

A-2030

Magnetic Wet Bench with AC Magnetization

The A-2030 magnetic benches provide 3,000 amps of Alternating Current magnetization for finding surface defects during wet method magnetic particle inspection.

The two outputs are independently adjustable to set each magnetic field, circular or longitudinal.



BENEFITS

Faster part processing

- Reduce processing time with operator-enabled automatic Double-Mag Shot
- Generate 300+ shots per hour at maximum unit output

Real-world dependability for minimal downtime

- Allen-Bradley PLC provides reliable controls and off-the-shelf replacements
- Advanced agitator system helps prevent blockages and clumping by keeping magnetic particles well suspended
- Rely on our industry leading warranty with best in-class service delivered by a global network of trained Magnaflux authorized service centers

Easy to use and maintain

- Make quick operational adjustments using the simple, user-friendly operator interface with touch-screen controls
- External pump system provides fast access for easy cleaning and service
- Assure testing accuracy and repeatability with direct amperage control and fluctuation mitigation

STANDARD FEATURES

- 5% duty cycle of 0.5 seconds on, 10 seconds off at maximum output
- Allen-Bradley PLC
- Control Circuit feedback loop for amperage regulation and repeatability
- Simple touch-screen operator interface
- External pump system for particle bath agitation, circulation and application
- Integrated decaying-AC demagnetization with 1-touch control
- Low-voltage output minimizes electrical exposure for operator safety
- Adjustable mag shot time from 0.5 to 2 seconds
- Automatic Double-Mag Shot with 1-touch control
- Mag-shot-activating front push bar with 1-touch control to enable/disable this feature
- Current assurance indicator light confirms magnetizing current delivery
- Solid state circuitry increases lifetime and performance of machinery

PRODUCT PROPERTIES

Magnetizing Current Capacity	3,000 A AC
Maximum Part Length*	54 in / 137 cm <i>(102 in / 259 cm, 146 in / 370 cm)</i>
Maximum Unsupported Part Weight Capacity Only using Head and tailstock mounted V-Blocks	300 lb / 136 kg
Maximum Supported Part Weight Capacity* (using rail-mounted steady rests) Both limits are considering the use of Rail Mounted Steady rest to help support part on rails	700 lb / 317 kg <i>(1,500 lbs / 680 kg)</i>
Maximum Part Diameter*	12 in / 30 cm <i>(16 in / 40 cm)</i>
Available Voltages	230, 380, 415, 460, 575 V
Available Frequencies	50 or 60 Hz

* Optional feature configurations shown in italics

UPGRADE OPTIONS

- Auto-Bath upgrade with 22 in / 55 cm capacity decreases processing time by automatically clamping, bathing, magnetizing and unclamping the part
- XG-Series conveyer inspection booth maximizes throughput by automatically transferring inspection-ready parts to an adjacent inspection booth
- Inspection Enclosure Hood with ventilation fan for a darkened inspection area without sacrificing function and operator comfort, includes an EV6000 LED UV lamp, flame resistant curtains and visible lighting
- ST700 stationary overhead LED UV lamp, 100-240 V, 50-60 Hz

CONFIGURATION OPTIONS

- Long & Extra-Long Part Capacity to increase max clamping length to 102 in / 259 cm or 146 in / 370 cm
- 16 in / 40 cm Coil (instead of 12 in / 30 cm coil)
- Pneumatic Tailstock makes it faster and easier to position and remove longer parts from between the contacts
- Rotating Contacts with 70 lb / 31 kg part capacity minimizes part handling during inspection (minimum coil size required is 16 in / 40 cm, reduces part length capacity by 9 in / 23 cm, not compatible with Auto-Bath)
- Reinforced Rail for heavier part load, 1,500 lb / 680 kg part capacity
- Dual-Touch Sensor eliminates risk of injury during pinch points