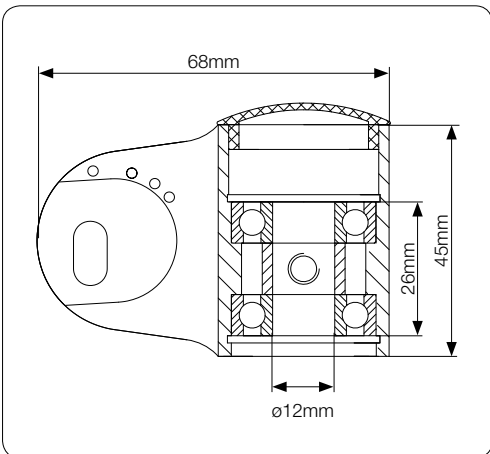
Inner width W (mm)	Height	Max. wheel diameter (mm)	Spindle fitting hole (mm)	Part. no. black
45	131	200	ø12 x 20	ROL11Z

## Bearing housings



### Bearing housing - Type A

- » Black anodized aluminium
- » Angle adjustable bearing housing
- » Easy to adjust +/- 7° range
- » Standard for Ø12 mm fixed axles or Ø12mm quick-release axles
- » Possibility for direction locking



#### Description

Bearing housing for fixed axle (incl. bearings, distance tube, adjusting washer and push button)

**Part no.  
side A**

MBS550-1

**Part no.  
side B**

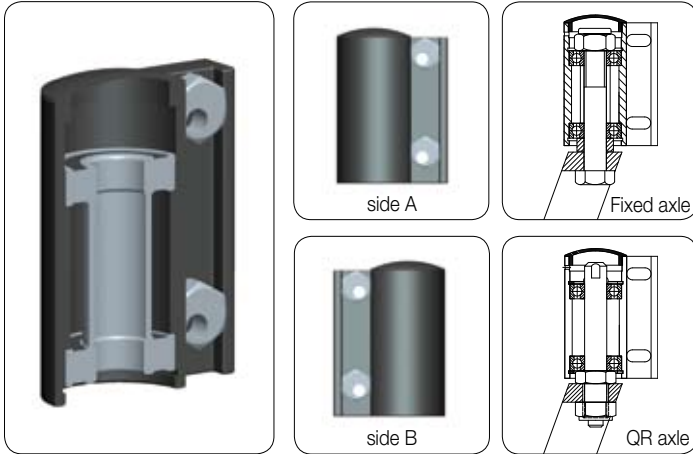
MBS551-1

### NEW BEARING HOUSING WITH NEW FEATURES

- » Elegant design
- » Angle adjustable
- » Possibility for direction locking

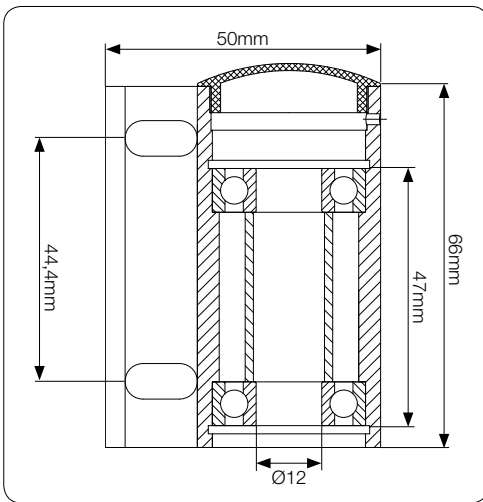


# BEARING HOUSINGS



## Bearing housings - Type B

- » Black anodized aluminium
- » Standard for Ø12 mm fixed axles or Ø12mm quick-release axles
- » Can be adjusted for different mounting angles using eccentric nuts



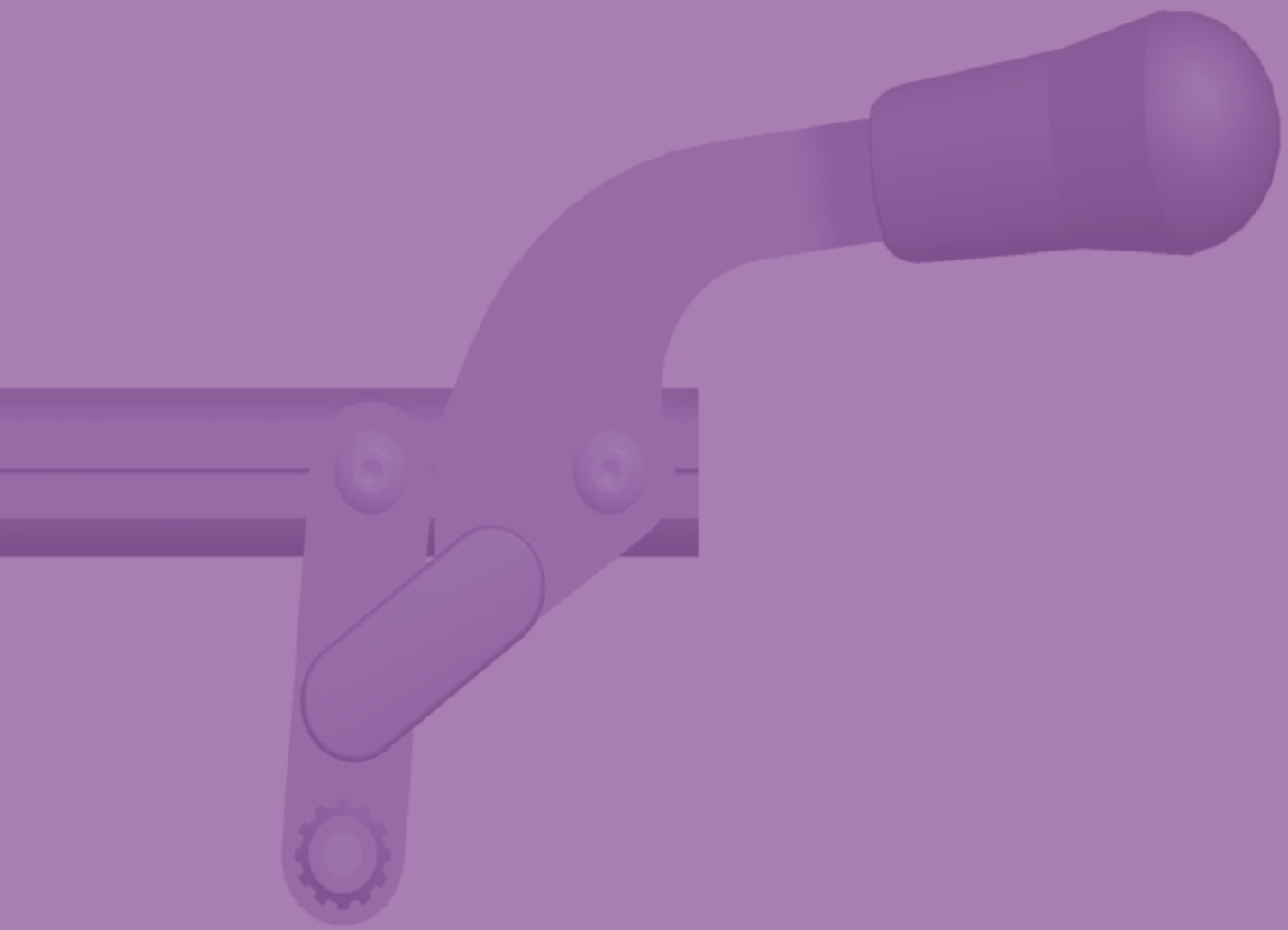
Description	Part no. side A	Part no. side B
Bearing housings excl. bearings and other components	661301	661302
Bearing housing for fixed axle (incl. bearings, distance tube, eccentric nut and push button)	661351	661352
Bearing housing for QR axle (incl. bearings, eccentric nut and push button)	661353	661354

## Parts for bearing housings



## Two parted mounting clamps for tubes

For tube diameter (mm)	Dimensions (mm)	Fitting holes	Distance between fitting holes (mm)	Part no.
Ø22	L66 x W20 x H40	2 x ø6,2	44,4	663101
Ø25	L66 x W20 x H40	2 x ø6,2	44,4	663102
Ø28,6	L66 x W20 x H40	2 x ø6,2	44,4	673107



PRODUCT GROUP 9

# HAND BRAKES, BRAKE HANDLES & RELEASE HANDLES



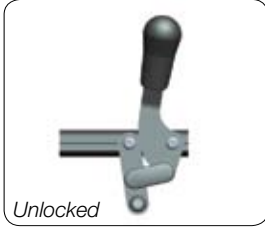
## CONTENT

<b>HAND BRAKES .....</b>	<b>204</b>
Hand brakes - aluminium.....	204
Hand brakes - steel .....	205
Extension levers.....	206
Mounting clamps.....	207
<b>BRAKE AND RELEASE HANDLES .....</b>	<b>208</b>
Brake handles .....	208
Brake and release handles (double function).....	210
Release handles .....	211

# HAND BRAKES

## Hand brakes - aluminium

### B1 - Brake with push to brake function and single bend brake lever



Description	Part. no. right	Part. no. left
Black	673061-R1	673062-L1

» Spring-loaded

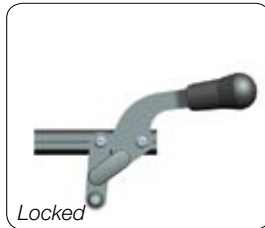
### B2 - Brake with push to brake function and double bend brake lever



Description	Part. no. right	Part. no. left
Black	673063-R1	673064-L1

» Spring-loaded

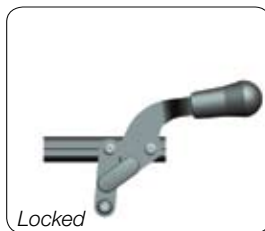
### B3 - Brake with push to brake function and single bend brake lever



