



2013-14 EQUIPMENT CATALOG



MAGNAFLUX

A Division of Illinois Tool Works Inc.



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MAGNETIC PARTICLE INSPECTION EQUIPMENT

INTRODUCTION

Whether you're testing a small bolt, a large turbine rotor, or anything in between, Magnaflux offers a complete selection of high-quality magnetic particle inspection (MPI) equipment for every application. Value-engineered and manufactured to meet government and industry specifications, Magnaflux MPI equipment provides many advantages:

- Simple, fast, reliable operation
- Versatility to locate both surface and near-surface defects
- Economical operation for high-volume inspection rates
- Durability for industrial environments
- Little or no size limitations of parts being tested
- No elaborate pre-cleaning of parts is required

For optimum inspection performance, Magnaflux produces and supplies a complete line of materials and accessories. Because we offer a full line of equipment, accessories, and materials, we can easily serve you the customer, and work to satisfy all of your inspection needs.



CHOOSING THE RIGHT EQUIPMENT

Magnaflux wants you to buy the best piece of equipment to suit your needs. If at any time you need assistance or clarification, feel free to contact the Magnaflux Equipment Group. The equipment group can be reached through our Customer Service Department at 847-657-5300, or via e-mail at CS@magnaflux.com. Listed below are several issues you will need to address as you review this catalog.

1) TYPE OF DEFECT

A. Surface—if the only defect is open to the surface, Alternating Current (AC) units offer the best, least expensive solution. But on larger parts where more power is needed, a Direct Current (DC) of some form may be a viable solution.

B. Sub-Surface—In order to locate defects close to the surface or below the surface, Direct Current (DC) is the best choice. Magnaflux offers units with Half Wave DC, One Phase FWDC, and Three Phase FWDC outputs.

2) PART LENGTH

A. Main line Magnaflux units will accept parts up to 146 inches (371 cm)

B. Magnaflux custom equipment has handled parts 30 feet long and longer. We work hard to fit your need.

3) PROCESSING RATE

A. Low processing rates (Approximately one part every 30 seconds) can be processed on our “conventional” equipment. Conventional machines normally require two magnetizing shots with a separate inspection after each shot.

B. High processing rates can be handled by Multidirectional units. These units offer one shot one inspection on many parts, cutting process time in half. They also have higher levels of technology built in allowing interfaces with automated equipment.

4) MAGNETIZING FIELD STRENGTH

A. Field Strength depends on part size, geometry, and material. Location and type of defect are also factors to determine how much field you will need. Magnaflux units can create 20–20,000 amps of magnetizing current.

B. Magnaflux application engineers can help you determine how much magnetic power you will need for a proper inspection. Contact the equipment group through our customer service.

5) CUSTOMER REQUIREMENTS

On occasion, additional customer requirements may help determine the best unit. Quite often specifications are written to require inspections be done in certain ways. These specifications may require AC when surface flaws are the only predicted flaw. If you need help to interpret a specification, feel free to contact us. We have a library for our use containing many of the industry standards.

ANCILLARY EQUIPMENT

Magnaflux offers many standard units to help you process your parts. Inspection Hoods, Conveyor Systems, Demagnetizing Units, and Induced Current Fixtures are a few of the items we offer. These items have proven themselves as products of durability and reliability.

MAGNAFLUX EQUIPMENT

WET HORIZONTAL UNITS

Magnaflux A, D and MD-Series wet bench equipment offers the flexibility of current type and part range capabilities to identify surface and sub-surface defects across a broad range of parts by providing the specific unit best suited to your needs.

MOBILE POWER PACKS

The Magnaflux M-Series Mobile Power Pack facilitates testing of large and abnormally heavy parts.

The Magnaflux M-Series Mobile Power Pack solves the problem of magnetizing parts too large or heavy to be processed by standard fixed position MPI equipment.

Ruggedly built, the adaptive M-Series will locate parts in any direction using prods, central conductors, or coils.

PORTABLE POWER PACK

Magnaflux P-Series Portable Power Pack offers a convenient solution to in-field testing.

Performing mag particle inspection of in-field parts or large, heavy parts that require only moderate power for magnetization can be conveniently inspected with the Magnaflux P-Series Portable Power Pack.

STATIONARY POWER PACKS

Parts requiring special handling can count on Magnaflux C-Series Stationary Power Packs for MPI processing.

Magnaflux CD, CMD, and CSV-Series stationary power packs help facilitate testing of large and heavy parts or parts that cannot be accommodated by traditional MPI units.

Providing high magnetizing current with minimal power requirement the C-Series offers expanded MPI capabilities on a low-cost operating platform.

DEMAGNETIZATION EQUIPMENT

Magnaflux demagnetization units remove any residual magnetism remaining after Magnaglo® and Magnavis® Magnetic Particle Inspection testing.

Compact in size and ruggedly built, Magnaflux S and SB-Series demagnetization equipment offers a fast, efficient method for demagnetizing a broad variety of part types and sizes following the magnetic particle inspection process.



Wet Horizontal Units : A-Series

The Magnaflux A-2030, AD-2045, and ADH-2045 are our most economical standard wet bench units. They offer great particle mobility for finding surface and sub-surface defects, and the versatility of using AC or DC magnetization (except A-2030). The two outputs are independently adjustable to set each magnetic field, circular or longitudinal. Magnetization shot time is adjustable, allowing better development of indications.

BENEFITS

- Versatility of using AC (surface defects) or DC (sub-surface defects)
- Shot time can be adjusted to meet different inspection requirements or needs
- Footswitch to free-up hands for inspection
- Long lasting stainless steel tank
- Economical

A-2030

STANDARD FEATURES

Exterior:

- Innovative pump system for fluid delivery, agitation with easy maintenance access
- Push bar design for easy activation
- Current assurance indicator for magnetic current flow
- Large, easy to read Digital Ammeter
- Independent Contact and Coil Current Controls
- 12 inch (30 cm) diameter coil
- Footswitch-activated pneumatic headstock
- Adjustable tailstock with crank
- Stainless steel tank
- Front and rear maple hardwood grilles

Interior:

- Microprocessor control, advanced technology reduce components and increase reliability
- Solid state circuitry
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

- 3000 amp AC magnetizing current capability at contacts
- Demag—One Touch decaying AC
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- 54 inch (137 cm) headstock/tailstock capacity
- Infinitely variable current control
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, single phase power
- Recommended 20 Gallon (75 Liter) Tank Fluid Capacity
- Minimum 40 PSI with 5 CFM capability
- 89" (224 cm) x 41" (104 cm) Foot Print, allow 24" (61 cm) per side for ventilation

OPTIONAL FEATURES

- 16" coil (41 cm) w/raising block up-grade (In lieu of 12" coil)
- Rotating Contacts (70 lb. part capacity; N/A w/12" coil)
- NRTL Certification to CSA C22.2 No. 61010-1
- Dual Palm Button
- Configure Unit for 102" Part
 - Recommended 32 Gallon (122 Liter) Tank Fluid Capacity
 - 136" (346 cm) x 41" (104 cm) Foot Print, allow 24" (61 cm) per side for ventilation

AD-2045

STANDARD FEATURES

Exterior:

- Innovative pump system for fluid delivery, agitation with easy maintenance access
- Push bar design for easy activation
- Current assurance indicator for magnetic current flow
- Large, easy to read Digital Ammeter
- Independent Contact and Coil Current Controls
- 12 inch (30 cm) diameter coil
- Footswitch-activated pneumatic headstock
- Adjustable tailstock with crank
- Stainless steel tank
- Front and rear maple hardwood grilles

Interior:

- Microprocessor control, advanced technology reduce components and increase reliability
- Solid state circuitry
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

- 4000 amp AC/5000 amp FWDC magnetizing current capability at contacts
- 5600 amps AC at peak or 7000 amps DC at peak
- Demag—One Touch decaying AC
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- 54 inch (137 cm) headstock/tailstock capacity
- Infinitely variable current control
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, single phase power
- Recommended 20 Gallon (75 Liter) Tank Fluid Capacity
- Minimum 40 PSI with 5 CFM capability
- 89" (224 cm) x 41" (104 cm) Foot Print, allow 24"(61 cm) per side for ventilation

OPTIONAL FEATURES

- 16" coil (41 cm) w/raising block up-grade (In lieu of 12" coil)
- 20" coil (51 cm) w/raising block up-grade (In lieu of 12" coil)
- 19.7" inch (50 cm) clam-shell coil (3-turn) w/raising block up-grade (In lieu of 12" coil)
- Reinforced Rail for heavier part load (4,000 lbs. part capacity)
- Oversized Contact assembly (12"x 12") for headstock & tailstock
- Rotating Contacts (70 lb. part capacity; N/A w/12" coil)
- NRTL Certification to CSA C22.2 No. 61010-1
- Dual Palm Button
- Configure Unit for 102" Part
 - Recommended 32 Gallon (122 Liter) Tank Fluid Capacity
 - 136" (346 cm) x 41" (104 cm) Foot Print, allow 24" (61 cm) per side for ventilation

ADH-2045

STANDARD FEATURES

Exterior:

- Innovative pump system for fluid delivery, agitation with easy maintenance access
- Push bar design for easy activation
- Current assurance indicator for magnetic current flow
- Large, easy to read Digital Ammeter
- Independent Contact and Coil Current Controls
- 12 inch (30 cm) diameter coil
- Footswitch-activated pneumatic headstock
- Adjustable tailstock with crank
- Stainless steel tank
- Front and rear maple hardwood grilles

Interior:

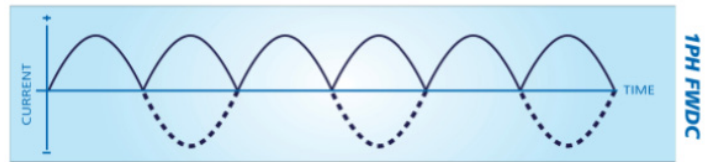
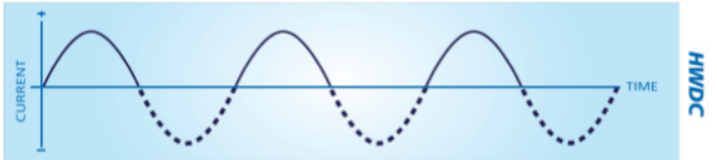
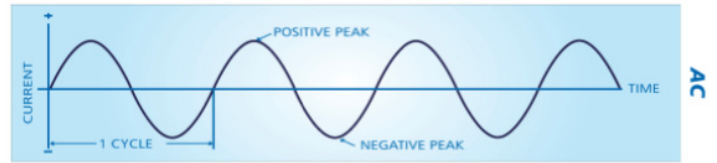
- Microprocessor control, advanced technology reduce components and increase reliability
- Solid state circuitry
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

- 4000 amp AC/5000 amp HWDC magnetizing current capability at contacts
- Demag—One Touch decaying AC
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- 54 inch (137 cm) headstock/tailstock capacity
- Infinitely variable current control
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, single phase power
- Recommended 20 Gallon (75 Liter) Tank Fluid Capacity
- Minimum 40 PSI with 5 CFM capability
- 89" (224 cm) x 41" (104 cm) Foot Print, allow 24"(61 cm) per side for ventilation

OPTIONAL FEATURES

- 16" coil (41 cm) w/raising block up-grade (In lieu of 12" coil)
- 20" coil (51 cm) w/raising block up-grade (In lieu of 12" coil)
- 19.7" inch (50 cm) clam-shell coil (3-turn) w/raising block up-grade (In lieu of 12" coil)
- Reinforced Rail for heavier part load (4,000 lbs. part capacity)
- Oversized Contact assembly (12"x 12") for headstock & tailstock
- Rotating Contacts (70 lb. part capacity; N/A w/12" coil)
- NRTL Certification to CSA C22.2 No. 61010-1
- Dual Palm Button
- Configure Unit for 102" Part
 - Recommended 32 Gallon (122 Liter) Tank Fluid Capacity
 - 136" (346 cm) x 41" (104 cm) Foot Print, allow 24" (61cm) per side for ventilation





Wet Horizontal Units : D-Series

The Magnaflux D Series (3 Phase Unit) are our most powerful standard wet bench units. They offer maximum magnetization for finding surface and sub-surface defects while using minimal power. The two outputs are independently adjustable to set each magnetic field, circular or longitudinal.

BENEFITS

- High output for inspection of large parts
- Ability to locate sub-surface defects using DC
- Shot time can be adjusted to meet different inspection requirements or needs
- Footswitch to free-up hands for inspection
- Long lasting stainless steel tank



D-2060

STANDARD FEATURES

Exterior:

- Innovative pump system for fluid delivery, agitation with easy maintenance access
- Push bar design for easy activation
- Current assurance indicator for magnetic current flow
- Large, easy to read Digital Ammeter
- Independent Contact and Coil Current Controls
- 12 inch (30 cm) diameter coil
- Footswitch- activated pneumatic headstock
- Adjustable tailstock with crank
- Stainless steel tank
- Front and rear maple hardwood grilles

Interior:

- Microprocessor control, advanced technology reduce components and increase reliability
- Quick break on Coil Circuit
- RS-232 port for computer interface
- Solid state circuitry
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

- 6000 amp 3Phase FWDC magnetizing current capability at contacts
- Ultra Low Frequency reversing DC Demagnetization
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- 54 inch (137 cm) headstock/tailstock capacity
- Infinitely variable current control
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, 3 phase power
- Recommended 20 Gallon (75 Liter) Tank Fluid Capacity
- Minimum 40 PSI with 5 CFM capability
- 89" (224 cm) x 41" (104 cm) Foot Print, allow 24"(61 cm) per side for ventilation

OPTIONAL FEATURES

- Coil of 16" ID with raising blocks (in lieu of the 12" ID coil)
- Coil of 20" ID with raising blocks (in lieu of the 12" ID coil)
- Coil of 25" ID with raising blocks (in lieu of the 12" ID coil)
- 30" Coil (in lieu of 12" Coil)
- 36" Coil (in lieu of 12" Coil)
- 19.7" inch (50 cm) clam-shell coil (3-turn) w/raising block up-grade (In lieu of 12" coil)
- Reinforced Rail for heavier part load (4,000 lbs. part capacity)
- Oversized Contact assembly (12"x 12") for headstock & tailstock
- Rotating Contacts (70 lb. part capacity; N/A w/12" coil)
- MOD 2.5 AC magnetization/demagnetization 2,500 Amps of AC current
- NRTL Certification to CSA C22.2 No. 61010-1
- Dual Palm Button
- Configure Unit for 102" Part
 - Recommended 32 Gallon (122 Liter) Tank Fluid Capacity
 - 136" (346 cm) x 41" (104 cm) Foot Print, allow 24" (61 cm) per side for ventilation
- Configure Unit for 146" Part
 - Recommended 55 Gallon (209 Liter) Tank Fluid Capacity
 - 180" (458 cm) x 41" (104 cm) Foot Print, allow 24" (61 cm) per side for ventilation

D-2100

STANDARD FEATURES

Exterior:

- Innovative pump system for fluid delivery, agitation with easy maintenance access
- Push bar design for easy activation
- Current assurance indicator for magnetic current flow
- Large, easy to read Digital Ammeter
- Independent Contact and Coil Current Controls
- 16 inch (41 cm) diameter coil
- Footswitch-activates pneumatic headstock
- Adjustable tailstock with crank
- Stainless steel tank
- Oversized Contact assembly (12"x 12") for headstock & tailstock
- Front and rear maple hardwood grilles

Interior:

- Microprocessor control, advanced technology reduce components and increase reliability
- RS-232 port for computer interface
- Solid state circuitry
- Quick break on coil circuit
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

- 10,000 amp Three (3) Phase Rectified to FWDC magnetizing current capability at contacts
- Ultra Low Frequency reversing DC Demagnetization
- Duty Cycle 0.5 seconds on, 20 Seconds off (Maximum of 5 seconds)
- 51 inch (130 cm) headstock/tailstock capacity
- Reinforced Rail for heavier part load (4,000lbs. part capacity)
- Infinitely variable current control
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, 3 phase power
- Recommended 20 Gallon (75 Liter) Tank Fluid Capacity
- Minimum 40 PSI with 5 CFM capability
- 89" (224 cm) x 41" (104 cm) Foot Print, allow 24"(61 cm) per side for ventilation

OPTIONAL FEATURES

- Coil of 20" ID (in lieu of the 16" ID coil)
- Coil of 25" ID with raising blocks (in lieu of the 16" ID coil)
- 30" Coil (in lieu of 16" coil)
- 36" Coil (in lieu of 16" coil)
- 19.7" inch (50 cm) clam-shell coil (3-turn) (In lieu of 16" coil)
- MOD 4 AC magnetization/demagnetization 4,000 Amps of AC current
- NRTL Certification to CSA C22.2 No. 61010-1
- Dual Palm Button
- Configure Unit for 99" Part
 - Recommended 32 Gallon (122 Liter) Tank Fluid Capacity
 - 136" (346 cm) x 41" (104 cm) Foot Print, allow 24" (61 cm) per side for ventilation
- Configure Unit for 143" Part
 - Recommended 55 Gallon (209 Liter) Tank Fluid Capacity
 - 180" (458 cm) x 41" (104 cm) Foot Print, allow 24" (61 cm) per side for ventilation



MD3-2060 with Auto-Bath

Wet Horizontal Units : MD-Series

The Magnaflux Multi-Directional units are our most versatile standard units. The MD Series offers time saving multidirectional magnetization for finding defects in all orientations with one cycle. The two or three outputs are independently adjustable to balance the magnetic field intensity, and each output offers AC, HWDC or One Phase FWDC output.

