

## **MAGNAFLUX<sup>®</sup>**

# **PENETRANT TESTING**

## ACCESSORIES



#### **Ni-Cr TEST PANELS**

A range of process control panels having finely controlled crack depths to offer greater discrimination when comparing penetrant sensitivity. Matched pairs of panels are used to study the effects of process change. Available in pairs, in the following crack sizes 10 -

20 - 30 - 50 Microns. Kit one pair of each size.



#### ALUMINIUM TEST BLOCK Pt No 070C001

Cracked aluminium block compares SENSITIVITY of different penetrants or SENSITIVITY of new against old (working) penetrants. Complies with MIL-I-25135.



#### TAM PANEL Pt No 198055

A stainless steel panel to monitor both sensitivity and washability of penetrants. It provides a grit blasted surface for washability tests and a chromed section with 5 star shaped defects ranging in size from course/fine. Meets the requirements of Pratt & Whitney (TAM 146040)



#### STAINLESS STEEL TEST BLOCK Pt No 154400

Monitors WASHABILITY of water washable or post emulsified penetrants. May be used repeatedly if thoroughly cleaned after each use.



#### TAM CRACK COMPARATORS Pt No 514048

A transparent crack comparator covering the Range 0.2mm – 4.6mm increments which also meets the requirements of Pratt & Whitney (TAM 135273)

#### Pt No 514050

A general purpose crack comparator having increments from 0.12mm – 3.0mm



### REFRACTOMETER

#### Pt No 008M009

A hand held optical instrument used for measuring the concentration of hydrophilic removers in water.

In operation, a small sample of the solution is applied to the prism face; readings are then taken by looking into instrument at the built-in scale

## "Penecert" Penetrant Testing Service

To obtain the maximum benefit from any penetrant inspection system, it is essential to ascertain that the quality of the penetrant materials used in the system have not deteriorated during use. That is why so many penetrant testing specifications require the regular testing of materials for certification.

For further information about the Penecert service please contact the Sales Department.



#### CONTRAST CONTROL SPECTACLES Pt No 017G001

Specifically designed to eliminate long wave UV(A) and protect the eyes during excessive periods under ultraviolet lighting, these spectacles also reduce fatigue and provide an optimum contrast in viewing.



### WATER ONLY GUN Pt No 004G015

A gun with trigger action, used for water wwashing parts in the penetrant process. Comes with 2 inter-changeable nozzles to prprovide fine or coarse spray pattern.



#### PROCESSING BASKET Pt No 034B001

A stainless steel processing basket used to take components through the penetrant process. They can be sub-divided to prevent part to part contact. Size 300mm diameter.



### WATER ONLY GUN Pt No 004G001

A wash gun used in the penetrant process to turn water supply into a spray.



#### **FILTER PAPER**

Used in the process to determine fluorescent brightness in penetrant system. Available in Grade 4 with sizes 4.25, 12.5 and 24cm diameter. Packed in boxes of 100.



#### AIR/WATER GUN Pt No 004G003

A combined air and water spray gun for washing of parts in a penetrant process. Water flow controlled with air introduced by trigger action to provide the spray.

### Pt No 518992

Similar to above, with water controlled trigger action.



#### POLY SPRAY Pt No 004G004

An inexpensive spray unit for the application of penetrant. Can also be used with non-aqueous developer provided agitator ball is added.



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# ACCESSORIES FOR MAGNETIC PARTICLE INSPECTION



MAGNETIC FLOW /COIL TEST PIECES Pt No 026T002 RPS700 Pt No 026T042 BS6072



 CURRENT FLOW TEST PIECES

 0-1000A
 Pt No 026T001 BS6072

 RPS700

 1000-3000A
 Pt No.027T003 RPS700

 3000 5000A
 Pt No 027T004 RPS700



MAGNETIC PARTICLE TEST PIECE Pt No 189838

Contains course and fine artificial surface and sub-surface defects in both directions. Meets or exceeds most specifications for artificial test specimens including MIL-STD-271



#### TEST BLOCKS Pt No 026T007

Wet residual go/no go test block which provides a quick check on quality. A wet continuous test block is also available under Pt No 026T006



