



Super Automatic tyre changer with technology **"SENZA LEVA" - CONTACTLESS**

Innovative super automatic tyre changer for all wheels from 13" to 28"



AQUILA RAPAX

AQUILA RAPAX is a new automatic tyre changer, “without lever” working technology for car, SUV and commercial vehicle wheels of up to 28”.

Mounting and demounting tool based on the working technology of the **AQUILA TORNADO**, whereby the rim is never touched and the stress on the tyre is reduced.

Tool with manual rotation to **speed up work operations**.

Technical solutions: wheel lifter with full movement for moving the wheel on the ground to working position and vice versa, bead breaking performed with **two specular bead breaker discs** with controlled penetration control, automatic wheel clamping with effective, fast and simple pneumatic system. A work console with all the work commands to allow the operator to work in **maximum levels of ergonomics and effectiveness**.

All this translates into **greater operating speed**, risk-free for the operator and the rim, even during the most demanding work phases, ease of use and universality of wheel types. This all means that the equipment can be used to its **full working potential**.



1. “Zero fatigue” wheel lifter
2. Automatic tyre turntable
3. New mounting and demounting tool
4. Console

5. Bead breaker unit
6. Emergency hook for mounting first bead
7. Press Mate
8. Pedal unit

1 “Zero fatigue” wheel lifter

Front lifter with **full upwards and downwards movement**.

It allows the operator to move the wheel on the tyre changer without any effort and **without changing their working position**.



2 Automatic tyre turntable



New universal and quicker wheel clamping system.

When pressed, the pedal **releases** the clamping system turntable centring handle.

In its rest position, the clamping **system of the turntable centring handle** is normally active.

The pedal is used in the wheel preparation and clamping phase on the **turntable and to release the wheel once the operation** has been completed (already available on the Raptor model).



3 New mounting and demounting tool

The radial positioning of this innovative tool is **carried out through console commands**.

Tool with manual rotation to speed up work operations. By performing the rotation, the tool for the two phases will automatically be in the correct radial position. The part dedicated to disassembly has a patented spring system to facilitate entry between the rim and the tyre without any risk for the tyre itself.

DEMOUNTING PROCEDURE



MANUAL ROTATION OF THE TOOL ALLOWS THE OPERATOR TO SWITCH BETWEEN DEMOUNTING AND MOUNTING MODE QUICKLY AND EASILY



LOWER BEAD DEMOUNT OPERATION WITH THE ASSISTANCE OF THE LOWER BEAD BREAKER DISC

Quick demounting procedure with bead breaker disc.

Quick procedure for demounting the lower bead (particularly suitable for hard sides).



4 Console



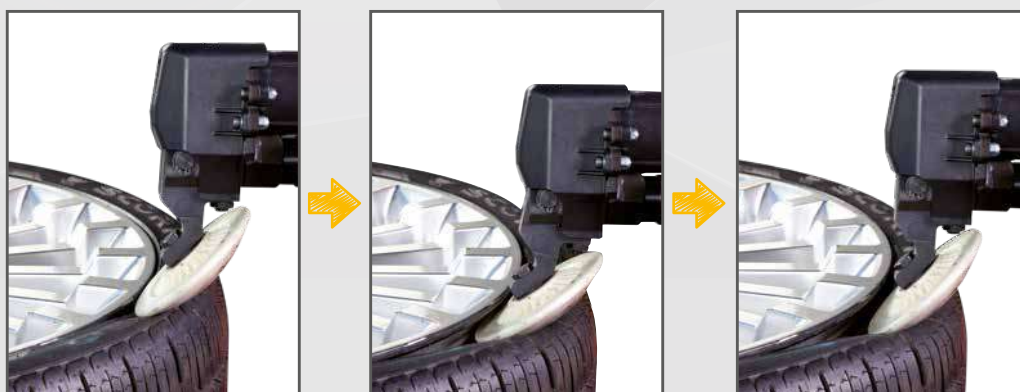
Intuitive and complete

Multifunctional control console contains all the operating controls.

Ideal for dynamic bead breaking and for rim and tyre match mounting, thanks to the two dual control discs.

5 Bead braking unit

- **Dynamic bead braking device** with dual specular bead breaker disc. The radial positioning of the discs is made easier by an automatism that is able to prevent any manual positioning by the operator.
- **Controlled penetration (Patent Pending)**: precision, speed and repeatability are guaranteed by the patented bead-breaking system and the perfect specularity of the two discs.



**DRIVE WITH AN INVERTER MOTOR SYSTEM:
IN THE ROTATION PHASE THE RIGHT TORQUE AT THE RIGHT SPEED**

6 "Emergency hook"



The mounting operation is easy and extremely quick.