The user can mix and match current types while adjusting current levels creating virtually infinite combinations for the operator. These combinations allow the machine to be used with a wide range of parts, while the Customer Programmable Settings insure repeatability whether you process the same part every day or once a year. Supervisor Locks keeps stored settings safe from inadvertent variation.

BENEFITS

- Versatility
- Single shot saves time and labor
- Independent adjustability to balance the field intensity
- Supervisor security lock to ensure repeatability of process inspection

MD-2030

STANDARD FEATURES

Exterior:

- Innovative pump system for fluid delivery, agitation with easy maintenance access
- Push bar design for easy activation
- Visual/audible current assurance alarms with alarm log
- Two Large, easy to read Digital Ammeter Displays
- Two independent variable current controls with keypad entry
- Independent Contact, Flux Flow Current Type Selection
- Daily Reminder Alarms for UV Light, White Light, & Bath Concentration
- 50 customer programmable recipes
- Color Touch Screen Interface
- Automatic piece parts counter
- Footswitch-activated pneumatic headstock
- Adjustable tailstock with crank
- Stainless steel tank
- Front and rear maple hardwood grilles

Interior:

- PLC control, advanced technology reduce components and increase reliability
- Modular digital solid state circuitry
- Quick disconnect wiring
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS:

- 3000 amp FWDC/HWDC or 2500 amp AC multidirectional output; current capability at contacts
- Multidirectional power supply-two outputs (Contacts, Flux-Flow coils)
- Rapid Reversing FWDC or decaying AC Demagnetization
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- 41 inch (104 cm) headstock/tailstock capacity
- Recommended 20 Gallon (75 Liter) Tank Fluid Capacity
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, 3 phase power
- Minimum 40 PSI with 5 CFM capability
- 89" (226cm) x 41" (104 cm) Foot Print, allow 24"(61 cm) per side for ventilation

OPTIONAL FEATURES:

- 16" Coil in lieu of the Flux Coils
- Dual Palm Button
- Automatic bath
 - Engage/Disengage switch
 - Adjustable Stroke Length, up to 22 inches
 - Automatic Mag Shot when Bath Returns
 - Automatic Bath Shut Off, no flow when bath in retracted position
 - Articulating Spray Nozzles

MD-2060

STANDARD FEATURES

Exterior:

- Innovative pump system for fluid delivery, agitation with easy maintenance access
- Push bar design for easy activation
- Visual/audible current assurance alarms with alarm log
- Two Large, easy to read Digital Ammeter Displays
- Two independent variable current controls with keypad entry
- Independent Contact and Flux Flow Current Type Selection
- Daily Reminder Alarms for UV Light, White Light, & Bath Concentration
- 50 customer programmable recipes
- Color Touch Screen Interface
- Automatic piece parts counter
- Footswitch-activated pneumatic headstock
- Adjustable tailstock with crank
- Stainless steel tank
- Front and rear maple hardwood grilles

Interior:

- PLC control, advanced technology reduce components and increase reliability
- Modular digital solid state circuitry
- Quick disconnect wiring
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS:

- 6000 amp FWDC/HWDC or 5000 amp AC multidirectional output; current capability at contacts
- Multidirectional power supply-two outputs (Contacts, Flux-Flow coils)
- Rapid Reversing FWDC or decaying AC Demagnetization
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- 41 inch (104 cm) headstock/tailstock capacity
- Recommended 20 Gallon (75 Liter) Tank Fluid Capacity
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, 3 phase power
- Minimum 40 PSI with 5 CFM capability
- 89" (226 cm) x 41" (104 cm) Foot Print, allow 24" (61 cm) per side for ventilation

OPTIONAL FEATURES:

- 16" Coil in lieu of the Flux Coils
- Dual Palm Button
- Automatic bath
 - Engage/Disengage switch
 - Adjustable Stroke Length, up to 22 inches
 - Automatic Mag Shot when Bath Returns
 - Automatic Bath Shut Off, no flow when bath in retracted position
 - Articulating Spray Nozzles
- Configure Unit for 89" Part Capacity
 - Recommended 37 Gallon (140 L) Tank Fluid Capacity
 - 136" (346 cm) x 41" (104 cm) Foot Print, allow 24"(61 cm) per side for ventilation

MD3-2060

STANDARD FEATURES

Exterior:

- Innovative pump system for fluid delivery, agitation with easy maintenance access
- Push bar design for easy activation
- Visual/audible current assurance alarms with alarm log
- Three Large, easy to read Digital Ammeter Displays
- Three independent variable current controls with keypad entry
- Independent Contact, Flux Flow, and Aux Coil Current Type Selection
- Daily Reminder Alarms for UV Light, White Light, & Bath Concentration
- 50 customer programmable recipes
- Color Touch Screen Interface
- Automatic piece parts counter
- 16 inch (41 cm) diameter auxiliary coil
- Footswitch-activated pneumatic headstock
- Adjustable tailstock with crank
- Stainless steel tank
- Front and rear maple hardwood grilles

Interior:

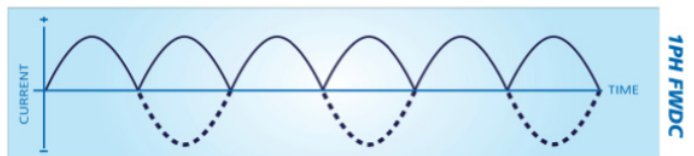
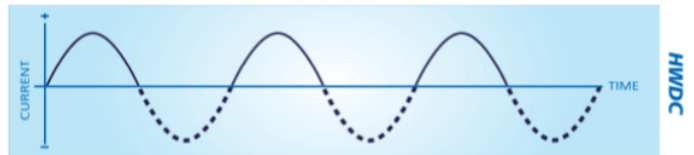
- PLC control, advanced technology reduce components and increase reliability
- Modular digital solid state circuitry
- Quick disconnect wiring
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS:

- 6000 amp FWDC/HWDC or 5000 amp AC multidirectional output; current capability at contacts
- Multidirectional power supply - three outputs (Contacts, Flux-Flow coils, & Aux Coil)
- Rapid Reversing FWDC or decaying AC Demagnetization
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- 41 inch (104 cm) headstock/tailstock capacity
- Recommended 20 Gallon (75 Liter) Tank Fluid Capacity
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, 3 phase power
- Minimum 40 PSI with 5 CFM capability
- 89" (226 cm) x 41" (104 cm) Foot Print, allow 24" (61 cm) for ventilation

OPTIONAL FEATURES

- 20 inch (51cm) Coil in lieu of the 16" Coil
- 19.7 inch (50 cm) clam-shell coil (3-turn) w/raising block up-grade (In lieu of 16" coil)
- Dual Palm Button
- Automatic bath
 - Engage/Disengage switch
 - Adjustable Stroke Length, up to 22 inches
 - Automatic Mag Shot when Bath Returns
 - Automatic Bath Shut Off, no flow when bath in retracted position
 - Articulating Spray Nozzles
- Configure Unit for 89" Part
 - Recommended 32 Gallon (122 Liter) Tank Fluid Capacity
 - 136" (346 cm) x 41" (104 cm) Foot Print, allow 24"(61 cm) per side for ventilation
- Configure Unit for 133" Part
 - Recommended 55 Gallon (209 Liter) Tank Fluid Capacity
 - 180" (458 cm) x 41" (104 cm) Foot Print, allow 24"(61 cm) per side for ventilation





Inspection Hoods : GE-Series

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 well below the common standards. The easy access to the unit is improved by the front “theater style” curtain mechanism. This same front curtain can be folded in half and hung to allow better ventilation in warmer environments.

FEATURES

GE-54 CONFIGURED FOR STANDARD PART CAPACITY

- ZB-100F Black Light
- Quick Mount Design
- Easy Access through Front Curtain (Theater Style)
- Adjustable Length Curtain
- White Light and Ventilation Fan
- Flame Resistant Curtains
- White Light Control from Operator Interface
- Fan On/Off Switch on Operator Interface
- Foot Print;
Closed 89” x 63” x 90”
Open 89” x 41” x 122”

GE-96 CONFIGURED FOR LONG PART CAPACITY

- Foot Print;
Closed 136” x 63” x 90”
Open 136” x 41” x 122”

GE-144 CONFIGURED FOR EXTRA LONG CAPACITY

- Foot Print;
Closed 180” x 63” x 90”
Open 180” x 41” x 122”



M-2060

Mobile Power Packs : M-Series

Magnaflux understands some parts cannot be moved so the magnetizing station needs to be brought to the part. The M Series offers a solution by providing an adaptable mobile unit. These units feature AC or Half Wave DC output. Output rating is based on Load Specified.

Note: M-2030 for long cable output is designed for applications in which the power source cannot be close to the inspection piece. This unit designed to work with long cable lengths necessary for inspecting large parts (i.e. power generator parts).

BENEFITS

- Ability to easily move the unit to the part for inspection
- Convenient hook on back side of unit to wrap cables after use, saves space as well as keeps cables lasting longer without being dragged along the floor when moved.



M-2040

STANDARD FEATURES

Exterior:

- Digital Meter Display
- Two Bus Bars for Connection
- Push button Switch for AC output
- Push button Switch for HWDC output
- Push button Switch for Mag
 - Momentary – magnetizes as long as button is pushed
- Push button Switch for Demag
 - One touch auto cycle
 - Switches to decaying AC automatically
- Push button Switch for power on/off
- Push button Switch for pulse
 - ½ sec on, 3 sec off for 30 sec
- Infinitely variable current control
- Two (2) fixed heavy-duty casters
- Two (2) swivel casters with locks
- Lift brackets for extra unit mobility
- 115 Volt Convenience Outlet (10 amp)

Internal:

- Thermal Overload for circuitry protection
- PLC Circuitry for extra reliability
- Secondary Current Control
- Flow through cooling for heat dissipation
- Solid State Switching (AC to HWDC)

SPECIFICATIONS

- Output: 4000 amps AC and HWDC magnetizing current
- Output rated with 30' total 4/0 Cable
- Dimensions: 46" L x 23" W x 39" H
- Weight: 750 lbs.
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, single phase power
- 8% Duty Cycle (maximum output with 1/2 minute ON time)

M-2030

STANDARD FEATURES

Exterior:

- Digital Meter Display
- Two Bus Bars for Connection
- Push button Switch for AC output
- Push button Switch for HWDC output
- Push button Switch for Mag
 - Momentary–magnetizes as long as button is pushed
- Push button Switch for Demag
 - One touch auto cycle
 - Switches to decaying AC automatically
- Push button Switch for power on/off
- Push button Switch for pulse
 - ½ sec on, 3 sec off for 30 sec
- Infinitely variable current control
- Two (2) fixed heavy-duty casters
- Two (2) swivel casters with locks
- Lift brackets for extra unit mobility
- 115 Volt Convenience Outlet (10 amp)

M-2060

STANDARD FEATURES

Exterior:

- Digital Meter Display
- Two Bus Bars for Connection
- Push button Switch for AC output
- Push button Switch for HWDC output
- Push button Switch for Mag
 - Momentary – magnetizes as long as button is pushed
- Push button Switch for Demag
 - One touch auto cycle
 - Switches to decaying AC automatically
- Push button Switch for power on/off
- Push button Switch for pulse
 - ½ sec on, 3 sec off for 30 sec
- Infinitely variable current control
- Two (2) fixed heavy-duty casters
- Two (2) swivel casters with locks
- Lift brackets for extra unit mobility
- 115 Volt Convenience Outlet (10 amp)

Internal:

- Thermal Overload for circuitry protection
- PLC Circuitry for extra reliability
- Secondary Current Control
- Flow through cooling for heat dissipation
- Solid State Switching (AC to HWDC)

SPECIFICATIONS

- Output: 6000 amps AC and HWDC magnetizing current
- Output rated with two 30' of 4/0 cables ran in parallel
- Dimensions: 46" L x 23" W x 39" H
- Weight: 780 lbs.
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, single phase power
- 7% Duty Cycle (maximum output with 1/2 minute ON time)

Internal:

- Thermal Overload for circuitry protection
- PLC Circuitry for extra reliability
- Secondary Current Control
- Flow through cooling for heat dissipation
- Solid State Switching (AC to HWDC)

SPECIFICATIONS

- Output: 3000 amps AC and HWDC magnetizing current
- Output rated with 90' of 4/0 cables
- Dimensions: 46" L x 23" W x 39" H
- Weight: 780 lbs.
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, single phase power
- 7% Duty Cycle (maximum output with 1/2 minute ON time)



Portable Power Packs : P-Series

Portable Power Packs are convenient and economical inspection units that are used in a wide range of magnetic particle applications that require only moderate power. The Magnaflux Portable Power Packs are ideal for large or heavy parts, in-service mobile equipment, or job-site welds.

STANDARD FEATURES

- Find surface defects with AC current; switch cable connection to half wave DC (HWDC) for near-surface flaws
- Locate defects in any direction using prods, central conductor, coil (wrap part with 3-5 turns of cable)
- Infinitely variable current control
- Demagnetize your parts in AC mode by slowly turning the current dial to zero
- Built-in automatic-reset circuit breaker
- May be used as the main power source for the Magnaflux MAG Kit modular bench inspection system

P-70 Power Pack

P/N 190575 – 115v OR P/N 190575-1 - 230v

SPECIFICATIONS

- Length: 17 1/2" (44.5 cm)
- Width: 9" (23 cm)
- Height: 7 1/2" (19.1cm)
- Maximum Output*: 750 amps, AC or HWDC
- Current Input Single Phase: 115 Volts, 50/60 Hertz; 230 Volts, 50/60 Hertz, single phase power
- Line Current: 26 amps @ 115 VAC; 13 amps @ 230 VAC
- Maximum Duty Cycle: 2 minutes ON, 2 minutes OFF
- Unit Weight: 35 lbs (15.9 kg)

P-1500 Power Pack

P/N 198500 (230v)
P/N 198500-01 (460v)

SPECIFICATIONS

- Length: 22" (55.8 cm)
- Width: 9 1/2" (24.3 cm)
- Height: 9 1/2" (24.3 cm)
- Maximum Output*: 1500 amps, AC or HWDC
- Current Input Single Phase: 230/460 Volts, 50/60 Hz 460 Volts, 50/60 Hertz, single phase power
- Line Current: 42 amps @ 230 VAC; 21 amps @ 460 VAC
- Maximum Duty Cycle: 2 minutes ON, 2 minutes OFF
- Unit Weight: 93 lbs (42.2 kg)

*Current ratings are based on the use of two 15-foot length of 4/0 Cable



Stationary Power Packs : CD-Series

The CD units are power pack versions of our wet horizontal three phase output units.

BENEFITS

- Most economical way to create a high magnetizing current with minimal power requirements
- For parts too large for traditional wet horizontal units or parts that need special handling

Stationary Power Packs : CMD-Series

The CMD is the Multi Directional stationary power pack. This unit can easily be integrated with custom handling equipment, or used to update old wet horizontal units. The CMD Stationary Power Pack can come with 2 or 3 outputs. Many of the benefits found on the MD Wet Horizontal Unit apply to this CMD Stationary Power Pack as well.

