

DeltaFlux Automated Crankshaft Inspection System



The DeltaFlux Automated Crankshaft Inspection System is a MPI bench designed for production inspection. The system combines automatic pole positioning, coil movement, particle application, part rotation and demagnetization into a one-touch operation, significantly reducing operator involvement and improving inspection consistency.

With automatic demagnetization at the end of each cycle, recipe storage, reporting capabilities, and remote connectivity, this Automated Inspection System is built for production environments requiring traceability and process control. Optional darkroom enclosures and UV lamp configurations are available.

Special features:

- Automatic pole positioning based on part length
- Automatic coil movement
- Automatic liquid application
- Automatic part rotation with selectable cycle repetition for one-touch magnetization
- Automatic demagnetization at end of cycle
- Recipe storage: yes
- Reporting: yes
- Remote connectivity: yes
- Cycle start: foot pedal or control bar
- Dark room: manual or automatic version available (optional)
- UV Lamp: multiple configurations available



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Automated Crankshaft Inspection System Characteristics

Product range	Crankshafts
Length (min - MAX)	MAX: 2.000 mm
Diameter / Section (min - MAX)	MAX: Ø350 mm

Main system technical characteristics

System indicative dimensions	4.800 x 2.200 x 2.300 mm (Length x Width x Height)
System loading capacity	350 kg
Indicative useful dimensions	Contact Poles: 200 – 2.100 mm Round Coil: Ø450 mm
Current supplied	AC: Alternate Current Optional: DC: Direct Current Half-Wave or Full-Wave
Pieces handle	Manual loading using crane
System interface	Operator Panel
Electric supply	480V – 60 Hz – 3 phases + Earth
Pneumatic supply	6 bar; to be connected at your network
Hydraulic supply	N/A – Not necessary