Description	Part. no. right	Part. no. left
Black	673065-R1	673066-L1

» Spring-loaded

### B4 - Brake with push to brake function and double bend brake lever



Description	Part. no. right	Part. no. left
Black	673067-R1	673068-L1

» Spring-loaded

### B5 - Brake with pull to brake function and single bend brake lever

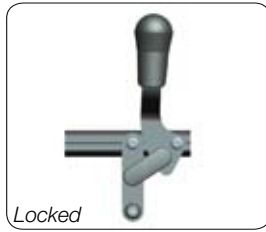
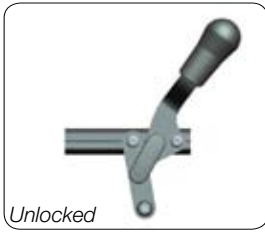


Description	Part. no. right	Part. no. left
Black	673069-R1	673070-L1

» Spring-loaded

# HAND BRAKES

## B6 - Brake with pull to brake function and double bend brake lever



Description	Part. no. right	Part. no. left
Black	673071-R1	673072-L1

» Spring-loaded

## B7 - Brake for sport with pull to brake function



Description	Part. no. right	Part. no. left
Black	673073-R1	673074-L1

» Spring-loaded

## B8 - Brake for people with limited strength with push to brake function and double bend brake lever

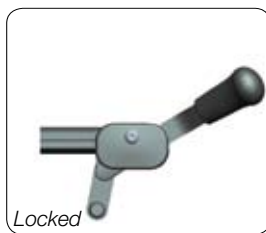


Description	Part. no. right	Part. no. left
Black	673075-R1	673076-L1

» Spring-loaded

### Hand brakes - steel

## B9 - Brake with push to brake function and single bend brake lever



Description	Part. no. right	Part. no. left
Black	673077-R1	673078-L1

» Spring-loaded

# HAND BRAKES

## B10 - Brake with push to brake function and double bend brake lever



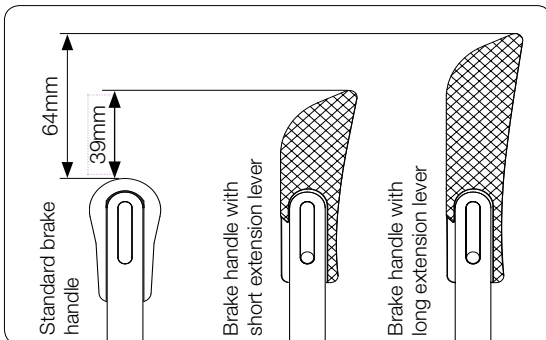
Description	Part. no. right	Part. no. left
Black	673079-R1	673080-L1
» Spring-loaded		

## Extension levers



### Extension levers for MBL hand brakes

- » Ergonomic shape
- » Foldable which gives easy transfer in and out of the chair
- » Reduce the needed brake force on the brake handle
- » Available in 2 different lengths
- » Available for brakes with both 4mm and 6mm lever.
- » Nice elegant design
- » Material: Black PA+GF



Description	Part. no. right side	Part. no. left side
Extension lever for alu brakes (Short)	673219	673216
Extension lever for alu brakes (Long)	67321A	673217
Extension lever for steel brakes (Short)	67321G	673213
Extension lever for steel brakes (Long)	673218	673214



< Brake handle with short extension lever

Brake handle with long extension lever >



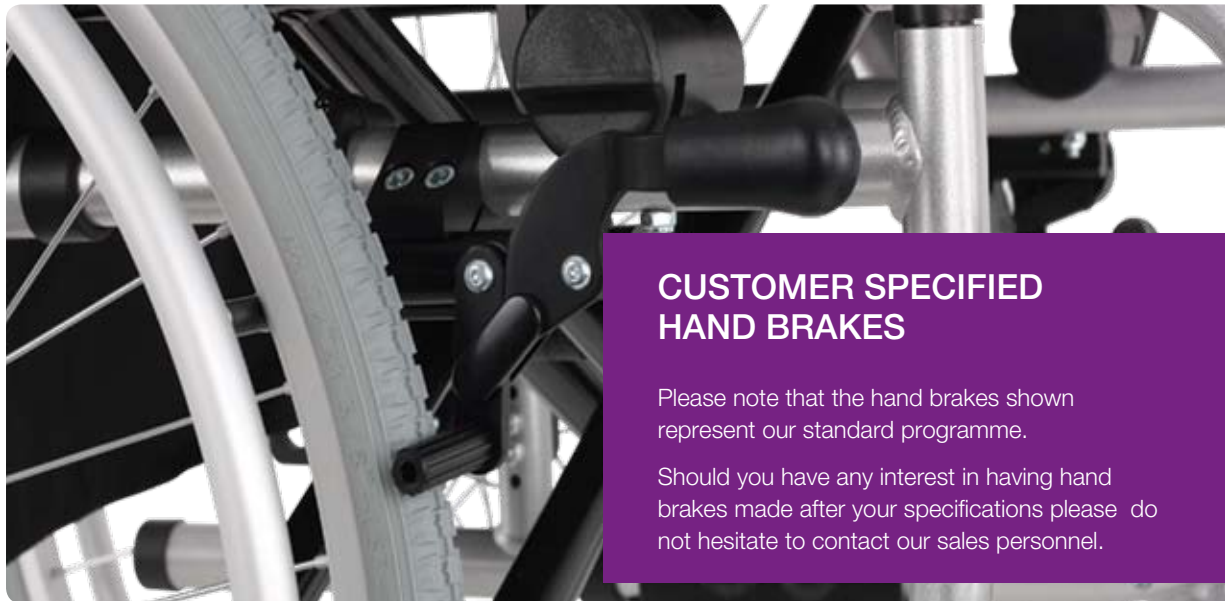
# HAND BRAKES

## Mounting clamps

### Mounting clamp - black aluminium



Description	Part. no. Black
Complete mounting clamp for fitting brake on tube - Ø19/Ø20 mm	674005
Complete mounting clamp for fitting brake on tube - Ø19/Ø22 mm	674004
Complete mounting clamp for fitting brake on tube - Ø19/Ø25 mm	674001
Complete mounting clamp for fitting brake on tube - Ø19/Ø30 mm	674003



### CUSTOMER SPECIFIED HAND BRAKES

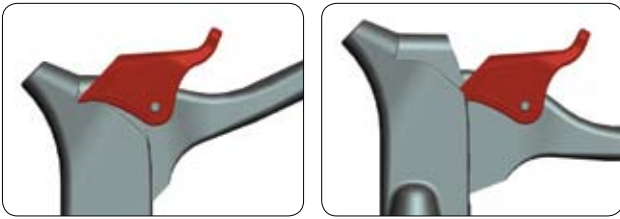
Please note that the hand brakes shown represent our standard programme.

Should you have any interest in having hand brakes made after your specifications please do not hesitate to contact our sales personnel.



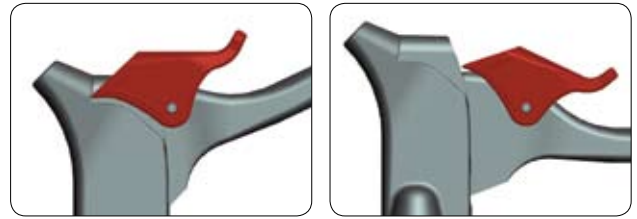
# BRAKE AND RELEASE HANDLES

## Automatic parking brake function



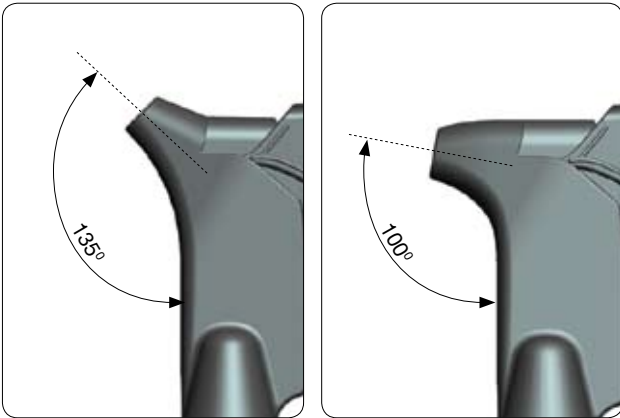
The stop lever pushes down automatically

## Manual parking brake function



The stop lever pushes up - it has to be pushed down manually

## Straight cable outlet vs. angled cable outlet



Angled cable outlet

Straight cable outlet

## Brake handles



### BH1 - Brake handle with angled cable outlet

- » Material: PA+GF
- » Textured surface

For tube diameter mm	Parking brake function	Quantity of parking brake positions	Type of screw for fitting	Color handle/stop lever	Part no.
Ø22	Automatic	5	Self tapping	Black/Black	671022
Ø22	Manual	5	Self tapping	Black/Black	671032
Ø25	Automatic	5	Self tapping	Black/Black	671009
Ø25	Manual	5	Self tapping	Black/Black	671019

# BRAKE AND RELEASE HANDLES



## BH1 - Brake handle with straight cable outlet

- » Material: PA+GF
- » Textured surface

For tube diameter mm	Parking brake function	Quantity of parking brake positions	Type of screw for fitting	Color handle/stop lever	Part no.
Ø22	Automatic	5	Self tapping	Black/Black	671020
Ø22	Manual	5	Self tapping	Black/Black	671030
Ø25	Automatic	5	Self tapping	Black/Black	671021
Ø25	Manual	5	Self tapping	Black/Black	671031



## BH2 - Brake handles with angled cable outlet

- » Material: PA+GF
- » Textured surface
- » Version with automatic brake function for Ø25mm tube is available on request

For tube diameter mm	Parking brake function	Quantity of parking brake positions	Type of screw for fitting	Color handle/stop lever	Part no.
Ø22	Manual	5	Normal	Black/Red	671026
Ø22	Automatic	5	Self tapping	Black/Red	671029
Ø25	Manual	5	Normal	Black/Red	671027



