



# NDE

EQUIPMENT SERVICES LTD.

Issue 12 | January 2011

## Product & Price Guide



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NDT Equipment Services Limited is a company specialising in providing a broad spectrum of inspection and test equipment for inspection companies, process plant, manufacturing and service industries for a worldwide market.

The company operates in conjunction with a worldwide network of representatives and has supplied equipment to over 50 countries.

We are pleased to provide this copy of our Product and Price guide, which contains details of our extensive range of products, equipment and servicing. In general the prices of items are included. For the more complex equipment with different options of supply, please contact our office where a specific price can be quoted for your requirements.

The company's personnel have many years' experience and depth of knowledge in most areas of NDT and Inspection. We are pleased to offer advice on equipment requirements and problem solving.

We offer to our customers:

- ❖ Excellent Technical Support and Advice
- ❖ A Comprehensive Product Range
- ❖ Personal Attention to Individual Customer Needs

Should you not see the product you require or need further information on any of the products listed in this catalogue, please do not hesitate to contact our sales offices direct.

**Prices shown in this catalogue are for guidance only and were correct at time of printing. ALL prices in UK (£) Pounds Sterling are ex-Works, unless otherwise stated.**

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**SALES – HIRE – SERVICE – CALIBRATION – CALIBRATION BLOCKS - SYSTEMS**



### **Delivery Terms & Conditions**

**In these conditions of Sale “The Seller” is NDT Equipment Services Ltd**

#### **Carriage & Insurance**

Inspection equipment is fragile; therefore, occasional damage during transit is possible.

We do not insure goods whilst in transit unless specifically requested to do so.

Goods that are ordered and dispatched without insurance immediately become the customer's responsibility; “the seller” is not in any way liable for uninsured goods. Please ask for an insurance quote when you place your order.

Claims:

- a) Any consignment not delivered within 14 days of the date on “the seller’s” invoice must notify “the seller” in writing.
- b) We recommend that when you sign the carrier's delivery note you mark the items as, “NOT INSPECTED”.
- c) We advise that you inspect your goods immediately after delivery to ensure that all parts are present and correct. Any damage or missing parts must be advised to both “the seller” and carrier in writing within 3 days of receipt, please ensure that the goods, all outer casings and other wrappings are available for inspection by “the seller” or their representative, you will also need to be in possession of your delivery note marked “NOT INSPECTED”.
- d) “The seller” will not accept returned goods unless a prior written agreement has been made between “the seller” and the customer. Any goods being returned despite being correctly supplied to the customer's specification will be subject to a 20% re-stocking charge.



**PLEASE NOTE**

Not all the products sold by NDT Equipment Services are listed. If you do not see what you are looking for, please call our office. Our sales staff will be pleased to assist you.

Calibration Blocks can also be manufactured to other Standards i.e. American, French, Japanese etc. Special test blocks are available to individual customer specifications and requirements please call to discuss your particular requirement.

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## **PORTABLE X-RAY EQUIPMENT**

### **Portable X-Ray Equipment**

### **SITE - X**

NDT Equipment Services offer a complete range of portable x-ray equipment from ICM. Both Directional and Panoramic.

ICM offer some of the worlds' most advanced portable half wave x-ray units with a large range of kV outputs to choose from. These range from 160kV, to an all-new 360kV. These are exclusively available through NDT Equipment Services and their agents (Country Dependent).

NDT Equipment Services also offer their best selling range of crawler tube and control panels, compatible to bolt straight on to your existing crawler (subject to confirmation, some minor adjustments may be required)



200



225



250



300



320



360

### **SITE X - PORTABLE X RAY SETS - DIRECTIONAL**

NORMALLY OPERATING WITH STANDARD CONTROL UNIT SCU 286

#### **X RAY GENERATORS-**

D 1603	-	160kV, 1-3mA,	FOCAL SPOT 0.8mm X 0.8mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 2008	-	200kV, 1-8mA,	FOCAL SPOT 0.8mm X 0.8mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 2258	-	225kV, 1-8mA	FOCAL SPOT 2.5mm X 2.5mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 2508	-	250kV, 1-8mA	FOCAL SPOT 2.5mm X 2.5mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 3006	-	300kV, 1-6mA	FOCAL SPOT 2.5mm X 2.5mm DIRECTIONAL ANGLE BEAM 60° X 40°
D 3206	-	320kV, 1-6mA	FOCAL SPOT 2.5mm X 2.5mm DIRECTIONAL ANGLE BEAM 60° X 40°

#### **ALL UNITS FEATURE**

- 100% DUTY CYCLE AT 40°C AMBIENT TEMPERATURE
- A MICROCONTROLLER BOARD WITH TRUE kV AND mA MEASUREMENTS
- WORKING AMBIENT TEMPERATURE: 25°C to 70°C
- A 700mm FFD TELESCOPIC CENTERING DEVICE
- TWO (2) GUARD- RINGS (TOTAL 3.6kgs )
- A BUILT IN CAROUSEL WITH ONE DIAPHRAGM 10 X 48cms ( 2 OPTIONAL )+ LEAD CAP (NOT D1603 & D2008)

#### **WEIGHTS**

- D1603	-	8kgs
- D2008, D2258, D2508,	-	27kgs
- D3006	-	29kgs
- D3206	-	34kgs
- PAIR OF GUARD - RINGS 3.6kgs EXTRA		
<b>DIMENSIONS ( WITH GUARD RINGS )</b>		
- D1603	-	120mm DIA. X 530mm HIGH
- D2008, D2258, D2508	-	346mm DIA. X 771mm HIGH
- D3006, D3206	-	346mm DIA. X 831mm HIGH



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## **X-RAY EQUIPMENT**

### **SITE – X – PORTABLE X RAY SETS - PANORAMIC**

NORMALLY OPERATING WITH STANDARD CONTROL UNIT SCU 286

#### **X RAY GENERATORS**

C2007-	200kV,	1-7mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)
C2257-	225kV,	1-7mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)
C2505-	250kV,	1-5mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)
C3005-	300kV,	1-5mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)
C3205-	320kV,	1-5mA,	FOCAL SPOT 5mm DIA. X 0.9mm	ANGLE BEAM 360° x (2 x 20°)

#### ALL UNITS FEATURE:

- 100% DUTY CYCLE AT 40°C AMBIENT TEMPERATURE
- A MICROCONTROLLER BOARD WITH TRUE kV AND mA MEASUREMENTS
- A EMR ( BEAM HOMOGENEITY ) MICROCONTROLLED REAL TIME SYSTEM
- WORKING AMBIENT TEMPERATURE: - 25°C to 70°C
- FULLY LEAD SHIELDED
- TRUE IP65 WEATHERPROOF
- 3 X 700mm FFD TELESCOPIC CENTERING DEVICES
- TWO(2) GUARD-RINGS ( TOTAL 3.6kgs )

#### WEIGHTS:

-	C2007, C2257, C2505	-	26kgs
-	C3005, C3205	-	34kgs
-	PAIR OF GUARD RINGS	-	3.6kgs EXTRA
DIMENSIONS	C2007, C2257, C2505	-	346mm DIA. X 771mm HIGH
(WITH GUARD RINGS) -	C3005, C3205	-	346mm DIA. X 831mm HIGH

#### **STANDARD CONTROL UNIT TYPE SCU 286**

#### WITH KEY FEATURES:

- INPUT LINE FROM 198 TO 264 VAC - 45 TO 66 Hz SELECTOR FREE
- 1kV STEP TUBE VOLTAGE KEYBOARD SELECTION
- 0.1mA STEP CURRENT TUBE KEYBOARD SELECTION ( MIN. 1mA )
- LINE REGULATION BETTER THAN 0.5%
- KEYBOARD SELECTION OF EXPOSURE FROM 1sec. TO 99MIN. 59sec.
- 16 KEYS POLYESTER TACTILE MEMBRANE KEYBOARD SYSTEM
- 2 X 20 DIGITS HIGH BRIGHTNESS VACUUM FLOURESCENT DISPLAY
- SELECTED AUTOMATED WARM-UP PROCEDURE WITH DATA RECORDING
- DATABASE FACILITIES WITH THOUSANDS OF POSSIBLE RECORDS
- TIME, kV, mA, VOLTAGE AND FREQUENCY LINE DIGITAL METERS
- FULLY COMPATIBLE WITH ALL SITE - X TUBEHEADS
- WORKING AMBIENT TEMPERATURE: - 25°C TO 55°C - TRUE IP65
- OVERALL SIZES 157 (H) X 335 (W) X 520 (D)mm – 13kgs

#### SUPPLIED WITH:

- A 6.0 kgs – 20m TUBE HEAD / SCU 286 INTERCONNECTION CABLE
- A 1.7 kgs – 10m POWER SUPPLY CABLE
- A BAG FOR CABLES AND ACCESSORIES
- A SET OF SCU286 USERS MANUALS

#### ACCESSORIES:

- 0000697 - HEIGHT ADJUSTABLE STAINLESS STEEL SUPPORT
- 0000513 - FLASHING LIGHT WITH 20m CABLE
- 0000514 - ALUMINIUM TRANSPORT CASE FOR SITE-X & ACCESSORIES
- 0000517 - AUDIBLE / FLASHING LIGHT WITH TRIPOD STAND AND 20m CABLE
- 0000551 - SCU286/ PERSONAL COMPUTER INTERCONNECTION CABLE
- 0000681 - INTER SCU286 INTERCONNECTION CABLE TO TRANSFER DATA
- 0000753 - EXPOSURE TIME COMPUTER SOFTWARE LOADED IN SCU286
- 0000686 - SAFETY LEAD CAP COMPLETE
- 0000541 - 60° X 40° DIAPHRAGM FOR DIRECTIONAL USE (REQUEST ITEM 000686)

**FULL TECHNICAL DATA SHEETS AND PRICES FOR ALL X-RAY UNITS ARE AVAILABLE ON REQUEST**



SCU286

## **X-RAY EQUIPMENT**

### **SITE - X      PANORAMIC X RAY SETS DC CRAWLERS**

NORMALLY OPERATING WITH CRAWLER CONTROL UNITS CCU 186 AND CCU 086 SERIES

#### **X RAY GENERATORS:**

C1603	-	160kV, 1-3mA	FOCAL SPOT 4mm DIA. X 0.5mm	ANGLE BEAM 360° (2X20°)
C2004	-	200kV, 1-4mA	FOCAL SPOT 5mm DIA. X 0.5mm	ANGLE BEAM 360° (2X20°)
C2254	-	225kV, 1-4mA	FOCAL SPOT 5mm DIA. X 0.5mm	ANGLE BEAM 360° (2X20°)
C2504	-	250kV, 1-4mA	FOCAL SPOT 5mm DIA. X 0.5mm	ANGLE BEAM 360° (2X20°)
C3003	-	300kV, 1-3mA	FOCAL SPOT 5mm DIA. X 0.8mm	ANGLE BEAM 360° (2X20°)
C3203	-	320kV, 1-3mA	FOCAL SPOT 5mm DIA. X 0.8mm	ANGLE BEAM 360° (2X20°)

THE C1603 IS SPECIFICALLY DESIGNED FOR 6" TO 12" PIPE SIZES

#### ALL UNITS FEATURE:

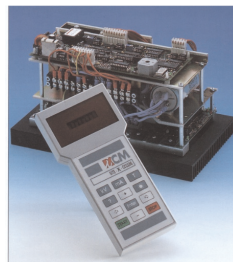
- 100% DUTY CYCLE AT 40°C AMBIENT TEMPERATURE
- A MICROCONTROLLER BOARD WITH TRUE kV AND mA MEASUREMENTS
- A EMR ( BEAM HOMOGENEITY ) MICROCONTROLLED REAL TIME SYSTEM
- WORKING AMBIENT TEMPERATURE: - 25°C TO 70°C
- FULLY LEAD SHIELDED
- TRUE IP65 WEATHERPROOF

#### WEIGHTS:

- C1603	-	8kgs WITH CCU 086 CONTROL UNIT
- C2004, C2254, C2504	-	26kgs
- C3003	-	28kgs
- C3203	-	34kgs

#### DIMENSIONS:

- C1603	-	124mm DIA. X 510mm HIGH (INCLUDING CCU 086)
- C2004, C2254, C 2504	-	248mm DIA. X 697mm HIGH
- C2003, C3203	-	248mm DIA. X 757mm HIGH



**CCU186**

#### **CRAWLER CONTROL UNIT CCU 086 FOR C1603 ONLY**

- INPUT LINE FROM 40TO 60VDC TO 48VDC NOMINAL
- 1 kV STEP TUBE VOLTAGE KEYBOARD SELECTION
- 0.1mA STEP CURRENT TUBE KEYBOARD SELECTION (MIN 1mA)
- DC INPUT VOLTAGE REGULATION BETTER THAN 0.2%
- SEMI-AUTOMATED WARM UP PROCEDURE
- WORKING AMBIENT TEMPERATURE - 25°C TO 85°C
- 1kg FULLY MOUNTED ON THE BACK OF THE C1603 TUBEHEAD
- OVERALL SIZE: SEE C1603 FULL SIZE ABOVE

#### SUPPLIED WITH:

- A DISCONNECTABLE POCKET SIZE REMOTE CONTROL UNIT CCU 186R
- A 2.0m INTERCONNECTION CABLE CCU 186R/CC086
- A 2.0m C1603 TUBEHEAD/CRAWLER INTERCONNECTION CABLE
- A SET OF CCU086/CCU086R USER MANUALS

#### **CRAWLER CONTROL UNIT CCU 186**

- INPUT LINE FROM 85 TO 140VDC-120VDC NOMINAL
- 1 kV STEP TUBE VOLTAGE KEYBOARD SELECTION
- 0.1mA STEP CURRENT TUBE KEYBOARD SELECTION (MIN 1mA)
- DC INPUT VOLTAGE REGULATION BETTER THAN 0.2%
- SEMI-AUTOMATED WARM UP PROCEDURE
- FULLY COMPATIBLE WITH ALL SITE-X TUBEHEADS
- WORKING AMBIENT TEMPERATURE - 25°C TO 85°C
- 4kgs FULLY MOUNTED INCLUDING AN ALUMINIUM COOLER
- OVERALL SIZE: 170(H) X 280(D) X 162 (W) mm

