

SMB-20 WET HORIZONTAL MPI BENCH UNIT - HW SERIES

MAGNETIC PARTICLE INSPECTION EQUIPMENT



SQUAREMAG wet horizontal magnetic particle inspection equipment is used as a Multi-mode testing for surface and subsurface inspection on critical industrial and aerospace components. AC and Half Wave DC are available to meet test specifications.

A variety of coil diameters and bed lengths are available to suit a wide range of part configuration requirements.

Features

- Inbuilt Power source with solid-state controls
- Thyristorised self regulating current controls
- Current assurance indicator
- Digital current reading ammeters for contact and coil currents with retention facility.
- Pneumatic change over contactor for AC/HWDC and Contact/coil
- AC decay demagnetization facility.
- Stainless steel tank with necessary slope for collection of magnetic ink.
- 0.5 hp pump with recirculation system for proper suspension of magnetic particles.
- Pneumatic operated Head stock and adjustable tail stock with necessary insulations for the contact plates.
- Operator control panel is provided on the bench at convenient height.

SMB-20 WET HORIZONTAL MPI BENCH UNIT - HW SERIES

MAGNETIC PARTICLE INSPECTION EQUIPMENT

SQUAREMAG range of wet horizontal magnetic Particle inspection equipments being used in Automotive parts (Forged, Machined and Heat treated conditions), Aircraft engine & structural parts, Power generation, Oil & gas, Foundry, Steel manufacturers (Bright bar, & Black bar) etc, Over haul, service and MRO industries.

Specifications

MAX. OUT PUT	2000 AMPS AC/ HWDC
MAX. JOB LENGTH	400 MM (Extra lengths on request)
COIL SIZE	250 MM
NO.OF TURNS OF COIL	5
INPUT SUPPLY	415 V, 50 HZ, 1PH. (2 LINES OF 3 PH)
MAX. COIL OUTPUT	900 AMPS AC 1300 AMPS HWDC
LINE AMPS	32 A
O C VOLTAGE	8.0 V
TRANSFORMER	10 KVA
TRANSFORMER CLASS OF INSULATION	'F'
DUTY CYCLE	INTERMITTENT
THYRISTOR	25 A
RECTIFIER ASSLY.	2000 Amps
WHITE LIGHT IN DARK ROOM	<10 LUX
FOOT PRINT	1400 X 1200MM
AUXILARY SUPPLY	230V, 5 AMPS
PUMP	0.5 HP X 1440 PRPM
BATH TANK	S S 304, 20 ltrs

Options available against request

- Black hood for fluorescent Inspection
- Auto bath application
- Contact block adaptor and extension copper cables
- Small parts adaptor
- Swivel mounting fixture
- Steady rest for heavy parts
- Central conductors
- Centrifuge tubes
- Copper pads

Distributor



Manufactured by :

SQUAREMAG SYSTEMS

Plot No. 91, H.No. 5-35/153, Prasanth Nagar,
Kukatpally Industrial Estate, Kukatpally, Hyderabad-72.

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MAGNETIC PARTICLE INSPECTION EQUIPMENT



SQUAREMAG Wet Horizontal MPI Bench units provide outstanding defect detection and provide major time and cost savings over conventional magnetic testing methods. By providing combination magnetization of the part in multiple directions, virtually all defects can be revealed without having to process the part with a separate head shot and coil shot, which is the case with conventional

Features

- Suitable for contact shot, coil shot and central conductor magnetization.
- Combination of Circular and Longitudinal magnetization facility by logically sequencing the magnetization.
- Infinite variable Thyristorised current control
- Inbuilt power source with solid-state controls
- Double digital ammeter for current readings with retention facility.
- Stainless steel bath circulation tank and Agitation system
- Footswitch operated Pneumatic Headstock.
- Rail mounted movable tailstock with mechanical lock.
- Current assurance indicator.
- Steady rest mounting provision for Head and tailstock mounted Steady rests.

SMB-30/SMB-45/SMB/60 WET HORIZONTAL MPI BENCH UNIT - FW SERIES

MAGNETIC PARTICLE INSPECTION EQUIPMENT

SQUAREMAG range of wet horizontal magnetic Particle inspection equipments being used in Automotive parts (Forged, Machined and Heat treated conditions), Aircraft engine & structural parts, Power generation, Oil & gas, Foundry, Steel manufacturers (Bright bar, & Black bar) etc, Overhaul, service and MRO industries.

