MS 630-24 and MS 650
Best in class for tyre specialists

- 24” and 28” external clamping
- G-Frame rigidity
- Revolutionary bead breaker system Ergo Control
- Side Lift NG
MS 630-24 and MS 650
Advanced technology for high wheel service volume workshops

MS 630-24 and 650 are pneumatic tilting back pole passenger car tyre changers that allow to work with car, light commercial vehicle and motorcycle tyres (with special accessories).

The 630-24 model is equipped with 24” turntable (external clamping), while 650 is equipped with 28” turntable. Both have been designed for high wheel service volume workshops and tyre specialists.

The extreme rigidity of the structure and the reduction of flexion of the operating arm, characterized by the use of the G-frame concept, make them a market benchmark for robustness and solidity even with UHP and RFT tyres.

Both models can be provided with standard bead breaker Ergo Control function. Motor Inverter drive system guarantees the best combination of power and speed needed for an effective service.

The MS 650 is supplied as standard with a pneumatic positioning of the mounting tool and the Tecnoroller NG that makes easier and faster the work with UHP and RFT tyres.

Both tyre changers can be equipped with the Side Lift NG which allows you to work always in an ergonomic position.

Models:
- With and without tyre inflation assistance system through jaws (IT)
- With and without Ergo Control (patent pending)
- With and without tyre leverless system (TLL)
- With and without Tecnoroller NG (only 630-24 model)
- Two drive motors available (1 Ph/3 Ph)

### Ergo Control (patent pending)

**Revolutionary bead breaker system**

Ergo Control is a hand bead breaker system that allows you to execute the operation of tyre-beading always in an ergonomic working position, reducing the time with less effort while always being in a safe position.

**Ergonomic working position:** you stand in front of the wheel, not in front of the pedals.

**Increase of safety:** the use of the bead breaker lever (patented) guards the operator’s arm.

**Protection of wheel/rim and TPMS:** the control by using the lever gives the operator a maximum of sensitivity.

**Intuitive, easy to use:** the movement of the blade can be driven by only a finger.

### Tecnoroller NG

TECNOROLLER NG is a pneumatic device to assist during mounting and demounting operations of any type of passenger car and light commercial vehicle tyre. It is especially recommended to mount and demount UHP and RFT tyres. It is designed to offer a great user experience, control switches are accessible from any working position and the high positioning of the follower arm facilitates all operations on the tyre bead.

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**Models**

<table>
<thead>
<tr>
<th>Models</th>
<th>Motor 1</th>
<th>Motor 2</th>
<th>Tecnoroller NG</th>
<th>Inflation Technology</th>
<th>Ergo Control</th>
<th>TLL</th>
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<tr>
<td>MS 630-24</td>
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<td>MS 630-24 IT</td>
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<td>MS 630-24 V8</td>
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<td>MS 630-24 IT V8</td>
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<td>MS 650 V1</td>
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<td>MS 650 IT V1</td>
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<td>MS 650 V6</td>
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<td>MS 650 IT V6</td>
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<td>MS 650 V8</td>
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<td>MS 650 IT V8</td>
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</table>

* Standard motor 3 phase
** Single phase motor equipped with inverter
Inflation Technology ("IT")

- Tyre inflation and blast of air are controlled by pedal
- Tyre inflation assistance system through the jaws, which thanks to the new design, guarantees higher air jet power

Tyre Leverless System ("TLL")

- Movement of the TLL Leverless system allows to perfectly follow the rim profile making easier the access of the tool and allowing perfect bead extraction.

G-Frame

G-Frame for stability, safe and innovative, functional design
The mounting head always remains at a safe distance from the rim to prevent damage on tyre changing.
- G-Frame design standard
- Mounting head with automatic clearance function
- Mounting arm with rigid hexagonal profile
- Mounting column with extra-wide diameter (140 x 140 mm) and pneumatic locking system

Side Lift NG

Side Lift NG – Simple and easy to use
All new tyre changer platforms can be upgraded with the Side Lift NG which allows the operator to always work in an ergonomic position. The Side Lift NG is mounted on the right side of the machine next to the bead breaker which allows for improved productivity. The Lift is also equipped with an integrated roller board which leads to an easier and faster bead breaking operation.

Advantages

Convenient tyre changing
- Self-centring four-jaw chuck
- Save time, no need to remove plastic jaws protection for steel rims inside clamping thanks to their new design
- 100 mm diameter of mounting column cylinder guarantees column and mounting head stability
- Optimised storage/holder for bead lever
- Universal, flexible adjustment of the lubricant ring shaped holder, one fits for all

Reduced effort for the operator – increased safety and speed!
- Be flexible and optimize your job. Save time thanks to 40 % faster bead breaking cylinder
- Cushioned cylinder for rapid but smooth movement, of the vertical tilting back pole, at the end of the stroke
- Time saving tyre inflation, 25 % faster than other comparable brands. Now easier to reach double-scale pressure gauge (bar/psi) on the side of the pole
- Fast clamping thanks to the new self centring table top with more robust design and inch scale laser printed
- Bright yellow warning and knee protection safety signs at turntable cylinders ("yellow fin")
- By a simple movement it is possible to reach the max. turntable working range
- Special treatment to protect the turntable from dust and rust. Clean has never been so easy! (patent pending)
Tyre changer