BENEFITS

- Single shot to find defects in both directions using multi directional capability
- For parts too large for traditional wet horizontal units or parts that need special handling
- Increase speed of process with up to three independent outputs

CD-2060

STANDARD FEATURES

Exterior:

- Current Assurance Indicator
- Large, easy to read Digital Ammeter Display
- Sturdy Flat top, use as a convenient work surface
- Ergonomic Display and Control Panel
- Remote Mag Receptacle (Use with ZB-100FMB)
- Dual 115 volt Accessory Outlets

Interior:

- PLC control, advanced technology reduce components and increase reliability
- Modular digital solid state circuitry
- Quick Break Circuitry
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

- 6,000 amp three phase rectified to FWDC output
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- Ultra Low Frequency reversing DC Demagnetization
- Pulsed Output (1/2 sec ON – 1 sec OFF for 10 cycles)
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, three phase power
- 60" (153 cm) x 31" (79 cm) Foot Print, allow 24" (61 cm) per side for ventilation

OPTIONAL FEATURES

- NRTL Certification to CSA C22.2 No. 61010-1

CD-2100

STANDARD FEATURES

Exterior:

- Current Assurance Indicator
- Large, easy to read Digital Ammeter Display
- Sturdy Flat top, use as a convenient work surface
- Ergonomic Display and Control Panel
- Remote Mag Receptacle (Use with ZB-100FMB)
- Dual 115 volt Accessory Outlets

Interior:

- PLC control, advanced technology reduce components and increase reliability
- Modular digital solid state circuitry
- Quick Break Circuitry
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

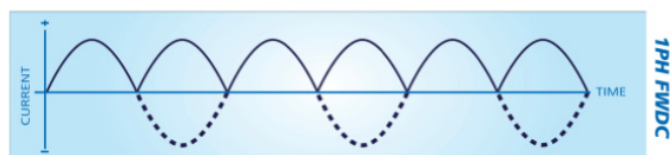
- 10,000 amp three phase rectified to FWDC output
- Duty Cycle 0.5 seconds on, 20 Seconds off (2.5% with Maximum of 5 seconds)
- Ultra Low Frequency reversing DC Demagnetization
- Pulsed Output (1/2 sec ON – 1 sec OFF for 10 cycles)
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, three phase power
- 60" (153 cm) x 31" (79 cm) Foot Print, allow 24" (61 cm) per side for ventilation



CD- Series



CMD- Series



CMD-2030

STANDARD FEATURES

Exterior:

- Color Touch Screen Interface
- Visual/audible current assurance alarms w/ log
- Two Large, Digital Ammeter Displays
- Independent X, Y, Output Current Type Selection
- Daily Reminder Alarms
 - UV Light
 - White Light
 - Bath Concentration
- 50 customer programmable recipes
- Automatic piece parts counter

Interior:

- PLC control, advanced technology reduce components and increase reliability
- Modular digital solid state circuitry
- Quick disconnect wiring
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

- 3000 amp FWDC/HWDC or 2500 amp AC multidirectional output; current capability
- Multidirectional power supply - Two outputs
 - Rapid Reversing FWDC or decaying AC Demagnetization
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- All Ratings based on 30 Feet of double 4/0 Cable
- Two Independently variable current controls
- Available Voltages: 230, 380, 415, 460, 575, 50 or 60 hertz, three phase power
- 60" (153 cm) x 31" (79 cm) Foot Print, allow 24"(61 cm) per side for ventilation

CMD3-2060

STANDARD FEATURES

Exterior:

- Color Touch Screen Interface
- Visual/audible current assurance alarms with alarm log
- Three Large, easy to read Digital Ammeter Displays
- Independent X, Y and Z Output Current Type Selection
- Daily Reminder Alarms
 - UV Light
 - White Light
 - Bath Concentration
- 50 customer programmable recipes
- Automatic piece parts counter

Interior:

- PLC control, advanced technology reduce components and increase reliability
- Modular digital solid state circuitry
- Quick disconnect wiring

CMD-2060

STANDARD FEATURES

Exterior:

- Color Touch Screen Interface
- Visual/audible current assurance alarms with alarm log
- Two Large, easy to read Digital Ammeter Displays
- Independent X, Y, Output Current Type Selection
- Daily Reminder Alarms
 - UV Light
 - White Light
 - Bath Concentration
- 50 customer programmable recipes
- Automatic piece parts counter

Interior:

- PLC control, advanced technology reduce components and increase reliability
- Modular digital solid state circuitry
- Quick disconnect wiring
- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

- 6000 amp FWDC/HWDC or 5000 amp AC multidirectional output; current capability
- Multidirectional power supply - Two outputs
- Rapid Reversing FWDC or decaying AC Demagnetization
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- All Ratings based on 30 Feet of double 4/0 Cable
- Two Independently variable current controls
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, three phase power
- 60" (153 cm) x 31" (79 cm) Foot Print, allow 24"(61 cm) per side for ventilation

- Liquid Resistant panels, allow ventilation while inhibiting fluid intrusion

SPECIFICATIONS

- 6000 amp FWDC/HWDC or 5000 amp AC multidirectional output; current capability
- Multidirectional power supply - Three outputs
- Rapid Reversing FWDC or decaying AC Demagnetization
- Duty Cycle 0.5 seconds on, 10 Seconds off (5% with Maximum of 5 seconds)
- All Ratings based on 30 Feet of double 4/0 Cable
- Three Independently variable current controls
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, three phase power
- 60" (153 cm) x 31" (79 cm) Foot Print, allow 24"(61 cm) per side for ventilation



Stationary Power Packs : CSV-Series

Magnaflux understands some parts will not lend themselves to traditional units. Some of these parts are too large, some need special handling, and some are better processed dry. The Magnaflux Stationary Power Pack Series (CSV, CMD, and CD Power Packs) offers a solution to the parts that are too large for normal systems. Three independent outputs help to speed up processing time, and a pulse feature allows development of larger areas. These units feature 3 phase rectified to FWDC output.

STANDARD FEATURES

- Most economical way to create a high magnetizing current with minimal power requirements.
- For parts too large for traditional wet horizontal units or parts that need special handling
- Increase speed of process with three independent outputs

CSV-10

STANDARD FEATURES

Exterior:

- Three Independent Current Controls
- One to Four Pulses selectable (to develop larger areas)
- One to Four Cycles (to rotate through the multiple vector output)
- Current Assurance Indicators
- Three Large, easy to read Digital Ammeter Display
- Remote Mag Receptacle (Use with ZB-100FMB)
- 115 Volt Accessory Outlet

Interior:

- PLC control, advanced technology reduce components and increase reliability
- RS-232 port for computer interface
- Modular digital solid state circuitry
- Quick Break Circuitry

SPECIFICATIONS

- 10,000 amp three phase rectified to FWDC output
- Three Independent Bus Bar Outputs
- Reversing DC Demag-Ultra Low Frequency (Output 1 only)
- Current capability rated using 30 feet of 1,000 kcmil cable.
- Duty Cycle 0.5 seconds on, 20 Seconds off (2.5% with maximum of 2 seconds)
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, three phase power

OPTIONAL FEATURES

- Demagnetization on Outputs 2 & 3

CSV-15

STANDARD FEATURES

Exterior:

- Three Independent Current Controls
- One to Four Pulses selectable (to develop larger areas)
- One to Four Cycles (to rotate through the multiple vector output)
- Current Assurance Indicators
- Three Large, easy to read Digital Ammeter Display
- Remote Mag Receptacle (Use with ZB-100FMB)
- 115 Volt Accessory Outlet

Interior:

- PLC control, advanced technology reduce components and increase reliability
- RS-232 port for computer interface
- Modular digital solid state circuitry
- Quick Break Circuitry

SPECIFICATIONS

- 15,000 amp three phase rectified to FWDC output
- Three Independent Bus Bar Outputs
- Reversing DC Demag-Ultra Low Frequency (Output 1 only)
- Current capability rated using 30 feet of 1,000 kcmil cable.
- Duty Cycle 0.5 seconds on, 20 Seconds off (2.5% with maximum of 2 seconds)
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, three phase power

OPTIONAL FEATURES

- Demagnetization on Outputs 2 & 3



CSV-20

STANDARD FEATURES

Exterior:

- Three Independent Current Controls
- One to Four Pulses selectable (to develop larger areas)
- One to Four Cycles (to rotate through the multiple vector output)
- Current Assurance Indicators
- Three Large, easy to read Digital Ammeter Display
- Remote Mag Receptacle (Use with ZB-100FMB)
- 115 Volt Accessory Outlet

Interior:

- PLC control, advanced technology reduce components and increase reliability
- RS-232 port for computer interface
- Modular digital solid state circuitry
- Quick Break Circuitry

SPECIFICATIONS

- 20,000 amp three phase rectified to FWDC output
- Three Independent Bus Bar Outputs
- Reversing DC Demag-Ultra Low Frequency (Output 1 only)
- Current capability rated using 30 feet of 1,000 kcmil cable.
- Duty Cycle 0.5 seconds on, 20 Seconds off (2.5% with maximum of 2 seconds)
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, three phase power

OPTIONAL FEATURES

- Demagnetization on Outputs 2 & 3



*SB-2824 Demagnetizer
with Optional Track and Carriage*



S-66 Demagnetizer

Demagnetizers

Magnaflux demagnetization units remove any residual magnetism remaining after Magnaglo® and Magnavis® Magnetic Particle Inspection testing.

Demagnetization of ferromagnetic parts and materials is often a prerequisite to final finishing or to ready an item for its ultimate use. Industrial demagnetizing is not an easy task, unless an effective demagnetizing system is used. It is especially difficult when the magnetic field must be reduced to a very low level. Compact in size and ruggedly built, Magnaflux Demagnetization equipment offers a fast and efficient method for demagnetizing a broad variety of part types and sizes following the magnetic particle inspection process.

Typical Applications for Demag Units:

- Demagnetizing parts that have been subjected to Magnavis and Magnaglo magnetic particle inspection
- Removing residual magnetism in parts intended for use near magnetic instrumentation
- Demagnetizing parts with bearing or journal surfaces
- Demagnetizing parts after contact with magnetic chucks or lifting magnets

S-66

The Magnaflux S-66 Demagnetizer is a compact tabletop unit designed to be conveniently integrated into an existing magnetic particle inspection system. Oil and waterproof by virtue of its plastic impregnated glass coating, the S-66 can be flush mounted to the work surface with supplied angle supports to facilitate easy part insertion by the operator.

STANDARD FEATURES

- 4600 Amp turns
- 6" wide x 6" high window

SPECIFICATIONS

- Size: 15.5"L x 9.4"W x 14.4"H (39.4cmL x 23.9cmW x 36.6cmH)
- Weight: 85 lb. (38.6kg)
- Available Voltages: 115, 230 460, 50 or 60 hertz, single phase power

S-1212

The Magnaflux S-1212 Demagnetizer is a compact tabletop unit designed to be conveniently integrated into an existing magnetic particle inspection systems. Oil and waterproof by virtue of its plastic-impregnated glass coating, the S-1212 can be flush mounted to the work surface with supplied angle supports to facilitate easy part insertion by the operator.

STANDARD FEATURES

- 7500 Amp turns
- 12" wide x 12" high window

SPECIFICATIONS

- Size: 24"L x 11.75"W x 24"H (61cmL x 29.8cmW x 61cmH)
- Weight: 285 lb. (129.3kg)
- Available Voltages: 230, 460, 50 or 60 hertz, single phase power



SB-1416

STANDARD FEATURES

- 8000 Amp turns
- 14" wide x 16" high window
- User friendly control panel, with one touch demag
- Adjustable shot time

SPECIFICATIONS

- Size: 30"L x 44.4"W x 56.31H (76.2cm x 112.8cm x 150.6cm)
- Weight: 460 lb. (208.7kg)
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, single phase power

OPTIONAL FEATURES

- 12,000 Amp turns (50% higher)
- Track and Carriage

SB-1619

STANDARD FEATURES

- 8000 Amp turns
- 16" wide x 19" high window
- User friendly control panel, with one touch demag
- Adjustable shot time

SPECIFICATIONS

- Size: 30"L x 44.4"W x 59.31H (76.2cm x 112.8cm x 150.6 cm)
- Weight: 625 lb. (283.5kg)
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, single phase power

OPTIONAL FEATURES

- 12,000 Amp turns (50% higher)
- Track and Carriage

SB-2824

STANDARD FEATURES

- 8000 Amp turns
- 28" wide x 24" high window
- User friendly control panel, with one touch demag
- Adjustable shot time

SPECIFICATIONS

- Size: 30"L x 56.9"W x 64.31H (76.2cm x 144.5cm x 163.3cm)
- Weight: 810 lb. (367.4kg)
- Available Voltages: 380, 415, 460, 575, 50 or 60 hertz, single phase power

OPTIONAL FEATURES

- 12,000 Amp turns (50% higher)
- Track and Carriage



MAGNAFLUX[®]

A Division of Illinois Tool Works Inc.



MAGNETIC PARTICLE INSPECTION ACCESSORIES AND MATERIALS

Magnetic Particle Inspection Accessories

CONTACT PADS & PLATES

Magnaflux long lasting copper braided contact pads and lead contact plates prevent arc burn by helping to maintain proper electrical contact between test parts and contact heads. Available in a variety of sizes to fit most MPI units.

Part Number: 18948 - Double-Braided Pad with V-Block

Heavy copper braid provides contact over a larger surface area. Built with neoprene, the V-Block base centers and supports test parts. Can be reversed to provide two wear faces. Fits all units except A-915 and smaller Mag Series units.



CENTRIFUGE TUBES & STANDS

Magnaflux centrifuge tubes are individually calibrated to monitor the precise concentrations of Magnaglo and Magnavis particles in baths, as well as the contamination levels of their solutions.

Part Number: 8493 - Centrifuge Tube for Magnaglo 14A, 14AM and 20B Fluorescent Particles.

Measures in increments between 0 and 1.0 ml in 0.05 increments.

Part Number: 1837A - Aluminum Centrifuge Stand. Safely holds centrifuge tubes when mixing bath concentrations.



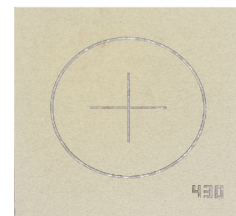
TEST PIECES

Quantitative Quality Indicator Test Pieces

Quantitative Quality Indicators (QQI) are magnetic particle test pieces with artificial defects that are used to verify field direction and relative strength. They are also used to balance multi-directional fields and to increase productivity by minimizing magnetizing shots. The QQI Indicator Shims are packaged in sets of five.

Part Number: 625551 - Standard QQI Model #KSC-230.

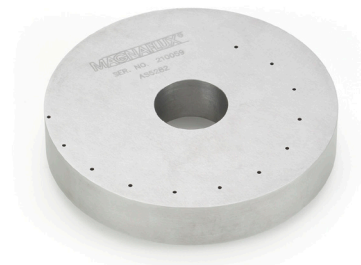
Basic circular and cross bar flaw configuration suitable for longitudinal and circular fields. Flaw depth of 30% of shim thickness, .002" thick.



Tool Steel Test Ring

The Magnaflux Tool Steel Test Ring is a magnetic particle test piece with pre-drilled holes to simulate subsurface discontinuities. It provides a reliable method of verifying magnetic particle system performance when actual test parts with discontinuities are not available.

Part Number: 159999 - Tool Steel Test Ring



FIELD INDICATORS

Magnaflux rugged, pocket-size 10 and 20 gauss field indicators are used to measure residual magnetism remaining in parts after magnetization.

Part Number: 505056 - 10 Gauss Calibrated Field Indicator.

10 gauss certified field indicator accurate to +0.5 Gauss with a scale range of 10-0-10. Certification is provided with meter.

Part Number: 105645 - 20 Gauss Calibrated Field Indicator.

20 gauss certified field indicator accurate to +0.5 Gauss with a scale range of 20-0-20. Certification is provided with meter.



QUICK BREAK TESTER

Quick Break Tester (QB1)

The Quick Break Tester quickly and accurately confirms function status of "quick break" circuitry in the three phase FWDC magnetic particle units.

Part Number: 148335



CABLES, CONNECTORS & REMOTE DEVICES

Cables

Rubber covered flexible cables are available in standard lengths of 15' (4.57m) and 20' (6.09m) with a choice of either end or lug connectors. Custom cables and replacement connectors are also available.

Part Number:

- 11306 - 15' (4.57m) lugs at both ends
- 11307 - 15' (4.57m) lug and either end
- 11308 - 15' (4.57m) either ends at both ends
- 11312 - 20' (6.09m) lugs at both ends
- 11313 - 20' (6.09m) lug and either ends
- 11314 - 20' (6.09m) either ends at both ends

Connectors

Connectors for attaching 4/0 cables to Magnaflux magnetizing equipment, including wet benches, power packs and mobile units.

Part Number:

- 1238 – Either end connector (allows quick cable disconnect for maximum flexibility)
- 1238A - Connector boot only
- 1574 – Either end lug adapter (changes lug terminal to either end terminal)
- 2590 - 4/0 lug for permanent attachment to magnetizing equipment



COILS

Coils for Bench Units

Five-turn coils in sizes from 12" to 25" that conform to most parts and produce optimal magnetic field applications.

Part Number:

- 28501 - 12" (30 cm) Coil
- 28511 - 16" (41 cm) Coil
- 28531 - 20" (51 cm) Coil
- 28541 - 25" (64 cm) Coil



Flat Magnetic Coil

For non-contact magnetic particle inspection of small parts such as fasteners and ring-like parts. Can be used with any magnetic particle unit or power pack to allow for the quick, easy processing of multiple parts at one time.

Part Number: 611700 - Flat Magnetic Coi



Clam Shell Coil Assembly

Part Number: 623031 - 19.7" (50 cm) Clam Shell Coil Assembly



PROD SETS

Magnaflux prod sets are convenient handheld electrodes used for conducting sectional inspections of welds, casting, forgings and other large and complex part shapes. Comfortable, pistol style grips and out-of-the-way cable hookups make it easy for testing parts that are not wet bench friendly.

Standard Prod Sets

Part Number: 622088 - For use with M-2000 Series units

Part Number: 157662 - For use with P-Units

Dual Horizontal Prod Assemblies

Part Number: 622499 - For use with M-Series units

Part Number: 157781 - For use with P-Series units

Digital Amperage Meter Kit

The Magnaflux Digital Amperage Meter Kit is specifically designed for NDT applications and will certify the amperage on all MPI equipment manufactured by Magnaflux up to 10,000amps. Checks AC, HWDC, 1 Phase FWDC, and 3 Phase FWDC.

Part Number: 622350 - Digital Amperage Meter Kit



MAGNETIC PARTICLE INSPECTION MATERIALS

OIL VEHICLE

Magnaglo Carrier II Oil

Magnaglo Carrier II Oil is used to suspend wet (oil) method magnetic particles when water is not used as a suspension vehicle. It has virtually no odor or fluorescence and possesses a flash point in excess of 200°F allowing it to meet OSHA requirements for a Class III B liquid.

Specification Compliance: ASTM E 1444, ASTM E 709, Pratt & Whitney PMC 1887, A-A-59230, ASME B & PV Code, Sec. V, AMS-2641.

Part Number & Container Size:

01-2122-30 20 Gal. Drum

01-2122-45 55 Gal. Drum



FLUORESCENT WET METHOD PARTICLES

Magnaglo 14A Fluorescent Magnetic Powder

Magnaglo 14A is intended for use in high sensitivity, wet method magnetic particle inspection and may be suspended in either a petroleum-based vehicle (oil) such as Carrier II or water.

Specification Compliance: ASTM E 1444, ASME B&PV Code, Sec. V, NAVSEA 250-1500-1, ASTM E-709 (E-138), MIL-STD-271, AMS-3044, Cummins IS-16048-13, MIL-STD-2132, Boeing PS 21201, British Std. B.S. 4069.

Applications: Magnaglo 14A is used to locate fine surface and slightly subsurface discontinuities such as inclusions, seams, shrink cracks, tears, laps, flakes, welding defects, grinding cracks, quenching cracks, and fatigue cracks.