SPECIFICATIONS	SMB-30	SMB-45	SMB-60
MAX. OUT PUT	2500 AMPS AC 3000 AMPS FWDC	4000 AMPS AC 5000 AMPS FWDC	5000 AMPS AC 6000 AMPS FWDC
MAX. JOB LENGTH (STD)	1300 MM	1300 MM	1300 MM
COIL SIZE (STD), NO.OF TURNS	300 MM, 5	300 MM, 5	300 MM, 5
INPUT SUPPLY	415 V, 50 HZ, 1PH. (2 LINES OF 3 PH)	415 V, 50 HZ, 1PH. (2 LINES OF 3 PH)	415 V, 50 HZ, 1PH. (2 LINES OF 3 PH)
MAX. COIL OUTPUT(12")	1300 AMPS AC 2700 AMPS FWDC	1600 AMPS AC 4500 AMPS FWDC	1800 AMPS AC 5400 AMPS FWDC
LINE AMPS	55 A	135 A	250 A
O C VOLTAGE	16 V	26 V	17V
TRANSFORMER	48 KVA	120 KVA	108 KVA
TRANSFORMER INSULATION	'F' CLASS	'F' CLASS	'F' CLASS
DUTY CYCLE	INTERMITTENT	INTERMITTENT	INTERMITTENT
THYRISTOR	55 A	132 A	250 A
WHITE LIGHT IN DARK ROOM	<10 LUX	<10 LUX	<10 LUX
AIR SUPPLY REQUIRED	4-6 BAR	4-6 BAR	4-6 BAR
BATH TANK	S S 304	S S 304	S S 304
BATH ATNK CAPACITY	40 LTRS	40 LTRS	40 LTRS
JOB CLAMPING	PNEUMATIC	PNEUMATIC	PNEUMATIC

Options available against request

- Black hood for fluorescent Inspection
- Auto bath application
- Contact block adaptor and extension copper cables
- Small parts adaptor
- Swivel mounting fixture
- Steady rest for heavy parts
- Centrifuge tubes
- Copper Central conductors
- Copper pads

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SQUARE MAG

SMP-40/SMP-60 MPI POWER SOURCE - MOBILE SERIES

MAGNETIC PARTICLE INSPECTION EQUIPMENT



SQUAREMAG mobile magnetic particle inspection units are ruggedly constructed for long, maintenance free service. The advanced solid state circuitry greatly reduces the size and weight of SMP-40 & SMP-60

Key Applications :

These self-contained, mobile units can be moved or rolled anywhere in shop, foundry, refinery, petrochemical plant or manufacturing facilities to detect surface and near surface cracks by the MPI method.

Remote Option :

A special remote-control unit is available for use with the mobile power sources. It provides control of the magnetizing and demagnetizing current from a convenient hand-held unit. A remote On-Off switch on the front panel of the machine provides for quick selection of local or remote-controlled operation.

Controls :

All operating controls and indicators are located on the recessed front panel. The easily read ammeter shows magnetizing current in either AC or half-wave DC operating modes.

SPECIFICATIONS	UNITS	SMP-40	SMP-60
INPUT SUPPLY	VOLTS	415	415
FREQUENCY	HZ	50	50
PHASE	PH	2 LINES OF 3 PH	2 LINES OF 3 PH
MAX. OUTPUT CURRENT	AMPS	4000	6000
DUTY CYCLE AT MAX O/P	%	50	50
OPEN CIRCUIT VOLTAGE	V	17	17
CLASS OF INSULATION	CLASS	F	F
KVA RATING	KVA	64	108
CURRENT CONTROL SYSTEM	--	SCRCONTROL	SCRCONTROL
DIEMENSIONS (L X W X H)	MM	650 X 1000 X 900	650 X 1000 X 900
NET WEIGHT (APPROX)	KGS	250	325
AMMETER	----	DIGITAL / ANALOG	DIGITAL / ANALOG

Optional Accessories:

- Magnetising cables with prod method and cable wrap methods.
- Validation Test blocks
- C-clamp assembly
- Scissor clamps
- Magnetic leech
- Remote Control Pendant

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SQUARE MAG

SMP-15/20/30 MPI POWER SOURCE - PORTABLE SERIES

MAGNETIC PARTICLE INSPECTION EQUIPMENT



SQUAREMAG power sources are designed to use in rugged industrial atmosphere. Widely used for Inspection of weldments, castings, Engine blocks and service parts like crane hooks, truck forks etc. Meets ASTM E 1444 requirements

Features:

- Infinitely variable thyristorised magnetizing current control
- AC decay demagnetization facility
- Analog ammeter for displaying the magnetization Amps.
- Output terminals to connect magnetizing cables of Prod method or Cable wrap method.
- Provision for remote control assembly
- Suitable for Prod method, Cable wrap method and coil methods
- Heavy duty handles for rugged industrial applications.

SPECIFICATIONS	UNITS	SMP-15	SMP-20	SMP-30
INPUT SUPPLY	VOLTS	230/415	415	415
FREQUENCY	HZ	50	50	50
PHASE	PH	2 LINES OF 3 PH	2 LINES OF 3 PH	2 LINES OF 3 PH
MAX. OUTPUT CURRENT	AMPS	1500	2000	3000
DUTY CYCLE AT MAX O/P	%	50	50	50
OPEN CIRCUIT VOLTAGE	V	6.5	8	16
CLASS OF INSULATION	CLASS	F	F	F
KVA RATING	KVA	10	12	48
LINE CURRENT	AMPS	45/24	45	60
CURRENT CONTROL SYSTEM	--	SCRCONTROL	SCRCONTROL	SCRCONTROL
DIEMENSIONS (L X W X H)	MM	550 X 280 X 280	600 X 280 X 280	650 X 350 X 350
NET WEIGHT (APPROX)	KGS	58	72	102
AMMETER	----	DIGITAL / ANALOG	DIGITAL / ANALOG	DIGITAL / ANALOG

Optional accessories:

- Magnetising cables with prod method and cable wrap methods.
- Validation Test blocks
- C-clamp assembly
- Scissor clamps
- Magnetic latch

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SQUARE MAG

ELECTRO MAGNETIC YOKE - MODEL : SMY-7

MAGNETIC PARTICLE INSPECTION EQUIPMENT



Features :

- AC/HWDC Electromagnetic Yoke
- Common applications include welding, casting, Forged parts, pipes, any other random inspections.
- Suitable for Dry and wet method
- Electronics : Solid state circuitry housed in the molded casings
- Features : AC current with fixed magnetization level
- HWDC Current with variable magnetization levels.
- Mag Button Press to ON & Release to OFF
- Toggle switch to choose for AC/DC magnetic field
- Articulated legs to set the Yoke at any desired angle and Variable field intensity control switch.
- Test certificate & Operational manual
- Carrying case

Technical Specifications :

INPUT SUPPLY	220V, 50V, 1 PH
INPUT CURRENT	2 AMPS
DISTANCE ACROSS THE POLES	300 MM
MAGNETIC FIELD	AC-CONSTANTDC- INFINITELY VARIABLE
FLUX DENSITY	10,500 LINES OF FORCE/CM ² AT 100 MM POLE SPACING
LIFTING POWER IN HWDC	27 KG
LIFTING POWER IN AC	5 KG
YOKE WEIGHT	3.3 KG
DUTY CYCLE	50% (4 MIN. IS MAX. CYCLE TIME)
CONTROLS	ON/OFF SWITCH AC/DC SWITCH DC FIELD INTENSITY POTENTIOMETER

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SQUARE MAG

ELECTRO MAGNETIC YOKE, Model: SY-6

- **AC Electromagnetic Yoke**
- **Input Supply: AC 110V, 50/60Hz, Single Phase supply.**
- **Load Current : 3.5 Amp**
- **Pull Force : 5 kgs in AC**
- **Duty Cycle : TWO Minutes ON; TWO Minutes OFF**
- **Pole adjustment : 0 to 250 mm**
- **Features : AC current with fixed magnetization level**
- **Mag Button Press to ON & Release to OFF**
- **Articulated legs to set the Yoke at any desired angle.**
- **Moulded body for shock proof and leak proof.**
- **DC conversion kit (Optional)**

