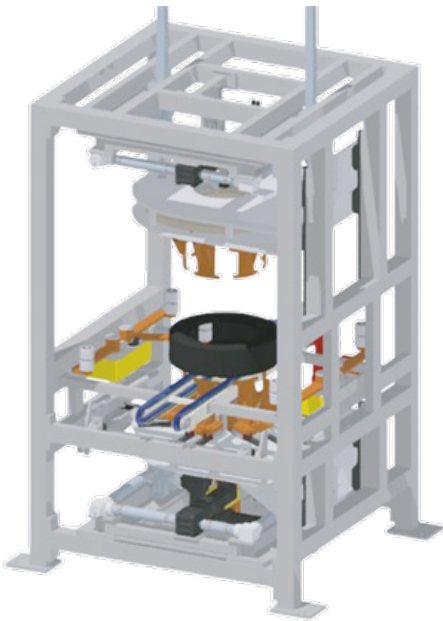


Matching

Agilis



- **Belt Conveyor**
Transports the wheel into the machine
- **Lifting Device**
Disengages the wheel from the belts to allow free movement for processing
- **Pneumatic Centering System**
Uses an external self-centering mechanism to align the wheel
- **Expansion Spindle**
Secures the rim via the central bore and rotates it to the precise phase angle
- **Upper Tyre Gripper**
Clamps and squeezes the tyre sidewall to hold it stationary while the rim rotates
- **Vision System**
Localizes tyre and rim marks using shape and color analysis (minimum 1 cm diameter)
- **Illuminator & Shielding**
Provides consistent lighting and blocks external interference for accurate dot recognition
- **AC Gearmotor & Inverter**
Drives the rotation and transport systems with adjustable speed and positioning



Line (Rim range)	Agilis (14" – 24")
Tyre external diameter	550 – 860 mm
Tyre width	250 – 350 mm
Rim width	90 – 340 mm
Max tyre + rim weight	20 + 30 kg
Minimum Dot Diameter	10 mm (contrast color)
Matching Accuracy	± 1°
Cycle time	12 sec. (per wheel)

- 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)