Part Number & Container Size:

01-0130-71 1 lb. Plastic Jar (6)



Magnaglo 14A Redi-Bath

Magnaglo 14A Redi-Bath is a prepared liquid concentrate of 14A Fluorescent Powder, wetting agents, anti-foaming agents, and long lasting rust inhibitors.

Specification Compliance: ASTM E 1444, ASTM E 709, NAVSEA 250-1500-1, MIL-STD-271, MIL-STD-2132, ASME B & PV Code, Sec. V.

Applications: Magnaglo 14A Redi-Bath is used to locate fine surface and slightly subsurface discontinuities such as inclusions, seams, shrink cracks, tears, laps, flakes, welding defects, grinding cracks, quenching cracks and fatigue cracks.

Part Number & Container Size:

01-9130-41 27 oz. Container (6)





LIQUID PENETRANT INSPECTION EQUIPMENT

Liquid Penetrant Inspection Equipment

Magnaflux systems are designed for testing anything from small, high volume automotive parts to tolerance critical surgical implants, and even larger turbine blades. We offer a variety of inspection equipment, along with the necessary materials and accessories to meet the demands of your specific application.

Magnaflux Liquid Penetrant Inspection (LPI) Systems have been engineered for critical part testing in industries with high inspection tolerances that require equipment that is easy to operate, built tough to stand up to years of use, and offer outstanding repeatability.

Our ZA-1227 model series offers sequenced processing and efficiency. They provide versatility for production line testing or maintenance/overhaul inspections. In addition, they provide the following:

- Low/moderate volume testing of small/medium sized parts
- High volume testing of very small parts
- Compact size with all stations welded in one frame to minimize floor space

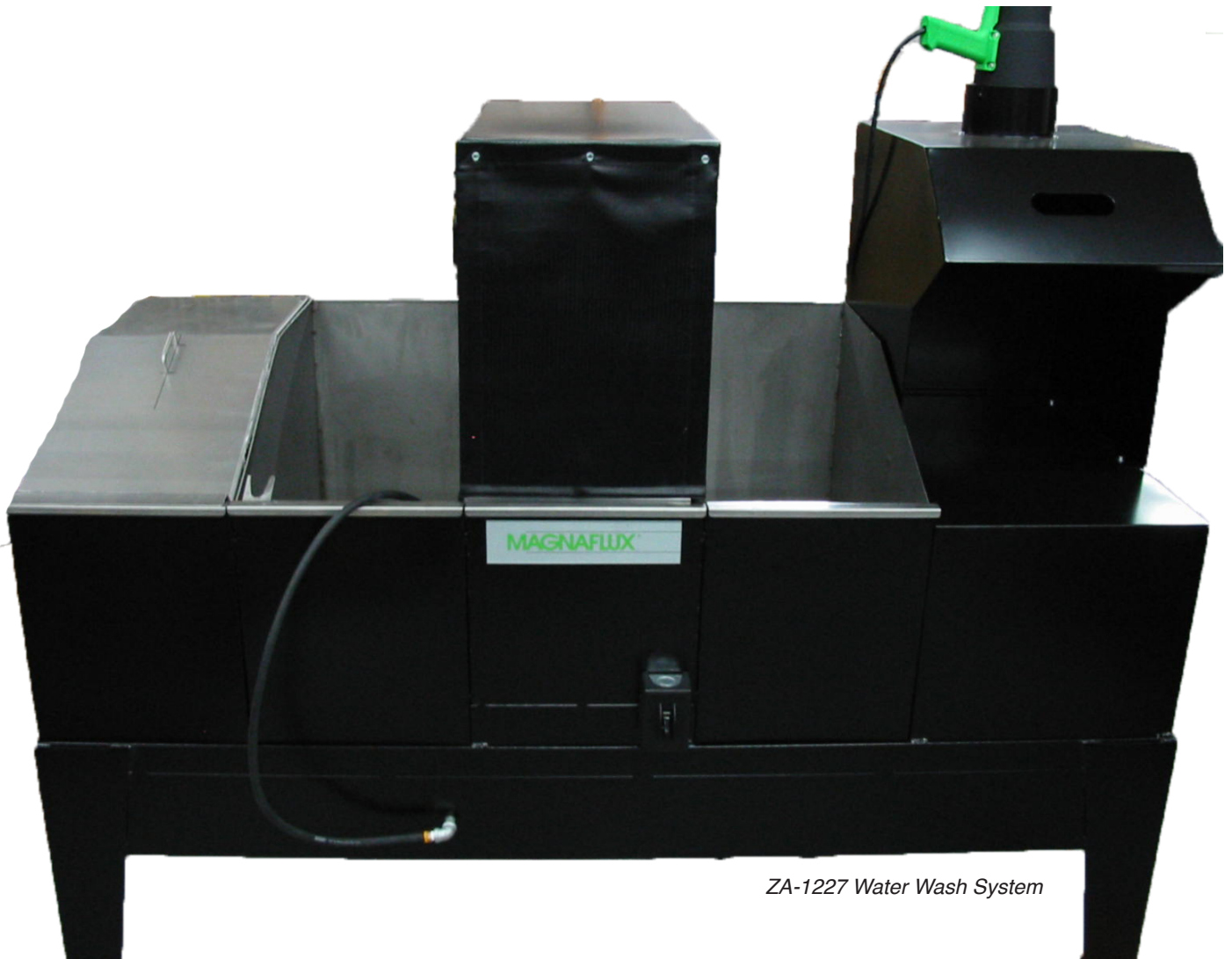
Our ZA-1633 model series offers slightly larger tank sizes to accommodate a variety of parts, yet still remains compact in one welded frame. This model also provides the features listed below:

- Drain racks to increase throughput
- Black light with adjustable mounting fixture to assist in determining sufficient rinsing of parts
- Stand alone inspection booth with black light, white light, and ventilation fan

Both models have three different units which relate to the different types of methods used for inspection including; Water Wash, Post Emulsified Lipophilic and Post Emulsified Hydrophilic. The Water Wash method is the simplest unit because water can be used directly to wash excess penetrant from parts without additional steps. The Lipophilic method can locate extremely shallow flaws, but requires an extra processing step, applying an emulsifier to make the penetrant washable. The Hydrophilic method delivers the highest inspection sensitivity, but also requires applying an emulsifier and an additional processing station for pre-rinsing parts.

Aside from these two models, there is also a ZY-2436 model that has three different units which correlate to the exact same methods as described above (Water Wash, Post Emulsified Lipophilic and Post Emulsified Hydrophilic). The other standard model is the ZY-4848, and this is not offered as a system like the ZA-1227, ZA-1633, and ZY-2436 models. For the ZY-4848, this is offered as modular components such as the penetrant station, rinse station, drain station, etc.

Should you have a special need not met by any of the standard units listed above, our engineering group will happily provide a custom design to meet your requirements and application.



Method A : Water Wash Fluorescent Penetrant Inspection Systems

BENEFITS

- 304 Stainless Steel Tanks (16 gauge)
- Welded Steel Frame
- Designing Equipment with Material Knowledge
- 3 Years Warranty on Zyglo Equipment
- Global Authorized Service Centers
- History of Providing Durable and Quality Equipment Worldwide
- Available for all NDT needs from Equipment to Materials

ZA-1227

STAND ALONE WATER WASH COMPACT PENETRANT SYSTEM

PART NUMBER 621792

Zyglo® ZA-1227 Water Wash Penetrant Inspection System is a compact, stand alone 5-station inspection system designed for batch and low volume fluorescent inspection of small to medium size parts: Aerospace Fasteners, Automotive Parts, Surgical Implants, etc.

STANDARD FEATURES

- Overall Length: 56" (143 cm)
- Overall Width: 28" (71 cm)
- Working Height: 36" (90 cm)
- Unit Weight Approximately 650 lbs. (295 kg)
- Tank size: 12 7/8" L x 27 5/8" W x 16" D
- Ten (10) gallon penetrant tank capacity
- Stainless steel penetrant tank
- Stainless steel rinse tank with hand hose and spray nozzle
- Thermostat controlled dryer
- Stainless steel developer tank
- Inspection bench/booth with ZB-100F hand held, fan cooled, 100 watt black light
- Electrical Requirement: 115 volts, 60 hertz, single phase facility power

NOTE: Water pressure and temperature gauges not included

SPECIFICATIONS

- Electrical Requirements: 115V, 60Hz, Single Phase
- Tank Size: 12 7/8" L x 27 5/8" W x 16" D
- Tank Capacity: 10 Gallon
- Dryer: Thermostatically Controlled
- Black Light: Zyglo® ZB-100F Handheld, Fan-Cooled, 100 Watt
- Stations: Penetrant, Rinse, Dryer, Developer, Inspection

OPTIONAL FEATURES

- #608363 Stand Alone Inspection Booth
 - Outside dimensions: 36" L x 60" W (includes 24" from unit to curtain) x 83" H
 - Inside dimensions: 36" L x 36" W x 36" H
 - Structural steel framework
 - Epoxy external finish
 - Black melamine work surface
 - Full length (4" above floor), flame resistant curtains
 - Roof mounted combination of ventilation fan and white light
 - Duplex GFI receptacle mounted at the rear of the table
 - ZB-100F hand held, fan cooled, 100 watt black light
 - Roof mounted black light receptacle, controlled by panel switch
 - Control panel with switches for black light, white light, and ventilation fan

#609178RE Aluminum drop-on lid for a tank

#522152 Swirl Cloud Developer Upgrade Kit

- Hinged tank cover with view port
- Air manifold
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector

OR

#522143 Dynamic Cloud Developer Upgrade Kit

- Hinged tank cover with view port
- Modified pressure pot
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector



ZA-1227

WATER WASH COMPACT PENETRANT SYSTEM WITH CLEANING AND PRE-RINSE STATIONS, AND A DYNAMIC CLOUD DEVELOPER

Zyglo® ZA-1227 Water Wash Penetrant Inspection System is a compact, stand alone 7-station inspection system designed for batch and low volume fluorescent inspection of small to medium size parts: Aerospace Fasteners, Automotive Parts, Surgical Implants, etc.

STANDARD FEATURES

- Overall Length: 97" (247 cm)
- Overall Width: 28" (71 cm)
- Working Height: 36" (90 cm)
- Unit Weight Approximately 675 lbs. (295 kg)
- Tank size: 12 7/8" L x 27 5/8" W x 16" D
- Ten (10) gallon penetrant tank capacity
- Stainless steel cleaning station with pump agitation and heater
- Stainless steel pre-rinse tank with hand hose and spray nozzle
- Stainless steel penetrant tank
- Stainless steel final rinse tank with hand hose and spray nozzle
- Thermostat controlled dryer
- Stainless steel dynamic cloud developer tank with drain rack, two gallon pressure pot and foot switch for dispensing of developer, 5" diameter viewing window in cover, and a built in dust collector with air filter
- Inspection bench/booth with ZB-100F hand held, fan cooled, 100 watt black light
- Electrical Requirement: 115 volts, 60 hertz, single phase facility power (Two connections)

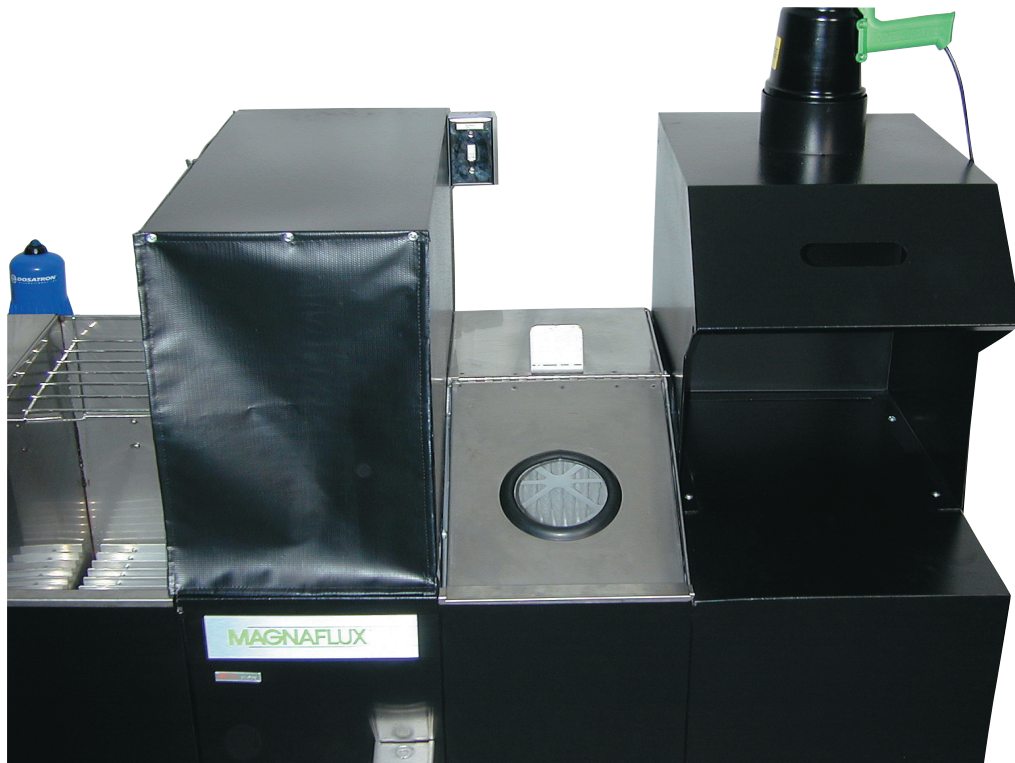
NOTE: Water pressure and temperature gauges not included

SPECIFICATIONS

- Electrical Requirements: 115V, 60Hz, Single Phase
- Tank Size: 12 7/8" L x 27 5/8" W x 16" D
- Tank Capacity: 10 Gallon
- Dryer: Thermostatically Controlled
- Black Light: Zyglo® ZB-100F Handheld, Fan-Cooled, 100 Watt
- Stations: Cleaning, Pre-Rinse, Penetrant, Final Rinse, Dryer, Dynamic Cloud Developer, Inspection

OPTIONAL FEATURES

- #608363 Stand Alone Inspection Booth
- Outside dimensions: 36" L x 60" W (includes 24" from unit to curtain) x 83" H
- Inside dimensions: 36" L x 36" W x 36" H
- Structural steel framework
- Epoxy external finish
- Black melamine work surface
- Full length (4" above floor), flame resistant curtains
- Roof mounted combination of ventilation fan and white light
- Duplex GFI receptacle mounted at the rear of the table
- ZB-100F hand held, fan cooled, 100 watt black light
- Roof mounted black light receptacle, controlled by panel switch
- Control panel with switches for black light, white light, and ventilation fan
- #609178RE Aluminum drop-on lid for a tank



ZA-1633 WATER WASH COMPACT PENETRANT SYSTEM (230V/60HZ/1PH) / (460V/60HZ/1PH)

PART NUMBER 621791 / PART NUMBER 621791-01

Zyglo® ZA-1633 Water Wash Penetrant Inspection System is a standalone 6-station inspection system designed for batch and low volume fluorescent penetrant inspection of small to medium size parts: Aerospace Fasteners, Automotive Parts, Surgical Implants, etc.

The ZA-1633 system comes with a standalone inspection booth with black light, white light and ventilating fan and a digitally calibratable dryer controller.