MAGNETIC PARTICLE INSPECTION ACCESSORIES



Digital Hall Effect Probe Gaussmeter
Hand-held meter measures AC and DC magnetic field strength in Gauss
Includes meter, transverse probe, zero gauss chamber, four "9 Volt" batteries, operation manual and carrying case.
Axial probe available as an option



RFI-D (Digital)
The RFI-D is a self contained magnetic Residual Field Indicator incorporating an internal sensor providing a clear stable digital readout clearly visible in both white light and UV.
Range : 0-400 gauss.



QQI Test Pieces
Quantitative Quality Indicators (QQI) are Magnetic Particle Test Pieces with Artificial Defects.
QQI's are used to increase productivity by minimizing magnetizing shots, verify field direction, relative strength and balance the multi-directional fields.

Models :
KSC-230, KSC4-230, KSC-234



MTU Blocks are used to test the sensitivity of Wet Method MPI Baths. These reference blocks are provided with a reference picture, so an existing or new Bath can be compared to indications from an optimum system. These blocks can be used for Wet Fluorescent or Visible Baths.



Quick Break Tester
Quickly and accurately confirms function status of "quick break" circuitry in three phase FWDC magnetic particle units
Manufactured for compliance to ASTM E 1444.

State of the art microprocessor control analyzes quick break pulse waveform
LCD display with large easy to read digits

A Magnetic field strength meter designed specifically for Magnetic Particle Inspection

- Display :
- Mean/True RMS / Real Peak
 - Signal Visualisation
 - Intuitive navigation in menus
 - Automatic Zero
 - Five Units available



Residual Field Indicator
(Gauss Meter, Analog type)
Accurate measurement of residual leakage field in parts after demagnetization.
Accuracy : +/- 0.5 Gauss
Models : 10-0-10 } Calibrated
 20-0-20 }
 10-0-10 Un-calibrated



Magnetic Flux Indicator Strips
The foil type magnetic flux indicators are used to give a clear guide as to the direction of a magnetic field and can be used to give an estimate of the field strength.

These products are available in two versions:
-Brass Finish-type A (aerospace)
-Gold finish - type G (general)



Magnetic Stripe Card
The Type 2000 Magnetic Stripe Card is used for instantly evaluating the performance of the fluorescent wet-method bath. This card can be used to quantitatively evaluate the performance of the fluorescent materials by displaying the number of indications that can be observed after the material has been applied to the stripe.



CENTRIFUGE TUBE WITH STAND
For Checking the Concentration and contamination of Magnetic Particles Bath. 100 ml Size.

Models Available :
Non Fluorescent
Fluorescent - Medium sensitivity
Fluorescent - High Sensitivity



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MAGNETIC PARTICLE INSPECTION ACCESSORIES



Continuous Method Test Block

Quick, convenient check for proper magnetizing technique on wet horizontal units. Crack indication forms on test block if current flow and bath concentration are adequate.



Magnetic Particle Test Bar

Contains coarse and fine artificial surface and subsurface defects in both directions. Meets or exceeds most industrial and military specifications for artificial test specimens.



Head and Tail Stock Mounted Roller Steadyrest

Facilitates part loading as coil may be retracted to clear the job. Facilitates easy rotation of part during bath application and inspection.



Standard Prod Set

Individual contact prods offer maximum flexibility in prod spacing and magnetizing of complex-shaped parts.



Powder Spray Bulb

Lightweight, easy-to-use spray bulb for applying dry powders. Cap removes for easy filling.

Tool Steel Test Ring

Drilled holes simulate subsurface discontinuities from surface indications at various magnetizing current levels. Meets ASTM E 1444 requirements and certified to AS 5282.



Pie Gauge

The Magnetic Particle Pie Gauge is a device used as an aid in determining the direction of magnetic fields for detection of discontinuities in ferrous metals.



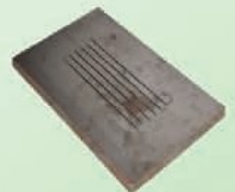
Central Conductors

These solid copper rods provide circular magnetization of hollow parts. Different sizes are available on request.



