Innovative “WITHOUT LEVER” - TOUCHLESS hydraulically operated super-automatic tyre changer with wheel diameter selection.
Can handle all types of wheels from 13” to 32”.

AUTOMATIC demounting cycle
with the PREMIUM version
**AQUILA TORNADO** is the innovative “WITHOUT LEVER” and TOUCHLESS tyre changer for the most demanding professionals.

The increasing use of alloy, chromed and painted rims requires professionals to never touch the rim during work, even with plasticised components.

The rim diameter pre-selection, with the relevant automatic positioning of the wheel with respect to the REVOLVER TOOL and the co-ordinated movement between the wheel’s axe and the REVOLVER TOOL ensure great ease of operation and excellent precision.

The key features detailed below are the strengths of this revolutionary tyre changer that can handle any types of wheels for cars and light transport vehicles from 13” to 32”:

- Hydraulic operation;
- Synchronised movements between wheel and work tools;
- REVOLVER tool (4 tools) with 3 automatic rotation positions;
- 3 new patents pending to deliver the best advantages to the operator.

1. REVOLVER tool (4 tools) with 3 automatic rotation positions.
2. Bead pressing tool.
3. **Intelligent electromechanical turntable** with HYDRAULIC axial movement.
4. LIFTERS:
   - Side lifter with vertical lift (80 kg);
   - Premium lifter with comple-movement ascent and descent (85 kg)
5. Latest-generation inverter motor.
6. Ergonomic pedal controls.
7. Manually adjustable tool for the assembly of the first bead.
8. Lower bead breaker disc and lower assembly tool with separate movement.
9. Hydraulic power unit.
10. Mobile control console.
11. INFLATRON electronic inflator (fitted as standard in the SUPER and PREMIUM versions).
12. Interactive multifunctional TFT-LCD TOUCH SCREEN interface with microprocessor control.

During the various work phases, the display shows:

- Rim diameter electronic selection with subsequent automatic radial positioning of the wheel (micro-adjustment also possible).
- always active CAMERA that can be recalled from the display (fitted as standard equipment in all versions, with the exception of the BASE version).
- TPM-02 Reader: valve sensor reader with key data display (fitted as standard only in the PREMIUM version).
- TREAD DEPTH SENSOR: measurement of tread depth with three views different colours to check depth thresholds (fitted as standard only in the PREMIUM version).
- TEMPERATURE MEASUREMENT SENSOR: real-time tyre and bead temperature sensor.

User-friendly colour-coded indications (as standard only in the PREMIUM version).
Work cycles

Stage 1  Wheel dimension setting

✔ The interactive touch-screen supports the setting of wheel dimensions in inches and the radial self-positioning of the wheel with respect to the AUTOMATIC REVOLVER TOOL.

AQUILA TORNADO is the first machine where the wheel axle moves at the same time as the tool, to ensure precision and effectiveness.

Interactive touch screen.

Side lifter with vertical lift and automatic turntable movement to facilitate wheel loading.

Lifter foot controls.

Command lever on the PREMIUM lifter.
Stage 2  Wheel clamping

✔ New patented wheel clamp system:
  Fast
  User-friendly
  Reliable for all wheel types
  (comes equipped with additional specific flanges and cones)

Stage 3  BEAD BREAKING of upper and lower bead

✔ Upper hydraulic bead breaking operation: the disc is lowered and the wheel moves in a special way to facilitate the bead breaking operation with a controlled penetration path.

✔ Lower hydraulic bead breaking operation: a second, separate disc is lifted and the wheel moves in a special way to facilitate the bead breaking operation with a controlled penetration path.
STAGE 4 Upper bead DEMOUNTING

✔ The DEMOUNTING of the first upper bead is facilitated by the new tool with mobile spring coupling. This key feature allows any type of tyre to be coupled with no issues and in maximum safety conditions, reducing tension and stress.

STAGE 5 LOWER BEAD DEMOUNTING

✔ The separate lower bead breaker disc goes up until it brings the tyre to the demounting position, a process that can be facilitated by the simultaneous movement of the WHEEL UNIT.
STAGE 6 ASSEMBLY of lower and upper bead

✔ The upper BEAD BREAKER DISC and the integrated plastic roller push the tyre inside the rim.
✔ The lower arm tool, also radially self-positioned, can assist this process where needed.

✔ By positioning the assembly tool of the REVOLVER between the rim and the tyre, the REVOLVER’s PLASTIC ROLLER will automatically help the tyre to stay within the channel.

The turntable rotation and the help of the rotating bead pressing tool fitted as standard makes final assembly extremely easy.

Full ASSEMBLY operation aided by tool and presser always built-in in the same position.
### Mobile control CONSOLE

- ✔ All work operations are controlled by the freely positionable console.

### Pedal unit

- ✔ 4-pedal pedal unit
  - Turntable rotation.
  - Wheel clamping.
  - Wheel unlocking.
  - Inflation.

### Standard equipment

- User-friendly, quick and intuitive controls.
  - Extreme user-friendliness and absolute control in manual operating mode.

### Recommended accessories

- A. 8-11100039
  - Inverted drop-centre rim flange.
- B 8-15100003
  - 28 mm h spacer ring.
- B 8-11100087
  - Universal flange for special closed rims.
AQUILA TORNADO

Technical data

Wheel dimension range:
- Rim diameter: from 13" to 32"
- Max. tyre diameter: 1200 mm (47")
- Maximum tyre width: 400 mm (16")
- Upper and lower bead breaking force: 900 kg

Electromechanical turntable
- Automatic clamping: with handle
- Rotation torque: 1200 Nm
- Rotation speed: 7-20 rpm
- Motor rating: 2-speed inverter motor
- Rotation speed: 7-18 rpm

Wheel lifter capacity: 80 kg SL - 85 kg PL

Power supply
- Electric 1Ph: 230V-0.98 kW 50Hz/60 Hz
- Electric 1Ph (alternative): 115V-0.98 kW 50Hz/60 Hz
- Pneumatic operating pressure: 8 Bar
- Hydraulic power unit motor: 0.8 kW
- Operating hydraulic pressure: 120 bar
- Weight: 500 kg (550 kg (PREMIUM lifter))
- A-weighted sound pressure level (LpA) on the workplace: <70 dB(A)

Versions

<table>
<thead>
<tr>
<th></th>
<th>LIFTER STD</th>
<th>LIFTER PREMIUM</th>
<th>BAD DEPRESSOR</th>
<th>AUTOMATISM</th>
<th>VIDEO CAMERA</th>
<th>INFLATION</th>
<th>TIRE</th>
<th>TREAD PROBE</th>
<th>TEMPERATURE SENSOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASE</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VISION SL</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VISION PL</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUPER SL</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUPER PL</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>PREMIUM</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

Dimensions

STD Lifter
- 1850 mm
- 2015 mm
- 1700 mm

Premium Lifter
- 1850 mm
- 2110 mm
- 1700 mm

This company reserves the right to modify the technical specifications of its products at any time.