STANDARD FEATURES

- Overall Length: 132" (336 cm)
- Overall Width: 34" (87 cm)
- Working Height: 36" (90 cm)
- Unit Weight Approximately 1,150 lbs. (522 kg)
- Three (3) 12" diameter round wire baskets, nylon coated, are provided
- Twenty-seven (27) gallon penetrant tank capacity
- Stainless steel penetrant tank with inside dimensions of 15 ¾" L x 33" W x 14 ¾" H
- Stainless steel drain area with drain rack, working dimensions of 31 ¾" L x 33" W
- Stainless steel rinse tank with hand hose and spray nozzle, inside dimensions of 22" L x 13" W x 15 ½" H
- Thermostat controlled dryer, inside dimensions of 30" L x 15 ½" W x 29" H
- Stainless steel developer tank with inside dimensions of 15 ¾" L x 33" W x 14 ¼" H
- Stand Alone Inspection Booth with ZB-100F hand held, fan cooled, 100 watt black light, ventilation fan, white light, operator switch panel, full length, flame resistant curtains

NOTE: Water pressure and temperature gauges not included

SPECIFICATIONS

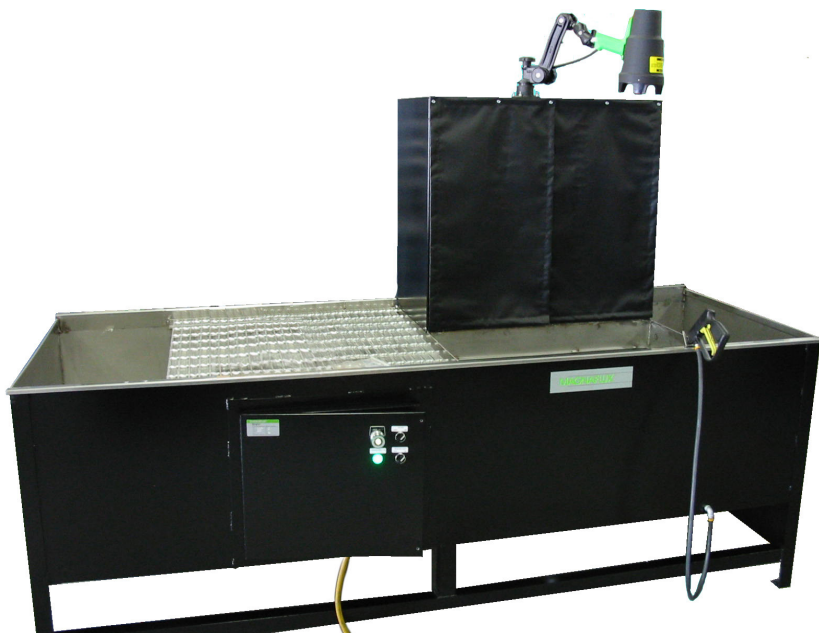
- Electrical Requirements: 230V or 460V, 60Hz, Single Phase
- Tank Size: 15 ¾" x 33" W x 14 ¾" H
- Tank Capacity: 27 Gallon
- Dryer: Digitally Calibratable Temperature Controller
- Black Light: Zyglo® ZB-100F Handheld, Fan-Cooled, 100 Watt
- Stations: Penetrant, Drain, Rinse, Dryer, Developer, Inspection

OPTIONAL FEATURES

- #609178-P Aluminum drop-on lid for a tank
- #522159 Automatic rotary wash for rinse station
- Settable timer
- Uses 12" baskets only that are provided with system
- Manual touch up rinse spray gun provided for after cycle is complete
- #522072 Swirl Cloud Developer Upgrade Kit
- Hinged tank cover with view port
- Air manifold
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector

OR

- #522084 Dynamic Cloud Developer Upgrade Kit
- Hinged tank cover with view port
- Modified pressure pot
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector



ZY-2436 WATER WASH FLOURESCENT PENETRANT INSPECTION SYSTEM

PART NUMBER 522157

List of Stations Included in the System:

Penetrant Dip Tank Station
Penetrant Drain/Dwell Station
Tank-Type Spray Rinse Station
Drain Station
Top-Load Dryer Station
Rest Station
Top-Load Swirl Cloud Dry Developer Station
Free Standing Inspection Booth Station

Penetrant Dip Tank Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 32" D (**26" deep with Optional Work Platform**)
- Heavy gauge stainless steel tank
- Steel framework
- Protective hinged tank cover, aluminum
- Epoxy external finish
- ¾" NPTF drain fitting, located bottom center, plugged

Penetrant Drain/Dwell Station

Features:

- Dimensions: 36" L x 24" W x 10" D
- Dimensions @ work surface: 33" L x 21" W x 36" H
- Stainless steel drain pan
- Aluminum grating work surface
- Integrated drip caps between Drain station and adjacent stations
- ¾" NPTF drain fitting, located bottom center
- Attaches to and is supported by adjacent stations

Tank-Type Spray Rinse Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 26" H (tank rim to standard work platform)
- Heavy gauge stainless steel tank
- Steel framework
- Hand-held hose with spray nozzle
- ¼" NPT water connection, rear of station
- Epoxy external finish
- Aluminum grating work surface
- ¾" NPTF drain fitting, located bottom center

Drain Station

Features:

- Dimensions: 36" L x 24" W x 10" D
- Dimensions @ work surface: 33" L x 21" W x 36" H
- Stainless steel drain pan
- Aluminum grating work surface
- Integrated drip caps between Drain station and adjacent stations
- ¾" NPTF drain fitting, located bottom center
- Attaches to and is supported by adjacent stations

Top Load Dryer Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 22" H (tank rim to standard work platform)
- Top loading station
- Steel framework
- Heavy gauge steel panels
- Insulated interior panels with heat reflective surfaces
- Removable fans and heater elements
- Digital thermostat
- On/off switch
- Pilot light
- Aluminum grating work surface
- Air circulation fans
- Electrical requirement: 230 volt, 60 hertz, single phase facility power

Rest Station

Features:

- Dimensions: 36" L x 24" W x 10" D
- Dimensions @ work surface: 33" L x 21" W x 36" H
- Steel dust pan
- Aluminum grating work surface
- Integrated drip caps between Rest station and adjacent stations
- Attaches to and is supported by adjacent stations

Top Load Swirl Cloud Dry Developer Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 26" H (tank rim to standard work platform)
- Heavy gauge steel tank
- Steel framework
- Hinged cover, aluminum.
- Epoxy internal and external finish
- Built-in dust collector
- View-port for in cover
- ¼" NPT air inlet, rear of station
- Filter/regulator with pressure gauge
- Foot pedal air valve
- Powder agitation manifold
- Filtered make-up air inlet
- Rear-mounted vac-type dust collector
- Electrical Requirement: 115 volt, 60 hertz, single phase facility power
- Air Requirement: 30 psi shop air line

Free Standing Inspection Booth Station

Features:

- Outside dimensions: 36" L x 60" W (includes 24" from unit to curtain) x 83" H
- Inside dimensions: 36" L x 36" W x 36" H
- Structural steel framework
- Epoxy external finish
- Black melamine work surface
- Full length (4" above floor), flame resistant curtains
- Roof mounted combination of ventilating fan/white light
- Duplex GFI receptacle mounted at the rear of the table
- One (1) ZB-100F hand held, fan cooled, 100 watt black light
- Roof mounted black light receptacle, controlled by panel switch
- Control panel with switches for black light, white light, and ventilating fan
- Electrical Requirement: 115 volt, 60 hertz, single phase facility power

OPTIONAL FEATURES

#522089 Aluminum grating work platform for tank-type station

NOTE: This is only a quantity of one for one station.

#522111 Manually operated (foot pedal) Dynamic Cloud Developer Kit, installed in place of the Swirl Cloud system in the Top Load Swirl Cloud Dry Developer

- Modified pressure pot
- Required hoses
- Air regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Electrical Requirement: 115 volts, 60 hertz, single phase

#522131 Canopy Enclosure for Rinse Station

- Add solid roof and back wall, split curtains on each side for part entry/exit
- Two foot tubular black light mounted to the roof with an on/off switch
- Overhang (36" L x 24" W) that is located on front side of station with ½ length curtains
- Electrical Requirement: 115 volts, 60 hertz, single phase

#522146 Water/Temperature gauges added to Rinse Station

- Gauges located on front of station below work surface





Method B : Post Emulsified Lipophilic Inspection Systems

BENEFITS

- 304 Stainless Steel Tanks (16 gauge)
- Welded Steel Frame
- Designing Equipment with Material Knowledge
- 3 Years Warranty on Zyglo Equipment
- Global Authorized Service Centers
- History of Providing Durable and Quality Equipment Worldwide
- Available for all NDT needs from Equipment to Materials

ZA-1227

POST EMULSIFIED LIPOPHILIC COMPACT PENETRANT SYSTEM

PART NUMBER 622036

Zyglo® ZA-1227 Post Emulsified Lipophilic Penetrant Inspection System is a compact, stand alone 6-station inspection system designed for batch and low volume fluorescent inspection of small to medium size parts: Aerospace Fasteners, Automotive Parts, Surgical Implants, etc.

STANDARD FEATURES

- Overall Length: 70" (178 cm)
- Overall Width: 28" (71 cm)
- Working Height: 36" (90 cm)
- Unit Weight Approximately 650 lbs. (295 kg)
- Tank size: 12 7/8" L x 27 5/8" W x 16" D
- Ten (10) gallon penetrant tank capacity
- Stainless steel penetrant tank
- Stainless steel emulsifier tank
- Stainless steel rinse tank with hand hose and spray nozzle
- Thermostat controlled dryer
- Stainless steel developer tank
- Inspection bench/booth with ZB-100F hand held, fan cooled, 100 watt black light
- Electrical Requirement: 115 volts, 60 hertz, single phase facility power

NOTE: Water pressure and temperature gauges not included

SPECIFICATIONS

- Electrical Requirements: 115V, 60Hz, Single Phase
- Tank Size: 12 7/8" L x 27 5/8" W x 16" D
- Tank Capacity: 10 Gallon
- Dryer: Thermostatically Controlled
- Black Light: Zyglo® ZB-100F Handheld, Fan-Cooled, 100 Watt
- Stations: Penetrant, Emulsifier, Rinse, Dryer, Developer, Inspection

OPTIONAL FEATURES

- #608363 Stand Alone Inspection Booth
 - Outside dimensions: 36" L x 60" W (includes 24" from unit to curtain) x 83" H
 - Inside dimensions: 36" L x 36" W x 36" H
 - Structural steel framework
 - Epoxy external finish
 - Black melamine work surface
 - Full length (4" above floor), flame resistant curtains
 - Roof mounted combination of ventilation fan and white light
 - Duplex GFI receptacle mounted at the rear of the tablea
 - ZB-100F hand held, fan cooled, 100 watt black light
 - Roof mounted black light receptacle, controlled by panel switch
 - Control panel with switches for black light, white light, and ventilation fan
- #609178RE Aluminum drop-on lid for a tank
- #522152 Swirl Cloud Developer Upgrade Kit
 - Hinged tank cover with view port
 - Air manifold
 - Air pressure regulator and gage
 - Foot pedal air valve
 - In-take mounted pre-filter
 - Vac-type collector

OR

- #522143 Dynamic Cloud Developer Upgrade Kit
 - Hinged tank cover with view port
 - Modified pressure pot
 - Air pressure regulator and gage
 - Foot pedal air valve
 - In-take mounted pre-filter
 - Vac-type collector



ZA-1633

POST EMULSIFIED LIPOPHILIC COMPACT PENETRANT SYSTEM

PART NUMBER 522092

Zyglo® ZA-1633 Post Emulsified Lipophilic Penetrant Inspection System is a standalone 8-station inspection system designed for batch and low volume fluorescent penetrant inspection of small to medium size parts: Aerospace Fasteners, Automotive Parts, Surgical Implants, etc.

The ZA-1633 system comes with a stand alone inspection booth with black light, white light and ventilating fan and a digitally calibratable dryer controller

STANDARD FEATURES

- Overall Length: 165" (419 cm)
- Overall Width: 34" (87 cm)
- Working Height: 36" (90 cm)
- Unit Weight Approximately 1,210 lbs. (550 kg)
- Three (3) 12" diameter round wire baskets, nylon coated
- Twenty-seven (27) gallon penetrant tank capacity
- Stainless steel penetrant tank with inside dimensions of 15 ¾" L x 33" W x 14 ¾" H
- Stainless steel drain area with drain rack, working dimensions of 31 ¾" L x 33" W
- Stainless steel emulsifier tank with inside dimensions of 15 ¾" L x 33" W x 14 ¾" H
- Stainless steel drain area with drain rack, working dimensions of 18" L x 33" W
- Stainless steel rinse tank, hand hose and spray nozzle, inside dimensions of 22" L x 13" W x 15 ½" H
- Thermostat controlled dryer, inside dimensions of 30" L x 15 ½" W x 29" H
- Stainless steel developer tank with inside dimensions of 15 ¾" L x 33" W x 14 ¼" H
- Stand Alone Inspection Booth with ZB-100F hand held, fan cooled, 100 watt black light, ventilation fan, white light, operator switch panel, full length, flame resistant curtains

NOTE: Water pressure and temperature gauges not included

SPECIFICATIONS

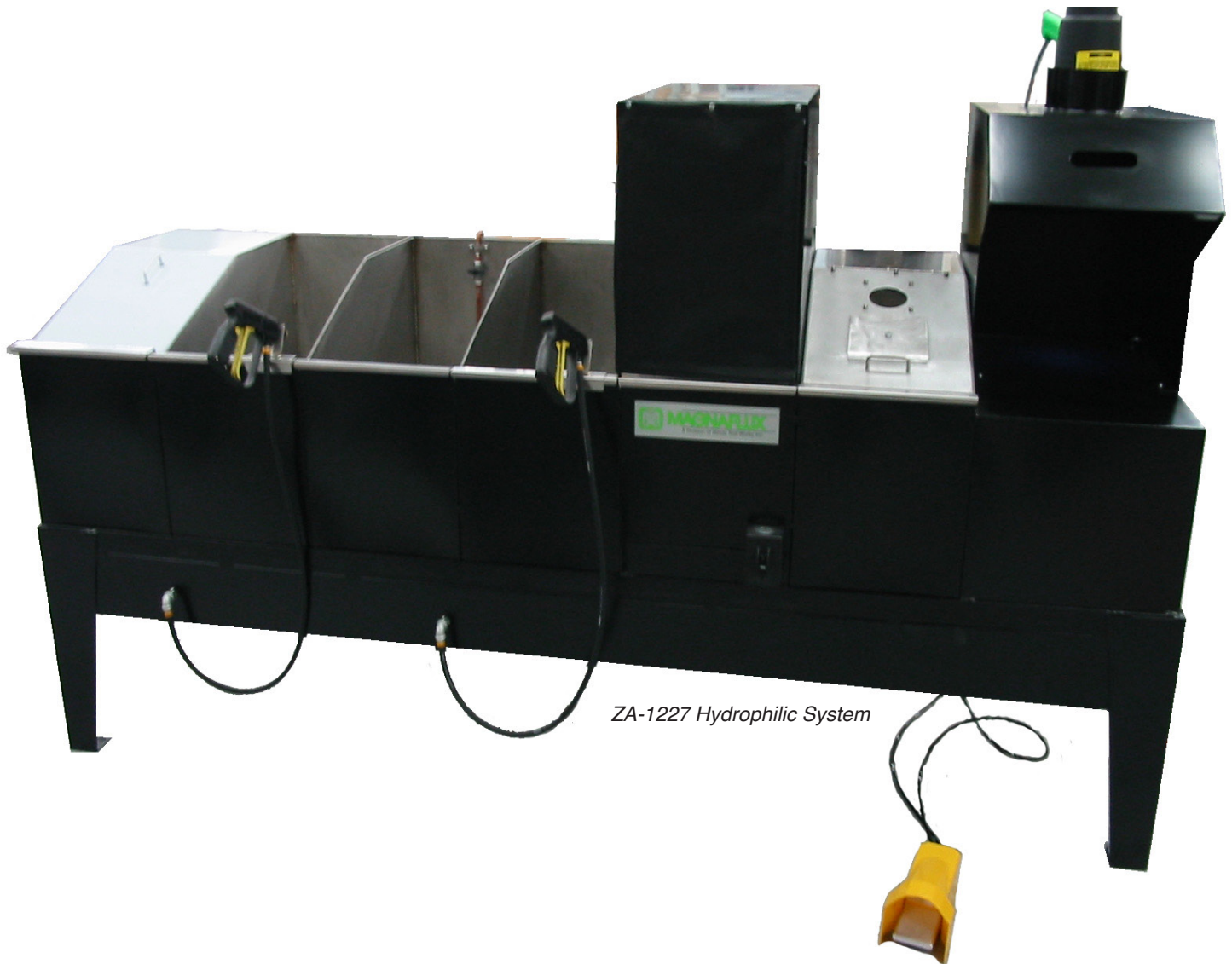
- Electrical Requirements: 115V, 60Hz, Single Phase
- Tank Size: 15 ¾" x 33" W x 14 ¾" H
- Tank Capacity: 10 Gallon
- Dryer: Calibratable Temperature Controller
- Black Light: Zyglo® ZB-100F Handheld, Fan-Cooled, 100 Watt
- Stations: Penetrant, Drain, Emulsifier, Drain, Rinse, Dryer, Developer, Inspection

OPTIONAL FEATURES

- #609178-P Aluminum drop-on lid for a tank
- #522159 Automatic rotary wash for rinse station
- Settable timer
- Uses 12" baskets only that are provided with system
- Manual touch up rinse spray gun provided for after cycle is complete
- #522072 Swirl Cloud Developer Upgrade Kit
- Hinged tank cover with view port
- Air manifold
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector

OR

- #522084 Dynamic Cloud Developer Upgrade Kit
- Hinged tank cover with view port
- Modified pressure pot
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector



Method D : Post Emulsified Hydrophilic Fluorescent Penetrant Inspection Systems

BENEFITS

- 304 Stainless Steel Tanks (16 gauge)
- Welded Steel Frame
- Designing Equipment with Material Knowledge
- 3 Years Warranty on Zygo Equipment
- Global Authorized Service Centers
- History of Providing Durable and Quality Equipment Worldwide
- Available for all NDT needs from Equipment to Materials

ZA-1227

POST EMULSIFIED HYDROPHILIC COMPACT PENETRANT SYSTEM

PART NUMBER 622103

Zyglo® ZA-1227 Post Emulsified Hydrophilic Penetrant Inspection System is a compact, stand alone 7-station inspection system designed for batch and low volume fluorescent inspection of small to medium size parts: Aerospace Fasteners, Automotive Parts, Surgical Implants, etc.

FEATURES

- Overall Length: 83" (211 cm)
- Overall Width: 28" (71 cm)
- Working Height: 36" (90 cm)
- Unit Weight Approximately 650 lbs. (295 kg)
- Tank size: 12 7/8" L x 27 5/8" W x 16" D
- Ten (10) gallon penetrant tank capacity
- Stainless steel penetrant tank
- Stainless steel pre-rinse tank with hand hose and spray nozzle
- Stainless steel air agitated remover tank
- Stainless steel final rinse tank with hand hose and spray nozzle
- Thermostat controlled dryer
- Stainless steel developer tank
- Inspection bench/booth with ZB-100F hand held, fan cooled, 100 watt black light
- Electrical Requirement: 115 volts, 60 hertz, single phase facility power

NOTE: Water pressure and temperature gauges not included

SPECIFICATIONS

- Electrical Requirements: 115V, 60Hz, Single Phase
- Tank Size: 12 7/8" L x 27 5/8" W x 16" D
- Tank Capacity: 10 Gallon
- Dryer: Thermostatically Controlled
- Black Light: Zyglo® ZB-100F Handheld, Fan-Cooled, 100 Watt
- Stations: Penetrant, Pre-Rinse, Remover, Final-Rinse, Dryer, Developer, Inspection

OPTIONAL FEATURES

#608363 Stand Alone Inspection Booth

- Outside dimensions: 36" L x 60" W (includes 24" from unit to curtain) x 83" H
- Inside dimensions: 36" L x 36" W x 36" H
- Structural steel framework
- Epoxy external finish
- Black melamine work surface
- Full length (4" above floor), flame resistant curtains
- Roof mounted combination of ventilation fan and white light
- Duplex GFI receptacle mounted at the rear of the table
- ZB-100F hand held, fan cooled, 100 watt black light
- Roof mounted black light receptacle, controlled by panel switch
- Control panel with switches for black light, white light, and ventilation fan

#609178RE Aluminum drop-on lid for a tank

#522152 Swirl Cloud Developer Upgrade Kit

- Hinged tank cover with view port
- Air manifold
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector

OR

#522143 Dynamic Cloud Developer Upgrade Kit

- Hinged tank cover with view port
- Modified pressure pot
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector



ZA-1633

POST EMULSIFIED HYDROPHILIC COMPACT PENETRANT SYSTEM (230V/60HZ/1PH) / (460V/60HZ/1PH)

PART NUMBER 522109 / PART NUMBER 522094

Zygro® ZA-1633 Post Emulsified Hydrophilic Penetrant Inspection System is a stand alone 9-station inspection system designed for batch and low volume fluorescent penetrant inspection of small to medium size parts: Aerospace Fasteners, Automotive Parts, Surgical Implants, etc.