## BH2 - Brake handles with straight cable outlet

- » Material: PA+GF
- » Textured surface
- » Version with automatic brake function for Ø25mm tube is available on request

For tube diameter mm	Parking brake function	Quantity of parking brake positions	Type of screw for fitting	Color handle/stop lever	Part no.
Ø22	Manual	5	Self tapping	Black/Red	671042
Ø22	Automatic	5	Self tapping	Black/Red	671039
Ø25	Manual	5	Self tapping	Black/Red	671043

# BRAKE AND RELEASE HANDLES

## Brake and release handles (double function)



### BHRH1 - Brake and release handle (double function) with angled cable outlet

- » Material: PA+GF
- » Textured surface
- » Available for Ø25 mm tube on request

For tube diameter mm	Parking brake function	Quantity of parking brake positions	Type of screw for fitting	Color handle/levers	Part no.
Ø22	Manual	5	Self tapping	Black/Black	671028



### BHRH1 - Brake and release handle (double function) with straight cable outlet

- » Material: PA+GF
- » Textured surface
- » Available for Ø25 mm tube on request

For tube diameter mm	Parking brake function	Quantity of parking brake positions	Type of screw for fitting	Color handle/levers	Part no.
Ø22	Manual	5	Self tapping	Black/Black	671041

# BRAKE AND RELEASE HANDLES

## Release handles



### RH1 - Release handle

- » Material: PA+GF
- » Textured surface
- » Available for Ø25 mm tube on request

For tube diameter mm	Type of screw for fitting	Color handle/lever	Part no.
Ø22	Self tapping	Black/Black	671034



### RH2 - Release handle

- » Material: PA+GF
- » Textured surface
- » Available for Ø25 mm tube on request

For tube diameter mm	Type of screw for fitting	Color handle/lever	Part no.
Ø22	Normal	Black/Red	671044



### RH3 - Release handle

- » Material: PA+GF
- » Textured surface
- » Available for Ø25 mm tube on request

For tube diameter mm	Type of screw for fitting	Color handle/lever	Part no.
Ø22	Normal	Black/Blue	671045

# BRAKE AND RELEASE HANDLES



## RH4 - Release handle

- » Material: PA+GF
- » Textured surface
- » Available for Ø25 mm tube on request

For tube diameter mm	Type of screw for fitting	Color handle/lever	Part no.
Ø22	Normal	Black/Black	67101E



## RH5 - Release handle

- » Material handle: PA+GF
- » Material "holder": aluminium
- » Textured surface
- » Recommended for tube diameter Ø22-Ø27mm

For tube diameter mm	Color handle/holder	Part no.
Ø22	Black/Black	671105



Product group 9: Hand brakes, brake handles & release handles





# WHEELCHAIR ACCESSORIES & OTHER WHEELCHAIR COMPONENTS

## CONTENT

<b>TEXTILES.....</b>	<b>216</b>
<b>PU PRODUCTS .....</b>	<b>217</b>
<b>ANTI-TIP SYSTEMS.....</b>	<b>218</b>
<b>LEG SUPPORTS.....</b>	<b>219</b>
<b>FOOT RESTS.....</b>	<b>221</b>
Accessories for foot rests .....	223
<b>VARIOUS COMPONENTS .....</b>	<b>225</b>
Head support .....	225
Trays .....	226
Clamping levers.....	227
Angle adjustable joint.....	228
Swing away side support.....	228
Back hinges .....	229
Hand grips and foam covers.....	230
<b>MISCELLANEUS .....</b>	<b>231</b>
Band brake set.....	231
Bearings.....	232
Plastic caps.....	232
Position locks .....	232
Back plate for drum brake hub 90mm .....	232
Step pedal for wheelchairs .....	233
Spoke reflector.....	233



## Our sewing competences

In our sewing department in China with modern production lines we are able to produce all kind of products such as back- and seating systems for wheel chairs, baskets, seats etc. for rollators.

We can help to design the products, provide prototypes/samples and do mass production.

Our production process includes all kind of different sewing methods such as cutting, Textile printing, super sonic welding etc.

Should you have any interest please do not hesitate to contact our sales personnel at [sales@mbi.dk](mailto:sales@mbi.dk).





## Our polyurethane production line

In our modern PU-production department we are able to produce almost all kinds of Polyurethane Products. We produce among others various types of polyurethane pads such as:

- » Head supports
- » Arm rest pads
- » Calf supports
- » Amputee support

A selection is shown on this page. Please note that customer specified products are available on request.

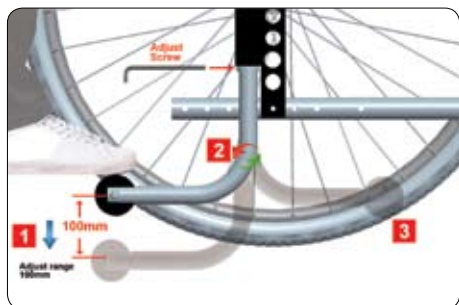
We only use environmental friendly PU raw material which does not contain any harmful components such as HCFC or others according to Montreal Protocol of 2004.

Please do not hesitate to contact MBL sales department should you have any questions.



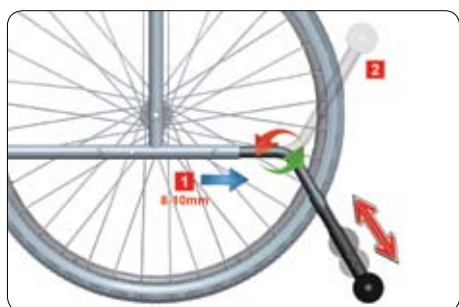
# ANTITIP SYSTEMS

## Anti-tip systems



### Anti-tip - type A

- » Operated by foot
- » Can be fitted on most wheel chairs
- » Big adjustment range stepless
- » Can swing away under the chair
- » Material: Aluminium
- » Item reference no.: 9311AP



### Anti-tip - type B

- » Operated by hand or foot
- » Can be fitted inside a tube.
- » Can swing upwards when not used
- » Can be adjusted in several steps
- » Material: Aluminum/Steel
- » Item reference no. for aluminium version: MI01ZA
- » Item reference no. for steel version: MI010Z









### Anti-tip - type C

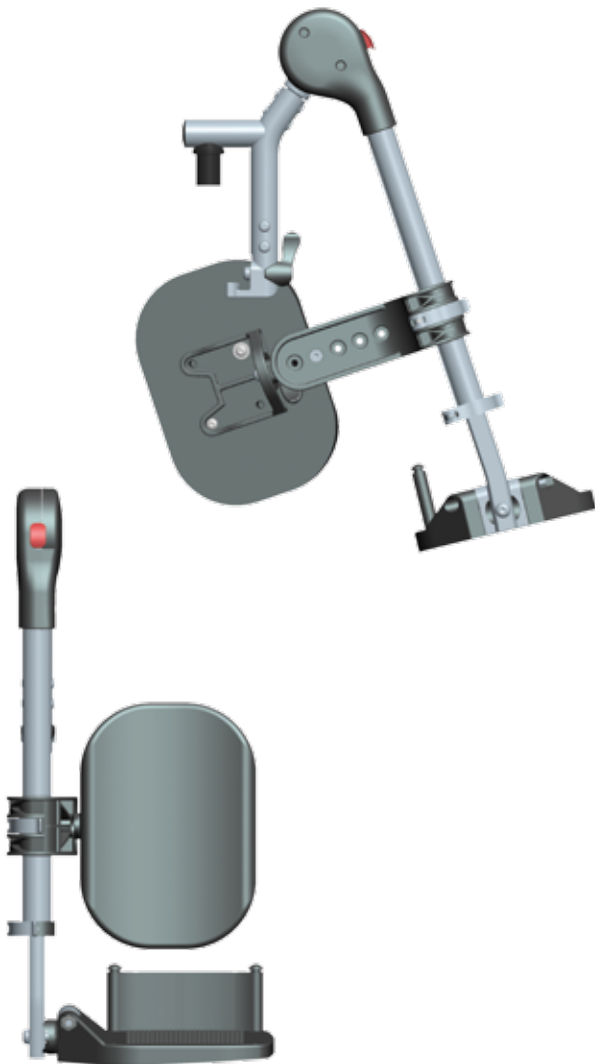
- » Hand operated
- » Can be fitted on tubes outer diam. Ø25mm
- » Big adjustment range
- » Material: Aluminum/Plastic
- » Item reference no.: HMH00A

### Wheel for anti-tip systems



						Part no.
mm	mm	mm	mm	kg	g	
47	10	ø6	8/10	-	-	886015

## Elevating leg support - de luxe



The MBL newly developed elevating leg support provides an excellent support for the wheelchair user.

With the two patented mechanisms for angle adjustment and calf supports it is a unique accessory for all users who requires an elevating leg support.

## Features

- » Easy adjustable in angle.
- » 7 step angle positions (Self locking). Patented system.
- » Complete leg support can swing out.
- » Fits all common seat widths and seat heights.
- » Calf pad can swing backwards for easy transfer in and out of the chair.
- » Foot plate and calf support height adjustable with out use of tools.
- » Available with depth adjustable foot plates.
- » Can be adapted to any kind of wheel chairs.

### Reference numbers

- » Reference numbers for 40cm wheelchair is 7125EG (right) and 7125FG (left)
- » Reference numbers for 44cm, 48cm, and 51 cm wheelchair is 7125AG (right) and 7125BG (left)

Please contact MBL sales department at [sales@mbl.dk](mailto:sales@mbl.dk) should you have any questions.

Easy adjustable in angle.



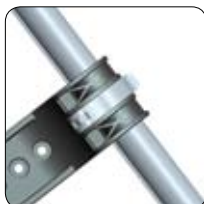
4 different positions of the Calf pad



The calf pad can freely adapt to the required angle.



The calf pad can be adjusted up and down without the use of tools.