#### SUPPLIED WITH:

- A DISCONNECTABLE AFTER SETTINGS POCKET SIZE REMOTE CONTROL UNIT
- A 2.0m INTERCONNECTION CABLE CCU186R/CCU186
- A 2.0m TUBEHEAD / CCU186 INTERCONNECTION CABLE
- A SET OF CCU186 USER MANUALS

#### **CONVERSION KIT - FROM " CRAWLER " TO " STANDARD " ( NOT C1603 )**

##### COMPRISING:

- THE SITE - X SCU 286 STANDARD CONTROL UNIT
- ONE GUARD -RING FOR COOLING SIDE (1.8kgs)
- ONE GUARD - RING FOR CONNECTOR SIDE (1.8kgs)
- 3 X 700mm FFD TELESCOPIC CENTERING DEVICES
- A 6.0kgs - 20m TUBE HEAD / SCU286 INTERCONNECTION CABLE
- A 1.7kgs - 10m POWER SUPPLY CABLE
- A BAG FOR CABLES AND ACCESSORIES
- A SET OF SCU286 USER MANUALS IN ENGLISH

**FULL TECHNICAL DATA SHEETS AND PRICES FOR ALL X-RAY  
UNITS ARE AVAILABLE ON REQUEST**

## **X RAY EQUIPMENT**

### **BATTERY POWERED X-RAY GENERATOR CP1201**

Constant Potential Ultra lightweight Battery Powered X-Ray  
Generator For NDT and Security Inspections

### **X-RAY GENERATOR CP1201 – 120 KV CONSTANT POTENTIAL**

### **X-RAY GENERATOR CP1601 – 160 KV CONSTANT POTENTIAL**

**An updated version with improved specification**

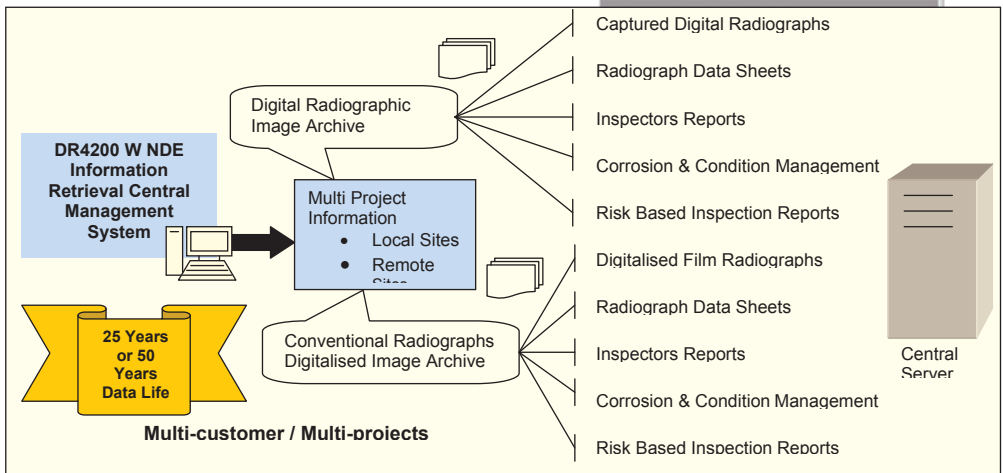
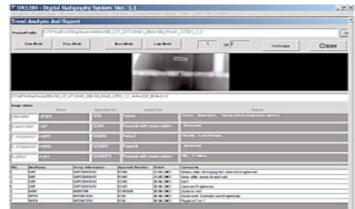
<b>Specifications:</b>	<b>120</b>	<b>160</b>
Voltage output type:	Constant Potential	Constant Potential
Voltage output range:	60 to 120 kV	60 to 160 kV
Current output:	1 mA	0.5 mA or greater
Max Anode Dissipation:	120 watts	80 watts
Focal spot:	0.25 x 0.5mm	0.4 x 0.8mm
Useful angle beam:	60° x 40°	55° x 40°
Inherent filtration:	equiv. 3.5mm Al.	equiv. 3.5mm Al.
Max steel penetration:	>10mm steel	21mm steel
Max. continuous exposure time:	600 Sec.	99 Sec.
Internal power supply:	36 VDC Ni-Cd	36 VDC Ni-Cd
Working time till battery low:	6min. at 20°C	6min
Number of shots at full charge:	40 shots	100 shots



**Further Information is Available Upon Request.**

## **FLEXIBLE DIGITAL RADIOGRAPHY SYSTEM**

Capture images using a reusable flexible imaging plate designed to be positioned and exposed in the same manner as the conventional photographic X-Ray film already familiar to site operators. After exposure the imaging plate is easily scanned to produce the Digital Electronic X-Ray image, which is viewed on the display monitor. Subsequent exposure to a conventional bright light source deletes the image from the plate enabling it to be continually reused.



## **GAMMA RAY EQUIPMENT**

<b>Iridium 192 Projectors &amp; Accessories</b> <b>Cat Number</b>		<b>Price</b>
	660 Overpack	£395.00
	Refurbished 660 c/w Posilock	£3250.00
	880 Projector, maximum capacity either 50ci Elite 130ci Sigma, 150ci Delta	£8050.00
	880 Omega (Lightweight)	£8050.00
	660 Portable Projector (Fully Refurbished)	Prices From £2600.00
	Narrow Body	Prices From £2500.00
	Other Types and Models are available on request	POA
<b>Controls and Accessories</b>		
<b>TAN25664</b>	664 Cable Reel/Hand crank with 25' cables	£2552.55
<b>TAN25693</b>	693 Pistol Grip Hand crank with 25' cables	£1755.60
	664 Windout Fully Refurbished	POA
	Full Gamma System 660 Projector, 664 Windout, Snout Tube, Extension Tube (Refurbished)	POA
	Automatic Windout Control – Gamma drive	POA
<b>Drive Cables, Source Tubes and Stops</b>		
<b>NDT Manufacture</b>	Source Guide Tube with Fixed Stop 2.1m	£99.00
<b>NDT Manufacture</b>	Source Guide Tube Extension 2.1m	£99.00
<b>48906 Original AEA Product</b>	Source Guide Tube with Fixed Stop 2.1m	£157.00
<b>48907 Original AEA Product</b>	Source Guide Tube Extension 2.1m	£157.00
<b>88081</b>	Guide Tube Swivel Adaptor, enables standard guide tube to fit 880 projector	£80.00
	Corbin Key	£15.00
	Full size dummy source for 660	POA
<b>52401-1</b>	Shipping Plug with wire storage plug	POA
<b>66001-39</b>	Storage Cover with chain	POA
<b>55008</b>	GO/NO GO Gauge	£16.50
	660 Side Plates	POA
<b>Source Positioning and Centering Tubes and Stops</b>		
	Burette Clamp	£18.00
	Clamp Holder	£22.00
	Tripod Base	£29.00
	Tripod Rod	£11.00
<b>Collimators</b>		
	Mini Lead Collimator	£100.00
<b>TCN714</b>	Mini Lead Collimator with 60 degree conical beam	£205.00
<b>TCN799</b>	Type 6 Mini Tungsten Collimator, side port 60 degree cone.	£292.00
<b>NDT Manufacture</b>	Mini Tungsten Collimator	£190.00
<b>Other Collimators are available on request</b>		



660 Projectors



693 Pistol Grip



Guide Tubes



Mini Tungsten Collimator



664 Windout



880 Projectors

## **RADIOACTIVE ISOTOPES**

<b>IRIDIUM 192</b>		
<b>Activity</b>	<b>Active Dimensions</b>	<b>Price</b>
100 Ci	3mm x 2.5mm	£2641.80
80 Ci	3mm x 2.0mm	£2322.45
70 Ci	3mm x 2.0mm	£2169.35
60 Ci	2mm x 2.5mm	£2020.80
50 Ci	2mm x 2mm	£1876.80
40 Ci	2mm x 1.5mm	£1737.30
30 Ci	2mm x 1mm	£1602.35
20 Ci	2mm x 1mm	£1471.95
<b>SELENIUM 75</b>		
<b>Activity</b>	<b>Active Dimensions</b>	<b>Price</b>
20Ci	2.00mm $\Phi$ Spherical	TBA
30Ci	2.50mm $\Phi$ Spherical	TBA
40Ci	2.50mm $\Phi$ Spherical	TBA
50Ci	2.85mm $\Phi$ Spherical	TBA
60Ci	2.85mm $\Phi$ Spherical	TBA
70Ci	3 x 3mm Quasi - Spherical	TBA
80Ci	3 x 3mm Quasi - Spherical	TBA

Other Isotopes are available, prices on request.

**An export licence is required for overseas deliveries. Applications take upto 60 days from receipt of End-User statement.**



## **RADIATION SAFETY**

<b>Personal Dosimeters and Monitors</b>		<b>Price</b>
	Quartz Fibre Pocket Dosimeter 0-200mR	£130.00
	Charger for Quartz Fibre Pocket Dosimeter	£150.00
<b>EPD Mk2</b>	Electronic Personal Dosimeter	POA
<b>ACT5</b>	Reader for Electronic Personal Dosimeter	POA
<b>EASY EPD 2</b>	Software for the Electronic Personal Dosimeter Reader	POA
<b>Personal Alarms</b>		
	MB2 Personal Radiation Alarm	£120.00
	Beeper III	£183.75
	Beeper SV	£255.00
	Beeper SV-SW	£277.50
<b>Survey Meters</b>		
<b>ND1000SA</b>	Radiation Survey Meter.	£618.75
<b>1000RA</b>	Mini Instruments type R Radiation Monitor.	POA
<b>RDS110</b>	Digital Survey Meter	£948.75
<b>Other Types Are Available</b>		
<b>Intrinsically Safe Survey Meter</b>		
<b>PRI190 - ATX</b>	Tracerco Radiation Monitor. Three ranges 0-100, 0-1000 0-10,000mSv/h. Group + Category 11 2 G	P.O.A
<b>Portable Warning Equipment</b>		
	MB30 Portable Radiation Warning System	£725.00
	Extension Beacon for above (Single Red Beacon)	£185.00
	Foghorn Hand Held Warning Siren Operated By Compressed Air Canister	P.O.A
	Spare Canister for above	P.O.A
	Mini Flashing Lamp c/w 9 volt Battery	£12.00
<b>HL-95</b>	Hazard Warning Lamp c/w Special Air Depolarised Battery	£160.00
	Status Enunciator c/w Lamp Failure Interrupt, 2 x Enunciator and Interface	P.O.A
	As above with additional Siren Failure Interrupt	P.O.A
	Radiographic Facility Alarm	P.O.A



MB2



Beeper SV



MB20



EPD Mk2

## **RADIATION SAFETY**

<b>Handling Tongs and Lead Shot</b>		
<b>Cat Number</b>	<b>Description</b>	<b>Price</b>
	Handling Tongs 100cm long	£32.00
	Handling Tongs 150cm long	£36.00
	Handling Tongs 200cm long	£40.00
<b>Barriers</b>		
	Barrier Rope 6mm diameter, 110 metre roll	£21.00
	Cordon Tape, Day-Glo, 20mm wide x 25 metre roll	Disc.
	Radiation Warning Banner, 10m long x 100mm wide Warning Message and Trefoil, any language	POA
	Radiation Barrier Tape Continuously printed with trefoil and 'Stop Radiation Keep Out' 40mm x 50m English or English/Arabic	£44.00
	As above complete with Windout Dispenser	£71.50
<b>Exposure Accessories</b>		
	S.C.R.A.T.A. Gamma Ray Exposure Calculator, Metric Scale Mk.V111 – New Slide Rule Design (Cobalt 60, Iridium 192, Ytterbium 169)	£30.75
	Gamma Ray Exposure Calculator for use with Agfa Films (Iridium / Cobalt)	£25.90
	Adhesive Black Lightproof Tape 50mm x 50 metre roll	£7.90
	Adhesive Black Waterproof Tape 50mm x 50 metre roll	£6.50
	Adhesive Masking Tape 25mm x 50 metre roll	£1.00
	Adhesive Masking Tape 50mm x 50 metre roll	£1.90
	Chinagraph Pencils, Yellow (Box 12)	£11.00
WWL	Warehouse Marking Crayons, Yellow (Box 12)	£2.10
WWT	Timber Marking Crayons, Yellow (Box 12)	£2.30
WBA	Paint Marker, White (3mm Ball)	£3.40
750	Permanent Paint Marker, White, Medium Conical Fibre Tipped	£2.75
<b>Other Markers and Colours available to order</b>		
	Pressident Marking System	£355.00
	Pressident Tape	£12.00
	Elastic Straps (Bungy Band) 12" length	£1.64
	Elastic Straps (Bungy Band) 18" length	£2.00
	Elastic Straps (Bungy Band) 24" length	£2.54
	Cassette Clamping Magnets, Film Bridge Type, Per Pair	£47.50
<b>Lead Vinyl Flexible Sheet</b>		
PB25	Pale Green 0.25mm Pb (100 x 60cm)	POA
PB50	Beige 0.50mm Pb (100 x 60cm)	POA
PB10	Yellow 1.00mm Pb (100 x 60cm)	POA
<b>Lead Aprons</b>		
SS310	Single (Front only) 0.35mm Pb, Length 100cm	£104.00
DS310	Double Sided 0.35mm Pb, Length 100cm	£189.00
	Safety Gloves 0.48mm PB/Rubber (Pair, size Medium)	£232.00
	Safety Glasses (No side PB)	£125.00