The ZA-1633 system comes with a standalone inspection booth with black light, white light and ventilating fan and a digitally calibratable dryer controller.

FEATURES

- Overall Length: 182" (463 cm)
- Overall Width: 34" (87 cm)
- Working Height: 36" (90 cm)
- Unit Weight Approximately 1,270 lbs. (577 kg)
- Three (3) 12" diameter round wire baskets, nylon coated
- Twenty-seven (27) gallon penetrant tank capacity
- Stainless steel penetrant tank with inside dimensions of 15 ¾" L x 33" W x 14 ¾" H
- Stainless steel drain area with drain rack, working dimensions of 31 ¾" L x 33" W
- Stainless steel pre-rinse tank, hand hose and spray nozzle
- Stainless steel drain area with drain rack, working dimensions of 18" L x 33" W
- Stainless steel remover tank, air agitated, inside dimensions of 15 ¾" L x 33" W x 19 ¼" H
- Stainless steel post-rinse tank, hand hose and spray nozzle, inside dimensions of 22" L x 13" W x 15 ½" H
- Thermostat controlled dryer, inside dimensions of 30" L x 15 ½" W x 29" H
- Stainless steel developer tank with inside dimensions of 15 ¾" L x 33" W x 14 ¼" H
- Stand Alone Inspection Booth with ZB-100F hand held, fan cooled, 100 watt black light, ventilation fan, white light, operator switch panel, full length, flame resistant curtains

NOTE: Water pressure and temperature gauges not included

SPECIFICATIONS

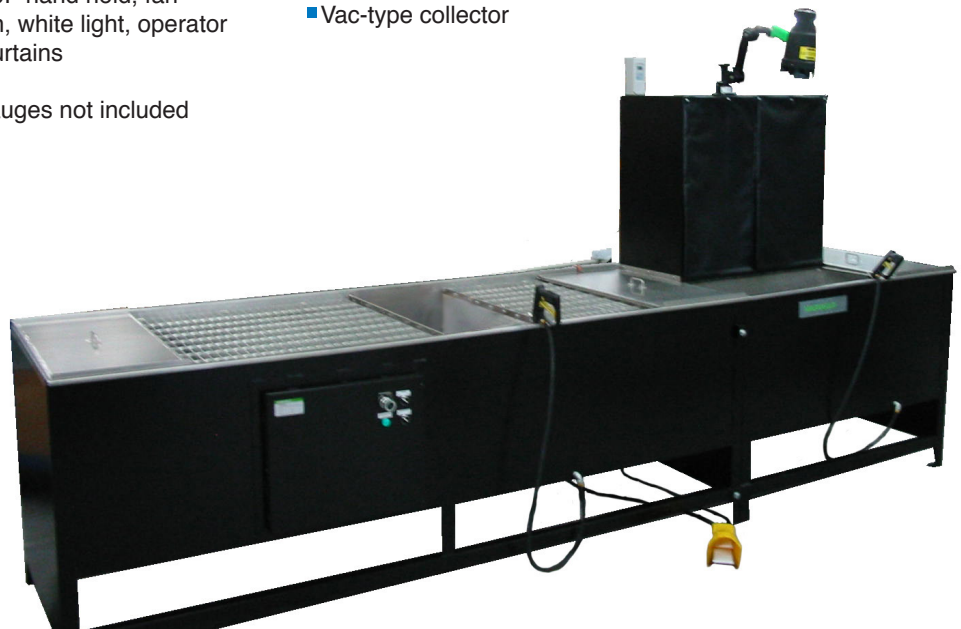
- Electrical Requirements: 230V or 460V, 60Hz, Single Phase
- Tank Size: 15 ¾" L x 33" W x 14 ¾" D
- Tank Capacity: 27 Gallon
- Dryer: Calibratable Temperature Controller
- Black Light: Zygro® ZB-100F Handheld, Fan-Cooled, 100 Watt
- Stations: Penetrant, Drain #1, Pre-Rinse, Drain #2, Remover, Rinse, Dryer, Developer, Inspection

OPTIONAL FEATURES

- #609178-P Aluminum drop-on lid for a tank
- #522159 Automatic rotary wash for rinse station
- Settable timer
- Uses 12" baskets only that are provided with system
- Manual touch up rinse spray gun provided for after cycle is complete
- #522072 Swirl Cloud Developer Upgrade Kit
- Hinged tank cover with view port
- Air manifold
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector

OR

- #522084 Dynamic Cloud Developer Upgrade Kit
- Hinged tank cover with view port
- Modified pressure pot
- Air pressure regulator and gage
- Foot pedal air valve
- In-take mounted pre-filter
- Vac-type collector



ZY-2436 POST EMULSIFIED HYDROPHILIC FLUORESCENT PENETRANT INSPECTION SYSTEM (230V/60HZ/1PH) / (460V/60HZ/3PH)

PART NUMBER 522113 / PART NUMBER 522074

List of Stations Included in the System:

Penetrant Dip Tank Station
Penetrant Drain/Dwell Station
Tank-Type Pre-Rinse Spray Station
Remover Dip Tank Station
Tank-Type Final Rinse Station
Drain Station
Top-Load Dryer Station
Rest Station
Top-Load Swirl Cloud Developer Station
Free Standing Inspection Booth Station

Penetrant Dip Tank Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 32" D (26" deep with Optional Work Platform)
- Heavy gauge stainless steel tank
- Steel framework
- Protective hinged tank cover, aluminum
- Epoxy external finish
- ¾" NPTF drain fitting, located bottom center, plugged

Penetrant Drain/Dwell Station

Features:

- Dimensions: 36" L x 24" W x 10" D
- Dimensions @ work surface: 33" L x 21" W x 36" H
- Stainless steel drain pan
- Aluminum grating work surface
- Integrated drip caps between Drain station and adjacent stations
- ¾" NPTF drain fitting, located bottom center
- Attaches to and is supported by adjacent stations

Tank-Type Pre-Rinse Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 26" H (tank rim to standard work platform)
- Heavy gauge stainless steel tank
- Steel framework
- Hand-held hose with spray nozzle
- ¼" NPT water connection, rear of station
- Epoxy external finish
- Aluminum grating work surface
- ¾" NPTF drain fitting, located bottom center

Remover Dip Tank Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 26" H (tank rim to standard work platform)
- Heavy gauge stainless steel tank
- Steel framework

- Protective hinged tank cover, aluminum
- Epoxy external finish
- ¾" NPTF drain fitting, located bottom center, plugged
- Stainless steel grating work surface
- Air agitation manifold with front-mounted control valve

Tank-Type Final Rinse Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 26" H (tank rim to standard work platform)
- Heavy gauge stainless steel tank
- Steel framework
- Hand-held hose with spray nozzle
- ¼" NPT water connection, rear of station
- Epoxy external finish
- Aluminum grating work surface
- ¾" NPTF drain fitting, located bottom center

Drain Station

Features:

- Dimensions: 36" L x 24" W x 10" D
- Dimensions @ work surface: 33" L x 21" W x 36" H
- Stainless steel drain pan
- Aluminum grating work surface
- Integrated drip caps between Drain station and adjacent stations
- ¾" NPTF drain fitting, located bottom center
- Attaches to and is supported by adjacent stations

Top Load Dryer Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 22" H (tank rim to standard work platform)
- Top loading station
- Steel framework
- Heavy gauge steel panels
- Insulated interior panels with heat reflective surfaces
- Removable fans and heater elements
- Digital thermostat
- On/off switch
- Pilot light
- Aluminum grating work surface
- Air circulation fans

Rest Station

Features:

- Dimensions: 36" L x 24" W x 10" D
- Dimensions @ work surface: 33" L x 21" W x 36" H
- Steel dust pan
- Aluminum grating work surface
- Integrated drip caps between Rest station and adjacent stations
- Attaches to and is supported by adjacent stations

Top Load Swirl Cloud Dry Developer Station

Features:

- Outside dimensions: 36" L x 24" W x 36" H
- Inside dimensions: 33" L x 21" W x 26" H (tank rim to standard work platform)
- Heavy gauge steel tank
- Steel framework
- Hinged cover, aluminum.
- Epoxy internal and external finish
- Built-in dust collector
- View-port for in cover
- ¼" NPT air inlet, rear of station
- Filter/regulator with pressure gauge
- Foot pedal air valve
- Powder agitation manifold
- Filtered make-up air inlet
- Rear-mounted vac-type dust collector
- Electrical Requirement: 115 volt, 60 hertz, single phase facility power
- Air Requirement: 30 psi shop air line

Free Standing Inspection Booth Station

Features:

- Outside dimensions: 36" L x 60" W (includes 24" from unit to curtain) x 83" H
- Inside dimensions: 36" L x 36" W x 36" H
- Structural steel framework
- Epoxy external finish
- Black melamine work surface
- Full length (4" above floor), flame resistant curtains
- Roof mounted combination of ventilating fan/white light
- Duplex GFI receptacle mounted at the rear of the table
- One (1) ZB-100F hand held, fan cooled, 100 watt black light
- Roof mounted black light receptacle, controlled by panel switch
- Control panel with switches for black light, white light, and ventilating fan
- Electrical Requirement: 115 volt, 60 hertz, single phase facility power

OPTIONAL FEATURES

- #522089 Aluminum grating work platform for tank-type station
NOTE: This is only a quantity of one for one station.
- #522111 Manually operated (foot pedal) Dynamic Cloud Developer Kit, installed in place of the Swirl Cloud system in the Top Load Swirl Cloud Dry Developer Station
 - Modified pressure pot
 - Required hoses
 - Air regulator and gage
 - Foot pedal air valve
 - In-take mounted pre-filter
 - Electrical Requirement: 115 volts, 60 hertz, single phase power
- #522131 Canopy Enclosure for Rinse Station
 - Add solid roof and back wall, split curtains on each side for part entry/exit
 - Two foot tubular black light mounted to the roof with an on/off switch
 - Overhang (36" L x 24" W) that is located on front side of station with ½ length curtains
 - Electrical Requirement: 115 volts, 60 hertz, single phase
- #522146 Water/Temperature gauges added to Rinse Station
 - Gauges located on front of station below work surface





ZY-2436 STAND ALONE INSPECTION BOOTH STATION

PART NUMBER 608363

FEATURES

- Outside dimensions: 36" L x 60" W (includes 24" from unit to curtain) x 83" H
- Inside dimensions: 36" L x 36" W x 36" H
- Structural steel framework
- Epoxy external finish
- Black melamine work surface
- Full length (4" above floor), flame resistant curtains
- Roof mounted combination of ventilating fan/white light
- Duplex GFI receptacle mounted at the rear of the table
- One (1) ZB-100F hand held, fan cooled, 100 watt black light
- Roof mounted black light receptacle, controlled by panel switch
- Control panel with switches for black light, white light, and ventilating fan
- Electrical Requirement: 115 volt, 60 hertz, single phase facility power



BUILD YOUR OWN SYSTEM : ZY-4848 COMPONENTS

BENEFITS

- 304 Stainless steel tanks (16 gauge)
- Designing equipment with material knowledge
- 3 years warranty on Zyglo equipment
- Global Authorized Service Centers
- History of providing durable and quality equipment worldwide
- Available for all NDT needs from equipment to materials

ZY-4848 PENETRANT DIP TANK STATION

PART NUMBER 522171

Outside Dimensions: 48" L x 48" W x 36" H
Inside Working Dimensions: 44" L x 44" W x 26" H (measured from grate to tank rim)

- Standard Features
 - Structural steel frame
 - Stainless steel tank
 - Drain valve
- Lid
 - Bi-fold cover that retracts backwards
- Work Surface
 - Aluminum grate
- Pass Height: 36"

ZY-4848 PENETRANT TABLE TOP SPRAY STATION

PART NUMBER 522172

Outside Dimensions: 48" L x 48" W x 85" H
Inside Working Dimensions: 44" L x 44" W x 43" H (measured from grate to roof)

- Standard Features
 - Structural steel frame
 - Stainless steel drain pan & tank
 - Stainless steel back splash
 - Stainless steel baffle type pre-filter
 - Mist collection plenum
- Access
 - Solid roof and back wall
 - Split curtains located on each side for part entry/exit from the station
 - Canopy overhang (48" L x 24" W) that extends on the front side of the station with ½ length curtains to provide darkened area for operator to stand in
- Work Surface
 - Aluminum grate
- Pass Height: 36"
- Spray System
 - Standard Features
 - Self priming penetrant pump, delivers material from a five gallon can or drum
 - Regulator and gauge for penetrant control
 - Regulator and gauge for air control
 - Sprayer Type
 - HVLP Spray System
 - Operator Interface
 - Manual Spray System
- Additional Features
 - UV Light
 - Two-two foot tubular overhead black lights with on/off switch
 - Mist collector with on/off switch
 - Cartridge type secondary and primary filter
 - Penetrant drain and collection
 - Filter airflow gauge
 - Hepa filter will allow discharge to the room
 - Safety interlock, prevents gun use without mist collector
- Electrical Requirement: 230 volts, 60 hertz, single phase power
 - Electrical cabinet mounted on back wall of station
- Air Line Required: 40 PSI

ZY-4848 RINSE DIP TANK STATION

PART NUMBER 522173

Outside Dimensions: 48" L x 48" W x 36" H
Inside Working Dimensions: 44" L x 44" W x 26" H (measured from grate to tank rim)

- Standard features
 - Structural steel frame
 - Stainless steel tank
 - Manual hand held spray gun and hose
 - Water pressure regulator and gauge
 - Water shut off valve
 - Drain valve
- Work Surface
 - Aluminum grate
- Pass Height: 36"
- Additional Features
 - Water temperature gauge
- Water Line Required: 40 PSI

ZY-4848 RINSE TABLE TOP SPRAY STATION

PART NUMBER 522175

Outside Dimensions: 48" L x 48" W x 85" H
Inside Working Dimensions: 44" L x 44" W x 43" H (measured from grate to roof)

- Standard Features
 - Structural steel frame
 - Stainless steel tank
 - Manual hand held spray gun and hose
 - Water pressure regulator and gauge
 - Water shut off valve
 - Drain valve
- Access
 - Solid roof and back wall
 - Split curtains located on each side for part entry/exit from the station
 - Canopy overhang (48" L x 24" W) that extends on the front side of the station with ½ length curtains to provide darkened area for operator to stand in
- Work Surface
 - Aluminum grate
- Pass Height: 36"
- Additional Features
 - UV Light
 - Two-two foot tubular overhead black lights with on/off switch
 - Water temperature gauge
- Electrical Requirement: 115 volts, 60 hertz, single phase power
 - Electrical cabinet mounted on back wall of station
- Water Line Required: 40 PSI

ZY-4848 REMOVER/WET DEVELOPER DIP TANK STATION PART NUMBER 522177

Outside Dimensions: 48" L x 48" W x 36" H
Inside Working Dimensions: 44" L x 44" W x 26" H (measured from grate to tank rim)

- Standard Features
 - Structural steel frame
 - Stainless steel tank
 - Drain valve
 - Air pressure regulator and gauge
- Lid
 - Bi-fold cover that retracts backwards
- Work Surface
 - Stainless steel grate
- Pass Height: 36"
- Agitation System
 - Air
 - Perforated tubing on bottom of tank
 - Lever to turn agitation on/off
- Air Line Required: 40 PSI

ZY-4848 TUNNEL TYPE DRYER STATION PART NUMBER 522178

Outside Dimensions: 48" L x 48" W x 85" H
Inside Working Dimensions: 44" L x 44" W x 43" H (measured from grate to roof)

- Standard Features
 - Structural steel frame
 - Heavy gauge steel panels
 - Insulated double wall construction
 - Easy to change electric heating elements
 - Splash shield protects elements
 - High volume fans for maximum circulation
 - Convenient front mounted control panel
 - Digital calibratable controller (maximum 160 degrees Fahrenheit)
- Access
 - Solid roof, front, and back walls
 - Split curtains located on each side for part entry/exit from the station
- Work Surface
 - Aluminum grate
 - Expanded metal under grate protects fans and elements
- Pass Height: 36"
- Electrical Requirement: 460 volts, 60 hertz, single phase power
 - Electrical cabinet mounted on back wall of station

ZY-4848 TUNNEL TYPE DYNAMIC CLOUD DRY DEVELOPER STATION PART NUMBER 522180

Outside Dimensions: 48" L x 48" W x 85" H (125" H to top of open door)
Inside Working Dimensions: 44" L x 44" W x 43" H (measured from grate to roof)