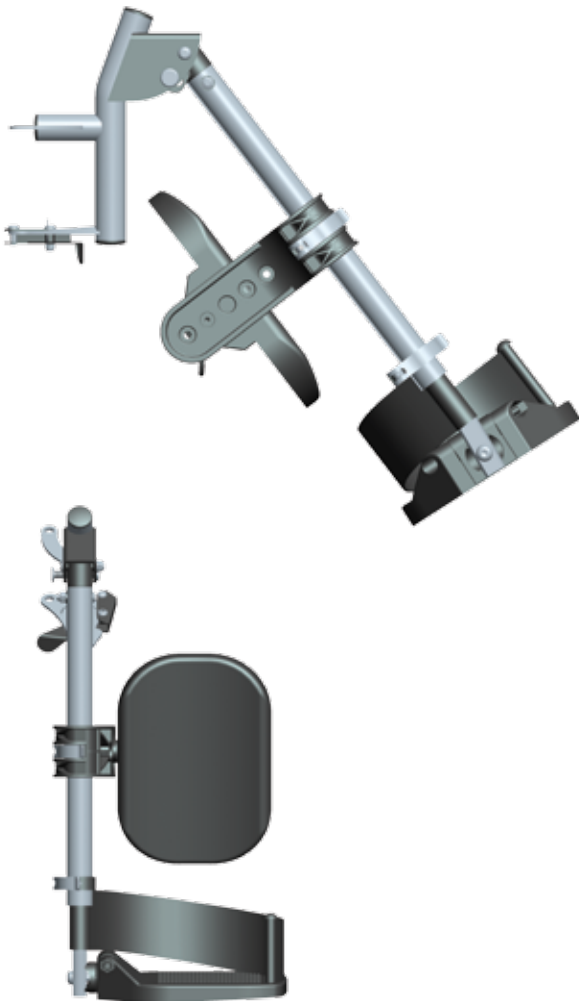
The foot plate can be adjusted up and down without the use of tools.



The foot plate can be adjusted in angle by means of the new Toothed hinge system\*



## Elevating leg support - standard



The MBL newly developed elevating leg support provides an excellent support for the wheelchair user.

## Features

- » Easy adjustable in angle.
- » 5 step angle positions (Self locking).
- » Complete leg support can swing out.
- » Fits all common seat widths and seat heights.
- » Calf pad can swing backwards for easy transfer in and out of the chair.
- » Foot plate and calf support height adjustable with out use of tools.
- » Available with depth adjustable foot plates.
- » Can be adapted to any kind of wheel chairs.

### Reference numbers

- » Reference numbers for 40cm wheelchair are 9311BA (right) and 9311FA (left)
- » Reference numbers for 46cm wheelchair are 9311BC (right) and 9311FC (left)
- » Reference numbers for 52cm wheelchair are 9311BE (right) and 9311FE (left)

Please contact MBL sales department at [sales@mbl.dk](mailto:sales@mbl.dk) should you have any questions.

Easy adjustable in angle.



4 different positions of the Calf pad



The calf pad can freely adapt to the required angle.



The calf pad can be adjusted up and down without the use of tools.



The foot plate can be adjusted up and down without the use of tools.



The foot plate can be adjusted in angle by means of the new Toothed hinge system\*



# FOOT RESTS

## Foot rests



### Type A - Complete foot rest incl. adjustable mounting set

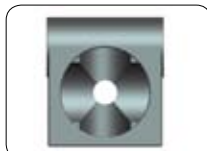
- » New toothed hinge system
- » Easy to adjust
- » Low torque required
- » Easy to release
- » Impact proof
- » Hinge-parts are made of high strength casted steel

Description	Length	Width	Part. no.
Foot rest for right or left fitting	140	160	71406A
Foot rest for right or left fitting	150	160	714060
Foot rest for right or left fitting	160	160	714061
Foot rest for right or left fitting	170	160	714062
Foot rest for right or left fitting	185	160	714063
Foot rest for right or left fitting	200	160	714064
Foot rest for right or left fitting	215	160	714065
Foot rest for right or left fitting	230	160	714066



### Type A - Foot rest without mounting set

Description	Length	Width	Part. no.
Foot rest for right or left fitting	140	160	714019
Foot rest for right or left fitting	150	160	714070
Foot rest for right or left fitting	160	160	714071
Foot rest for right or left fitting	170	160	714072
Foot rest for right or left fitting	185	160	714073
Foot rest for right or left fitting	200	160	714074
Foot rest for right or left fitting	215	160	714075
Foot rest for right or left fitting	230	160	714076



### Toothed hinge set for type A foot rests

#### New type hinges

- » New toothed hinges for type A foot rests
- » Enables easy angle adjustment of foot rests
- » Very strong and impact proof
- » Fit to Ø20 - Ø25mm tubes
- » Fit to almost all tube shapes



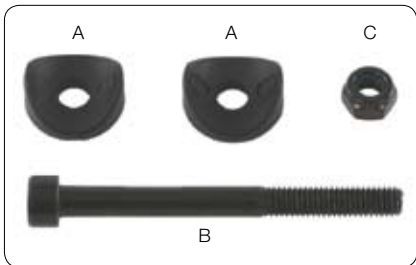
# FOOT RESTS



## Type B - Foot rest without mounting set

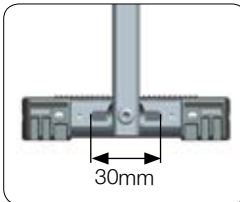
- » Material: PA + GF
- » Incl. holes for heel band holder
- » For Ø19 mm tubes
- » Other sizes can be made on request

Description	Length	Width	Part. no.
Foot rest for right or left fitting	172	150	71405B
Foot rest for right or left fitting	189	150	71405E
Foot rest for right or left fitting	222	150	71405F



## Fitting set for foot rest type B

Type	Description	Part. no.
A	Steering washer for Ø19mm tube, black PA + GF	72100N
B	Bolt M6 x 65mm, black galvanized	71900A
C	Lock nut M6, black galvanized	19106C



## Type C - Complete foot rest incl. adjustable fitting set but without tube

- » New elegant foot plate
- » Angle adjustable hinge-toothed system
- » Depth adjustable
- » Fit all common foot rest tubes
- » Material: Black PA + GF
- » Tube is not included in the part no.
- » Incl. holes for heel band holder
- » 4 different sizes

Description	Length	Width	Part. no.
Foot rest for right or left fitting (tube not included)	160	160	71410A
Foot rest for right or left fitting (tube not included)	180	160	71410B
Foot rest for right or left fitting (tube not included)	205	160	71410C
Foot rest for right or left fitting (tube not included)	230	160	71410D

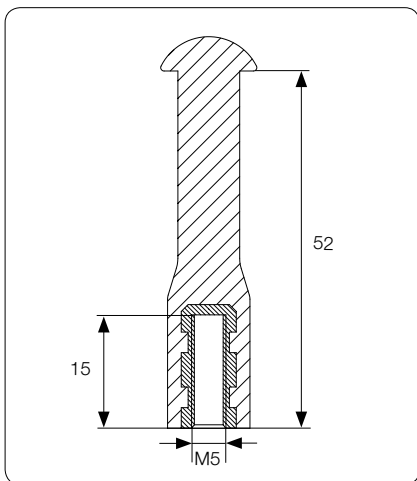
## Accessories for foot rests



### Heel bands

Description	Colour & Material	Part. no.
Heel band 50 x 355mm	Black polyester	MI10BA
Heel band 50 x 385mm	Black polyester	MI10BB
Heel band 50 x 415mm	Black polyester	MI10BB

» Other lengths are available on request



### Holder for heel band

Description	Material	Part. no.
Holder for heel band	PA + GF	71400S
Screw M5 x 16 for heel band holder	Black galvanized steel	19102F



### Clamp for foot rests

Description	Dimension	Fitting holes	Part. no.
Black anodized aluminium	ø19,2 x 50mm	2 x 6,8mm	714201
Black anodized aluminium	ø19,2 x 100mm	2 x 6,8mm	714202

# HAVE YOU NOT FOUND IT YET?

Then please keep in mind that the products shown in this catalogue are MBL standard products. However, a large part of our production consists of customized products which are based on MBL standard products but developed into a unique solution that meet our customers' specific requirements and need for individual design.

Please feel free to contact us if you are looking for something special.

## Head Support



## Features

- » Soft and comfortable head support.
- » Multi adjustability makes the head support fit most of the wheel chairs on the market
- » Easy and step less UP/DOWN + IN/OUT adjustability allows the user to obtain maximum comfort.
- » QUICK RELEASE function allows you to remove the head support from the wheel chair in seconds.
- » The integrated memory function enable fast adjustment to preset position
- » Fixed by a high strength aluminium rack – Silver anodized
- » Can be fitted on tubes Ø22 , Ø25 or Ø27mm.
- » The head rest includes PU-Pad and all needed fixation brackets etc.
- » PU-Pad produced by environmental friendly process.

Please contact MBL sales department at [sales@mbi.dk](mailto:sales@mbi.dk) should you have any questions.