Lead Aprons



Handling Tongs



Lead Aprons

## **RADIATION SIGNS**

<b>Radiation Signs</b>			
<p>Rectangular signs in white PVC printed in red, yellow and black.</p> <p>Trefoil warning signs are in yellow and black.</p> <p>Prohibition signs are in red and black.</p> <p>Each has a space for the name of the Radiation Protection Supervisor and his telephone number. All of the signs are to the same basic design, conforming to the current ionising radiations regulations. They differ in the wording beneath the trefoil and in the prohibition.</p> <p>Signs are illustrated on the following page.</p>			
<b>Cat Number</b>	<b>Description</b>	<b>Size</b>	<b>Price</b>
70721	Rigid	320mm x 400mm	£16.00
70722	Self Adhesive	320mm x 400mm	£8.36
70723	Rigid	320mm x 400mm	£16.00
70724	Self Adhesive	320mm x 400mm	£8.36
70725	Rigid	320mm x 400mm	£16.00
70726	Self Adhesive	320mm x 400mm	£8.36
70727	Rigid	320mm x 400mm	£16.00
70728	Self Adhesive	320mm x 400mm	£8.36
70729	Rigid	320mm x 400mm	£16.00
70730	Self Adhesive	320mm x 400mm	£8.36
<b>Square sign in white PVC printed in black and yellow. This sign has a black ISO trefoil, triangle and has NO lettering. The inside of the triangle is yellow.</b>			
70731	Rigid	300mm x 300mm	£12.24
70732	Self Adhesive	300mm x 300mm	£3.77
<b>Rectangular sign in white PVC printed in black and yellow. This sign has a black ISO trefoil, triangle and lettering. The inside of the triangle is yellow.</b>			
70733	Rigid	300mm x 450mm	£14.28
70734	Self Adhesive	300mm x 450mm	£7.74
<b>Rectangular sign in flexible yellow PVC to USA Standard. Black ISO trefoil symbol and magenta lettering for threading onto barrier rope.</b>			
70708	Welded	205mm x 285mm	£2.08
70709	Welded	205mm x 285mm	£2.08
70710	Velcro	205mm x 285mm	£3.10
70711	Velcro	205mm x 285mm	£3.10
<b>Rectangular warning pennant in yellow, flexible PVC. This sign has a black ISO trefoil, triangle and lettering for threading onto barrier rope.</b>			
70735	Welded	205mm x 285mm	£2.08
70736	Velcro	205mm x 285mm	£3.10
<b>Rectangular sign printed in English/Arabic. Yellow laminate with red trefoil and black printing.</b>			
70712	Self Adhesive	380mm x 430mm	£11.10
70713	Welded	380mm x 430mm	£11.84
70714	Rigid	380mm x 430mm	£15.93
<b>Vehicle Warning Signs</b>			
70716	Self Adhesive	250mm x 250mm	£11.08
70717	Rigid	250mm x 250mm	£1.91
70715	Magnetic	250mm x 250mm	£6.12
<b>In accordance with The Radioactive Material (ROAD TRANSPORT) Regulations 2002 Orange Plate</b>			
70718	Magnetic	300 x 250mm (For large van)	£20.86
70719	Magnetic	300 x 120mm (For small van/car)	£11.02

## RADIATION SIGNS

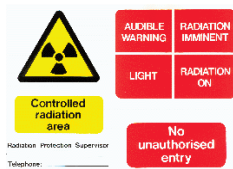
Cat 70708 – Welded – 70709



Cat 70710 – Velcro – 70711



Cat 70727 – Rigid  
Cat 70728 – Self Adhesive



Cat 70729 – Rigid  
Cat 70730 – Self Adhesive



Cat 70725 – Rigid  
Cat 70726 – Self Adhesive



Cat 70735 – Welded  
Cat 70736 – Velcro



Cat 70731 – Rigid  
Cat 70732 – Self Adhesive



Cat 70733 – Rigid  
Cat 70734 – Self Adhesive



Cat 70721 – Rigid  
Cat 70722 – Self Adhesive



Cat 70723 – Rigid  
Cat 70724 – Self Adhesive



Vehicle Radiation Sign.  
Rigid, Self Adhesive & Magnetic



## **PLASTIC CASSETTE INFORMATION**

### **Plastic Cassettes**

All types of Single-Envelope Plastic Cassettes are of the same design. They consist of a single envelope, open at one end, through which film and screens are loaded and unloaded. The open ends of the envelopes fold over, producing an effective light seal. They are then held closed by means of VELCRO® nylon fastener.

There is an extra finger-tab at the bottom to assist in holding the cassette to the bench for easier and quicker unloading. Closure is normally made on the shorter side of a rectangular cassette, special versions, with the opening on the long side, can be made to order.

**STANDARD SINGLE ENVELOPE CASSETTES** These are made from 400 micron black PVC and have become, over the years, the standard cassette for industry. We do not recommend their use in very cold weather and advise great care in loading and unloading them in sub-zero temperatures.

**REINFORCED SINGLE ENVELOPE CASSETTES** These are made from thin, yet strong PVC/Nylon/PVC laminated material. The nylon reinforcement is in the form of a mesh and reduces the tendency of the PVC to split at the seams after much use. The PVC laminate retains its flexibility in cold climates. Reinforced cassettes are therefore more suitable for use at low temperatures than the standard type.

**ONE SEAM SINGLE ENVELOPE CASSETTES** These represent the first major advance in cassette design since the introduction of 'VELCRO' fastening. Constructed in rugged nylon-reinforced PVC, they are made to outlast any other type of flexible cassette. They are constructed without side-seams, there is just one joint on the back of the cassette. This design overcomes the weakness of other single envelopes that are welded along the sides; there is no tendency to split.

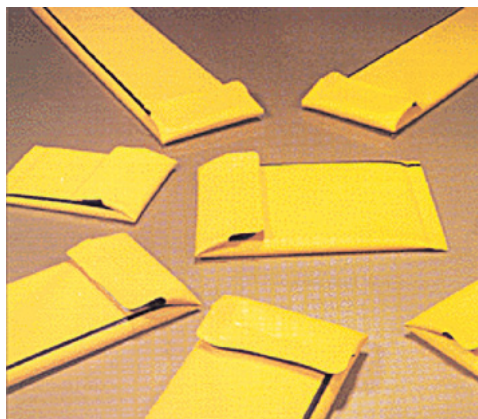
The Cassettes are made from specially - formulated, heavy-duty, nylon-reinforced PVC. They are black on the inside for light-tightness and yellow on the outside for easy recognition.

**HEAVY DUTY SINGLE ENVELOPE CASSETTES** These are made from double-thickness material consisting of one layer of standard PVC and one layer of the nylon-reinforced material. This combination produces a cassette capable of withstanding very tough treatment at normal temperatures.

**DOUBLE ENVELOPE CASSETTES** These consist of two plain black envelopes without any means of closure. Film and screens are loaded into the inner envelope, the smaller of the two. This is then inserted, open end first, into the larger outer envelope. Light – tightness is assured due to the open end of the inner is up against the closed end of the outer. They are made from the standard 400 micron material and are clearly marked 'INTEX BACK' on both the inner and the outer envelope for easy identification in the darkroom and out on site. The main advantage of Double-Envelope Cassettes is that they lie perfectly flat, having no fold-over ends or 'VELCRO' fastening.

## **RADIOGRAPHIC ACCESSORIES - CASSETTES**

SIZE	STANDARD	NYLON	ONE SEAM	DOUBLE	HEAVY DUTY
5 x 20cm	£1.47	£2.09	£2.59	£2.26	£2.71
5 x 40cm	£1.71	£2.51	£3.20	£2.77	£3.38
6 x 24cm	£1.65	£2.34	£2.91	£2.60	£3.05
6 x 40cm	£1.89	£2.74	£3.49	£3.08	£3.69
6 x 48cm	£2.00	£2.93	£3.77	£3.31	£4.00
7 x 40cm	£2.03	£2.92	£3.70	£3.33	£3.92
7 x 48cm	£2.16	£3.14	£4.03	£3.60	£4.28
9 x 12cm	£1.80	£2.41	£2.89	£2.81	£3.00
10 x 20cm	£2.07	£2.80	£3.41	£3.31	£3.57
10 x 24cm	£2.13	£2.90	£3.55	£3.43	£3.72
10 x 40cm	£2.43	£3.42	£4.29	£4.04	£4.54
10 x 48cm	£2.64	£3.76	£4.79	£4.44	£5.08
13 x 18cm	£2.37	£3.12	£3.74	£3.80	£3.91
15 x 40cm	£3.32	£4.60	£5.79	£5.62	£6.12
18 x 24cm	£3.25	£4.29	£5.21	£5.36	£5.45
18 x 43cm	£3.80	£5.20	£6.52	£6.45	£6.91
20 x 30cm	£3.78	£5.06	£6.23	£6.35	£6.56
24 x 30cm	£4.48	£5.97	£7.37	£7.55	£7.74
30 x 40cm	£5.77	£7.72	£9.60	£9.78	£10.15
35 x 43cm	£6.99	£9.40	£11.77	£11.85	£12.48
Canvas Cassette 70mm x 20 metre Roll – Side Seam					POA



## **RADIOGRAPHIC ACCESSORIES – SCREENS - MARKERS**

<b>Lead Intensifying Screens. 125/125mm Thick</b>			
<b>Size</b>	<b>5 Pair Pack</b>	<b>10 Pair Pack</b>	<b>25 Pair Pack</b>
5 x 20cm	£14.10	£21.96	£45.53
5 x 40cm	£21.18	£34.70	£75.28
6 x 24cm	£18.01	£29.21	£62.79
6 x 40cm	£25.68	£43.08	£95.28
6 x 48cm	£28.62	£48.69	£108.88
7 x 40cm	£29.97	£51.03	£114.22
7 x 48cm	£33.64	£58.04	£131.23
9 x 12cm	£17.62	£28.34	£60.50
10 x 20cm	£21.18	£34.70	£75.28
10 x 24cm	£23.33	£38.81	£85.25
10 x 40cm	£33.78	£58.07	£130.94
10 x 48cm	£38.09	£66.29	£150.88
13 x 18cm	£26.82	£45.04	£99.73
15 x 40cm	£45.70	£80.50	£184.89
18 x 24cm	£44.09	£77.42	£177.41
18 x 43cm	£60.59	£108.73	£253.16
20 x 30cm	£45.70	£80.50	£184.89
24 x 30cm	£52.16	£92.82	£214.80
30 x 40cm	£80.39	£146.31	£344.05
35 x 43cm	£95.29	£174.61	£412.57
<b>Other thicknesses are available. Please ask for further information</b>			

<b>Lead Markers, Sharp Faced, Un-mounted</b>	<b>Price Each</b>
6mm (1/4") A-Z	£0.08
6mm (1/4") 0-9	£0.08
6mm (1/4") Arrow symbol	£0.10
10mm (3/8") A-Z	£0.10
10mm (3/8") 0-9	£0.10
10mm (3/8") Arrow symbol	£0.12
13mm (1/2") A-Z	£0.12
13mm (1/2") 0-9	£0.12
13mm (1/2") Arrow symbol	£0.14
Plastic, Marker Storage Box, 40 compartments	£60.00
Other lead marker sizes available to order	



Lead Numbers

## **RADIOGRAPHIC ACCESSORIES – MARKER TAPES**

### **Lead Marker Tapes**

Marker Tapes are placed around the circumference of weld, adjacent to weld seam. Small lead numerals at 2, 5 or 10cms, inside heat resistant cloth/plastic tape are clearly visible in processed radiographs for the accurate location of suspect areas in welds for investigation or repair.

<b>Length</b>	<b>2cm Spacing</b>	<b>5cm Spacing</b>	<b>10cm Spacing</b>
0.5m	£8.90	£4.50	
1m	£17.95	£9.05	£5.72
1.5m		£13.55	£8.85
2m	£37.90	£18.10	£11.95
2.5m	£46.75	£22.60	£15.05
3m	£55.65	£27.10	£18.15
3.5m	£64.55	£31.65	£20.75
4m		£36.15	£24.35
5m		£45.20	£30.55
6m		£54.25	£36.75
7m		£63.30	£42.90
8m		£72.35	£49.15
9m		£81.40	£55.30
10m		£93.75	£63.95
12m		£112.50	£75.85
15m		£145.35	£95.45
20m		£196.85	£126.90

**Marker tapes can be produced to any length/increment. Prices available on application**

### **Magnetic Marker Tapes**

These are made from hard, yet flexible magnetic rubber faced with white PVC. Embossed lead identification markers are placed either at 5 or 10cm intervals. The markers are thick enough to ensure visibility on the radiograph without causing glare. They adhere firmly to all ferrous surfaces and do not require two-man operation.

**Sizes and prices are available on application.**



Lead Tapes



## **RADIOGRAPHIC ACCESSORIES – IQI's**

### **Image Quality Indicators**

EN 462 – 1

Each indicator consists of a series of seven parallel wires of different thickness and 10, 25 or 50mm long mounted between two thin sheets of transparent, flexible PVC. A lead monogram indicates the numbers of the thinnest and the thickest wires, the material and includes the EN symbol.

Model	Price	Model	Price
1 FE EN 10mm	£11.81	6 FE EN 10mm	£9.97
1 FE EN 25mm	£11.81	6 FE EN 25mm	£9.97
1 FE EN 50mm	£11.81	6 FE EN 50mm	£9.97
1 AL EN 10mm	£11.81	6 AL EN 10mm	£9.97
1 AL EN 25mm	£11.81	6 AL EN 25mm	£9.97
1 AL EN 50mm	£11.81	6 AL EN 50mm	£9.97
1 CU EN 10mm	£11.81	6 CU EN 10mm	£9.97
1 CU EN 25mm	£11.81	6 CU EN 25mm	£9.97
1 CU EN 50mm	£11.81	6 CU EN 50mm	£9.97
	£9.66		
10 FE EN 10mm	£9.66	6 TI EN 10mm	£48.26
10 FE EN 25mm	£9.66	6 TI EN 25mm	£48.26
10 FE EN 50mm		6 TI EN 50mm	£48.26
10 AL EN 10mm	£9.66	13 FE EN 10mm	£13.01
10 AL EN 25mm	£9.66	13 FE EN 25mm	£13.01
10 AL EN 50mm	£9.66	13 FE EN 50mm	£13.01
10 CU EN 10mm	9.66	13 AL EN 10mm	14.00
10 CU EN 25mm	9.66	13 AL EN 25mm	14.00
10 CU EN 50mm	9.66	13 AL EN 50mm	14.00
10 TI EN 10mm	48.26	13 CU EN10mm	14.00
10 TI EN 25mm	48.26	13 CU EN 25mm	14.00
10 TI EN 50mm	48.26	13 CU EN 50mm	14.00
		13 TI EN 10mm	50.96
		13 TI EN 25mm	50.96
		13 TI EN 50mm	50.96

1 FE EN		6 FE EN		10 FE EN		13 FE EN	
No.	Wire Diameter (mm)	No.	Wire Diameter (mm)	No.	Wire Diameter (mm)	No.	Wire Diameter (mm)
1	3.20	6	1.00	10	0.40	13	0.20
2	2.50	7	0.80	11	0.32	14	0.16
3	2.00	8	0.63	12	0.25	15	0.125
4	1.60	9	0.50	13	0.20	16	0.100
5	1.25	10	0.40	14	0.16	17	0.080
6	1.00	11	0.32	15	0.125	18	0.063
7	0.80	12	0.25	16	0.100	19	0.050
Use for material 40 – 160mm thick		Use for material 12.5 – 50mm thick		Use for material 5 – 20mm thick		Use for material 2.5 – 10mm thick	

## **RADIOGRAPHIC ACCESSORIES – IQI's**

### **Image Quality Indicators**

DIN 54 109

Each indicator consists of a series of seven parallel wires of different thickness and 10, 25 or 50mm long mounted between two thin sheets of transparent, flexible PVC. A lead monogram indicates the numbers of the thinnest and the thickest wires, the material includes the DIN symbol.

