



- **Hydraulic tyre changer**
with wheel diameter pre-selection
- It can work **on all types of wheels**
from 13" to 32".
- **4 versions available:**
 - BASE
 - VISION
 - SUPER
 - PREMIUM



Versions with **AUTOMATIC demounting cycle** available



AQUILA TORNADO



Innovative super-automatic tyre changer
"WITHOUT LEVER" - CONTACTLESS



AQUILA TORNADO

AQUILA TORNADO is the innovative **CONTACTLESS** tyre changer “without lever” dedicated to the most demanding professionals.

The ever-increasing popularity of chrome-plated and repainted alloy rims means that it is essential to avoid any contact with the rim during work operations, not even with plastic-coated components.

The pre-selection of the rim diameter, resulting in automatic positioning of the wheel with respect to the **AUTOMATIC REVOLVER**, and the coordinated movement between the wheel axis and the **REVOLVER**, guarantee easy operation and excellent precision.



The main features mentioned below represent the strengths of this revolutionary tyre changer capable of operating **on any type of car and light duty vehicle wheel from 13” to 32”**:

- **Hydraulically-controlled operation.**
- **Synchronised** wheel and tool movements.
- **REVOLVER tool** (4 tools) with 3 positions and automatic rotation.
- 3 new patented solutions for **maximum** operator **benefit**.

FEATURES

1. **REVOLVER** tool (4 tools) with 3 positions and automatic rotation.
2. Bead pressing tool.
3. **Smart electromechanical centre post turntable** with HYDRAULIC axial movement.
4. **Wheel lifters:**
 - **Side wheel lifter** with vertical lifting (80 kg).
 - **Premium wheel lifter** with full lifting and lowering movement (85 kg).
5. New-generation inverter motor.
6. Ergonomic pedal controls.
7. Manually fold-up tool for first bead mounting.
8. **Lower bead breaker disc and lower mounting tool head with independent movement.**
9. Hydraulic control unit.
10. Mobile control console.
11. Inflatron electronic inflator (standard in the SUPER and PREMIUM versions).
12. **Interactive TOUCH-SCREEN**, with microprocessor-controlled TFT-LCD interface display

STEP 1 SETTING THE WHEEL SIZE



INTERACTIVE TOUCH-SCREEN

✓ The **interactive touch-screen** allows setting the wheel size in inches and **automatically positioning** the wheel radially with respect to the AUTOMATIC REVOLVER.

AQUILA TORNADO is the first machine where the **wheel axis moves simultaneously with the tool** to guarantee precision and efficiency.

- Electronic rim diameter selection with consequent automatic radial positioning of the wheel (micro-adjustment is also possible).
- CAMERA always active that can be displayed on screen (standard in all versions except the BASIC one).
- Selection of 4 tyre demounting programmes: **Normal, Run Flat-UHP, Soft and Baloon**.

PREMIUM - PL WHEEL LIFTER VERSION

with automatic movement of the centre post turntable for easier wheel loading



SIDE - SL WHEEL LIFTER VERSION

with vertical lifting and automatic movement of the centre post turntable for easier wheel loading.



Wheel lifter pedal controls.

PREMIUM wheel lifter control lever.



STEP 2 WHEEL CLAMPING



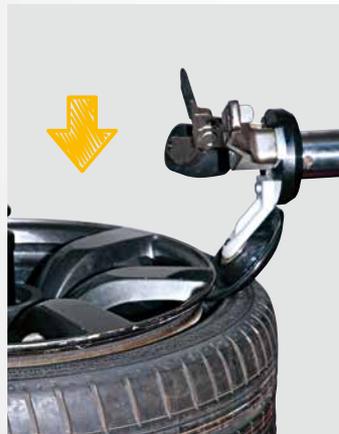
**SMART
ELECTROMECHANICAL
CENTRE POST TURNTABLE**



- ✓ **New patented wheel clamping:**
FAST, SIMPLE, RELIABLE
for all wheel types
(complemented by special
dedicated flanges and cones)

STEP 3 BEAD BREAKING THE LOWER AND UPPER BEAD

- ✓ **Hydraulic upper bead breaking operation:** the disc descends and the wheel performs a specific movement to facilitate the bead breaking operation with a controlled penetration path.



- ✓ **Hydraulic lower bead breaking operation:**
a second independent but specular disc rises and the wheel performs a specific movement to facilitate the bead breaking operation with a controlled penetration path.