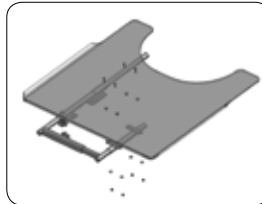
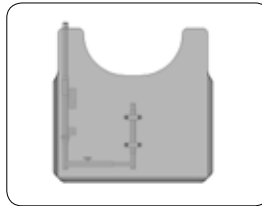
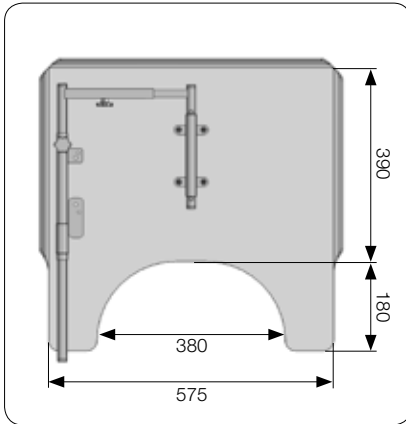
### Description

Complete head support

### Part no.

MBS700

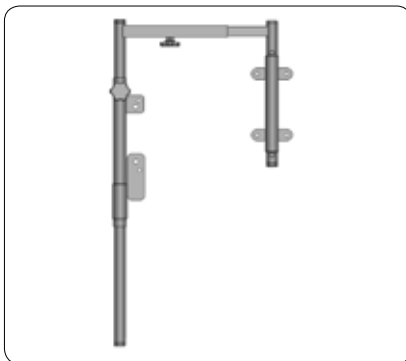
## Trays



### Tray in transparent or smoked coloured plastic - with or without mounting system

- » Table material: PETG
- » Colour: Transparent or smoked coloured
- » High surface hardness
- » Impact resistant
- » Shatter-proof
- » Mounting system: Black or chromed steel
- » Easy adjustment of width

Description	Part no. shatter-proof transparent plastic	Part no. shatter-proof smoked coloured plastic
Complete tray incl. chromed steel mounting system	721014	-
Complete tray incl. black steel mounting system	-	721016
Tray excl. mounting system	721004	721005



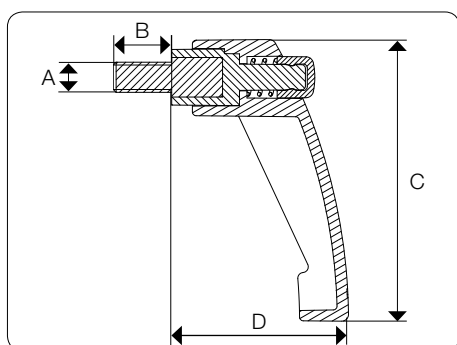
### Mounting system for trays

- » Black or chromed steel
- » Easy adjustment of width

Description	Part no.
Complete mounting system excl. tray - black steel	721101
Complete mounting system excl. tray - chromed steel	721005

# VARIOUS COMPONENTS

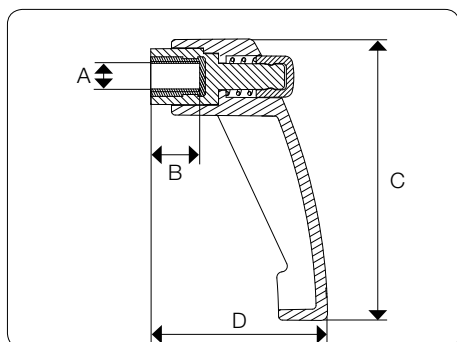
## Clamping levers



### Clamping levers with external thread

- » Black textured surface
- » Multiple handle positions

Description	A (mm)	B (mm)	C (mm)	D (mm)	MBL Logo	Part no.
Clamping lever external thread M8 x 15,5	M8	15,5	75	47	Yes	671036
Clamping lever external thread M8 x 27	M8	27	75	47	Yes	67101K
Clamping lever external thread M8 x 30	M8	30	75	47	Yes	671038
Clamping lever external thread M6 x 16	M6	16	51	41	Yes	671013
Clamping lever external thread M6 x 16	M6	16	51	41	No	671016



### Clamping levers with internal thread

- » Black textured surface
- » Multiple handle positions

Description	A (mm)	B (mm)	C (mm)	D (mm)	MBL Logo	Part no.
Clamping lever with internal thread M8 x 13	M8	13	75	47	Yes	671037

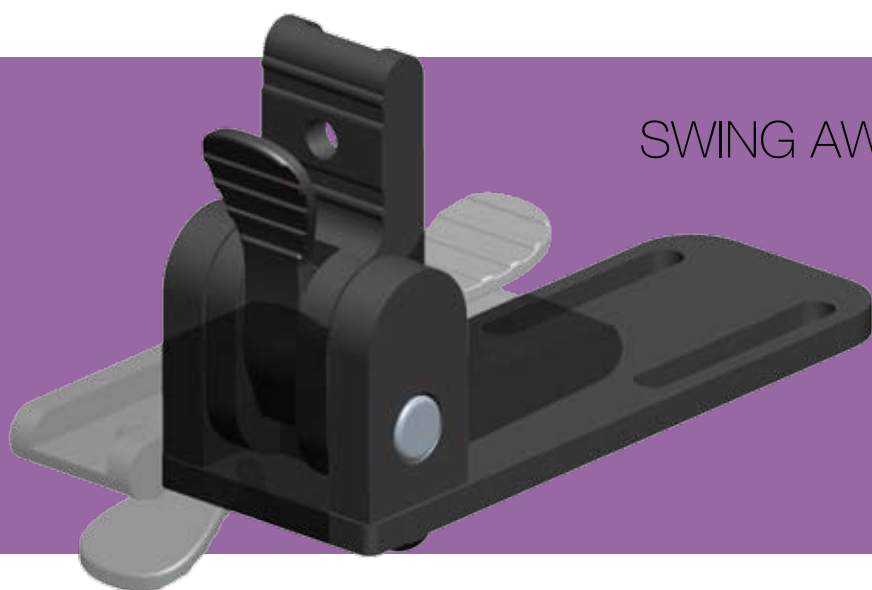
## Angle adjustment joint



### Angle adjustment joint

- » For Ø22 mm tubes
- » Grey or black
- » Material: PA + GF

Description	Part no. grey	Part no. Black
Angle adjustment joint	HP00JG	PM001T



## SWING AWAY **SIDE SUPPORT**

- » Hinge for side support
- » Anodized aluminium
- » Very stabile
- » Rotates 180 degrees
- » Fits to both sides
- » Fixation plates available in different sizes
- » Please contact MBL for other details and types of fixations plate
- » Reference no.: 93116K



## Back Hinges



### Hinge for angle adjustable back rest

- » Newly designed and patented hinge for angle adjustable back rest.
- » Produced in high strength casted steel.
- » Incremental adjustment. 0°, -13°, -26°. Other angles available on request.
- » Easy and fast to change the angle of the back rest. Push the release button and adjust for the desired angle position. No tools needed.
- » Very rigid and stabile.
- » Available for different tube diameters and hole patterns on request
- » Reference item no: LS0101



### Hinge for half foldable back


- » Compact hinge for foldable backs.
- » Produced in high strength casted steel.
- » Available for different tube diameters and hole patterns on request.
- » Reference item no.: 67315J

## Hand grips and foam covers



### Foam covers

- » Fit Ø20 or Ø22 mm tubes
- » Other lengths are available on request

Length mm	 mm	 mm	Part no. black
*75	Ø22	Ø36	733010
*105	Ø22	Ø36	733011
*135	Ø22	Ø36	733012
660	Ø22	Ø36	733013
660	Ø20	Ø34	733014



### Hand grip - type 1

For tube diameter	Material	Surface	Length	Part no. black
Ø22	Black rubber	Ribbed	112	732212



### Hand grip - type 2

For tube diameter	Material	Surface	Length	Part no. black
Ø22	Black rubber	Holes	112mm	721091

- » Handgrip incl. holes for ventilation

# VARIOUS COMPONENTS



## Hand grip - type 3

For tube diameter	Material	Surface	Length	Part no. black
Ø22	Black rubber	Dots	100mm	HP014H



## Hand grips for rollators - ergonomic

Description	For tube diameter	Material	Surface	Length	Part no. black
left side	Ø22	Black rubber	Smooth	122mm	ROL11V
right side	Ø22	Black rubber	Smooth	122mm	ROL11U

» Hand grip with reflector

## Miscellaneous



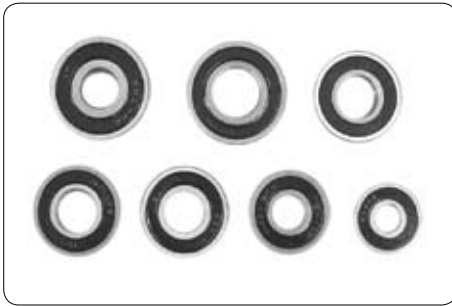
## Band brake set

- » Asbestos-free brake lining
- » Strong steel spring for brake release
- » Customer specified inserts can be made

Specifications	Part no.
SET 1: Complete Band Brake set incl. cable, brake handle, brake adjuster and pinch bolt	671051
SET 2: Band Brake set as SET 1 - Excl. cable and brake handle	671052
SET 3: Band Brake set as SET 2 - Excl. drum for wheel	671053

# VARIOUS COMPONENTS

## Bearings



Dimension (mm)	Type	Part no.
ø8 - Ø22 x 7	608 2RS	694001
ø10 - Ø26 x 8	6000 2RS	694014
ø12 - Ø28 x 8	6001 2RS	694024
ø12 - Ø1 1/8" x 5/16"	2RS	694030
ø1/2" - Ø28 x 8	2RS	694031
ø1/2" - Ø1 1/8" x 5/16"	R8 2RS	694032
ø12 - Ø32 x 10	6201 2RS	694041
ø15 - Ø32 x 9	6002 2RS	694045

## Plastic caps



Description	Dimension	Part no. black
Soft cap for quick-release axles and aluminium hubs	Ø29	641005
Hard cap for fixed axles and steel hubs	Ø28,5	641010
Hard cap for fixed axles and 12" plastic rims	Ø32	641011
Hard cap for fixed axles and wheels with 32 mm bearings	Ø32,5	641013

## Position locks



Description	Dimension	Figure	Part no.
Single position lock	M10 x 1	A	617001
Single position lock	M12 x 1	A	617002
Single position lock	M12 x 1.75	A	617003
Double position lock	M10 x 1	B	617011
Double position lock	M12 x 1	B	617012
Double position lock	M12 x 1.75	B	617013

## Back plate for drum brake hub 90mm



Description	Part no. side A	Part no. side B
Ø90 mm back plates without bushings etc.	693A11	693A12

# VARIOUS COMPONENTS

## Step pedal for wheelchairs



For tube	L x B	Part no.
Ø22	69,5 x 32mm	RPA140
Ø25,4	69,5 x 32mm	MBL109

» Material: black rubber

## Spoke reflector



Description	Part no.
Spoke reflector	397509A



# PRODUCT GROUP 11

## **RAMPS**



### CONTENT

<b>SCALA RAMPS .....</b>	<b>237</b>
SCALA MINI (door step ramp) .....	238
SCALA F2 .....	240
SCALA FT3 .....	241
SCALA S .....	242
SCALA T2 .....	243
SCALA T3 .....	244
SCALA ramps for vehicles with 3 wheels .....	246
<b>ACCESS RAMPS.....</b>	<b>247</b>
ACCESS Easy Travel .....	248
ACCESS Compact 1 .....	249
ACCESS Compact 2 .....	250
ACCESS Channel.....	251





## **MBL SCALA RAMPS**

MBL's newly developed light weight SCALA channel ramps are made of high strength heat treated aluminum.