<b>Model</b>	<b>Price</b>	<b>Model</b>	<b>Price</b>
1 FE DIN10mm	£9.88	6 FE DIN 10mm	£8.01
1 FE DIN 25mm	£9.88	6 FE DIN 25mm	£8.01
1 FE DIN 50mm	£9.88	6 FE DIN 50mm	£8.01
1 AL DIN 10mm	£9.88	6 AL DIN 10mm	£8.01
1 AL DIN 25mm	£9.88	6 AL DIN 25mm	£8.01
1 AL DIN 50mm	£9.88	6 AL DIN 50mm	£8.01
1 CU DIN 10mm	£9.88	6 CU DIN 10mm	£8.01
1 CU DIN 25mm	£9.88	6 CU DIN 25mm	£8.01
1 CU DIN 50mm	£9.88	6 CU DIN 50mm	£8.01
10 FE DIN 10mm	£7.59	13 FE DIN 10mm	£11.16
10 FE DIN 25mm	£7.59	13 FE DIN 25mm	£11.16
10 FE DIN 50mm	£7.59	13 FE DIN 50mm	£11.16
10 AL DIN 10mm	£7.59	13 AL DIN 10mm	£12.19
10 AL DIN 25mm	£7.59	13 AL DIN 25mm	£12.19
10 AL DIN 50mm	£7.59	13 AL DIN 50mm	£12.19
10 CU DIN 10mm	£7.59	13 CU DIN 10mm	£12.19
10 CU DIN 25mm	£7.59	13 CU DIN 25mm	£12.19
10 CU DIN 50mm	£7.59	13 CU DIN 50mm	£12.19

<b>1 DIN FE</b>		<b>6 DIN FE</b>		<b>10 DIN FE</b>		<b>13 DIN FE</b>	
No	Wire Diameter (mm)	No	Wire Diameter (mm)	No	Wire Diameter (mm)	No	Wire Diameter (mm)
1	3.20	6	1.00	10	0.40	13	0.20
2	2.50	7	0.80	11	0.32	14	0.16
3	2.00	8	0.63	12	0.25	15	0.125
4	1.60	9	0.50	13	0.20	16	0.100
5	1.25	10	0.40	14	0.16	17	0.080
6	1.00	11	0.32	15	0.125	18	0.063
7	0.80	12	0.25	16	0.100	19	0.050
Use for Material 40-60mm thick		Use for Material 12.5 – 50mm thick		Use for Material 5 – 20mm thick		Use for Material 2.5 – 10mm thick	

## RADIOGRAPHIC ACCESSORIES – IQI's

### **Image Quality Indicators**

Each indicator consists of a series of six parallel wires of different thickness and 25 or 50mm long mounted between two thin sheets of transparent, flexible PVC.

Lead characters identify the wire thickness and the material. The letters ASTM are also included.

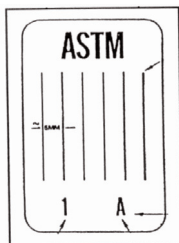
Standard	Model	Wire Length	Price
ASTM E – 747-97	Set A (FE)	50mm	£12.54
	Set B (FE)	50mm	£12.54
	Set C (FE)	50mm	£12.54
	Set D (FE)	50mm	£30.93
Standard	Model	Wire Length	Price
ASTM E – 747-97	Set A (AL)	50mm	£13.76
	Set B (AL)	50mm	£13.76
	Set C (AL)	50mm	£18.97
Standard	Model	Wire Length	Price
ASTM E – 747-97	Set A (CU)	50mm	£13.76
	Set B (CU)	50mm	£13.76
	Set C (CU)	50mm	£18.97
Standard	Model	Wire Length	Price
ASTM E – 747-97	Set A (TI)	50mm	£50.01
	Set B (TI)	50mm	£50.01

### **Wire Diameters (mm)**

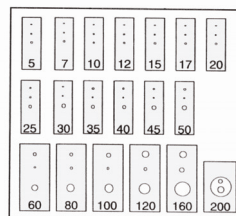
Set A	0.08	0.10	0.13	0.16	0.20	0.25
Set B	0.25	0.33	0.40	0.51	0.64	0.81
Set C	0.81	1.02	1.27	1.60	2.03	2.50
Set D	2.50	3.20	4.06	5.10	6.40	8.00

ASTM indicators are also available in 25mm lengths (with the exception of set D).  
Prices on request.

Certificates of conformity are available for DIN 54 109 and ASTM on request. Price per Indicator £1.00.



Hole Type IQI's  
P.O.A



## RADIOGRAPHIC FILM QUALITY CONTROL

GE Inspection Technologies (AGFA)			
Ref:	Description	Size	Price
28UHD	AGFA D7 Film (Box 100 sheets) FW	9 x 12cm	£57.22
31RWN	AGFA D7 Film (Box 100 sheets) FW	10 x 20cm	£102.96
28UMM	AGFA D7 Film (Box 100 sheets) FW	10 x 24cm	£110.98
28UQU	AGFA D7 Film (Box 100 sheets) FW	10 x 40cm	£172.73
27K1Z	AGFA D7 Film (Box 100 sheets) FW	10 x 48cm	£207.30
27K58	AGFA D7 Film (Box 100 sheets) FW	13 x 18cm	£108.22
27K9H	AGFA D7 Film (Box 100 sheets) FW	15 x 40cm	£254.79
28UYC	AGFA D7 Film (Box 100 sheets) FW	18 x 24cm	£184.27
28U3L	AGFA D7 Film (Box 100 sheets) FW	18 x 43cm	£321.48
27LDS	AGFA D7 Film (Box 100 sheets) FW	24 x 30cm	£299.05
27LH1	AGFA D7 Film (Box 100 sheets) FW	30 x 40cm	£494.26
27LMA	AGFA D7 Film (Box 100 sheets) FW	35 x 43cm	£635.48
27J78	AGFA D7 Rollpac PB (With lead screens)	70mm x 90m	£527.94
28LUZ	AGFA D7 Rollpac PB (With lead screens)	100mm x 90m	£720.02
Full AGFA Film range available. Details on request.			
KODAK Industrial X-Ray Films			
Ref:	Description	Size	Price
6095954	KODAK AA 400-1 Film (box 100 sheets) NIF	9 x 12cm	£46.34
5269618	KODAK AA 400-1 Film (box 100 sheets) NIF	10 x 24cm	£102.99
5229760	KODAK AA 400-1 Film (box 100 sheets) NIF	10 x 40cm	£171.64
5229786	KODAK AA 400-1 Film (box 100 sheets) NIF	15 x 40cm	£249.01
6095699	KODAK AA 400-1 Film (box 100 sheets) NIF	24 x 30cm	£296.55
6095707	KODAK AA 400-1 Film (box 100 sheets) NIF	30 x 40cm	£489.13
6549471	KODAK AA 400-1 Film (box 100 sheets) NIF	35 x 43cm	£627.15
5230214	KODAK AA 400-382 Film Leadpack Roll (with Lead screens)	70mm x 100m	£566.26
5230222	KODAK AA 400-382 Film Leadpack Roll (with Lead screens)	100mm x 100m	£766.62
Full KODAK Film range available. Details on request.			
Quality Control			
A simple method to determine Archival Quality of a processed X-ray film. Also indicates badly fixed and/or Washed films which may require additional treatment.			
Structurix Thio-Test Kit (Colour Comparator Set) requires:			
Cat Number	Description	Price	
3M2HM	Thiotest Reagent 35cc	£5.50	
FT5AL	Thiotest Colour Comparator	£48.10	
3UEPB	Structurix Certified Denstep (Certified Traceable to NBS)	£112.60	
Exposed, unprocessed PMC Strips in individual daylight packing used to Monitor the performance of Processed Chemical solutions for high quality processing			
3Q210	Processor Monitoring Control (PMC) Strip (Box 50)	£86.95	

## **RADIOGRAPHIC ACCESSORIES - CHEMICALS**

<b>GE Inspection Technologies (AGFA)</b>		
<b>Ref:</b>	<b>Description</b>	<b>Price</b>
35WGB	G135S Starter (4 x 5 litres)	£30.00
HNKDU	G135 Developer (2 x 5 litres to make 40 litres) Auto Processing	£49.60
38WRN	G335 Fixer (2 x 5 litres to make 40 litres) Auto Processing	£35.15
35TBN	G128 Developer (4 x 5 litres to make 100 litres) Manual Processing	£69.65
35TAL	G328 Fixer (4 x 5 litres to make 100 litres) Manual Processing	£70.58



<b>KODAK X-Ray Processing Chemicals</b>			
<b>Ref:</b>	<b>Description</b>	<b>Pack Size</b>	<b>Price</b>
5155924	Kodak INDUSTREX MANUAL DEVELOPER	2 x 20 litres	£60.54
Pack 2 x 20 Litre			
505.2584	Kodak INDUSTREX MANUAL FIXER	2 x 20 litres	£33.26
Pack 2 x 20 Litre			
5155924	Kodak INDUSTREX DEVELOPER/REPLENISHER		£60.54
Pack 2 x 20 litres			
8351413	Kodak INDUSTREX DEVELOPER STARTER		£21.79
Bottle 1.2 Litre			
5288998	Kodak INDUSTREX FIXER/REPLENISHER		£38.67
Pack 2 x 20 Litres			

## **RADIOGRAPHIC ACCESSORIES – FILM PROCESSING**

<b>Channel Hangers (Slide in) Stainless Steel</b>			
Films are held within grooves along both sides and bottom edge and secured by a hinged flap along the top edge. Films must be removed from the Channel Hanger before placing in a dryer in order to avoid drying marks.			
Size	Description	Single	Triple
9 X 12cm	Channel Hanger	£22.00	n/a
10 X 24 cm	Channel Hanger	£22.50	£55.00
10 X 40 cm	Channel Hanger	£23.00	£57.00
10 X 48 cm	Channel Hanger	£23.50	£58.00
15 X 40 cm	Channel Hanger	£24.00	n/a
18 X 24 cm	Channel Hanger	£24.50	n/a
24 X 30cm	Channel Hanger	£25.00	n/a
30 X 40 cm	Channel Hanger	£25.50	n/a
35 X 43cm	Channel Hanger	£26.00	n/a
Other sizes available P.O.A.			
<b>Processing Spirals (Spools) Stainless Steel</b>			
For roll film 70mm wide, any length up to 5 metres maximum			
<b>Spiral Loader</b>			Price
For processing spool 70mm x 3m			£67.20
Size	Description	Price	
70 mm x 3m	Roll Film Processing Spiral	£52.05	
70 mm x 5m	Roll Film Processing Spiral	£56.70	
100mm x 3m	Roll Film Processing Spiral	£54.80	
100mm x 5m	Roll Film Processing Spiral	£58.60	
12" length	Processing Spiral Rod	£13.10	
25" length	Processing Spiral Rod	£17.75	
30" length	Processing Spiral Rod	£18.80	
<b>Processing Accessories</b>			Price
Description			
Film Drying Clip with hook			£2.10

<b>Processing Tanks</b>			
	Capacity	Grey PVC	Stainless Steel
	13.5 litres      3 Gallons	£48.60	£140.00
	22.5 litres      5 Gallons	£55.20	£165.00
	45.0 litres      10 Gallons	£65.00	£180.00
<b>Processing Tank Lids</b>			
	Capacity	Grey PVC	Stainless Steel
	13.5 litres      3 Gallons	£19.10	£55.00
	22.5 litres      5 Gallons	£19.60	£55.00
	45.0 litres      10 Gallons	£22.10	£65.00

## **RADIOGRAPHIC EQUIPMENT – FILM PROCESSING**

<b>Manual Film Processing Units</b>				
Rigid PVC material with thermostatically controlled heater and digital temperature display. Prices include PVC tanks listed below. Requires suitable cold water and power supply.				
<b>Model GP2</b>				<b>Price</b>
Developer	1 x 22.5L (5 gallon) with lid	Final Wash 250mm length		
Stopbath	1 x 13.5L (3 Gallon)	Dimensions 920 x 670 x 880mm		
Fixer	1 x 22.5L (5 gallon)	Shipping 1040 x 880 x 1130mm	107kg	£1788.00
<b>Model GP3A</b>				
Developer	1 x 22.5L (5 gallon) with lid	Final Wash 345mm length		
Sprayrinse	1 x 22.5L (5 gallon)	Dimensions 1220 x 680 x 880mm		
Fixer	2 x 22.5L (5 gallon)	Shipping 1350 x 800 x 1130mm	203kg	£2196.00
<b>Model GP3C</b>				
Developer	1 x 45L (10 gallon) with lid	Final Wash 215mm length		
Stopbath	1 x 45L (10 gallon)	Dimensions 1220 x 680 x 880mm		
Fixer	1 x 45L (10 gallon)	Shipping 1350 x 800 x 1130mm	203kg	£2096.00

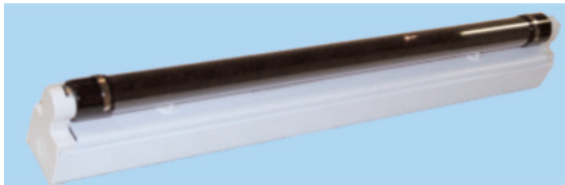
Packing & Shipping to UK address extra (approx. £130.00)

## **RADIOGRAPHIC EQUIPMENT – LAMPS, DRYERS, SUNDRIES**

<b>Safelamps &amp; Filters</b>		<b>Price</b>
	2' Fluorescent Safe Light complete with fixings (other sizes available on request)	£81.50
	Spare UV Tube for Above Other sizes available on request)	£35.00
	Safelamp Bulb, 25watt BC fitting, 240 volt	£1.50
<b>Sundry Items</b>		<b>Price</b>
	Tank Siphon, Plastic	POA
	Immersion Heater, 500 watt, 240 volt, figure '8' type	£247.50
	Mixing Paddle, Plastic	£23.25
	Film 'Squeegee', Approx 9" Rubber Blade	£24.90
	Stirring Type Digital Thermometer	£10.00
	Dark Room Wall Clock (Luminous Figures & Hands)	£35.00
	Count Down Digital Timer	£14.00
	Digital Stopwatch, Plastic Case	£9.98
Bench Type	Robust Stop Clock, 150mm dial, 0-60 seconds, 0-60 minutes, Quartz Movement	POA
	Film Storage Box for 70mm Roll Films with 25 compartments	£4.60
	Light Operated Film Marker	£300.00
<b>Film Dryers</b>		<b>Price</b>
EWTHW	Structurix DR Roller Film Dryer, 63cm x 60cm x 35cm 220/240v 50/60Hz or 120v 60Hz	£3361.50
D1009	Model 'B' Film Drying Cabinet. Overall dimensions 107cm high x 56cm deep x 56cm long, with Universal Hanging arrangement. Capacity 20 hangers. 240v. (For 110v 60 Hz price on application)	Disc.