MPI Test Block

Used for prod type magnetisation to validate the system performance. Meets BHEL specifications.



Copper Pads (5" x 7")

High quality copper pads for use on magnetic bench machines. Available in different sizes.



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SQUARE MAG

SHERWIN PSM-5 Penetrant System Monitor Panel

A stainless steel panel, 0.090 inch thick and measuring 4x6 inches. A chrome-plated strip runs the length of one side of the panel. Five crack centers are evenly spaced in the chrome plating in order of magnitude; the largest is easily visible with low-sensitivity penetrants, while the smallest is difficult to observe even with high-sensitivity materials.

TAM #146040-1
TAM #146040-2



Cracked Aluminum Block

A Pressure Code, Section V&III, MIL-I-25135 and AMS-2644. The cracked aluminum block is made from SB-211 Type 2024 aluminum, rolled 3/8 inch thick with dimensions of 2x3 inches. A notch separates the block's two sides to facilitate side-by-side comparisons.



Fluorescent Comparator

A plastic ruler with linear and circular fluorescent marks in inches for flaw dimension comparison under UV light. The tool measures graded flaw markings from 0.005 to 0.125 inches.

General and Specific OEM models are available.



Temperature & Humidity data Logger

This graphing data logger is the paperless chart recorder alternative for temperature and humidity!

Temperature & Humidity data Loggers are products used in several NDT Inspections like Radiography, Magnetic, Penetrant Inspection. They are very useful in achieving Nadcap Accreditation as well.



Sensitivity Panels (Ni-Cr)

A set of two panels, each measuring 3.875 x 1.875 inches (100x35mm), shared from the same stock with matching crack patterns. Makes simultaneous comparison of two penetrant batches practical. Specify crack sizes of 10µm, 20µm, 30µm and 50µm.



Sherwin Wash Test Panel

The 1.5x2 inch panel is made from 16 guage 301 or 302 stainless steel by grit blasting with 80 mesh aluminum oxide grit and 60 psi of air pressure. The roughened surface that is produced is free of scratches and blemishes. This panel is used to run removability tests, in a laboratory setting.



Flaw Dimension Tool (TAM #190466A)

Plastic swing-away keys, tapered and angled for tight radius comparisons. Linear and circular fluorescent marks in inches for flaw dimension comparison under UV light. The tool measures graded flaw markings from 0.010 to 0.180 inches.



Refractometer

Measures hydrophillic emulsifier concentrations. Hand held and equipped with a rubber grip and adjustable eyepiece. Meets MIL-STD-6866 and ASTM E-1417 requirements for weekly testing of hydrophillic emulsifier concentration.



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SQUARE MAG

LIQUID PENETRANT INSPECTION ACCESSORIES



Electrostatic Penetrant Spray System

Used for application of penetrants by Electro Static Spraying.

Ensures high level of quality penetrant application and save penetrants.

Electrostatic System includes application gun complete with all necessary regulators, gauges, and filters.



Emulsifier Spray Gun

HVLP spray systems facilitate high quality emulsifier application on parts.

Operates on air pressure.

System consist of HVLP gun, pump, hoses, air pressure gauges etc.



Hydro-Wash Spray

For water rinsing of parts. Air injection boosts velocity, permits faster rinsing with less water usage. Useful with low or fluctuating water pressure. For spray distances over three feet or when rinsing hollow or rough surface parts



The wipe-off technique is widely used in Penetrant Inspection. The dispenser makes applying the solvent to a cotton swab or brush much easier and in a controlled manner. The integral pump delivers a small controlled amount of liquid to the cup at the top; thus reducing the evaporating rate of the remaining solvent. It keeps the bulk solvent clean, thus ensuring a clean supply of solvent to the swab or brush every time the solvent is punched just refill the dispenser.



Water Temperature Gauge

Thermometer, dial size 3 inches, temperature range 0to250 degrees fahrenheit, stem length 2.5inches, back connection.

Electrostatic Developer Application System

Electrostatic spray of the developer powder offered the most sensitive result as compare to non electrostatic powder spray. Always uses fresh developer and enhance the end results. Reduces the contamination and saves developer.

