D-2060 CE

Magnetic Wet Bench with 3-Phase FWDC and Optional AC & HWDC Capability





The D-2060 CE is one of our most powerful wet magnetic benches, providing 6,000 amps of 3-phase Full Wave Direct Current and an optional 2,500 amps of AC or 6,000 amps of AC & HWDC current. This magnetic particle inspection equipment generates magnetisation to find sub-surface (FWDC) and surface (AC option only) defects with clearer indications while using minimal power.

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

BENEFITS

Faster, consistent inspections

Operators can inspect parts more quickly and comply with industry standards with an automatic double mag shot, adjustable mag shot timer, and machine repeatability

- Reduce processing time with operator-enabled automatic double-mag shot and adjustable mag shot time accessible through a user-friendly operator interface
- Process more parts with up to 300+ shots per hour at 5% duty cycle of 0.5 seconds on, 10 seconds off at the maximum output

Streamline sourcing, service, and maintenance

Simplify your quality procedures with integrated solutions from Magnaflux. Our team and channel partners can help select the correct solution for chemicals, equipment, UV lamps and accessories that comply with industry standards.

Durability and support through a global network

Confidence that the equipment will survive your demanding environment, backed by an industry leading warranty, supported by a global network.

- Support your worldwide operations by specifying, acquiring and servicing Magnaflux equipment through a global network of trained sales and service centres
- Develop techniques and train for your inspection processes on Magnaflux equipment that is available globally

STANDARD FEATURES

- 5% duty cycle of 0.5 seconds on, 10 seconds off at maximum output without double-mag or extended shot time
- Siemens PLC
- 6,000 A of 3-Phase FWDC to increase the variety and range of inspections the equipment can perform
- Integrated ultra-low frequency, reversing, step-down DC demagnetization with 1-touch control
- An external pump system for particle bath agitation, circulation and application
- Low-voltage output minimizes electrical exposure for operator safety
- Emergency Stop switch halts all motion, disables PLC, discontinues mag shot, and removes system pressure while still maintaining HMI display
- A simple touch-screen operator interface
- 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
- Large, easy-to-read digital amperage display confirms amperage sent through the part
- Current assurance indicator light confirms magnetizing current delivery
- Quick break feature on coil circuitry
- Conformité Européenne, European Conformity
- Industry-leading warranty
- Solid state circuitry increases lifetime and performance of machinery

ACCESSORIES AND RELATED PRODUCTS

- Inspection enclosure with EV6000 UV lamp and ventilation fan; darkens area and maintains operator comfort
- ST700 stationary overhead LED UV lamp

OPTIONAL FEATURES

- Part capacity: 102 in (259 cm)
- Coil: 16 in (40 cm), 20 in (50 cm), 25 in (63 cm), or 30 in (76 cm).
- Oversized contact assembly for headstock and tailstock, 12 x 12 in (30 x 30 cm). 16 in (40 cm) coil size required
- Reinforced rail and steady rests for heavier part load, 1,500 lb (680 kg) part capacity
- MOD 2.5 AC for an additional 2,500 Amps AC Output
- MOD 6.0 for an additional 6,000 Amps AC & HWDC Output



Touch-screen operator interface

PRODUCT PROPERTIES

	Standard	Optional
Magnetizing Current Capacity	6,000 A 3-Phase FWDC	• 2,500 A AC or • 6,000 A AC & HWDC
Maximum Part Length	54 in (137 cm)	102 in (259 cm)
Maximum Part Diameter	12 in (30 cm)	16 in (40 cm), 20 in (50 cm), 25 in (63 cm), 30 in (76 cm)
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	With Reinforced Rail: 1,500 lbs / 680 kg
Available Voltages	380 or 415 V	-
Available Frequencies	50 or 60 Hz	-