Film Drying Cabinet



Darkroom Safelight



## RADIOGRAPHIC EQUIPMENT – VIEWERS, DENSITOMETERS, METERS

**Luminance** -The screen luminance required depends on the density of the radiographs. The following luminance levels are recommended for the perception of information at various levels. The luminance (or brightness) of the illuminated radiograph shall be not less than:

30 cd/m<sup>2</sup> for film densities < 2.5

10 cd/m<sup>2</sup> for film densities > 2.5

and wherever possible, approximately 100 cd/m<sup>2</sup> or higher. These minimum values require the following screen luminance's.

Film Density	Minimum Screen Luminance cd/m <sup>2</sup>
1	300
1.5	1,000
2	3,000
2.5	10,000
3	10,000
3.5	30,000
4	100,000
4.5	300,000

Cat Number	Film Viewers	Price
	Lumin S Executive High Intensity Viewer (Density 3.5)	£395.00
	Lumin S 500 Film viewer (Density 3.0)	£210.00
	Kowolux Model 3 Film viewer (Density 4.4)	£1458.00
	Spare Tube for Lumin S viewers	£7.50
	Spare Bulb for Kowolux Model 3 viewer	£71.50

Cat Number	Light Meters	Price
MKV1	Combined UV/White Light Meter	£650.00
DSE100X	Spectroline UV/White Light Meter	POA
J221	UV Light Meter	£345.00



Lumin S

## DENSITOMETERS

	Densitometers and Density Strips	Price
	DDS2 Digital Densitometer	£290.00
	Digit-X Densitometer	£412.11
	X-Rite 301X	£995.00
	X-Rite 341 Densitometer	£850.00
	Sensit-X Sensitometer	POA
	Calibrated Density Comparison Strip	£66.85
	AGFA Calibrated Denstep	£112.60
	Kodak Density Stepwedge 0.2-40 With Certification	£195.56



Densitometer DDS2



X-Rite 331



X-Rite 301



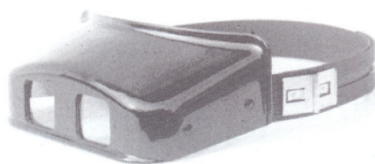
Agfa Density Stepwedge

## **INSPECTION MIRRORS – MAGNIFIERS – VELCRO TAPES**

<b>Inspection Mirrors</b>	<b>Description</b>	<b>Price</b>
	Telescopic Handle/Pocket type, 32mm diameter Mirror	£5.00
	Telescopic Handle/Pocket Type, 51mm diameter Mirror	£9.50
	Telescopic Handle/Pocket Type, 350mm x 750mm Mirror	£7.50
	Fixed Handle, 365mm length, 5.5cm diameter Mirror	£7.45
	Inspection Mirrors and parts	
	❖ Battery Handle c/w Batteries	£17.70
	❖ Light Probe 'STAYPUT' Flexible Section 150mm, Rigid 200mm length	£15.35
	❖ Probe Extension Piece, Rigid 380mm length	£13.90
	❖ Mirror, Articulated, 38mm diameter	£13.20
	❖ Mirror, Articulated, 65mm diameter	£13.50
	❖ Mirror, Articulated, 65 x 115mm	£13.20
	❖ Lamp Holder, Fits Handle and Accessories	£7.90
<b>Magnifiers</b>	<b>Description</b>	<b>Price</b>
	Magnifier 10 x c/w Standard Measuring Graticule	£74.95
	Illuminator for above magnifier c/w 2 x 'C' cells	£21.70
	Other Measuring Graticules are available	£13.80
	Headband Magnifier 2.7x. Adjustable band, can be worn over spectacles – raised or lowered for use, leaves both hands free	£52.75
	Spare lenses for above 1.8x or 3.5x	£21.00
<b>Velcro Tapes</b>	<b>Description</b>	<b>Price</b>
	Sew on Type, 25mm x 25mts Twin Roll (Hook and Loop) Black	POA
	Sew on Type, 50mm x 25mts Twin Roll (Hook and Loop) Black or White	POA
	Self Adhesive, 25mm x 25mts Twin Roll (Hook and Loop) Black	POA
	Self Adhesive, 50mm x 25mts Twin Roll (Hook and Loop) Black or White.	POA



Inspection Probes and  
Mirrors



Head Band Magnifier

**NDT EQUIPMENT SERVICES LTD ARE AN OFFICIAL DISTRIBUTER OF  
MAGNAFLUX PRODUCTS**

**PLEASE NOTE: THAT THESE ARE ONLY AVAILABLE IN DESIGNATED AREAS.**

**CONTACT ONE OF OUR OFFICES FOR CONFIRMATION.**

<b>Zygo Water Washable Fluorescent Penetrants</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
056C061	ZL-15B Level	25 Lt	£190.00
056C062	ZL-15B Level	200 Lt	£1437.00.00
056C185	ZL-19 Level 1	25 Lt	£207.00
056C186	ZL-19 Level 1	200 Lt	£1622.00
056C205	ZL-60C Level 2	25 Lt	£233.00
056C206	ZL-60C Level 2	200 Lt	£1760.00
008A008	ZL-60C Level 2	10 x 400ml Aerosol	£81.00
056C010	ZL-60D Level 2	25Lt	£247.00
056C011	ZL-60D Level 2	200Lt	£1858.00
056C032	ZL-67 Level 3	25Lt	£382.00
056C033	ZL-67 Level 3	200Lt	£2772.00
056C034	ZL-67B Level 3	25Lt	£370.00
056C035	ZL-67B Level 3	200Lt	£2721.00
056C201	ZL-56 Level 4	25Lt	£440.00
<b>Post Emulsifiable Fluorescent Penetrants</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
056C079	ZL-2C Level 2	25Lt	£225.00
056C080	ZL-2C Level 2	200Lt	£1577.00
066C017	ZL-27A Level 3	25Lt	£30400
066C016	ZL-27A Level 3	200Lt	£2324.00
008A002	ZL-27A Level 3	10 x 400ml Aerosol	£85.00
066C020	ZL-37 Level 4	25Lt	£379.00
066C019	ZL-37 Level 4	200Lt	£2835.00
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
065C002	ZR-10C	25Lt	£237.00
065C003	ZR-10C	200Lt	£1721.00
065C025	ZE-4B	25Lt Emulsifier	£220.00
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
055C022	ZP-4B	1Kg Dry Powder	£34.00
055C023	ZP-4B	5Kg	£139.00
055C002	ZP-5B	5Kg Water Suspensible	£124.00
008A010	ZP-9F	10 x 400ml Aerosol Solvent Based	£82.00
055C010	ZP14A	5Kg Water Soluble	£102.00
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
007E025	ZA 43 Kit	Carry Case Containing: 2 x Aerosol SKC-S Cleaner 1 x Aerosol ZL-60C Penetrant 1 x Aerosol ZP-9F Developer 1 x Container ZP-4B Dry Developer 1 x ZB100F Hand Held U.V.(A) Light 1 x Wire Brush 2 x Cloths	£900.00

## MAGNETIC PARTICLES

<b>Wet Method Fluorescent Particles</b>			
Part Number	Model	Description	Price
059C024	14A	500G	£80.00
059C025	14A	1Kg	£137.00
059C026	14A	5Kg	£625.00
057C036	MG410	1Kg	£153.00
<b>Water Suspendible Fluorescent Particles</b>			
Part Number	Model	Description	Price
057C023	20B	1Kg	£52.00
057C024	20B	5Kg	£167.00
058C031	WB12	10 x 500ml Bottle	£130.00
<b>Ready To Use MPI Ink (Fluorescent)</b>			
Part Number	Model	Description	Price
058C006	14HF	4 x 5 Lt	£117.00
058C007	14HF	25Lt	£132.00
008A105	14HF	10 x 400ml	£58.00
058C016	410HF	25Lt	£142.00
008A106	410HF	10 x 400ml	£58.00
<b>Oil Based Carrier For MPI</b>			
Part Number	Model	Description	Price
058C024	Carrier II	25Lt	£123.00
058C028	Carrier II	200Lt	£913.00
<b>Water Suspendible Particles</b>			
Part Number	Model	Description	Price
057C019	27B	5Kg	£88.00
<b>Ready To Use MPI Ink</b>			
Part Number	Model	Description	Price
058C001	7HF	4 x 5Lt	£117.00
008A103	7HF	10 x 400ml Aerosols	£58.00
<b>Water Vehicle Conditioners</b>			
Part Number	Model	Description	Price
055C042	WA-2B	1Kg	£30.00
064C015	WA-4E	5Lt	£125.00
<b>White Contrast Paint</b>			
Part Number	Model	Description	Price
055C027	WCP-2	4 x 5Lt	£192.00
008A009	WCP-2	10 x 400ml Aerosol	£69.00



## WET HORIZONTAL MAGNETIC PARTICLE INSPECTION UNITS

<b>Portable Magnetic Equipment</b>			
<b>Part Number</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
001Y005	YM5	Permanent Magnet Yoke	£449.40
001M008	PM68	Horse Shoe Magnet	£437.85
008C020	L-10	Magnetising Coil 110v only 50Hz	£1067.85
001Y025	Y1	Electro-Magnet 230v, 50Hz	£450.00
001Y004/020	Y6	Electro-Magnet 110v 50Hz or 230v 50Hz	£450.00
001Y024	Y8 Kit	Electro-Magnet 6v DC Battery Operated	£704.00
001Y018	Y7	Electro-Magnet AC/DC 230v 50/60Hz	£773.85
<b>Portable Power Packs</b>			
007E005	P920	1500 Amp AC/HWDC 220/240v	£5028.00
027T002		Trolley Unit for Portable Power Pack P920	£870.00
001C090	P920	Standard prod set with switch & 4.5m cable eitherend)	£790.00
<b>Mobile Power Packs</b>			
007E218	MAG 50/3H/M	3000 Amp AC/HWDC 380/415v	£13,752.00
007E219	MAG 50/5H/M	5000 Amp AC/HWDC 380/415v	£14,814.00
<b>Demagnetisers</b>			P.O.A
Full Range Available, Prices and Specifications Available On Request			



ZYGLO ZA-28 Series



Portable Power Pack



Permanent Magnet



Y7 Series Yoke  
Electro Magnet  
Yoke



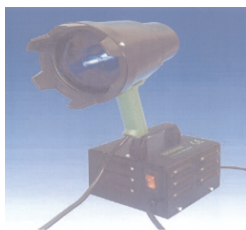
Y6 Series Yoke  
Electro Magnetic  
Units



Air / Water Gun

## **U.V.(A) [BLACK] LIGHTS AND METERS**

<b>UV(A) Light System</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
032B023	ZB100F	Fan Cooled Hand Held 100w UV Light with Control Unit 110, 220 or 240v, 50Hz	£591.00
032B023A	ZB100F	Fan Cooled Hand Held 100w UV Light with Control Unit 110, 220 or 240v, 60Hz	£624.00
032B028	ZB35BP	Battery Powered High Output UV(A) Lamp with AC Adapter and Charger 230v, 50/60Hz	£1882.00
032B037	ZB400F	Suspendible UV(A) Light 400w 230v, 50Hz	PAO
032B038	ZB250F	Fan Cooled Hand Held 250w Flood UV Light with Control Unit	PAO
<b>UV(A) Light Bulbs</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
002L075	ZB100F	100w Medium Base Bulb (For ZB100F)	£80.00
002L134	ZB135 XHID	Replacement Bulb for UV270 & AB35BP	£329.00
002L142/3	ZB250F/400F	Replacements Bulb for ZB250F & 400F	£228.00
<b>Filters</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
008F012		Smooth Filter Glass for 100w Lamps	£51.00
<b>UV(A) Light Spares</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
003F021		Cooling Fan for ZB100F	£42.00
005V004		Voltage Selector Only for Control Units (No Fuse Holder)	£20.00
600063		Medium Base Replacement Socket for ZB100F (511870)	£21.00
074C126		Thermal Switch, 3 amp (ZB100F Units, from October 1996)	£47.00
<b>Control Units</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
001T257		Replacement Transformer for ZB100F, 60Hz	£60.00
001T251		Replacement Transformer for ZB100F, 50Hz	£60.00
001T250		Replacement Choke for ZB100F	£26.00
<b>Other UV(A) Light Accessories</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
023A008		Adjustable Fixture for 100w Hand Lamp (Unit Mounting)	£292.00
023A008B		Adjustable Fixture for 100w Hand Lamp (Bench Mounting)	£327.00



