

Inflator

Optimus



• 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

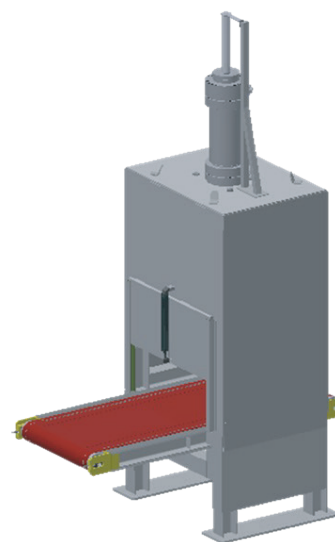
Air is injected to the target pressure (adjustable via control panel)

• 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 three interchangeable rings manages the entire tire family



Line (Rim range)	Optimus (15"-22.5")
Tyre external diameter	600 – 1200 mm
Tyre width	130 – 450 mm
Rim width	120 – 380 mm
Max pressure	9,5 bar
Pressure tolerance	± 0,2 bar
Cycle time	25 sec. (per wheel)
Compressor required*	15 bar
OPTIONS	
a. Wheel Centering	

*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)