- Standard Features
 - Structural steel frame
 - Heavy gauge steel panels
 - All functions are fully adjustable
 - Air pressure regulator and gauge
- Developer Type
 - Dynamic-One time Use Powder
 - Powder Canister
 - Injector Nozzle
- Access
 - Solid roof, front, and back walls
 - Manually vertically rising counter balanced doors for part entry/exit from the station
- Work Surface
 - Aluminum grate
- Pass Height: 36"
- Dust Collector
 - Integrated with system
- Additional Features
 - Hepa Filter Output from Dust Collector
 - One button, automatic cycle
 - Viewing window located on the front side of the station
 - White light located on the roof with on/off switch
- Electrical Requirement: 115 volts, 60 hertz, single phase power
 - Electrical cabinet mounted on back wall of station
- Air Line Required: 40 PSI

ZY-4848 INSPECTION BOOTH STATION PART NUMBER 522182

Outside Dimensions: 48" L x 68" W (includes 24" from work surface to curtains) x 88" H
Inside Working Dimensions: 48" L x 44" W x 36" H

- Standard Features
 - Structural steel frame
 - Roof mounted white light
 - High volume ventilation fan
 - Convenient controls for white light, fan, and black light
 - ZB-100F 100 watt handheld fan cooled black light
 - Swivel arm black light mount
- Access
 - Flame resistant curtain enclosure
 - Floor length curtains
 - Splits curtains located on each side for part entry/exit
 - Split curtain located on front side for operator entry/exit
- Work Surface
 - HDF table top
- Pass Height: 36"
- Electrical Requirement: 115 volts, 60 hertz, single phase power
 - Electrical cabinet mounted on back wall of station

ZY-4848 DRAIN STATION PART NUMBER 522184

Outside Dimensions: 48" L x 48" W x 36" H

- Standard Features
 - Structural steel frame
- Work Surface
 - Aluminum grate

- Pass Height: 36"
- Station Type
 - Drain
 - Stainless steel drain pan
 - Drain Nipple
- Station Shape
 - Straight
- Station Support
 - Self supporting

ZY-4848 90 DEGREE DRAIN STATION PART NUMBER 522185

Outside Dimensions: 48" W x 36" H

- Standard Features
 - Structural steel frame
- Work Surface
 - Aluminum grate
- Pass Height: 36"
- Station Type
 - Drain
 - Stainless steel drain pan
 - Drain Nipple
- Station Shape
 - 90 Degree
- Station Support
 - Self supporting

ZY-4848 REST STATION PART NUMBER 522186

Outside Dimensions: 48" L x 48" W x 36" H

- Standard Features
 - Structural steel frame
- Work Surface
 - Aluminum grate
- Pass Height: 36"
- Station Type
 - Rest
- Station Shape
 - Straight
- Station Support
 - Self supporting

ZY-4848 90 DEGREE REST STATION PART NUMBER 522187

Outside Dimensions: 48" W x 36" H

- Standard Features
 - Structural steel frame
- Work Surface
 - Aluminum grate
- Pass Height: 36"
- Station Type
 - Rest
- Station Shape
 - 90 Degree
- Station Support
 - Self supporting

OPTIONAL FEATURES

1) Power Immersion System Description

- Outside width dimension increases from 48" to 53" to keep inside working width at 44"
- Inside working height reduces from 26" to 24"
 - Work Surface
 - Corrosion resistant 2" diameter rollers on 4" centers
 - Vertical Movement
 - Manual Pneumatic Valve
 - Air Line Required: 100 PSI

- For Penetrant Dip Tank Station (#522191)
- For Penetrant Table Top Spray Station (#52292)
- For Rinse Dip Tank Station (#522193)
- For Rinse Table Top Spray Station (#522194)
- For Remover/Wet Developer Dip Tank Station (#522195)

2) Manual vertically rising counter balanced doors in lieu of split curtains for part entry/exit from the station

- Outside height dimension increases to 125" when doors completely open
- For Penetrant Table Top Spray Station (#522196)
- For Rinse Table Top Spray Station (#522197)
- For Tunnel Type Dryer Station (#522198)
- For Inspection Booth Station (#522199)

3) Spit Roof

- Split roof with brush seals (slit in roof 6" wide)
- For Penetrant Table Top Spray Station (#522200)
- For Rinse Table Top Spray Station (#522201)
- For Tunnel Type Dryer Station (#522202)
- For Tunnel Type Dynamic Cloud Dry Developer Station (#522203)
- For Inspection Booth Station (#522204)

4) Roller Work Surface, 2" diameter rollers on 4" centers in lieu of aluminum grate

- For Penetrant Table Top Spray Station (#522205)
- For Drain Station (#522206)
- For 90 Degree Drain Station (#522207)
- For Rinse Table Top Spray Station (#522208)
- For Tunnel Type Dryer Station (#522209)
- For Rest Station (#522210)
- For 90 Degree Rest Station (#522211)
- For Tunnel Type Dynamic Cloud Dry Developer Station (#522212)
- For Inspection Booth Station (#522213)



LIQUID PENETRANT INSPECTION ACCESSORIES AND MATERIALS

LIQUID PENETRANT INSPECTION ACCESSORIES

HAND SPRAYERS

Water Spray Gun

For pre and post rinsing of parts using either the water-wash or post-emulsified processes.

- Provides optimal coarse spray to help prevent part over-washing

Part Number: 520090 Water Spray Gun



TEST BLOCKS

Aluminum Test Block

The Aluminum Test Block is an aluminum test piece measuring 3" x 2" x 3/8" with a 1/8" wide groove that splits the face in half. The test block is used to check the strength of "in-use" penetrants. This is done by processing one half of the block with "used" penetrant, and the other half with "fresh" penetrant.

Part Number: 14755 Aluminum Test Block



Specifications Compliance: Complies with ASTM E 165 and ASME Boiler and Pressure Vessel Code.

Stainless Steel Test Block

The stainless steel test block offers a simple and convenient comparator for monitoring the washability of water-wash or post-emulsified penetrants. The "grit blasted" finish provides a rough surface which will retain fluorescent background when the in-use penetrant has decreased when compared to fresh (unused) penetrant. The test block should be thoroughly cleaned with SKC-S Cleaner/Remover, as well as periodically refinished grit blast.

Part Number: 154400 Stainless Steel Test Block



Specifications Compliance: Complies with ASTM E 165.

CRACK COMPARATORS

Inch and Metric Crack Comparators

Magnaflux crack comparators are used to measure the actual size of indications identified during the liquid penetrant inspection process.

General Purpose Comparator

Part Number: 514048

Measures indications in increments between .005" and 0.125"

General Purpose Metric Comparator

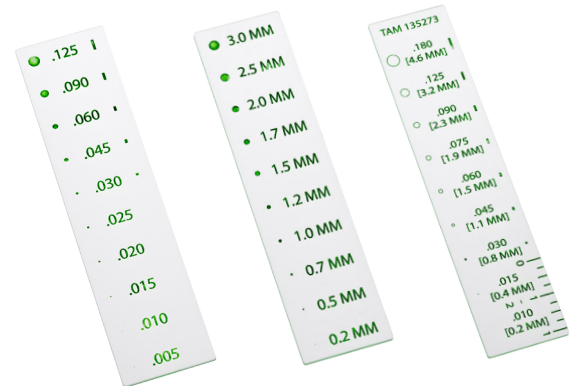
Part Number: 514049

Measures indications in increments between 0.2mm and 3.0mm

Pratt & Whitney Crack Comparator

Part Number: 514050

Measures indications in increments between 0.010" and 0.180" and meets Pratt & Whitney requirements (P&W Reference - TAM 135273)



TEST PANELS

NiCr Penetrant Test Panels

Magnaflux NiCr test panels are ideal penetrant sensitivity comparators. They come in pairs, with panel set crack depths available in 10, 20, 30 and 50 microns. NiCr test panels allow "in use" Zyglo penetrants to be compared against "new, unused" product to determine if the penetrant is performing properly.

Dimensions: Length 100mm + 2mm X Width 35mm + 2mm X Thickness 2mm + 0.2mm



TAM Panel / Z5 Test Panel

The Magnaflux TAM Panel (Pratt and Whitney TAM #146040) monitors both sensitivity and washability of Zyglo liquid penetrants. The test panel is meant to detect "sudden" penetrant system changes and to ascertain that all parts of the penetrant processing system are functioning in the proper manner.

Part Number: 198055 TAM Panel / Z5 Test Panel

Specifications Compliance: Meets Pratt and Whitney TAM #146040 specifications.



KDS Panel

The KDS Panel is a Known Defect Standard used for daily system performance analysis. The test panel is used to monitor a penetrant system for sudden changes, similar to a TAM panel.

Part Number: 625557 KDS Panel

Specifications Compliance: Meets ASTM E1417/E1417M-11e1, AMS 2647D and AMS 2644E specifications.



TIMERS & MONITORING DEVICES

Hydrometer

Water Based Developers such as ZP-5B Water Suspensible Developer and ZP-14A Water Soluble Developer are designed for optimum performance within a specific concentration range. To control the concentration, the specific gravity is measured using the Magnaflux Hydrometer. If the hydrometer reading is high, the concentration is high and water is generally added. If the reading is low, developer is added to the bath.

Part Number: 5857 Magnaflux Hydrometer



Refractometer

A refractometer is an easy to use laboratory or field device used to measure the concentration of the Hydrophilic Remover (ZR-10B) in water and is required to meet Pratt and Whitney and GE concentration specifications for hydrophilic removers. A chart for converting refractive index to percent concentration of ZR-10B can be found and is available for downloading on the Magnaflux website.

Part Number: 513829 Refractometer

Specifications Compliance: Meets Pratt & Whitney and GE specifications.



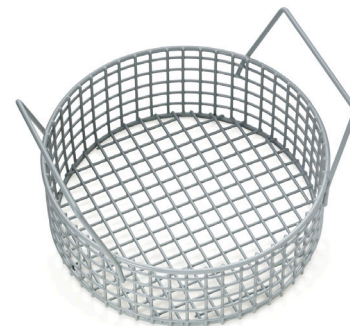
MISCELLANEOUS ACCESSORIES

Wire Basket

Sturdy 12" diameter wire mesh basket designed to enable processing of numerous small parts at one time.

- Epoxy coated mesh protects parts from scratching

Part Number: 1962 Wire Basket



LIQUID PENETRANT INSPECTION MATERIALS

METHOD A WATER WASHABLE FLUORESCENT PENETRANTS

Zygro ZL-15B Water Washable Fluorescent Penetrant

Zygro ZL-15B is a water washable fluorescent penetrant that is safe for use on most engineering and aerospace alloys including aluminum, steel, nickel and titanium. Zygro ZL-15B fluoresces bright greenish-yellow under an ultraviolet light source with a peak wavelength of 365 nm. It possesses a high flash point and meets OSHA requirements for Class III B liquids allowing it to be used in open dip tanks.

Specification Compliance: AMS 2644, AECL, ASME B & PV Code Sec. V, ASTM E1417, MIL-STD-2132, ASTM E165, MIL-STD-271, Boeing BAC 5423 PSD 6-46 or 8-4, AECL, Boeing PS 21202.

Applications: Zygro ZL-15B exhibits excellent rough surface washability and is typically used on castings, forgings, extrusions and rough machined surfaces to find cracks, seams, laps, cold shuts, laminations and porosity.

Classification: Type 1, Method A, Water Washable (Non Water Based) Penetrant.

Penetrant Sensitivity Level: Level 1/2 - Very Low Sensitivity.

Part Number & Container Size:

01-3159-30 20 Gal. Drum
01-3159-45 55 Gal. Drum

Zygro ZL-19 Water Washable Fluorescent Penetrant

Zygro ZL-19 is a water washable fluorescent penetrant that is safe for use on most engineering and aerospace alloys including aluminum, steel, nickel and titanium. Zygro ZL-19 fluoresces bright greenish-yellow under an ultraviolet light source with a peak wavelength of 365 nm. It possesses a high flash point and meets OSHA requirements for Class III B liquids allowing it to be used in open dip tanks.

Specification Compliance: AMS 2644, AECL, ASME B & PV Code Sec. V, ASTM E1417, MIL-STD-2132, ASTM E165, MIL-STD-271, Boeing BAC 5423 PSD 6-46 or 8-4, AECL, Boeing PS 21202.

Applications: Zygro ZL-19 exhibits excellent rough surface washability and is typically used on castings, forgings, extrusions and rough machined surfaces to find cracks, seams, laps, cold shuts, laminations and porosity.

Classification: Type 1, Method A, Water Washable (Non Water Based) Penetrant.

Penetrant Sensitivity Level: Level 1 - Low Sensitivity.

Part Number & Container Size:

01-3263-30 20 Gal. Drum
01-3263-45 55 Gal. Drum

Zygro ZL-60D Water Washable Fluorescent Penetrant

Zygro ZL-60D is a water washable fluorescent penetrant that is safe for use on most engineering and aerospace alloys including aluminum, steel, nickel and titanium. Zygro ZL-60D fluoresces bright greenish-yellow under an ultraviolet light source with a peak wavelength of 365 nm. It possesses a high flash point and meets OSHA requirements for Class III B liquids allowing it to be used in open dip tanks.

Specification Compliance: AMS 2644, AECL, ASME B & PV Code Sec. V, ASTM E1417, MIL-STD-2132, ASTM E165, MIL-STD-271, Boeing BAC 5423 PSD 6-46 or 8-4, AECL, Boeing PS 21202.

Applications: Zygro ZL-60D exhibits excellent rough surface washability and is typically used on castings, forgings, extrusions and rough machined surfaces to find cracks, seams, laps, cold shuts, laminations and porosity.

Classification: Type 1, Method A, Water Washable (Non Water Based) Penetrant.

Penetrant Sensitivity Level: Level 2 - Medium Sensitivity.

Part Number & Container Size:

01-3272-30 20 Gal. Drum
01-3272-45 55 Gal. Drum

Zygro ZL-67 Water Washable Fluorescent Penetrant

Zygro ZL-67 is a water washable fluorescent penetrant that is safe for use on most engineering and aerospace alloys including aluminum, steel, nickel and titanium. Zygro ZL-67 fluoresces bright greenish-yellow under an ultraviolet light source with a peak wavelength of 365 nm. It possesses a high flash point and meets OSHA requirements for Class III B liquids allowing it to be used in open dip tanks.

Specification Compliance: AMS 2644, AECL, ASME B & PV Code Sec. V, ASTM E1417, MIL-STD-2132, ASTM E165, MIL-STD-271, Boeing BAC 5423 PSD 6-46 or 8-4, AECL, Boeing PS 21202.

Applications: Zygro ZL-67 is typically used on critical applications including investment castings, jet engine components, and highly machined surfaces to find cracks, seams and porosity.

Classification: Type 1, Method A, Water Washable (Non Water Based) Penetrant.

Penetrant Sensitivity Level: Level 3 - High Sensitivity.

Part Number & Container Size:

01-3274-30 20 Gal. Drum
01-3274-45 55 Gal. Drum

Zygro ZL-56 Water Washable Fluorescent Penetrant

Zygro ZL-56 is a water washable fluorescent penetrant that is safe for use on most engineering and aerospace alloys including aluminum, steel, nickel and titanium. Zygro ZL-56 fluoresces bright greenish-yellow under an ultraviolet light source with a peak wavelength of 365 nm. It possesses a high flash point and meets OSHA requirements for Class III B liquids allowing it to be used in open dip tanks.

Specification Compliance: AMS 2644, AECL, ASME B & PV Code Sec. V, ASTM E1417, MIL-STD-2132, ASTM E165, MIL-STD-271, Boeing BAC 5423 PSD 6-46 or 8-4, AECL, Boeing PS 21202.

Applications: Zygro ZL-56 is typically used on smooth, nonporous, highly machined surfaces to find cracks, seams and scratches on critical parts.

Classification: Type 1, Method A, Water Washable (Non Water Based) Penetrant.

Penetrant Sensitivity Level: Level 4 - Ultra High Sensitivity.

Part Number & Container Size:

01-3267-30 20 Gal. Drum

01-3267-45 55 Gal. Drum



METHODS B & D - FLUORESCENT PENETRANTS

Zygro ZL-2C Post Emulsifiable Fluorescent Penetrant

Zygro ZL-2C is designed to be impervious to water to protect it from overwashing and to allow more penetrant to remain in discontinuities for improved detection of small defects. It and other post emulsifiable penetrants require the application of a lipophilic or hydrophilic emulsifier to render them washable with water. Zygro ZL-2C fluoresces bright greenish-yellow under an ultraviolet light source with a peak wavelength of 365 nm. It possesses a high flash point and meets OSHA requirements for Class III B liquids allowing it to be used in open dip tanks.

Specification Compliance: AMS-2644, AECL, ASME B & PV Code Sec. V, ASTM E1417, MIL-STD-2132, ASTM E165, MIL-STD-271.

Applications: Zygro ZL-2C is typically used on castings, forgings, extrusions and rough machined surfaces to find cracks, seams, laps, laminations and porosity.

Classification: Type 1, Method B Penetrant when using ZE-4B emulsifier. Type 1, Method D Penetrant when using ZR-10B (20%) remover.

Penetrant Sensitivity Level: Level 2 - Normal Sensitivity.