ZB100F Black Light

## WET HORIZONTAL MAGNETIC PARTICLE INSPECTION UNITS

Magnetic Particle Inspection Equipment			
Part Number	Model	Description	Price
007E045	MAG 20	220 / 240v 50Hz Power Supply Component Length 550mm 1000 Amp A.C (RMS) Power Output	£10,169.00
007E241	MAG 40 HD	380 / 415v 50Hz Power Supply Component Length 1000mm 2500 Amp A.C. (RMS) Power Output 2500 Amp H.W.D.C. (MEGAMPS) Power Output	£21,209.00
007E243	MAG 40 HFD*	380 / 415v 50Hz Power Supply 20,000 Ampere – Turns Magnetic Flow Component Length 1000mm 2500 Amp A.C. (RMS) Power Output 2500 Amp H.W.D.C. (MAGAMPS) Power Output	£23,587.00
007E224	MAG 50/3H/15	380 / 415v 50Hz Power Supply Component Length 1.5mtr 3000 Amp AC (RMS) Power Output 3000 Amp HWDC (MAGAMPS) Power Output	£34,908.00
007E225	MAG 50/3H/20	<b>As Above</b> , Component Length 2.0 metres	£36,183.00
007E226	MAG 50/3H/25	<b>As Above</b> , Component Length 2.5 metres	£37,370.00
<b>Optional coil sizes available</b>			P.O.A
007E228	MAG 50/5H/15	380/415v Power Supply Component Length 1.5 metres 5000 Amp AC (RMS) Power Output 5000 Amp HWDC (MAGAMPS) Power Output	£36,409.00
007E229	MAG 50/5H/20	<b>As Above</b> , Component Length 2.0 metres	£37,684.00
007E230	MAG 50/5H/25	<b>As Above</b> , Component Length 2.5 metres	£38,871.00
<b>Optional coil sizes available</b>			P.O.A
007E236	MAG 50/6FR/15	380/415v 3 Phase 50 Hz Power Supply Component Length 1.5 metres 6000 Amp FWDC Power Output	£53,271.00
007E237	MAG 50/6FR/20	<b>As Above</b> , Component Length 2.0 metres	£54,338.00
007E238	MAG 50/6FR/25	<b>As Above</b> , Component Length 2.5 metres	£55,549.00
<b>Optional coil sizes available</b>			P.O.A
Full Range of Magnaflux Products Available, Datasheets and Specification Available On Request.			



MAG 20 Series



MAG40 Series



MAG50 Series



## **MAGNETIC PARTICLE ACCESSORIES**

<b>Magnetic Particle Operating Accessories</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
072S006	MAG 50 Series	Head / Tailstock 'V' Block	£42.00
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
15495A3	MAG 40 Series	Head / Tailstock 'V' Block	£34.00
<b>Contacts For Wet Horizontal Units</b>			
<b>Part No</b>		<b>Description</b>	<b>Price</b>
031C003		Double Braided Contact Pad with Neoprene	£219.00
031C020		Contact Pad MAG 50 Series (Earlier models need 072S006)	£105.00
031C016		Contact Pad MAG 40 Series (All Versions)	£60.00
031C014		Contact Pad MAG III	£95.00
031C010		Contact Pad MAG II & MAG II H	£39.00
031C012		Contact Pad MAG II F & MAG II HF	£39.00
20245A2		Lead Contact Plate MAG 50	£75.00
031C005		Lead Contact Plate (DR,DRC,TACH,TAEH,TAQ & H) Series	£74.00
023A007		Contact Block (Remote Testing Using Power Pack In Unit)	£84.00
<b>Other Operating Accessories</b>			
<b>Part No</b>		<b>Description</b>	<b>Price</b>
028T002		Central Conductor 12mm dia. X 300mm	£84.00
028T004		Central Conductor 25mm dia. X 600mm	£113.00
004G006		Magnaglo Applicator for ½" bore hose	£113.00
<b>Coils</b>			
<b>Part No</b>		<b>Description</b>	<b>Price</b>
008C033		150mm dia. Coil only – Mag 20 & Mag 40 Series Only	£381.00
<b>Product Set &amp; Assemblies</b>			
<b>Part No</b>		<b>Description</b>	<b>Price</b>
001C090		Standard Prod Set with Switch & 4.5m Cable (Eitherend)	£790.00
001C164		Standard Prod Set with Switch & 4.5m Cable	£702.00
001C162		Standard Prod Set with Switch & Double 3.75m Cable (Lug)	£901.00
025T008		Replacement Mild Steel Tips	£22.00
038P003		Replacement Prod Stem	£25.00
015S178		Replacement Switch	£24.00
<b>Contact Clamps</b>			
<b>Part No</b>		<b>Description</b>	<b>Price</b>
023C002		Spring Loaded Contact Clamp	£39.00
<b>Cables and Connectors</b>			
<b>Part No</b>		<b>Description</b>	<b>Price</b>
001C163		3.75m Cable (Lug Both Sides)	£175.00
001C165		4.5m Cable (Lug Both Sides)	£202.00
001C166		7.5m Cable (Lug Both Sides)	£317.00
001C167		9.0m Cable (Lug Both Sides)	£388.00
001C020		Cable Only (Per Metre)	£44.00
Other Cable Lengths and Connector Combinations			P.O.A

## **MAGNETIC PARTICLE ACCESSORIES**

<b>Cables Connectors</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
1238		108mm2 Eitherend Connector	£63.00
1574		Eitherend Lug Adapter 108mm2	£85.00
1576		Eitherend Lug Adapter, 90 degree, 108mm2	£85.00
<b>Control Cable</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
001C057		Remote Control Lead with Hand Button	£1,2800
<b>Other Operating Accessories</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
008C039		Split Coil, 300mm Diameter. 108mm2 Cable with Eitherend	£1,616.00
008C042		Split Coil, 630mm Diameter. 108mm2 Cable with Eitherend	£2,030.00
<b>Wet Particle Bath Sprayers</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
004G004		Magnaglo Hand Sprayer (Polyspray)	£42.00
<b>Dry Powder Blowers</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
008D003		Powder Spray Bulb (Dispenser)	£26.00
<b>Test Pieces With Artificial Defects</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
519630	KSC 230	Std QQI Model, Flaw Depth 30% of Shim Thickness	£45.00
519631	KSC4-230	Std QQI Model, Flaw Depth 30% of Shim Thickness 4 Circles Per Sheet	£38.00
519632	KSCT-234	Variable Depth QQI Model, Flaws 20%, 30%, 40% of Shim Thickness	£44.00
008M004	TYPE G	Magnetic Indicator Strips (G) General (5 Pack)	£96.00
008M005	TYPE A	Magnetic Indicator Strips (A) Aerospace (5 Pack)	£96.00
026T001	TEST PIECE	Current Flow 0-1000Amp (BS 6072 & RPS 700)	£278.00
026T003	TEST PIECE	Current Flow 1000-3000Amp (RPS 700)	POA
026T004	TEST PIECE	Current Flow 3000-5000Amp (RPS 700)	POA
026T002	TEST PIECE	Magnetic Flow / Coil (RPS 700)	£150.00
026T041	TEST PIECE	Magnetic Flow / Coil (BS 6072)	£163.00
026T006	TAM 150537	Continuous Method Test Block (75130)	£115.00
026T005	TEST PIECE	Ketos Test Ring (159999)	£321.00
189838	TEST PIECE	Magnetic Particle Test Bar (MIL STD)	£363.00
<b>Centrifuge Tubes &amp; MPI Publications</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
020B001		Book – 'Principles of MPI Testing'	£156.00

## **PENETRANT SYSTEMS**

<b>Part No</b>	<b>Description</b>	<b>Price</b>
008Z030	Penetrant / Emulsifier Tank	£1,094.00
008Z031	Removable Lid	£177.00
008Z032	Drain Tray & Grille	£734.00
008Z033	Wash Tank	£1,126.00
023A020	Water Wash Only Gun, Regulator & Gauge	£301.00
023A021	Air / Water Wash Gun, Regulators & Gauges	£667.00
023A022	Air / Water Wash Gun, Regulators & Gauges Calibrated to R.P.S 702	£1,439.00
008Z034	Splash Shield	£313.00
050P001	UV(A) Light Post Inc. 400W Light	£3,289.00
008Z035	Drier Top Loading Must Be Purchased with Developer	£5,542.00
008Z036	Developer Top Loading, Must Be Purchased with Drier	£5006.00
008Z037	Inspection Booth c/w ZB100F UV(A) Light	£2,405.00
008Z038	Base Tank Grille	£165.00
008Z039	Clip On Half Grille	£114.00

<b>Part No</b>	<b>Description</b>	<b>Price</b>
008Z021	Penetrant / Emulsifier Tank	£1,541.00
008Z029	Removable Lid	£197.00
008Z023	Drain Tray & Grille	£772.00
008Z024	Wash Tank	£1,569.00
023A020	Water Wash Only Gun, Regulator & Gauge	£301.00
023A021	Air / Water Wash Gun, Regulators & Gauges	£667.00
023A022	Air / Water Wash Gun, Regulators & Gauges Calibrated to R.P.S. 702	£1,439.00
023A025	Splash Shield	£325.00
050P001	UV(A) Light Post Inc. 400W Light	£3,289.00
008Z026	Drier Top Loading**	£7,798.00
008Z004	Developer Top Loading Non Extract	£7,293.00
008Z005	Developer Top Loading With Extract	£13,361.00
008Z011	Inspection Booth c/w ZB100F UV(A) Light	£2,991.00
15468A2	Base Tank Grille	£165.00
008Z039	Clip On Half Grille	£114.00

### **\*\*A Rest / Drain is Required Between Wash Tank & Drier**

<b>Part No</b>	<b>Description</b>	<b>Price</b>
007Z100	Penetrant or Emulsifier Station	£1,634.00
007Z101	Hinged Cover	£490.00
007Z102	Aluminium Base Grille	£449.00
007Z103	Drain – Straight Section, Stainless Steel Rollers	£1,408.00
007Z105	Rinse Station	£2,058.00
007Z107	Hood with UV(A) Strip Light	£4,121.00
050P001	UV(A) Light Post Inc. 400W Light	£3,289.00
023A020	Water Wash Only Gun, Regulator & Gauge	£301.00
023A021	Air / Water Wash Gun, Regulators & Gauges	£667.00
023A022	Air / Water Wash Gun, Regulators & Gauges Calibrated to R.P.S. 702	£1,439.00
007Z106	Splash Shield	£684.00
007Z108	Drier – Top Loading with Pneumatic Lift Lid	£18,435.00
007Z111	Dry Developer Storm Cabinet – Top Load with Pneumatic Lift Lid	£21,960.00
007Z112	Inspection Booth c/w ZB100F UV(A) light, white light and Vent Axia - Split Roof & Table	£7,561.00

## **PENETRANT SYSTEMS**

<b>Spraying Equipment</b>			
<b>Part Number</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
REA90		Electrostatic Penetrant Spray	P.O.A
PPL1201		Electrostatic Drum Pump Unit (25Ltr)	P.O.A
81-2300		Electrostatic Drum Pump Unit (200Ltr)	P.O.A
EASY 1B		Electrostatic Dry Developer Spray	P.O.A
20L		Hydrophilic Remover Foam Applicator (20Ltr)	P.O.A
50L		Hydrophilic Remover Foam Applicator (50Ltr)	P.O.A

## **FILTRATION SYSTEMS**

<b>Carbon Filter Units</b>			
<b>Part Number</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
009Z001*	S500	Capacity (Nominal) Up To 500Ltr Per Hour Transfer Pump 220/240v, 1 Phase, 50Hz Controls: Motor Starters Float Switches	£16,272.00
009Z002*	S500C	Capacity (Nominal) Up To 500Ltr Per Hour Coalescer For Pre-Rinse Oil Separation Transfer Pump 220/240v, 1 Phase, 50Hz Controls: Motor Starters Float Switches	£17,547.00
009Z013	S200	Pump Stop / Starter Float Switch, (Preventing the pump from running dry) 200 litre maximum tank capacity Re-circulating Pump 200 litre Carbon Drum	£6,189.00

<b>Consumables</b>			
<b>Part Number</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
079C002		Activated Carbon Granules (25Kg Bag)	£226.00
015F004		Replacement Coalescer Cartridge	£152.00
015F029	S200	Replacement 200 litre Carbon Drum	£838.00

## **SPOTCHECK**

<b>Spotcheck Visible Dye Penetrant</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
055C035	SKL-SP1	4 x 5Lt Solvent Removable	£209.00
008A015	SKL-SP1	10 x 400ml Aerosol	£74.00
055C066	SKL-WP	4 x 5ml Water Washable	£227.00
055C067	SKL-WP	25Lt	£273.00
008A162	SKL-WP	10 x 400ml Aerosol	£81.00
<b>Developers</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
055C014	SKD-S2	4 x 5Lt Solvent Based	£172.00
008A007	SKD-S2	10 x 400ml Aerosol	£79.00
<b>Cleaners / Removers</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
054C007	SKC-S	4 x 5Lt Solvent Based	£149.00
054C008	SKC-S	25Lt	£165.00
008A100	SKC-S	10 x 400 Aerosol	£65.00
<b>Kits</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
008A038	SK 3 Kit	Soft Carry Case Containing: 3 x Aerosol SKC-S Cleaner 2 x Aerosol SKL-SP1 Penetrant 3 x Aerosol SKD-S2 Developer 1 x Cloth	£100.00
053C008	SK 3 Kit	Shoulder Carry Case (Soft)	£33.00
<b>Consumables</b>			
<b>Part No</b>	<b>Model</b>	<b>Description</b>	<b>Price</b>
		MADE TO ORDER ONLY BASIS AND SUBJECT TO MINIMUM QUANTITIES	
01-5150-75	SKL-SP1	Penetrant Pens x 12	POA
01-3188-75	ZL37	Penetrant Pens x 12	POA
056C005	MX BK2	General Biocide for Aqueous Systems 5 litre Minimum batch quantity	£132.00
056C224	AL-4B	Water Based, Water Washable Fluorescent Penetrant 25lt.	£145.00
056C225	AL-4B	Water Based, Water Washable Fluorescent Penetrant 200lt	£901.00
064C022	ZAF-1	Antifoam 500g – Minimum Batch Quantity – 500g	£50.00