They are available in foldable and telescopic versions and as a combination of both.

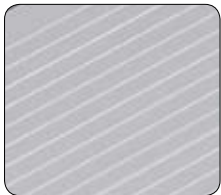


## SCALA MINI

Foldable door step ramp in one part



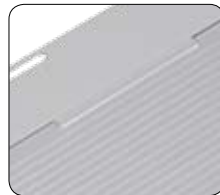
» The MBL door step ramp is lightweight and easy to handle and can be used in different ways and for different types of steps as shown on examples on the next page.



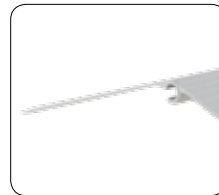
- High friction aluminium profile surface



- Built-in lifting handles



- Easy foldable and durable hinge construction



- hinge profile ensures stable contact to the doorsteps

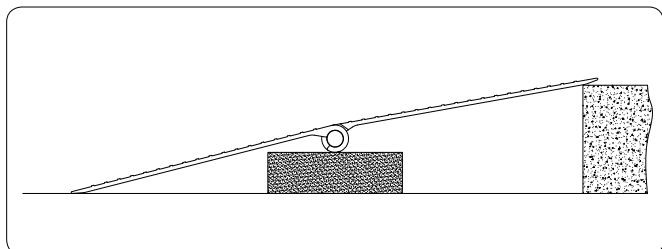
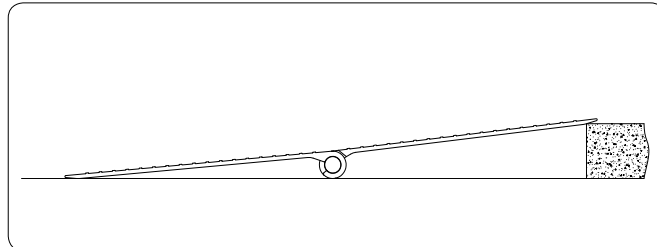
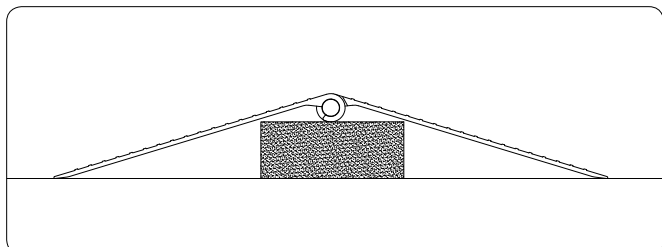
Name	Length (mm)	Width (mm)	Max height for step (mm)	Max load (kg)	Net weight/ (kg)	Part no. (1 piece)
Scala mini	760	400	30-70	350	3,3	771002



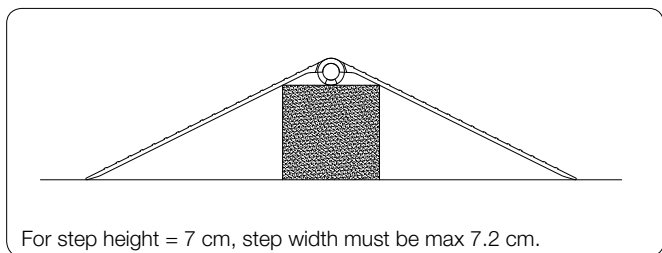
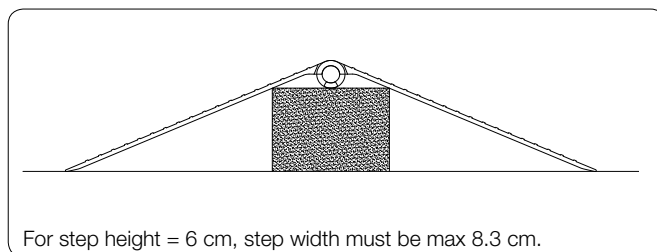
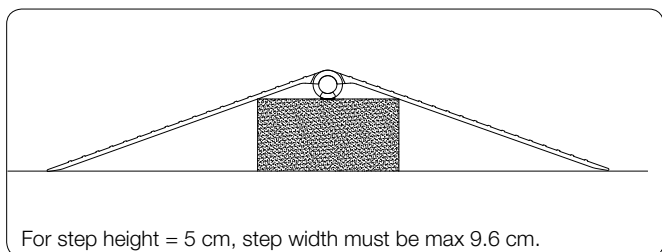
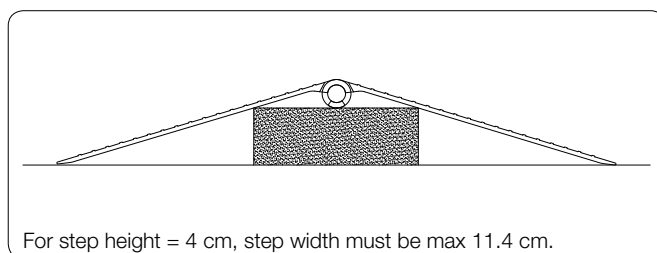
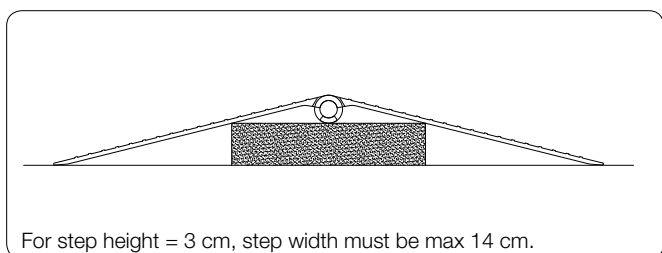
# SCALA RAMPS

## Ways to use the SCALA MINI ramp

- » The MBL door step ramp can be used in a variety of ways indoor and outdoor as shown on examples below.



## Height/Width correlation



## SCALA F2

Foldable ramps in two parts



- High friction surface combined with drain holes



- Ergonomic lifting handles



- Foldable in two parts



- Transportation lock



- Anti-slide surface for safe fixation of the ramps

Name	Length (mm)	Track width (mm)	Max height for step (mm)	Max load/pair (kg)	Net weight/pair (kg)	Part no. Set of 2 ramps
SCALA 1100 F2	1100	210	220	400	7,1	771071
SCALA 1500 F2	1500	210	300	400	9,2	771072
SCALA 2000 F2	2000	210	400	300	11,9	771073

### Features & Options

- » Low weight
- » Other lengths are available on request. Minimum order size required.

# SCALA RAMPS

## SCALA FT3

Foldable and telescopic ramp in 3 parts



- High friction surface combined with drain holes



- Ergonomic fitting handles



- Transportation locks



- Equipped with plastic sliding bearings to secure smooth operation



- Anti-slide surface for safe fixation of the ramps

Name	Max Length (mm)	Track width (mm)	Max height for step (mm)	Max load/pair (kg)	Net weight/pair (kg)	Part no. Set of 2 ramps
SCALA 2770 FT3	2770	195	600	250	16,6	771074

### Features & Options

- » Low weight
- » Other lengths are available on request. Minimum order size required.

# SCALA RAMPS

## SCALA S

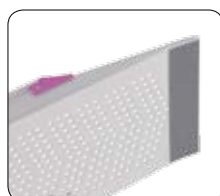
Single part ramps



- High friction surface combined with drain holes



- Ergonomic lifting handle



- Anti-slide surface for safe fixation of the ramps

Name	Length (mm)	Track width (mm)	Max height for step (mm)	Max load/pair (kg)	Net weight/pair (kg)	Part no. Set of 2 ramps
SCALA 1170 S	1170	210	230	400	5,9	771075
SCALA 550 S	550	210	110	400	2,9	771076

### Features & Options

- » Low weight
- » Other lengths are available on request. Minimum order size required.



## SCALA T2

Telescopic ramp in 2 parts



- High friction surface combined with drain holes



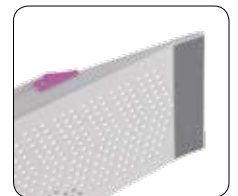
- Ergonomic lifting handle



- Transportation lock



- Equipped with plastic sliding bearings to secure smooth operation



- Anti-slide surface for safe fixation of the ramps

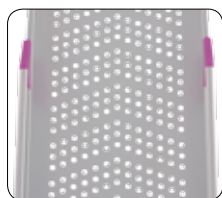
Name	Max Length (mm)	Track width (mm)	Max height for step (mm)	Max load/pair (kg)	Net weight/pair (kg)	Part no. Set of 2 ramps
SCALA 1200 T2	1200	195	240	350	7,4	771079
SCALA 2030 T2	2030	195	400	300	11,4	771078

### Features & Options

- » Low weight
- » Other lengths are available on request. Minimum order size required.