#### KETOS TEST RING Pt No 026T005

The ketos ring has a number of artificial defects for both Dry Powder and Wet Method and meets ASTM E1444



#### BERTHOLD PENETRAMETER Pt No 008M006

Checks magnetisation, penetration depth,quality of fluorescent suspension and magnetic field direction



ASME FIELD INDICATOR Pt No 008M003

Used to gauge the strength and direction of the magnetic field in accordance with ASME Boiler and Pressure Vessel Code Section V



FIELD INDICATOR Pt No 008M001 Magnetometer used to determine if a component is magnetised



CALIBRATED FIELD INDICATOR Pt No 008M002 Scaled to +/- 20 gauss from zero for determining the level of residual magnetism to 5% of full-scale reading. Pt No 505056

As above except scaled to +/- 10 gauss



**PRINCIPLES OF M P I** No 020B001 A 528 page book covering the theory, science art and practice of all types of magnetic particle inspection. Author C E BETZ



**CENTRIFUGE TUBE & STAND** Essential items in ascertaining bath concentration. Centrifuge Tube Pt No 044C003 Meets the requirements of ASTM D96 and BS4069. Centrifuge Stand Pt No044C004



**CONTACT BLOCK** Pt No 023A007 Clamps between the head and tailstock of the bench unit to allow prods, split coils, leeches etc. to be attached.



**MAGNETIC INDICATOR STRIPS** Used to provide a guide to the strength of the magnetic field at the precise point of their location Complies with BS4142 and BS6072. Pt No 008M004 Type 1 for general use. Pt No 008M005 Type II for aerospace work.



MAGNAGLO APPLICATOR Pt No 004G006 Replacement nozzle for bath applications. Attaches quickly to bath applicator hose.



POLYSPRAY Pt No 004G004 An inexpensive spray unit for the application of magnetic ink



POWDER DISPENSER t No 008D003 A powder 'puffer' for the application of dry magnetic powder.



#### **CENTRAL CONDUCTORS**

Kerosene resistant insulated copper bars used where components have through holes. thin wall or offset when insufficient current

Pt No 028T004 25mm dia x 600 mm long.



POWDER BLOWER Pt No 58600 Low cost gun for applying MAGNAFLUX dry powder in production conditions. Regulated air-only blow off removes excess powder. Requires only 2 bar air supply



#### 0.0.1

Artificial flaw shim standards improve inspection reliability by verifying magnetic field direction and relative strength at all critical areas of a component. Ideal for multi- directional magnetisation.

Pt No 519630 Model KSC-230 Standard Pt No 519631 Model KSC-230 Standard Pt No 519631 Model KSC-4-230 Miniature Pt No 519632 Model KSC-234 Variable depth



#### **CONTACT PADS**

Bench testing units employ contact pads to improve electrical contact with the component llows:

Replacement pads are available as foll		
Part No.	Area (mm)	Material
031C003	145 x 125	Copper braid -
		Neoprene
031C010	45 x 65	Copper braid
031C012	60 x 65	Brass mesh
031C014	96 x 125	Copper braid
031C016	100 x 120	Brass mesh
031C020	145 x 125	Copper braid



#### **QUICK BREAK TESTER** No 148335

Quickly and accurately confirms function status of 'quick break' circuitry in FWDC magnetic particle units. Manufactured for compliance to ASTM E1444.



available for single shot. Pt No 028T002 12mm dia x 300 mm long.



**AUXILIARY ADAPTORS** No 030C009 These auxiliary adaptors fit on to the head and tailstocks of the MAG50 bench units to assist in the handling of short/small parts.



**AUXILIARY ADAPTORS** Pt No 030C026 This auxiliary adaptor fits on to the head or tailstock of the MAG40 bench units to assist in the handling of short/small parts, also eliminates need for pneumatic clamping by having spring loaded clamp mechanism.



STEADY REST Pt No 20955 A3 MAG50 Bench mounted twin roller steady rest allows rotation of components.



STEADY REST Pt No 20978 A1 The twin rollers of the steady allow rotation of components. It is fixed directly to the headstock.



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