## **MPI – MAGNETS, YOKES, WEIGHTS**

<b>Magnetic Particle Inspection</b>	
<b>Permanent Magnets</b>	<b>Price</b>
Medium Size Horse Shoe Magnet (Without Wheels)	£83.50
Large Size Horse Shoe Magnet (Without Wheels)	£132.00
ELYMAG 1 Magnet with Hinged Legs and Adjustable Pole Pieces	£290.00
Fleximag, Magnet with Flexible Handles to allow 360 degree Inspection	£194.75
Polymag, Encapsulated Horse Shoe Magnet	£299.25
<b>Electro Magnetic Yokes</b>	<b>Price</b>
Adjustable Yoke 110 volt AC (NOT MAGNAFLUX Y6)	£430.00
Adjustable Yoke 240 volt AC (NOT MAGNAFLUX Y6)	£430.00
Spare Switch Assembly (NOT MAGNAFLUX PRODUCT)	£45.30
Induction Light for Electromagnets (NOT MAGNAFLUX PRODUCT)	£99.00
Carry Case (Canvas)	POA
<b>Magnet Test Weights</b>	<b>Price</b>
4.5 kg Electromagnet Test Weight c/w Certificate	£110.00
18 kg Permanent Magnet Test Weight c/w Certificate	£129.00
Other size Test Weights to customer specification	POA



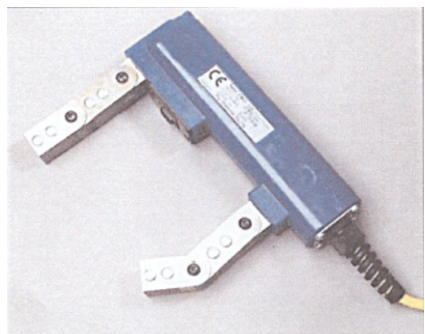
POLYMAG



PERMANENT MAGNET PYM180



FLEXIMAG



ELECTRIC MAGNETIC YOKE

## **MAGNETIC PARTICLE INSPECTION**

<b>Ultra Violet Lamps</b>	<b>Price</b>
B – 100AP UV Lamp, 240 volt	POA
CFL 100F Dual Voltage Ultra Violet Lamp	£618.80
CFL 100F Dual Voltage Ultra Violet Lamp c/w Adjustable Arm	£725.00
CFL 125 125w Hand Lamp (240 volt only)	Discon.
<b>Accessories and Spares</b>	<b>Price</b>
Spot Lamp H44GS 100w ES Fitting	£78.00
Pear Shaped Lamp HPW 125w ES Fitting or 3 Pin Bayonet Fitting	£52.00
Spare Glass Filter for CFL100F Lamp	£52.65
Spare Filter/Bezel for B-100AP	POA
Spare Finger Guard for B-100AP	POA
Spare Lamp Visor for B-100AP	POA
UVA Absorbing Spectacles	£24.80
<b>Flux Indicators</b>	<b>Price</b>
Surecheck Indicators Type 1 (Brass) General	£68.10
Surecheck Indicators Type 2 (Silver) Aerospace	£68.10
Flux Indicator Type 4	POA
Berthold Penetrantmeter	£223.00
A.S.M.E. Indicator	£208.20
<b>Magnetometers/Field Indicators</b>	<b>Price</b>
Model 25 – Magnetometer (calibrated) (20+0-20)	£216.60
GM-1 Digital Gaussmeter (Magnetic Field Gauge) c/w Transverse Probe, Battery, Full Operation Manual, Zero Gauss Chamber & Carry case	£515.00



UV Absorbing Spectacles



CFL 100F Ultraviolet Lamp with Adjustable Arm Attachment



CFL 100F Ultraviolet Lamp



Calibrated Field Indicator



ASME Field Indicator



Berthold Penetrantmeter



Field Indicators

## **MAGNETIC PARTICLE - ACCESSORIES**

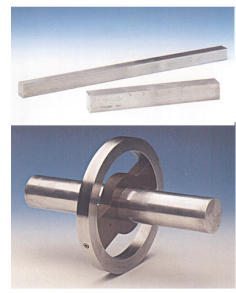
<b>Accessories and Spares</b>	
<b>Description</b>	<b>Price</b>
Surcheck Indicators Type I (Brass) General	£68.10
Surcheck Indicators Type II (Silver) Aerospace	£68.10
Flux Indicators Type 4	POA
Berthold Penetrameter	£223.00
A.S.M.E Indicator	£208.20
Centrifuge Tube (ASTM-D96)	£68.43
Pear Shaped Centrifuge Tube	£53.00
Stand for Centrifuge Tube	£21.85
KETOS Test Ring	£311.00
M.T.U Test Piece	£520.90
TPIA Wheel and Bar Test Piece (0-1000 AMPS)	£196.60
TP2A Test Piece (1000-3000 AMPS)	£429.55
TP3A Test Piece (3000-5000 AMPS)	£726.55
TP4 Test Piece (5 Hole)	£196.60
TP5 Test Piece (Magnetic Flow/Coil)	£196.60
Dry Powder Dispenser (Puffer)	£20.00
'Principals of MPI Testing'	£156.00
1 Litre Magnetic Ink Spray Bottles (Brass Fittings)	£30.45



Can Gun



Powder Dispenser



Test Pieces



Ketos Ring



Centrifuge  
Tubes



## MAGNETIC PARTICLE INSPECTION - CHEMICALS

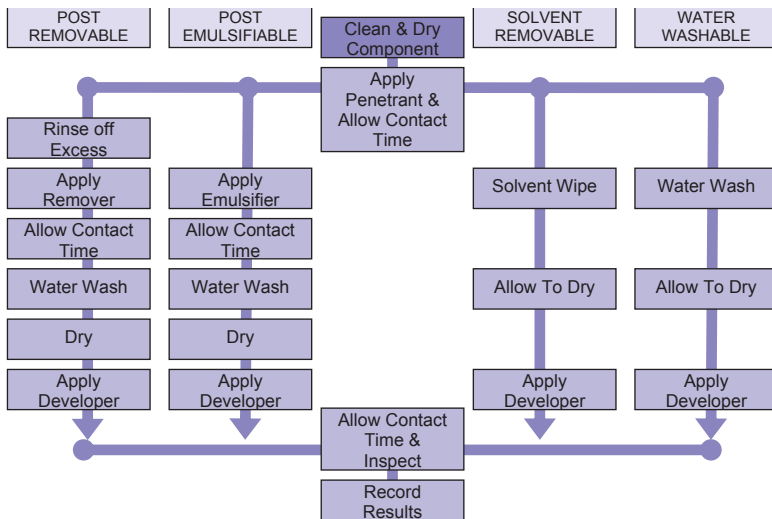
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## DYE PENETRANT - CHEMICALS

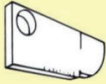
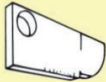
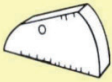

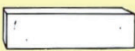

<b>Dye Penetrant Chemicals Penetrants</b>	<b>Aerosol(10) Price</b>	<b>Bulk (5lt) Price</b>
Britemor 4455 Penetrant	£101.00	£42.00
Checkmor 222 (Solvent Removable/Post Removable/Nuclear Grade)	£60.00	£42.00
Checkmor 720 Penetrant	£60.00	£40.00
<b>Removers</b>	<b>Aerosol(10)</b>	<b>Bulk (5lt)</b>
S72 Slow Drying, Nuclear Grade	£46.49	£23.45
S76 Quick Drying, Low Toxicity, Low Flashpoint	£50.00	DISC
<b>Developers</b>	<b>Aerosol(10)</b>	<b>Bulk (5lt)</b>
LD7 Developer	£55.00	POA
<b>Fluorescent Penetrant Inspection</b>	<b>Aerosol(10)</b>	<b>Bulk(25lt)</b>
Britemor 444 Water Washable MIL Spec 1	POA	POA
Britemor 445 Water Washable MIL Spec 1	POA	POA
Britemor 4455 Water Washable MIL Spec 2	POA	POA
	POA	POA
Britemor 446 Water Washable MIL Spec 3	POA	POA
Britemor 447 Water Washable MIL Spec 4	POA	POA
Britemor 555 Post Removable MIL Spec 2	POA	POA
Britemor 600 Post Removable MIL Spec 3	POA	POA
Britemor 667A Post Removable MIL Spec 3	POA	POA
Britemor 668A Post Removable MIL Spec 4	POA	[POA
		<b>500ml</b>
Britemor 668 GEL		POA
<b>Developers</b>	<b>1 Kilo</b>	<b>10 Kilo</b>
PD3 Dry Powder Developer	£15.00	£96.60

## DYE PENETRANT – CHEMICALS / TEST EQUIPMENT

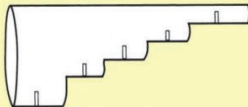
Johnson & Allen Neopen Penetrant Range		Aerosol	Bulk (5lt)
JAP	Red Dye Penetrant, Solvent Removable	£57.00	£36.00
JAP-WW	Red Dye Penetrant, Water Washable	£61.00	£44.25
NEON-WW	Fluorescent Penetrant, Water Washable	£75.00	£44.25
Neopen Cleaner/Remover Range			
JAC-2	Cleaner/Remover	£48.50	£27.25
JAC-3	Cleaner/Remover	£49.50	£25.50
Neopen Developer Range			
JAD	Developer,	£55.00	£31.25
JAD-2	Developer,	£56.00	N/A
Dye Penetrant Test Equipment			Price
Aluminium Thermal Quench Block			£ 55.15
PSM 5, TAM 146040 Panel			£596.95
Refractometer, Range 0-30%			£310.45
Can Gun for Aerosols			POA
SGE 17 Air Water Spray Gun			£167.45
"Penetrant Testing" By D.J. Lovejoy			POA



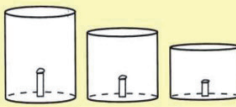
## Calibration Blocks

ORDER CODE	SHAPE (Not to Scale)	TYPE	DESCRIPTION/ APPLICATION	STANDARD MADE TO	MATERIAL/ SIZE
<b>No. 1</b>		<b>EUROPEAN STANDARD</b>	<b>No. 1 Calibration Standard.</b> Calibration of shear and compression wave probes. Checking beam angle, emergent point and resolution. Calibration of time base and gain settings. 3mm target hole.	<b>EN12223 2000</b>  Tolerance +/- 0.1mm	<b>STEEL</b> 25mm x 100mm x 300mm 5.2 kg (Optional 50mm thickness) 10.4 kg
<b>V1</b>		<b>A2</b>	<b>V1 Calibration Standard.</b> Calibration of shear and compression wave probes. Checking beam angle, emergent point and resolution. Calibration of time base and gain settings. 1.5mm target hole.	<b>EN12223 2000</b> <b>Formerly BS2704</b> Tolerance +/- 0.1mm	<b>STEEL</b> 25mm x 100mm x 300mm 5.6 kg (Optional 50mm thickness) 10.8 kg
<b>No. 2</b>		<b>EUROPEAN STANDARD</b>	<b>No. 2 Calibration Standard.</b> Small calibration block for site checking of shearwave probes, time base and gain settings. 5mm diameter hole target.	<b>EN27963 DEC. 1992</b>  Tolerance +/- 0.1mm	<b>STEEL</b> 12.5mm x 43mm x 75mm 0.22 kg (Optional 20mm thickness) 0.35 kg
<b>V2</b>		<b>A4</b>	<b>V2 Calibration Standard.</b> Small calibration block for site checking of shearwave probes, time base and gain settings. 1.5mm diameter hole target.	<b>EN27963 DEC. 1992</b> <b>Formerly BS2704</b> Tolerance +/- 0.1mm	<b>STEEL</b> 12.5mm x 43mm x 75mm 0.22 kg (Optional 20mm thickness) 0.35 kg
<b>BCB BCB-N</b>		<b>A5</b>	<b>Beam Calibration Block.</b> Beam profile and resolution checks for shear wave probes. Sensitivity checks for shear and compression probes. 9 off 1.5mm holes.  BCB-N contains four additional 1.5mm diameter holes.	<b>Formerly BS2704</b> Tolerance +/- 0.1mm	<b>STEEL</b> 50mm x 75mm x 305mm 9 kg
<b>A6</b>		<b>A6</b>	Evaluating dominant frequency, pulse length, dead zone and resolving power for shear and compression probes	<b>Formerly BS2704</b> Tolerance +/- 0.1mm	<b>STEEL</b> 25mm x 50mm x 150mm 1.5 kg

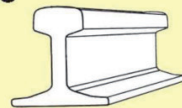
### SPECIAL CALIBRATION BLOCKS



**Stepped Bar Samples**  
with flat bottomed holes.  
Up to 400mm bar diameter



**ASTM Area Amplitude Set**  
Specify hole sizes, depths and  
materials.

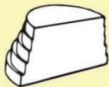

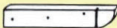
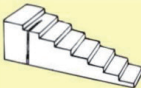
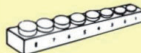





**Rail Testing Blocks**  
Specify hole sizes and positions

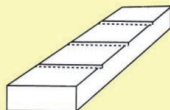
**FULL MACHINING OF BLOCKS TO CUSTOMER REQUIREMENTS - FROM 2gm TO 45kg**