Part Number & Container Size:

01-3123-30 20 Gal. Drum

01-3123-45 55 Gal. Drum

Zygro ZL-27A Post Emulsifiable Fluorescent Penetrant

Zygro ZL-27A is designed to be impervious to water to protect it from overwashing and to allow more penetrant to remain in discontinuities for improved detection of small defects. It and other post emulsifiable penetrants require the application of a lipophilic or hydrophilic emulsifier to render them washable with water. Zygro ZL-27A fluoresces bright greenish-yellow under an ultraviolet light source with a peak wavelength of 365 nm. It possesses a high flash point and meets OSHA requirements for Class III B liquids allowing it to be used in open dip tanks.

Specification Compliance: AMS 2644, AECL, ASME B & PV Code Sec. V, ASTM E1417, MIL-STD-2132, ASTM E165, MIL-STD-271, Boeing BAC 5423 PSD 6-46 or 8-4, AECL, Boeing PS 21202.

Applications: Zygro ZL-27A is typically used on castings, forgings, extrusions and rough machined surfaces to find cracks, seams, laps, laminations and porosity.

Classification: Type 1, Method B Penetrant when using ZE-4B emulsifier. Type 1, Method D Penetrant when using ZR-10B (20%) remover.

Penetrant Sensitivity Level: Level 3 - High Sensitivity.

Part Number & Container Size:

01-3187-30 20 Gal. Drum
 01-3187-45 55 Gal. Drum

Zygro ZL-37 Post Emulsifiable Fluorescent Penetrant

Zygro ZL-37 is designed to be impervious to water to protect it from overwashing and to allow more penetrant to remain in discontinuities for improved detection of small defects. It and other post emulsifiable penetrants require the application of a lipophilic or hydrophilic emulsifier to render them washable with water. Zygro ZL-37 fluoresces bright greenish-yellow under an ultraviolet light source with a peak wavelength of 365 nm. It possesses a high flash point and meets OSHA requirements for Class III B liquids allowing it to be used in open dip tanks.

Specification Compliance: AMS 2644, AECL, ASME B & PV Code Sec. V, ASTM E1417, MIL-STD-2132, ASTM E165, MIL-STD-271, Boeing BAC 5423 PSD 6-46 or 8-4, AECL, Boeing PS 21202.

Applications: Zygro ZL-37 is ideal for titanium turbine components, investment castings, and other high stress critical components where detection of fine, tight discontinuities is required.

Classification: Type 1, Method B Penetrant when using ZE-4B emulsifier. Type 1, Method D Penetrant when using ZR-10B (20%) remover.

Penetrant Sensitivity Level: Level 4 - Ultra High Sensitivity.

Part Number & Container Size:

01-3188-30 20 Gal. Drum
 01-3188-45 55 Gal. Drum

**DEVELOPERS****Zygro ZP-4B Dry Powder Developer**

Zygro ZP-4B is supplied ready to use, forming a thin film on parts that enhances indications of ultra fine discontinuities. Its high purity allows it to be used in applications where purity is critical to the testing process.

Specification Compliance: AMS 2644, MIL-STD-271, ASME B & PV Code Sec. V, ASTM E165, Boeing BAC 5423 PSD 6-46 or 8-4, MIL-STD-2132, ASTM E1417, Boeing PS 21202, AECL, Honeywell EMS 52309, AMS 2647, General Electric P3TF2, Pratt & Whitney.

Applications: Zygro ZP-4B is typically used on automobile parts, off-road equipment, farm equipment, welds, castings, forgings, leak testing, pressure vessels, aircraft, marine, construction, maintenance, petroleum pipelines, power plant inspections and general metalwork.

Classification: Form a - Dry Powder Developer.

Part Number & Container Size:

01-3328-75 20 lb. Container

Zygro ZP-5B Water Suspending Developer

Zygro ZP-5B Water Suspending Developer disperses quickly in water to form an opaque white suspension. At higher concentrations, Zygro ZP-5B forms an opaque white coating which provides contrasting background for Spotcheck penetrant indications.

Specification Compliance: AMS 2644, MIL-STD-271, ASME B & PV Code Sec. V, ASTM E165, Boeing BAC 5423 PSD 6-46 or 8-4, MIL-STD-2132, ASTM E1417, Boeing PS 21202, AECL, AMS 2647, General Electric P3TF2.

Applications: Zygro ZP-5B is typically used on automobile parts, off-road equipment, farm equipment, welds, castings, forgings, leak testing, pressure vessels, aircraft, marine, construction, maintenance, petroleum pipelines, power plant inspections and general metalwork.

Classification: Form c - Water Suspending Developer.

Part Number & Container Size:

01-3341-81 25 lb. Pail

Zygro ZP-9F Developer

Zygro ZP-9F is a dispersion of organic particles in isopropyl alcohol and acetone that produces an opaque white coating which provides an excellent contrasting background for Spotcheck or Zygro penetrant indications.

Specification Compliance: AMS 2644, MIL-STD-271, ASME B & PV Code Sec. V, ASTM E165, ASTM E1417, Boeing PS 21202, AECL, AMS 2647, NAVSEA 250-1500-1.

Applications: Zygro ZP-9F is typically used on automobile parts, off-road equipment, farm equipment, welds, castings, forgings, leak testing, pressure vessels, aircraft, marine, construction, maintenance, petroleum pipelines, power plant inspections and general metalwork.

Classification: Form d - Non-Aqueous Type 1 Fluorescent (solvent based). Form e - Non-Aqueous Type 2 Visible Dye (solvent based).

Part Number & Container Size:
01-3354-40 5 Gal. Pail

Also available in 16 oz. aerosol cans.

PENETRANT TESTING MATERIALS

Zygro ZP-14A Aqueous Soluble Developer

Zygro ZP-14A is used as a water soluble developer for enhancing indications formed by Zygro penetrants. It produces a uniform white coating when dry which is easily removed in post inspection cleaning by water spray. Once the developer bath has been prepared, now in use agitation is required to maintain developer uniformity.

Specification Compliance: AMS 2644, MIL-STD-271, ASME B & PV Code Sec. V, ASTM E165, ASTM E1417, Boeing BAC-5423 PSD 6-46 or 8-4, AMS 2647, General Electric P3TF2, AECL.

Applications: Zygro ZP-14A is recommended for use with Zygro ZL-2C, ZL-27A, and ZL-37 penetrants.

Classification: Form b - Water Soluble Developer.

Part Number & Container Size:
01-3381-89 50 lb. Container



METHOD B - LIPOPHILIC EMULSIFIER

Zygro ZE-4B Lipophilic Emulsifier

Zygro ZE-4B is a lipophilic emulsifier. It is non-corrosive and can be used in open tank operations due to its low volatility and high flash point.

Specification Compliance: AMS 2644, MIL-STD-271, ASME B & PV Code Sec. V, ASTM E165, Boeing BAC 5423 PSD 6-46 or 8-4, MIL-STD-2132, ASTM E1417, Boeing PS 21202, AECL.

Applications: Zygro ZE-4B is used as a Method B lipophilic emulsifier for Magnaflix post emulsifiable penetrants.

Classification: Method B - Lipophilic Emulsifier.

Part Number & Container Size:
01-3546-30 20 Gal. Drum
01-3546-45 55 Gal. Drum

METHOD D - HYDROPHILIC EMULSIFIER

Zygro ZR-10B Hydrophilic Emulsifier

Zygro ZR-10B is a hydrophilic emulsifier. It offers the advantages of minimization of fluorescent background on rough surfaces, minimization of bleed-out from hollow parts, and reduced consumption of expendable materials.

Specification Compliance: AMS 2644, MIL-STD-271, ASME B & PV Code Sec. V, ASTM E165, Boeing BAC 5423 PSD 6-46 or 8-4, MIL-STD-2132, ASTM E1417, Boeing PS 21202, AECL, Honeywell EMS 52309, AMS 2647, General Electric P3TF2, Pratt & Whitney.

Applications: Zygro ZR-10B is used as a Method D hydrophilic emulsifier for Magnaflix post emulsifiable penetrants.

Classification: Method D - Hydrophilic Emulsifier.

Part Number & Container Size:
01-3620-30 20 Gal. Drum
01-3620-45 55 Gal. Drum





BLACK LIGHTS AND BLACK LIGHT ACCESSORIES

BLACK LIGHTS

UV LIGHTS

Magnaflux designs our UV lights to meet standard specifications first and foremost. Nevertheless, we do work for operator comfort. Magnaflux formulates and manufactures the materials to fluoresce at peak intensity of 365 nanometers. In turn, we take care to design our lights to have peak output at the same 365 nanometers, while filtering out the nonconforming light.

VIBRANCE EV5000 UV LED BLACK LIGHT

PART NUMBER 624673

The Magnaflux Vibrance® EV5000 UV LED Black Light has raised the bar for all other black lights on the market today.

The Vibrance EV5000® UV LED Black Light may not only be the best UV LED black light you ever buy, but the last as well. Individually tested and certified to a wavelength of 365 - 370nm, the Vibrance EV5000® Black Light offers an average bulb life of up to 50,000 hours, a radical new lightweight ergonomic design that is 30% lighter and 90% more energy efficient than traditional mercury vapor UV lights.

BENEFITS

- Multi-function latching power switch which allows for toggling between UV LEDs for Inspection and White Light for orientation
- Certified for wavelength of 365 - 370 nm
- Certified intensity 4800-5000 $\mu\text{W}/\text{cm}^2$ at 15 inches
- Each black light has an individually assigned serial number.
- Up to 50,000 hours LED bulb life
- Lightweight Ergonomic Design
- Upgraded Cable design with rugged over-molded connectors
- Universal power supply suitable for 110-240 VAC and 50-60 Hz.

SPECIFICATIONS

- UV Source: 4x high performance UV-LEDs
- UV-LED Bulb: Lifespan Approx. 50,000 hours
- Wavelength: 365-370 nm
- UVA Intensity: 5,000 microwatts/cm² @ 15"
- Surface Temp. of Lamp Housing: < 104 degrees F (40 degrees C)
- Power Supply: 110-240 VAC / 50-60 Hz
- Power Consumption: < 15W
- Output Spectrum: Narrow band UV-A, no visible light, UV-B, or UV-C generated
- Dimensions: 9.5" x 6.5" x 4"
- Weight: Approx. 2 lbs



ZB-100F FAN-COOLED UV BLACK LIGHT

PART NUMBERS

- 600005 ZB-100F 100 Watt 115V/60Hz/
- 621254 ZB-100F 100 Watt 220V/50Hz/
- 600004 ZB-100F 100 Watt 115V/60Hz/ with Portable Cart
- 621311 ZB-100F 100 Watt 220V/50Hz/ with Portable Cart
- 621312 ZB-100F 100 Watt 230V/60Hz/ with Portable Cart

One significant feature that separates the ZB-100F from other black lights – it has a built-in, quiet-operating DC fan located at the rear of the lamp housing. The advantage of this design feature is obvious – dramatically reduced running temperature. In practical terms, the fan-cooled ZB-100F means more comfort and safety for operators plus longer bulb life.

Because black lights are often hand-held during fluorescent inspections, the heat they create is an important consideration. The typical running temperature of the ZB-100F is less than 85 degrees Fahrenheit. It does not significantly raise the ambient temperature around the operator, nor is it a safety concern.

FEATURES

- 100 Watt reflective light source
- Fan cooled, cool to the touch
- 4000+ Microwatts/Centimeter Squared @ 15"
- White Light Emission, less than 1 foot candle @ 15"
- Weight of hand Held Light Only 3 Lbs (1.4 kg)
- 15 foot (4.6 m) cord from Lamp to Transformer
- 12 foot (3.7 m) cord from Transformer to Supply end
- Ground Fault Circuit Interrupt protection (110/115V only)
- Available voltages: 115v/60Hz, 220v/50Hz, 230v/60 Hz

BENEFITS

- Cool running for increased safety and comfort
- Extended bulb life for greater operating efficiency
- Polycarbonate bezel shields operator's hands from lens
- Cord-through-handle design reduces operator fatigue
- Rugged aluminum housing and reinforced fiberglass handle
- Recessed lens for bulb protection

SPECIFICATIONS

- Weight: Hand lamp with transformer - 12.5lbs
- Typical Output: 4,000 microwatts/cm² @ 15"
- Typical Visible Light: 10 Lux or 1 Foot Candle @ 15" (38cm)
- Bulb: 100 watts
- Running Temp: 85° F (30°C)
- Cord Length: Lamp to transformer - 15 feet
Main Cable Supply: 10 feet



ZB-100 F MB MAG SHOT BLACK LIGHT PART NUMBER 600086

We have taken our ZB-100F Fan-Cooled black light and added the convenience of energizing your Power Packs or Wet Benches REMOTELY, when checking for cracks in extra long parts. Our ZB-100F MB has a remote button integrated into the handle of the black light to eliminate the need to continuously return to the MPI Unit to initiate a mag shot.

FEATURES

- 100 Watt reflective light source
- Fan cooled, cool to the touch
- Cooler running means longer bulb life
- 4000+ Microwatts/Centimeter Squared @ 15"
- White Light Emission, less than 1 foot candle @ 15"
- Weight of hand Held Light Only 3 Lbs (1.4 kg)
- 25 foot (7.6 m) cord from Lamp to Transformer
- 10 foot (3.0m) cord from Transformer to Supply end
- Ground Fault Circuit Interrupt protection (110/115V only)
- Available voltages: 115v/60Hz, 220v/50Hz, 230v/60 Hz
- PLUS a button conveniently located in the handle, this button is ready to integrate into any of our standard MPI units to trigger the magnetizing current. Or, we can assist you in integrating the new black light into existing equipment.
- Running Temp: 85°F (30°C)

BENEFITS

- Operate MPI unit remotely
- Cool running for increased safety and comfort
- Extended bulb life for greater operating efficiency
- Polycarbonate bezel shields operator's hands from lens
- Cord-through-handle design reduces operator fatigue
- Rugged aluminum housing and reinforced fiberglass handle
- Recessed lens for bulb protection



Replacement Bulbs for Standard UV Black Lights

Magnaflux maintains a full inventory of high quality replacement bulbs for all of its standard black light equipment.

Part Number: 507320 - 100 Watt Medium Base Black Light Bulb. Replacement bulb for ZB-100F and ZB-100F-MB UV Black Lights. (single bulbs only sold to USA, Canada and Mexico)

Part Number: 625550 - Case of 12 (International customers must order by the case)



UV Black Light Filters

Magnaflux offers a smooth output filter designed to improve the operating range and performance of its UV black lights.

Part Number: 519227 - Smooth Filter Glass. Used with ZB-100F, ZB-100F-MB, and ZB-150F-SB UV Black Lights



ZB-150 FSB SELF-BALLASTED BLACK LIGHT

PART NUMBER 621135

The Magnaflux ZB-150F-SB Self-Ballasted UV Black Light offers the same outstanding performance as our popular ZB-100F fan cooled UV black light but is self-ballasted to avoid the need to pull along a transformer as inspections are being performed.

FEATURES

- 150 Watt, self ballasted, reflective light source
- Fan cooled, cool to the touch
- 4000+ Microwatts/Centimeter Squared @ 15"
- White Light Emission, less than 1 foot candle @ 15"
- Weight of Hand Held Light Only 4 Lbs (1.9 kg)
- 12 foot (4.6 m) cord from Lamp to plug
- Ground Fault Circuit Interrupt protection
- Available voltages: 115v/60Hz

BENEFITS

- Ergonomic Grip
- No Bulky Transformer
- Cool running for increased safety and comfort
- Extended bulb life for greater operating efficiency
- Polycarbonate bezel shields operator's hands from lens
- Cord-through-handle design reduces operator fatigue
- Rugged aluminum housing and reinforced fiberglass h
- Recessed lens for bulb protection



SPECIFICATIONS

- Weight: Hand Lamp 4 Lbs (1.9 kg), Hand Held Lamp - 9 lbs
- Typical Output: 4,000 microwatts/cm² @15"
- Typical Visible Light: 10 Lux or 1 foot candle @ 15" (38cm)
- Bulb: 150 watts
- Running Temp: 85°F (30°C)
- Cord Length: Lamp to Plug-10 feet

Replacement Bulbs for Standard UV Black Lights

Magnaflux maintains a full inventory of high quality replacement bulbs for all of its standard black light equipment.

Part Number: 519296 - 150 Watt Built-In Ballast Bulb.
Replacement built-in ballast bulb for ZB-150F-SB UV Black Lights.



UV Black Light Filters

Magnaflux offers a smooth output filter designed to improve the operating range and performance of its UV black lights.

Part Number: 519227 - Smooth Filter Glass.
Used with ZB-100F, ZB-100F-MB, and ZB-150F-SB UV Black Lights.



UV BLACK LIGHT ACCESSORIES

UV Black Light Wet Bench Mounting System

The Magnaflux Wet Bench Mounting System provides an adjustable mounting system for affixing hand-held black lights, such as the ZB-100F, ZB-100F-MB and ZB-150F-SB, to Magnaflux wet bench units.

Part Number: 623365 - Black Light Wet Bench Mounting System

Part Number: 622596 - Modular Black Light 5.5 Extension

Part Number: 622597 - Modular Black Light 7.5 Extension



Black Light Meter

Calibrated and certified specifically for NDT use, the Magnaflux Digital Black Light Meter supplies an accurate digital readout of the black light intensity (microwatts/cm²) and includes a permanently affixed black light sensor, battery and carrying case.

Part Number: 625024 Black Light Meter



White Light Meter

The Magnaflux White Light Meter accurately measures visible light by foot candles and Lux, and includes white light meter, permanently affixed white light sensor, battery and carrying case.

Part Number: 622338 White Light Meter



UV Absorbing Safety Glasses

Magnaflux UV Absorbing Safety Glasses are designed to protect black light users from repeated, day-long exposure to ultraviolet light sources.

Part Number: 506249 UV Absorbing Safety Glasses





MAGNAFLUX[®]

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