## SCALA T3

Telescopic ramps in 3 parts



- High friction surface combined with drain holes



- Ergonomic lifting handle



- Transportation locks



- Equipped with plastic sliding bearings to secure smooth operation



- Anti-slide surface for safe fixation of the ramps

Name	Max Length (mm)	Track width (mm)	Max height for step (mm)	Max load/pair (kg)	Net weight/pair (kg)	Part no. Set of 2 ramps
SCALA 2890 T3	2890	180	580	250	16,5	771070
SCALA 1990 T3	1990	180	400	300	12,2	771077

### Features & Options

- » Low weight
- » Other lengths are available on request. Minimum order size required.





Product group 1.1: Ramps

## SCALA RAMPS FOR SCOOTERS

- and other 3 wheel vehicles



- » You can find detailed information of each type of ramp on the previous pages.
- » Please note that the part numbers shown below, max loads, and weights are for a set of 3 ramps.

### SCALA F2 - Foldable ramps in two parts

Name	Length (mm)	Track width (mm)	Max height for step (mm)	Max load/set of 3 (kg)	Net weight/set of 3 (kg)	Part no. Set of 3 ramps
SCALA 1100 F2	1100	210	220	500	10,7	771071-3P
SCALA 1500 F2	1500	210	300	500	13,8	771072-3P
SCALA 2000 F2	2000	210	400	375	17,9	771073-3P

### SCALA FT3 - Foldable and telescopic ramps in three parts

Name	Max Length (mm)	Track width (mm)	Max height for step (mm)	Max load/set of 3 (kg)	Net weight/set of 3 (kg)	Part no. Set of 3 ramps
SCALA 2770 FT3	2770	195	600	300	24,9	771074-3P

### SCALA S - Single part ramps

Name	Length (mm)	Track width (mm)	Max height for step (mm)	Max load/set of 3 (kg)	Net weight/set of 3 (kg)	Part no. Set of 3 ramps
SCALA 1170 S	1170	210	230	500	8,9	771075-3P
SCALA 550 S	550	210	110	500	4,4	771076-3P

### SCALA T2 - Telescopic ramps in two parts

Name	Max Length (mm)	Track width (mm)	Max height for step (mm)	Max load/set of 3 (kg)	Net weight/set of 3 (kg)	Part no. Set of 3 ramps
SCALA 1200 T2	1200	195	240	425	11,1	771079-3P
SCALA 2030 T2	2030	195	400	375	17,1	771078-3P

### SCALA T3 - Telescopic ramps in three parts

Name	Max Length (mm)	Track width (mm)	Max height for step (mm)	Max load/set of 3 (kg)	Net weight/set of 3 (kg)	Part no. Set of 3 ramps
SCALA 2890 T3	2890	180	580	300	24,8	771070-3P
SCALA 1990 T3	1990	180	400	375	18,3	771077-3P

## **MBL ACCESS RAMPS**

Our ACCESS ramps are solid and high performing. Based on a strong Honeycomb construction and with a smooth and safe side wall.

The ramps are available in a wide range of models - as both channel ramps and platform ramps.





## ACCESS Easy Travel

Foldable ramp, 1-piece construction



• Foldable handle



• Transportation lock

Name	Length (mm)	Track width (mm)	Max height for step (mm)	Weight (kg)	Max load (kg)	Part no.
ACCESS Easy Travel	450	710 (2 x 355)	90	4.1	300	771001

### Features

- » Aluminium ramp with anti-slip surface

## ACCESS Compact 1

Foldable ramps, 1-piece construction



- Foldable handle



- Transportation lock



- High and safe side edges

Name	Length (mm)	Track width (mm)	Max height for step (mm)	Weight (kg)	Max load (kg)	Part no.
ACCESS Compact 1	700	760 (2 x 380)	140	6.3	300	771011
ACCESS Compact 1	900	760 (2 x 380)	180	7.6	300	771012
ACCESS Compact 1	1200	760 (2 x 380)	240	9.5	300	771013
ACCESS Compact 1	1500	760 (2 x 380)	300	11.5	300	771014

### Features

- » Aluminium ramp with anti-slip surface

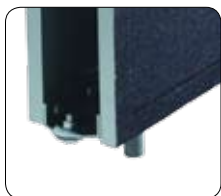


## ACCESS Compact 2

Foldable ramps, 2-pieces construction



- Safety lock



- Spacers have the function of legs when the ramp is folded



- Foldable handle



- Transportation lock



- High and safe side edges

Name	Length (mm)	Track width (mm)	Max height for step (mm)	Weight (kg)	Max load/pair (kg)	Part no. Set of 2 ramps
ACCESS Compact 2	1800	760 (2 x 380)	360	2 x 7.1	2 x 150	771021
ACCESS Compact 2	2400	760 (2 x 380)	480	2 x 10.6	2 x 150	771022
ACCESS Compact 2	3000	760 (2 x 380)	600	2 x 12.4	2 x 150	771023

### Features

- » Aluminium ramp with anti-slip surface
- » Safety lock keep the ramps together when the ramp is in use.
- » Spacers have the function of of legs when the ramp is folded. They also help keeping the ramps in place when the ramp is in use.

## ACCESS Channel

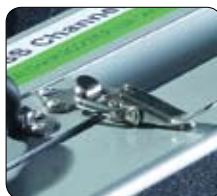
Foldable - 2 single ramps



- Foldable with 2 hinges



- Foldable handle



- Transportation lock

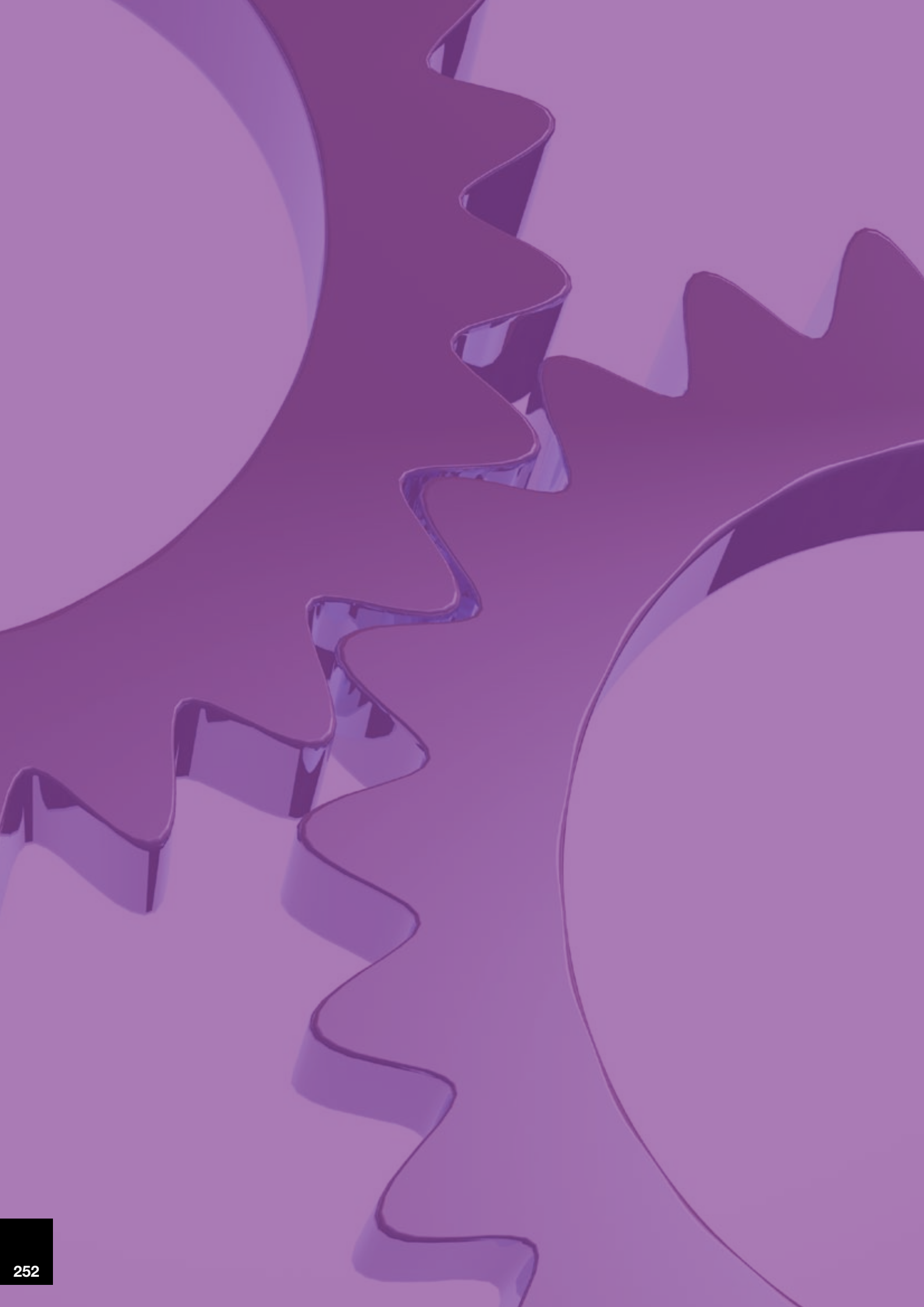


- High and safe side edges

Name	Length (mm)	Track width (mm)	Max height for step (mm)	Weight (kg)	Max load/pair (kg)	Part no. Set of 2 ramps
ACCESS Channel 1500	1500	2 x 250	300	2 x 5.0	2 x 200	771031
ACCESS Channel 1800	1800	2 x 250	360	2 x 5.7	2 x 200	771032
ACCESS Channel 2100	2100	2 x 250	420	2 x 6.8	2 x 200	771033

### Features

- » Aluminium ramp with anti-slip surface



# GENERAL TERMS AND CONDITIONS

The below general terms and conditions apply to all deliveries from MBL Companies as defined unless otherwise expressly agreed in writing.

## 1. Drawings, tools, etc.

1.1 Any drawings and other technical documents which MBL may choose to send to the Customer remain the property of MBL and MBL has all intellectual property rights over the drawings etc. which must not be copied, reproduced or used in any other manner without authorisation.