**Product at a glance**

- **User-friendly Control switches are placed to be accessible from any working area**
- **Outstanding stability with G-Frame**
- **Without any efforts Pneumatic positioning and locking of the mounting head**
- **Fast clamping thanks to the new self centering table top with more robust design**
- **Speedy The two-speed turntable is easily operated using a pedal**
- **Tecnoroller NG Extreme precision The horizontal arm and the follower arm, allow a precise and smooth control in the whole process**
- **Intuitive, easy to use: the movement of the blade can be driven by only a finger**
- **NEW revolutionary Ergo Control* (patent pending): bead breaking with your fingertips – full control and comfort.**

**Technical data**

<table>
<thead>
<tr>
<th>Range of application</th>
<th>MS 630-24</th>
<th>MS 650</th>
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<tbody>
<tr>
<td>Max wheel diameter</td>
<td>up to 1200 mm</td>
<td>up to 1200 mm</td>
</tr>
<tr>
<td>Outside rim clamping</td>
<td>10” – 24”</td>
<td>12” – 28”</td>
</tr>
<tr>
<td>Inside rim clamping</td>
<td>12” – 28”</td>
<td>13” – 32”</td>
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<tr>
<td>Rim width</td>
<td>3” – 12,5”</td>
<td>3” – 15”</td>
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<td>4” – 15” (VB)</td>
<td>4” – 15” (VB)</td>
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<tr>
<td>Bead breaker range</td>
<td>70 – 397 mm</td>
<td>70 – 397 mm</td>
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<tr>
<td>Air connection</td>
<td>8 – 10 bar</td>
<td>8 – 10 bar</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>1380 x 2110 x 1840 mm</td>
<td>1450 x 2295 x 2010 mm (VB)</td>
</tr>
<tr>
<td></td>
<td>1450 x 2295 x 2010 mm (VB)</td>
<td>1450 x 2295 x 2060 mm (VB)</td>
</tr>
<tr>
<td>Net weight</td>
<td>317 kg; 385 kg (VB)</td>
<td>360 kg; 385 kg (VB)</td>
</tr>
<tr>
<td>Bead Breaking force</td>
<td>11500 N</td>
<td>11500 N</td>
</tr>
</tbody>
</table>

**MOTOR VERSION 1**

- Main connections: 3 Ph – 400 V 50 Hz
- Absorption: 8 – 10,5 A
- Speed of rotation: (two-speed) 7/15 rpm

**MOTOR VERSION 2 with frequency converter**

- Main connections: 1 Ph – 230 V (50 – 60 Hz)
- Absorption: 23 – 24 A
- Speed of rotation: (torque control) 7/15 rpm

**SCOPE OF DELIVERY**

- Tyre inflator (pedal-controlled)
- Jaws plastic protection
- 5 demounting head tongue protections
- Plastic protection for bead breaker
- Wing side protection for demounting head
- Lubricant brush and bead lever
- Roller board
- Ergo Control: (V5, V6, VB)
- Tecnoroller NG: (V5, V6, VB)
- TECNOROLLER NG

**Max press force**

- 5500 N (horizontal arm) 2500 N (Follower arm)

**Applications / Wheel sizes**

- All rims
- All types of passenger cars and light trucks
- Motorcycle wheels (with special accessory kit)
- No need for re-positioning of clamping jaws or mounting column

**Two speed rotation turntable**

- 3 Ph – 400 V (50 Hz): two-speed, forward / reverse
- 1 Ph – 230 V (50 – 60 Hz): MOTIONVERTER DRIVE SYSTEM the needed torque at your speed

* Available only for specific models
<table>
<thead>
<tr>
<th>PN: 1695 108 055</th>
<th>PN: 1695 102 148</th>
<th>PN: 1695 101 608</th>
<th>PN: 1695 102 725</th>
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</thead>
<tbody>
<tr>
<td>Pressing point</td>
<td>Jaws plastic protection kit</td>
<td>Demounting head tongue protection</td>
<td>Mounting tool cover</td>
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<tr>
<td>PN: 1695 106 152</td>
<td>PN: 1695 105 191</td>
<td>PN: 1695 101 575</td>
<td>PN: 1695 101 518</td>
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<tr>
<td>Plastic protection for bead breaker</td>
<td>Plastic rim protection</td>
<td>Motorbike/scooter adaptors</td>
<td>Bead breaking bearing motorbike wheel</td>
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<tr>
<td>PN: 1695 103 210</td>
<td>PN: 1695 103 057</td>
<td>PN: 1695 106 190</td>
<td>PN: 1695 101 372</td>
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<tr>
<td>Motorbike mounting head kit</td>
<td>Kit WDK for run flat and ultra high performances tyres</td>
<td>Roller board</td>
<td>External IT kit</td>
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<tr>
<td>PN: 1695 903 403</td>
<td>PN: 1695 105 190</td>
<td>PN: 1695 102 584</td>
<td>PN: 1695 103 261</td>
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<tr>
<td>Tecnoroller NG</td>
<td>Mounting lever (WdK-Model)</td>
<td>Storage kit</td>
<td>Bead pressing device (thin)</td>
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<tr>
<td>PN: 1695 103 216</td>
<td>PN: 1695 107 466</td>
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<tr>
<td>Bead pressing device (thick)</td>
<td>Side Lift NG</td>
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</tbody>
</table>

**Accessories**

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