AQUILA TORNADO

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Innovative "WITHOUT LEVER" - TOUCHLESS

hydraulically operated super-automatic tyre changer

with wheel diameter selection.

Can handle all types of wheels from 13" to 32".



with the PREMIUM version





TORNADO

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 axle 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 (85kg)

Side lifter with vertical lift (80 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).



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.









Command lever on the PREMIUM lifter.





Interactive touch screen.

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

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)

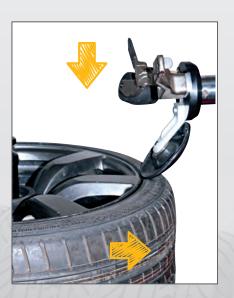




INTELLIGENT
ELECTROMECHANICAL TURNTABLE

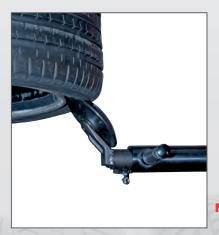
STAGE 3 BEAD BREAKING of upper and lower bead

✓ 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.



MULTI-FUNCTIONAL REVOLVER TOOL

4 TOOLS - 3 POSITIONS - AUTOMATIC ROTATION



MOBILE COUPLING LOWER

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.



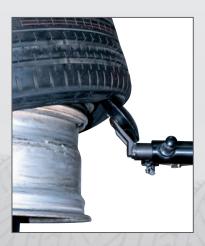


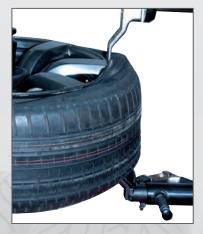


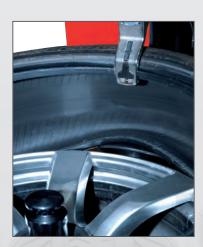


WITH MOBILE SPRING COUPLING

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





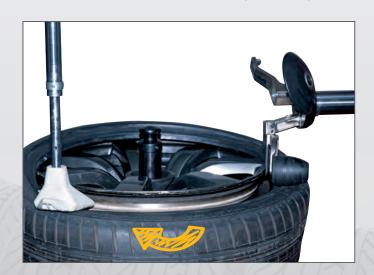
- ✓ The upper BEAD BREAKER DISC and the integrated plastic roller push the tyre inside the rim.
- ✓ The lower arm tool, also radially self-positioned, can assist this process where needed.





▶ 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.



User-friendly, quick and intuitive controls.

Extreme user-friendliness and absolute control in manual operating mode.

Standard equipment



Pedal unit

✓ 4-pedal pedal unit

- Turntable rotation.
- Wheel clamping.
- Wheel unlocking.
- Inflation.



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.



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 - 85kg 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)				

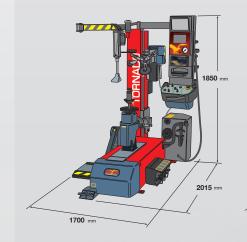


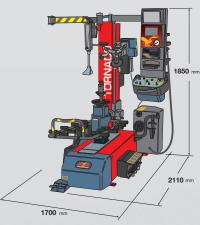
Versions

	LIFTER STD	LIFTER PREMIUM	BEAD DEPRESSOR	AUTOMATISM	VIDEO CAMERA	INFLATRON	TPMS	TREAD PROBE	TEMPERATURE SENSOR
BASE	*		*						
VISION SL	*		*		*				
VISION PL		*	*		*				
SUPER SL	*		*		*	*			
SUPER PL		*	*		*	*			
PREMIUM		*	*	*	*	*	*	*	*

Dimensions

STD Lifter Premium Lifter





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