1.2 Special tools or models required for the manufacture remain the property of MBL and MBL has all intellectual property rights over the tools or models.

If the Customer pays for the special tool/model it is the property of the Customer and the Customer has all intellectual property rights over the model/tool. MBL is not liable for any damage to the model/tool, unless caused by gross negligence on MBL's part. It is the responsibility of the Customer to insure the model/tool.

If the model/tool is manufactured on the basis of the Customer's drawings, it is the Customer's responsibility to ensure that the drawings are correct and in accordance with the Customer's requirements for the product, including measurements and quality. MBL is hence not liable for defects or imperfections caused by inaccurate drawings, including incorrect information on the drawings. This applies whether the model/tool is the property of the Customer or MBL.

## 2. Design

2.1 MBL reserves the right without prior notification to make changes to a product if those changes have no essential impact on the specified function, design, quality norm etc. of the product.

2.2 In respect of products manufactured according to the Customer's specifications, the Customer shall guarantee vis-à-vis MBL that said products do not infringe on the intellectual property rights of any third party.

## 3. Customer's goods

3.1 Customer goods or other materials belonging to the Customer, which are handed over to MBL, are stored at the Customer's expense and risk. Thus MBL shall not be liable for any loss or damage, and any necessary insurance must be taken out by the Customer.

## 4. Quotation and acceptance

4.1 Any quotation by MBL will remain in force for 60 days from the date of the written quotation unless otherwise agreed. Only quotations written on MBL official headed paper and printed from the MBL computer system and signed by two persons at the same time are valid.

4.2 The Customer's written acceptance of a quotation must be without any change of content and conditions and received by MBL within the time limit for acceptance. In the case of any changes in the content and conditions it is considered to be a new quotation and MBL is not bound by the contents of this new quotation, unless MBL has accepted the new quotation in writing and the circumstances clearly show that MBL was aware of the change in conditions.

4.3 The Customer's order is binding on the Customer and cannot be changed or cancelled without MBL's acceptance.

## 5. Price

5.1 The quoted prices are based on the current prices and costs at the date of the quotation/order confirmation, including cost of materials, salaries and wages and other manufacturing costs. In the event of changes in said prices and costs – also including changed or new direct or indirect taxes and currency

# GENERAL TERMS AND CONDITIONS

fluctuations – up until the date of delivery, MBL is entitled to adjust the prices quoted/confirmed accordingly.

- 5.2 Orders for goods of which the total order amounts to less than EUR 500 excl. VAT will only be invoiced subject to payment by the Customer of a handling fee in the amount of EUR 100, unless otherwise agreed in writing.
- 5.3 All prices are exclusive of VAT, packaging, freight and other taxes and duties. Packaging is charged separately at cost and is not returnable.

## 6. Delivery

- 6.1 Delivery of goods from MBL is carried out in accordance with INCOTERMS 2010 Ex Works from a logistics centre appointed by MBL, unless otherwise agreed.
- 6.2 If the customer chooses MBL to dispatch the goods, MBL will effect said dispatch as an agent of the Customer and at the Customer's expense and risk. In such situations MBL retains the right to choose the method of transportation.
- 6.3 The term of delivery takes effect from the date on which MBL has received complete information regarding the execution of the order, including all necessary technical details and formalities.
- 6.4 All dates of delivery are approximate and shall not be binding on MBL.
- 6.5 If the Customer decides not to carry out the pick up on the date given by MBL, the Customer must immediately inform MBL of the correct pick up date. The Customer will cover any additional cost for the change of date of pick up/delivery.

## 7. Quantity

- 7.1 In the case of orders for customized goods, MBL reserves the right to deliver up to 10 per cent more/less than the agreed quantity.

## 8. Payment

- 8.1 Payment terms are 30 days from the date of invoice unless otherwise agreed in writing. In the event of overdue payment, MBL reserves the right to charge interest. If the Customer fails to observe the terms of payment, MBL will be entitled to suspend the execution of any other orders from the Customer. If the outstanding amount is not paid within a further short term of payment stipulated by MBL, MBL is entitled to cancel all agreements concluded with the Customer and demand all incurred costs be paid by the customer..
- 8.2 MBL shall be entitled to demand that payment be effected in a specific manner.
- 8.3 The Customer shall not be entitled to retain payments or effect set-offs, e.g. with reference to defects or deficiencies in previous deliveries, without MBL's written approval. If MBL grants the customer the right to retain payment, it can only be for the amount of the claimed goods.

## 9. Retention of title

- 9.1 MBL holds title to the goods and models/tools sold until payment has been effected.

## 10. Force majeure

- 10.1 In the event of force majeure, including events such as strike, lockout, fire, flooding, major damage to machinery, including comprehensive operational failure, war, ban on import and export, seizure, government intervention, ice obstacle, damage to or loss of ship, delays during transport, non-delivery or incorrect delivery by sub-supplier, shortage of raw materials or energy, or other events over which MBL has no control, MBL is entitled to postpone or cancel the execution of an order. In the event of postponed execution or cancellation, the Customer is not entitled to claim damages or raise any other claim against MBL.

# GENERAL TERMS AND CONDITIONS

## 11. Complaints

- 11.1 The Customer shall examine the delivered goods immediately upon receipt.
- 11.2 Any complaints must be made in writing and not later than 30 days from the date of delivery. Otherwise, the complaint will be rejected. Complaints must be sent to the MBL Company named on the invoice.
- 11.3 The Customer shall forfeit his right to claim defects in the delivered products, which the Customer has examined or ought to have examined, cf. clause 11.1, if a complaint is not filed in accordance with clause 11.2.
- 11.4 Goods can only be returned upon receipt of prior written approval by MBL.

## 12. Liability

- 12.1 In the case of delay, MBL is not liable for the Customer's loss due to such delay, regardless of the reason for the delay.
- 12.2 Any delivery delays shall not entitle the Customer to cancel an order.
- 12.3 In the case of delivery of defective goods for which MBL can be held liable, MBL is entitled to replace or repair the goods at the customer's premises, if such replacement or repair is effected as soon as possible but within 60 days after receipt of the complaint. The Customer has to make his written complaint to MBL concerning the particular defects in such a manner that it allows MBL to decide whether to repair or replace the goods. If MBL replaces or repairs the defective goods, the Customer will not be entitled to raise any other claim against MBL in respect of the defects in question. Any replacement will be delivered to the Customer's usual delivery address, whereupon the Customer shall be responsible for any re-forwarding. If MBL does not replace or repair the defective goods, MBL shall issue a credit note for the purchase price.
- 12.4 No damages will be paid for the Customer's possible loss of business or profit or any other direct or indirect loss, including any loss due to the Customer's legal relationship with a third party. Damages covered by MBL cannot exceed the amount of the agreed purchase price.
- 12.4 MBL shall not be held liable for defects in the product which are due to incorrect storage, handling or use of the product after the Customer's purchase of said product.
- 12.5 The relations between the Customer and his customers and/or end users shall be of no concern to MBL. MBL shall hence not be liable to the Customer's customers or end users and their potential loss.

## 13. Product liability

- 13.1 MBL disclaims liability to the widest possible extent relative to the legal position applicable from time to time, and MBL can hence only be subject to product liability in cases where applicable mandatory statutory provisions absolutely demand this.
- 13.2 Provided that mandatory statutory provisions positively impose liability on MBL, MBL shall only be liable for damage, where it is demonstrated that (i) said damage is due to a defect for which MBL is liable, and (ii) this defect is the reason for the damage occurred. The burden of proof hereof shall lie with the Customer.
- 13.3 MBL shall not be held liable, where it is found that the defect causing the damage did not exist at the time when the product was put on the market. Likewise, MBL shall not be held liable, where the defect in the product is the result of the fact that the product must comply with public authorities' mandatory requirements or of the fact that scientific or technical knowledge at the time when the product was put on the market rendered it impossible to discover the defect or that the defect is a known but inevitable defect/risk of the product.
- 13.4 MBL shall furthermore not be held liable for damage occurred as a consequence of the Customer's or other party's incorrect use of the product and/or incorrect information about the product.
- 13.5 The Customer shall be liable to be sued and have this action conducted before the same court or instance and according to similar rules of law as applicable to any product liability case against MBL.
- 13.6 To the extent that MBL should incur product liability towards a third party in connection with the Customer's use of the delivered product, including resale and distribution, the Customer shall indemnify MBL to the extent of the

# GENERAL TERMS AND CONDITIONS

restricted liability of MBL as stipulated above.

- 13.7 Any claim for damages relating to product damage shall become statute-barred 3 (three) years after the day when the injured learned of or ought to have learned of the damage, the defect and the name and address of the manufacturer concerned.
- 13.8 MBL is not liable for loss of business or any other indirect loss whatsoever.

## **14. Forum and governing law**

- 14.1 It is agreed that the forum of any dispute between the parties shall be the Court in Viborg, Klostermarken 10-12, 8800 Viborg, Denmark
- 14.2 Any dispute between the parties shall be governed by Danish law.

## **15. MBL companies**

These sales and delivery terms are valid for MBL A/S, MBL Poland Sp. z o.o. and MBL (Xiamen) Co. Ltd.

MBL

1<sup>st</sup> December 2013



View more on  
**[www.mbl.dk](http://www.mbl.dk)**



[www.mbl.dk](http://www.mbl.dk)

**MBL DENMARK**

MBL a/s

Tel.: +45 86 80 28 00

Contact@mbl.dk

**MBL POLAND**

MBL Poland Sp. zo. o.

Ul. Sulejowska 45

97-300 Piotrków Trybunalski

Poland

Tel.: +48 44 73 24 100

Fax: +48 44 73 24 200

Contact@mbl.pl

**MBL CHINA**

MBL (Xiamen) Co. Ltd.

No. 289 Wengjiao Road Xinyang

Industrial District Haicang

361012 Xiamen

China

Tel.: +86 592 596 1896

Fax: +86 592 596 1895

Contact@mbl.com.cn