



• Wheel Centering

Receives the assembled wheel from upstream
Centers and measures (plausibility check) the wheel

• Auto-Configuration

The system detects the rim/tire recipe and automatically selects the required tooling via hydraulic actuators

• Bead Displacement

A telescopic bell with specialized packing pushes the tire bead off the rim border to allow high-volume air injection

• Precision Inflation

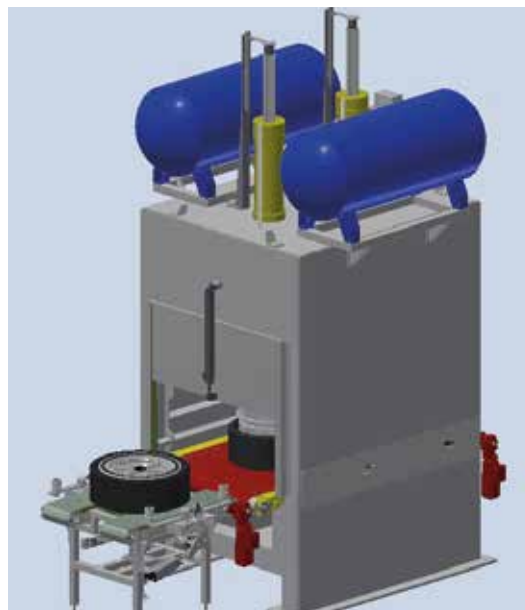
Air is injected to the target pressure (adjustable via control panel)

• Seating & Sealing

Once pressurized, the tire is guided back to the rim border for perfect bead seating and inflation retention

• Multi-Format Tooling

A telescopic unit with interchangeable rings manages the entire tire family



Line (Rim range)
Tyre external diameter
Tyre width
Rim width
Max pressure
Pressure tolerance
Cycle time
Compressor required*

Agilis (16" – 23")
550 – 800 mm
180 – 300 mm
125 – 280 mm
1,8 – 4,5 bar
± 0,2 bar (± 0,25 bar > 3,5 bar)
12 sec. (per wheel)
8 bar

*Air Compressor not included

- Siemens PLC control system with Profinet communication
- Electrical control panel with touch-screen HMI and manual function pages with status indicators
- Real-time visualization of actuators, sensors, wheel parameters, and system overview screens
- Advanced diagnostic pages for monitoring, daily error logging and statistics (piece counter day/total)
- Process/product parameters editable from the operator panel outside the machine

POWER SUPPLY & OPERATING CONDITIONS

Electrical	400V – 50Hz TN-S
Pneumatic	6–7 bar
Room temperature	from +10°C to +45°C
Relative Humidity	from 20% to 80%

SAFETY EQUIPMENT

- Machine compliant with EEC Machine Directive
- Controlled operator access procedures to restricted areas

COLORS

Safety protection	Yellow 1021/Black 9005
Moving parts	Red 3002
Connecting boxes, electrical panels	Gray 7035
Fix parts	White 9003

SAFETY EQUIPMENT

CE conformity declaration	English (pdf)
Electrical/Mechanical assembly drawings	English (pdf)
Spare part list	English (xlsx)
Maintenance, operational & user manual	English (pdf)