

AD-2045

DISTRIBUÉ PAR / DISTRIBUTED BY:

QUEBEC
164, St-Jean-Baptiste
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Magnetic Wet Bench with AC and DC Magnetization

The AD-2045 magnetic benches provide 4,000 amps of Alternating Current and 5,000 amps of 1-phase Full Wave Direct Current magnetization for finding surface and sub-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
- Optional Database System with advanced touch screen operating interface and barcode scanner eliminates time spent on manual inputs and record keeping

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

STANDARD FEATURES

- 5% duty cycle of 0.5 seconds on, 10 seconds off at maximum output
- Allen-Bradley PLC
- 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
- Large, easy-to-read digital ammeter confirms amperage sent through the part
- Current assurance indicator light confirms magnetizing current delivery
- Solid state circuitry increases lifetime and performance of machinery

PRODUCT PROPERTIES

Magnetizing Current Capacity	AC 4,000 A
	FWDC 5,000 A
Maximum Part Length*	54 in / 137 cm <i>(102 in / 259 cm, 146 in / 370 cm)</i>
Maximum Unsupported Part Weight Capacity	300 lb / 136 kg
Maximum Supported Part Weight Capacity* (using rail-mounted steady rests)	700 lb / 317 kg
Maximum Part Diameter	12 in / 30 cm <i>(16 in / 40 cm, 20 in / 50 cm)</i>
Particle-Bath Tank Capacity*	20 gal / 75 L <i>(32 gal / 121 L, 55 gal / 208 L)</i>
Available Voltages	230, 380, 415, 460, 575 V
Available Frequencies	50 or 60 Hz

* Optional feature configurations shown in italics

UPGRADE OPTIONS

- Database System upgrade with advanced touch screen operating interface and barcode scanner for quality control traceability, record automation and reporting
- 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 or 20 in / 50 cm Coil, or 19.5 in / 49 cm Clam-Shell 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)
- Oversized Contact Assembly for headstock and tailstock, 12 x 12 in / 30 x 30 cm (minimum coil size required is 16 in / 40 cm)
- Reinforced Rail for heavier part load, 1,500 lb / 680 kg part capacity
- Dual-Touch Sensor eliminates risk of injury during pinch points
- NRTL Certification to CSA C22.2 No. 61010-1

ADH-2045

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- Oversized Contact Assembly for headstock and tailstock, 12 x 12 in / 30 x 30 cm (minimum coil size required is 16 in / 410 cm)
- Reinforced Rail for heavier part load, 1,500 lb / 680 kg part capacity
- Dual-Touch Sensor eliminates risk of injury during pinch points
- NRTL Certification to CSA C22.2 No. 61010-1

GE-Series

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Inspection Hoods

Magnaflux® has worked hard to create a very functional inspection environment while keeping operator comfort and convenience in mind. Our durable curtains darken the inspection area to levels that meet all standards. The unit is easy to access through a “theater style” curtain, that can be folded and hung for ventilation in warmer environments. The overhead frame can also be opened so that inspection parts can be loaded by crane if necessary.



STANDARD FEATURES

- EV6000 hand held LED UV lamp with Quick Mount
- Adjustable overhead frame opens enclosure for service or parts loading
- Easy access through front curtain (“theater style”)
- Adjustable length curtain
- Flame resistant curtains
- White light and ventilation fan
- White light control from operator interface
- Fan on/off switch on operator interface



CONFIGURATION OPTIONS

Unit	Footprint (Length x Depth x Height)	Size
GE-54	Closed 89” x 63” x 90” Open 89” x 41” x 122”	Standard
GE-96	Closed 136” x 63” x 90” Open 136” x 41” x 122”	Long
GE-144	Closed 180” x 63” x 90” Open 180” x 41” x 122”	Extra Long



Get Control of Inspection Productivity

New HMI Touch Screen Interface for Wet Bench Units



Automatically clamps the part, magnetizes the part, then unclamps the part

Automatically clamps the part, bathes the part with magnetic particle bath, magnetizes the part, then unclamps the part