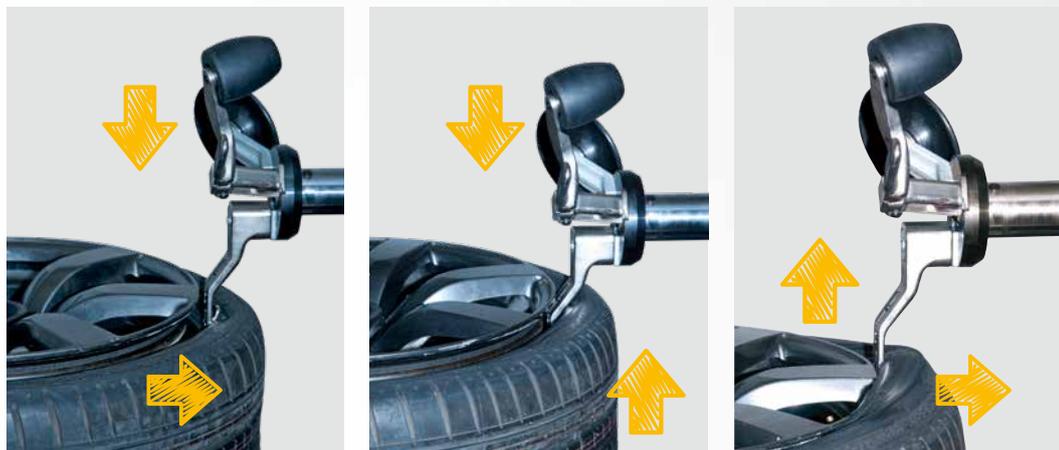
**LOWER TOOL
WITH MANUAL ENGAGEMENT**



**MULTIFUNCTION REVOLVER
4 TOOLS - 3 POSITIONS - AUTOMATIC ROTATION**

STEP 4 DEMOUNTING THE UPPER BEAD

- ✓ The DEMOUNTING of the first upper bead is facilitated by the new tool with **mobile spring hook**. This important feature allows any type of tyre to be easily and **safely clamped, reducing tension and stress**.

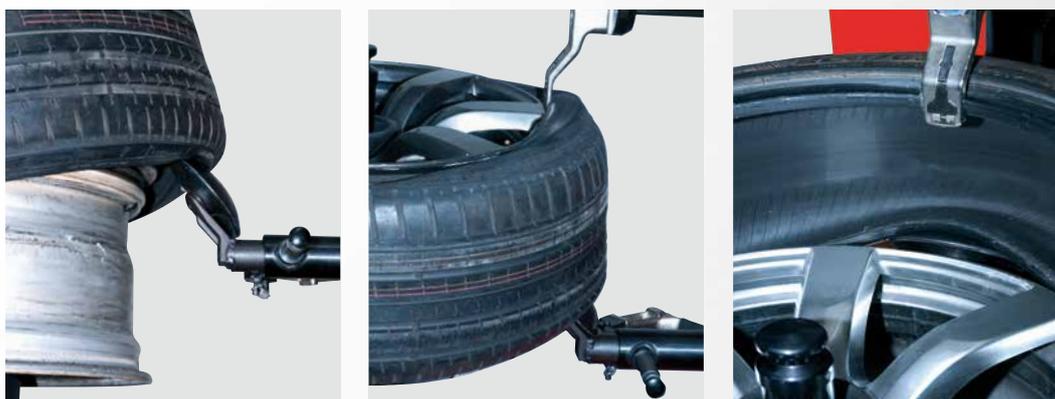


- ✓ During the AUTOMATIC DEMOUNTING CYCLE, the software provides a movement that guarantees the **COMPLETE PROTECTION OF THE TPMS SENSOR**

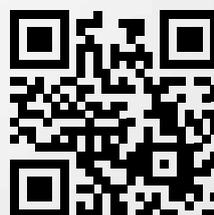


STEP 5 DEMOUNTING THE LOWER BEAD

- ✓ The lower independent bead breaker disc moves upwards until the tyre is brought into the demounting position, an operation that can be facilitated by the **simultaneous movement of the WHEEL UNIT**.



AUTOMATIC CYCLE



FIND OUT HOW IT WORKS
WITH THE FULLY AUTOMATIC CYCLE

STEP 6 MOUNTING THE LOWER AND UPPER BEADS

A-B. The upper BEAD BREAKER DISC and built-in plastic roller push the tyre into the rim.

C-D. If required, the lower arm tool will help you perform this operation on particularly soft tyres.

Complete MOUNTING operation facilitated by tool and built-in presser always in the same position.



E-F. By positioning the REVOLVER mounting tool head between the rim and the tyre, the REVOLVER PLASTIC ROLLER will automatically help the tyre to stay in the channel.

The rotation of the centre post turntable and the help of the standard rotating bead pressing tool will make **the final mounting very easy.**



TECHNICAL DATA

Wheel size 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 centre post 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 - 85kg PL
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Power supply

Electric 1Ph	230V-0,75 kW 50Hz/60 Hz
Electric 1Ph (alternative)	115V-0,75 kW 50Hz/60 Hz
Working pneumatics	8 bar
Hydraulic control unit motor	0.8 KW
Operating hydraulic pressure	120 bar
Weight	500 kg - 550 kg (with PREMIUM wheel lifter)
A weighted sound pressure level (LpA) at the workplace	< 70 dB(A)

Maximum dimensions

with SL lifter (W x H x D)	1700 x 1850 x 2015 mm
with PL lifter (W x H x D)	1700 x 1850 x 2110 mm

MACHINE OUTFIT



ACCESSORIES

A. 8-11100039
Reverse rim flange



B. 8-11100037
Van and pick-up rim rise kit



B. 8-11100087
Universal flange for closed and special rims