System consist of Electrostatic gun, developer hopper, control panel, cables and hoses.



Foam Generator

Foam Units are portable chemical generators designed to apply a large range of emulsifier foaming to surfaces where the emulsifier is required to be in contact for a prolonged period of time.

Only requiring a compressed air supply to be fully operational, all units are self contained and totally mobile.

Models: 20Ltrs. & 50 Ltrs.



Water Spray Gun

For rinsing either water-wash or post-emulsifiable penetrants
Coarse spray.



Air Gun

For removal of excess water particles from the surface of the job. And removal of excess developer at >5 PSI



Water pressure regulator

Valve Water Pressure regulator, brass body, 1/2inch BSP inlet and outlet, maximum 300 PSI. maximum temperature 140°F.



Note : Other penetrants accessories are also available on request.

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BLACK LIGHT MODEL : SL-100F



- Fan cooled light weight (1.3 kg) Hand held unit.
- Minimum Intensity 4500 Micro watt / sq.cm at 325 mm height.
- Visible light emission at 325mm height is < 20 lux
- Generates and emits Ultra violet light with a wave length of 365 Nanometers,
- Kopp glass filter for Ultra violet rays filtering.
- 230 V, 50 Hz & 1 ph input supply.
- Continuous operation.
- 100 W mercury Vapour Bulb.
- 2000 Hrs Bulb life.
- Separate control transformer with 5 mtr length cable.
- Meets all MIL and ASTM specifications.
- Supplied with Carrying case and Operating manual.

UV SUPER FLOOD LIGHT, 400 WATT, MODEL : SL-400F



- Minimum Intensity is 6000 micro watt per sq.cm
- Quick and reliable recognition of defects
- Easy to view very fine defects.
- Inspection can be performed in both day light and no light conditions.
- UV Filtration through UV-B Double filters.
- More coverage area helps in Inspecting of larger parts and no. of jobs.
- Double chamber cooling system ensures the normal temperature of the UV light even after long usage.
- Hinged filter system for easy replacement of Bulb
- Provision for hanging the unit on any make equipment.
- Ideal for Magnetic particle and Fluorescent inspection.
- Meets all NDT standards.

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SQUARE MAG

LIGHT INTENSITY METERS AND UV ACCESSORIES



AccuMax™ XRP-3000 Radiometer/Photometer Kit

An advanced Micro processor-Controlled system, Measures Both Visible and UV Light Using One Sensor Detector.

UV Meters, UV-A & white light meter, Model : UVe-Lux



This UV-A and white light meter is compact, lightweight and robust, specifically designed for the non-destructive testing environment, particularly for the Aerospace Industry, using a single sensor to measure UV and white light at the same time.

UV Meter



This instrument is designed to measure ultraviolet light in the range from 280 to 400 nanometers. The illumination range of the meter allows users to conduct the most precise quantitative measurements of ultraviolet radiation for radiometry and laboratory requirements,

UV Meter, DM-365XA



Measures UV-A light sources with overall accuracy of $\pm 5\%$ per NIST standards

Autozeroing, excellent linearity and cosine response, solid-state design, compact, durable, simple operation, battery-level indicator

Sealed silicone photodiode protects against shock and humidity
Complies with ASTM specifications for MPI and FPI

Digital White Light Meter



Accurately measures visible light by footcandles and lux
Includes meter and white light meter sensor.

Calibrated/Certified for NDT

UV-Eye

UV-Eye is a new development, a multifunctional tool that is a must for the NDT operators who work with Fluorescent materials be it Penetrant of Magnetic Particle inspection. This operator friendly, lightweight, dual purpose instrument offers real time defect sizing with dedicated software to store images within an on board reporting framework



UV Torch

High Powered rechargeable UV LED Torch for NDT Inspection (MPI - Magnetic Particle Inspection & Dye penetrant), Leak Testing, etc.



100W Medium Base Bulb

100 watt spotlight bulb, replacement for SL-100F. Also suitable for Magnaflux ZB-100F models.



UV Filter Glass (Kopp)

Can be used with Squaremag SL-100F. Also suitable for Magnaflux ZB-100F models.



UV-Absorbing Spectacles

Reduces eye fatigue from exposure to UV light emission



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