It can be pressed with the tool holder arm downwards and with the simultaneous movement of the turntable.

In the presence of very soft tyres or tyres with a wide shoulder, a **reclining tool** can be used positioned on the lower bead breaking disc.



The mounting phase of the second bead is completed with the **simultaneous use of the bead breaker disc**, the rotation of the turntable and **in the presence of lowered tyres or RFT** with the use of the Press Mate which ensures that the tyre remains in the rim channel.



For more awkward tyres, it is always important to lubricate (as for all wheels) and use the Press Mate.

In the final phase, slightly raise the position of the disc and the Press Mate to **reduce tension and facilitate assembly**.

7 PRESS MATE - run flat no problem!

- PRESS MATE with adjustable working height
- Depressor shape ideal for RFT tyres
- **Standard in all versions**
- The return to the working position is facilitated by a spring system



Standard equipment



Ergonomics

Working height of the machine designed to obtain **perfect ergonomics** in movements with all types of wheels.
Ideal for all operators!



Recommended accessories



A. 8-11120053

Kit TI - Rapid inflation system

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Kit TI - ASME Rapid inflation system
(USA - CANADA)

B. 8-11100039

Flange for reverse rim wheels

C. 8-11100038

Universal flange for closed rims

D. 8-11100037

Pick-up rim kit

E. 8-11100120

Sliding bead pressing clamp

Technical data

wheel size range

rim diameter	from 13" to 28"
max. tyre diameter	1200 mm (47")
maximum tyre width	15" (from the wheel supporting base)
tyre types processed	conventional, low profile and Run Flat

turntable

clamping	automatic - pneumatic
drive system	2-speed inverter motor
rotation torque	1100Nm
rotation speed	7-18 rpm

bead-breaker

maximum bead-breaking range	670mm
bead-breaker stroke	540mm
bead-breaker force	7600 N
wheel loading/unloading	
operation	pneumatic

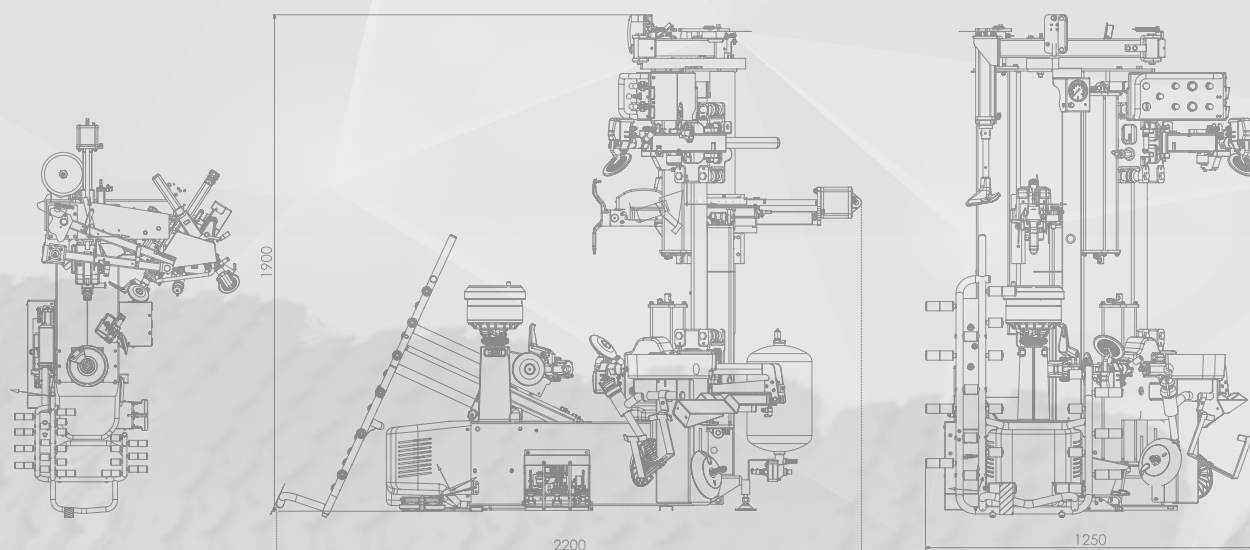
max wheel weight

85 kg

power supply

electric 1Ph	230V-0.98 kW 50Hz/60 Hz
electric 1Ph (alternative)	110V-0.98 kW 50Hz/60 Hz
pneumatic operating pressure	8 bar (minimum)
weight	425 kg (with Press Mate and lifter)

Dimensions



For further information, consult the complete accessories catalogue.