Allows the operator to set magnetization time from 0.5 to 2 seconds

Automatically initiates two magnetizing shots



Improve Productivity

Increase Inspection Quality

Decrease Processing Time



Efficiency Upgrades Available

Time-Saving Standard Features

Intuitive Equipment Controls

New Time-Saving Standard Features

	Target User	Function	Benefits
HMI Touch Screen Interface	Companies looking for a high-value wet bench unit to help increase processing time	Provides operator with better ease of use and more intuitive controls with a robust design	Improves productivity Increases inspection quality Decreases processing time Easy upgrades available
Adjustable Mag-Shot Timer	Companies who inspect parts for multiple customers	Allows the operator to set magnetization time from 0.5 to 2 seconds	Increases productivity by making the adjustment simple and readily accessible
Double Mag-Shot	Companies who must adhere to specifications which require two magnetizing shots for testing	Automatically initiates two magnetizing shots Operator enables this feature once instead of remembering to press the MAG button or push bar twice each time a part is tested	Increases repeatability Better inspection quality Increases productivity



New Versatile Efficiency Upgrade Options

	Target User	Function	Benefits
Auto-Bath	Companies looking to decrease processing time for parts up to 22 inches long	Automatically clamps the part, bathes the part with magnetic particle bath, magnetizes the part, then unclamps the part	Decreases processing time by automating the magnetizing process
Auto-Mag	Companies looking to decrease processing time	Automatically clamps the part, magnetizes the part, then unclamps the part	Decreases processing time by automating part of the magnetizing process
Pneumatic Tailstock	Companies who inspect lengthy parts and require a long or extra-long frame	Automatically moves the tailstock along the rail for easy positioning	More ergonomic for the operator Reduce time to set tailstock Faster processing
Low-End Current Control	Companies who process small parts at lower amps and need tighter tolerances Companies who want to process a wide variety of parts on the same wet bench unit	Tightens the dial range for more precise amp control. Example: D-2060 low-end contact current range is 0-1500 amps (Range varies based on unit)	Versatile for many different inspection specification Efficient

		A-2030	AD-2045	ADH-2045	D-2060	D-2100
Contact Current Capacity	AC	3,000 amps	4,000 amp	4,000 amp	-	-
	HWDC	-	-	5,000 amp	-	-
	FWDC, 1 phase	-	5,000 amp	-	-	-
	FWDC, 3 phase	-	-	-	6,000 amp	10,000 amp
Demagnetizing		AC, decaying	AC, decaying	AC, decaying	DC, reversing	DC, reversing
Duty Cycle		ON: 0.5 sec OFF: 10 sec	ON: 0.5 sec OFF: 10 sec	ON: 0.5 sec OFF: 10 sec	ON: 0.5 sec OFF: 10 sec	ON: 0.5 sec OFF: 20 sec
HMI Touch Screen Interface		✓	✓	✓	✓	✓
Adjustable Mag-Shot Timer		✓	✓	✓	✓	✓
Double Mag-Shot		✓	✓	✓	✓	✓
Auto-Bath		new option	new option	new option	new option	new option
Auto-Mag		new option	new option	new option	new option	new option
Pneumatic Tailstock		new option	new option	new option	new option	-
Low-End Current Control		-	-	-	new option	new option

Magnaflux A- and D-Series Wet Bench Units with **HMI Touch Screen Interface** offer intuitive equipment controls, time-saving standard features like adjustable mag-shot timer and double-mag shot, and productivity upgrade options like auto-bath or auto-mag to automate the magnetizing process. The result is an easy-to-use, durable, dependable Wet Bench Unit ideal for companies looking for a high-value solution to improve productivity, increase inspection quality, and decrease processing time.

If your company is looking for a **value solution** to improve productivity contact your local Magnaflux Regional Sales Manager or find additional details on A- and D-Series Wet Bench Units with HMI Touch Screen Interface on our website at magnaflux.com.

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