**FULL MACHINING OF BLOCKS TO CUSTOMER REQUIREMENTS – FROM 2gm to 200kg**

## Calibration Blocks

ORDER CODE	SHAPE (Not to Scale)	TYPE	DESCRIPTION/ APPLICATION	STANDARD MADE TO	MATERIAL/ SIZE
<b>RTB</b>		<b>A7</b>	Checking shear wave probe resolution as BS4331 part 3, 1974 (1987). Steps of 2,3,4 and 5mm.	Formerly BS2704 Tolerance +/- 0.1mm	STEEL 74mm radius 74mm thick 4 kg
<b>MU</b>		<b>SPECIAL</b>	Metric Universal Block for general purpose checking as No.1 block	Tolerance +/- 0.1mm	STEEL 20mm x 50mm x 155mm 1.15 kg
<b>TBR 2 125</b>		<b>SPECIAL</b>	Radiused Test Block for calibration of boiler probes. Available with 3 or 5 x 1.5mm diameter holes.	Tolerance +/- 0.1mm	STEEL 25mm x 20mm x 165mm 0.6 kg
<b>LSW</b>		<b>SPECIAL</b>	Ladder Step Wedge for timebase calibration with thickness measuring compression probes. 8 steps from 1 mm to 8mm. Plus thickness step of 15mm and notch at 20mm depth	Tolerance +/- 0.1mm	STEEL 8mm x 15mm x 120mm 0.07 kg
<b>LSW/M</b>		<b>SPECIAL</b>	Generally as LSW with 25mm diameter steel inserts mounted in plastic. 8 steps from 1 mm to 8mm. Also available in other step sizes.	Tolerance +/- 0.1mm	STEEL INSERTS Plastic Body 10mm x 20mm x 140mm 0.27 kg
<b>CSW</b>		<b>SPECIAL</b>	Curved Step Wedge for timebase calibration of thickness measuring probes. 5 steps - 2,4,6,8 and 10mm.	Tolerance +/- 0.1mm	STEEL 100mm long x 300mm I.D Quadrant 0.14 kg
<b>ASME</b> (Specify Thickness)		<b>ASME</b>	Setting sensitivity levels for weld testing. Sizes and locations of flaws are dependent on weld thickness. Metric or Imperial.	ASME SECTION V Tolerance +/- 0.1mm	STEEL Size dependent on weld thickness
<b>DAC</b> (Specify Thickness)		<b>SPECIAL</b>	Setting DAC characteristics for shear wave and compression wave probes. Flaws typically 3mm diameter holes at 20%, 40%, 60% and 80% of thickness.	(BS 3923) 1986 Tolerance +/- 0.1mm	STEEL Size dependent on weld thickness

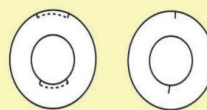
### **EDDY CURRENT CALIBRATION BLOCKS**



**Standard Test Block**  
0.2mm, 0.5mm, 1.0mm Deep Notches.  
Supplied in any material



**Profiled notches in curved samples**



**Notches in Tubes and Bars**  
Longitudinal and transverse inner  
and outer surfaces.

**PRECISION SPARK EROSION AND MACHINING OF NOTCHES AND HOLES**

**PRECISION SPARK EROSION AND MACHINING OF NOTCHES AND HOLES**

## **CALIBRATION BLOCKS**

<b>Ultrasonics – Mild Steel Unless Stated Otherwise</b>		<b>Price</b>
V1/ No 1	A2 With *Carrying Case and Calibration Certificate	£227.00
V1/No 1 (50)	A2 With Calibration Certificate	£562.00
V1/No 1 (SS)	A2 – Stainless Steel – with Carrying Case and Calibration Certificate	£702.00
V1/No 1 (Al)	A2 Aluminium – with Carrying Case and Calibration Certificate	£562.00
V2/ No 2	A4 1.5mm or 5mm Target with *Case and Calibration Certificate	£82.00
V2 (20)	A4 1.5mm or 5mm Target with *Case and Calibration Certificate	£92.00
V2/No 2 (SS)	A4 – Stainless Steel – 1.5mm or 5mm Target, Carrying Case and Calibration Certificate	£281.00 £328.00
V2/No 2 (Al)	A4 – Aluminium – 1.5mm or 5mm Target, *Carrying Case and Calibration Certificate • 20mm Thick • 12.5mm Thick	£229.00
		£215.00
BCB (IOW)	A5 with* Carrying Case and Calibration Certificate	£254.00
A6	A6 with Calibration Certificate	£173.00
RTB	A7 with Calibration Certificate	£254.00
LSW (1-20)	Ladder Stepwedge with Leather Case and Calibration Certificate	£97.00
LSW (1-20) (SS)	Ladder Stepwedge Stainless Steel – With Leather Carrying Case and Calibration Certificate (Please specify material type)	£241.00
LSW (1-20) (Al)	Ladder Stepwedge Aluminium - With Leather Carrying Case and Calibration Certificate (Please specify material type)	£177.00
LSW/M	1-8mm x 8mm Step Perspex with Steel Inserts with Calibration Certificate	£137.00
LSW	1.5-20 x 6 Step Perspex C/W Steel Inserts and Calibration Certificate	£292.00
LSW	5-50mm x 6 Step Perspex with Carbon Steel Inserts and Calibration Certificate	£254.00
Round LSW	1-8mm with Leather Case and Calibration Certificate	£94.00
CSW	Curved Stepwedge with Calibration Certificate (2mm to 10mm)	£117.00
MU	Metric Universal with Calibration Certificate Type CB 87M	£196.00
MU – Case	Leather Wallet for Metric Universal	£13.00
TBR 2/125	5 Holes with Calibration Certificate	£234.00
A5 Blank B	ESI with * Carrying Case and Calibration Certificate	£225.00
A5 Blank C	ESI with * Carrying Case and Calibration Certificate	£225.00
BCB N-A5	ESI Extra 5 x 1.5mm Target Holes with *Carrying Case and Calibration Certificate	£281.00
50 RAD	ESI with Calibration Certificate	£212.00
ASME	ASME 0-1" (19mm) (0-19mm) with Calibration Certificate	£319.00
ASME	ASME 1-2" (19-38mm) with Calibration Certificate	£418.00
ASME	ASME 2-4" (38-75mm) with Calibration Certificate	£799.00
DAC	BS3923 Price Available on Request – Weld Thickness Required	POA
ASTM E-127	Price Available on Request	POA
Rail Blocks	Type CB88 Metric or Imperial and CB91M	P.O.A
Specials	The manufacture of special purpose test blocks to customer's own requirements is also undertaken in any type of material. Prices are available on request.	

### **Notes**

Prices include \*Carrying cases where indicated. Note this is a rugged fabric site carry case unless otherwise specified.

- The above blocks are the most popular and in many cases can be Ex-Stock.
- We are please to quote for manufacture in free issue material.

## **CALIBRATION BLOCKS**

<b>Ultrasonic – USA Specifications</b> - Carbon Steel/Stainless Steel/Aluminium (all Prices On Application)	
11W Block type 1	Similar to Number 1 Block
11W Block type 2	Similar to Number 1 with deep cut out
Type DSC (AWS)	Shearwave distance and sensitivity calibration
Angle Beam	Similar to DSC Block
AWS Resolution	Checking Resolution of Angle Beam Probes
Type SC (AWS)	Shearwave Sensitivity Calibration
Type DC (AWS)	Shearwave Distance Calibration
Low Beam Profile	Similar to BCB (IOW) Imperial or metric
Navships Block	Distance amplitude calibration to 0900-006-3010
ROMPAS Block	Miniature angle beam block
Step Blocks	4 Steps or 5 Steps
ASTM Single E127-64	Varying metal distance and flat bottom hole diameter
ASTM Distance / Amplitude Set	19 Blocks with the same size FBH and varying metal distance – Specify Hole Diameter
ASME Blocks	Please state required specification.

The above is only a selection of Calibration Blocks. Others are available on request.  
Blocks can be supplied to other country standards – Germany, France, Japan etc.

<b>Eddy Current (0.2, 0.5 &amp; 1.0mm slots)</b>			<b>Price</b>
3 Notch Carbon Steel	0.2mm, 0.5mm, 1.0mm Deep Notches	EN1A	£95.00
3 Notch Stainless Steel	0.2mm, 0.5mm, 1.0mm Deep Notches	304 or 316	£134.00
3 Notch Aluminium	0.2mm, 0.5mm, 1.0mm Deep Notches	7075	£120.00
<b>Weldscan (0.5, 1.0 &amp; 2.0mm slots with lift off spacers to EN1711)</b>			
3 Notch Carbon Steel	0.5 – 1-2mm Notches 4 x 0.5 Lift off Spacers	EN1A	£196.00
3 Notch Stainless Steel	0.5 – 1-2mm Notches 4 x 0.5 Lift off Spacers	304 or 316	£248.00
3 Notch Aluminium	0.5 – 1-2mm Notches 4 x 0.5 Lift off Spacers	7075	£218.00

Other materials available and blocks can also be manufactured from free issue material.  
Calibration Blocks can be made with any combination of spark eroded and machined notches and holes  
Calibration Blocks to aircraft manufacturer specifications.

<b>Calibration Standards</b>	<b>£126.00</b>
<b>Re-Calibration</b>	<b>£45.00</b>
<b>Quality Assurance</b>	
Each block is engraved with a unique serial number and fully certified to the requirements of European standards 12223, 27963 (where applicable) British Standards 2704 (1978) and DIN 54120 together with independent material chemical analysis and certification of heat treatment to DIN 54120 (grain refining) all of which is fully traceable. Certification as appropriate outside of Europe.	
A full independent NAMAS approval for physical measurements is offered if required. Prices on application.	

## ULTRASONIC PROBES – NDT EQUIPMENT SERVICES

<b>Angle Beam Probes</b>			
<b>SS Series' Miniature</b>	<b>Price</b>	<b>Standard Series</b>	<b>Price</b>
SS38 – 2	£56.00	TS38 – 4	£79.00
SS45 – 2	£56.00	TS45 – 4	£79.00
SS60 – 2	£56.00	TS60 – 4	£79.00
SS70 – 2	£56.00	TS70 – 4	£79.00
SS38 – 4	£55.00	<b>Sub Miniature Angle</b>	
SS45 – 4	£55.00	MSS38 – 5	£135.00
SS60 – 4	£55.00	MSS45 – 5	£135.00
SS70 – 4	£55.00	MSS60 – 5	£135.00
SS38 – 2HP	£72.00	MSS70 – 5	£135.00
SS45 – 2HP	£72.00	<b>Boiler Tube</b>	
SS60 – 2HP	£72.00	BTP70	£120.00
SS70 – 2 HP	£72.00	<b>Creep Wave</b>	
SS80 – 2HP	£90.00	LCW 2	£255.00
SS90 – 2HP	£90.00	LCW 4	£255.00
SS38 – 4HP	£71.00	CW 2	£255.00
SS45 – 4HP	£71.00	CW 4	£225.00
SS60 – 4HP	£71.00	<b>Angle Compression</b>	
SS70 – 4HP	£71.00	SAC45 Single Crystal	£175.00
SS80 – 4HP Lemo not available	£90.00	SAC60 Single Crystal	£175.00
SS90 – 4HP Lemo not available	£90.00	SAC70 Single Crystal	£175.00
For Lemo connector add	£3.00	TAC45 Twin Crystal	£255.00
		TAC60 Twin Crystal	£255.00
		TAC70 Twin Crystal	£255.00
<b>XL Series' - Large</b>	<b>Price</b>	MTAC45 Twin Crystal	£220.00
XLSS (1MHz)**	£165.00	MTAC60 Twin Crystal	£220.00
XLSS38 – 2	£109.00	MTAC70 Twin Crystal	£220.00
XLSS45 – 2	£109.00	LTAC45 Twin Crystal	£255.00
XLSS60 – 2	£109.00	LTAC60 Twin Crystal	£255.00
XLSS70 – 2	£109.00	LTAC70 Twin Crystal	£255.00
XLWS (pack 10)	£25.00	<b>High Temperature</b>	
		HMWT 45,60 or 70 Degree, Twin	£197.00
		HSMTCS5-5 Twin 0 Degree	£198.00
<b>L Series – Medium</b>	<b>Price</b>	HTCSF10 2 or 4MHz Twin 0 Degree	£208.00
LSS38 – 2.5	£99.00	HTC20 2.5 or 5MHz Twin 0 Degree	£198.00
LSS45 – 2.5	£99.00	HSS45 – 4 Single Crystal	£155.00
LSS60 – 2.5	£99.00	HSS60 – 4 Single Crystal	£155.00
LSS70 – 2.5	£99.00	HSS70 – 4 Single Crystal	£155.00
LSS Also available in 4MHz	£99.00	HTC10 – 5 Twin Crystal	£179.00
SWS 16 x 16mm	£128.00	HTC10 – 2.5 Twin Crystal	£179.00
LWS (pack 10)	£25.00	<b>Underwater Probes</b>	
<b>Twin Angle Beam Probes</b>			
<b>W Series - Miniature</b>	<b>Price</b>	UWTC10-5 Twin 0 Degree	£165.00
MWT38 – 4	£118.00	UWTC20-2.5 Twin 0 Degree	£172.00
MWT45 – 4	£118.00	UWSS45-4 Single	£153.00
MWT60 – 4	£118.00	UWSS60-4 Single	£153.00
MWT70 – 4	£118.00	USWW70-4 Single	£153.00



## ULTRASONIC PROBES – NDT EQUIPMENT SERVICES

NDT – ES Single Crystal Compression		Twin Crystal Compression	
Replacement Membrane Type	Price	Replacement Membrane Type	Price
SCSF24 – 1	£190.00	TCSF24 – 2	£144.00
SCSF24 – 2	£135.00	TCSF24 – 4	£144.00
SCSF24 – 4	£135.00	TCSF10 – 2	£118.00
SCSF10 – 2	£110.00	TCSF10 – 4	£118.00
SCSF10 – 4	£110.00	TCSF10 – 5	£118.00
SCSF10 – 5	£110.00		
GS45 – (pack of 10) Membrane	£17.00	<b>Standard Series – Round</b>	<b>Price</b>
GS24 – (pack of 10) Membrane	£17.00	TC20 – 1.25	£120.00
		TC20 – 2.0	£82.00
<b>Delay Line</b>	<b>Price</b>	TC20 – 2.5	£72.00
SCDL 6.5	£198.00	TC20 – 5	£72.00
SCDL 6 –10	£265.00	TC15 – 2.5	£70.00
DL 5	£38.00	TC15 – 5	£70.00
		TC10 – 2.5	£70.00
<b>Ceramic Faced</b>	<b>Price</b>	TC10 – 4	£70.00
SCHF20 – 1	£175.00	TC10 – 5	£69.00
SCHF20 – 2	£98.00	Lemo connector add	££5.00
SCHF20 – 4	£98.00	<b>Miniature and Special Use</b>	<b>Price</b>
SCHF20 – 5	£98.00	MTC10 – 5	£142.00
SCHF10 – 2	£95.00	SMTC5 – 5	£142.00
SCHF10 – 4	£95.00	SMTC5 – 10	£188.00
SCHF10 – 5	£95.00	DTC10 – 5	£155.00
SCHF10 - 10	£148.00	TCLP5 – 5	£205.00
SMSC5 – 5	£140.00	<b>Standard Series – Square</b>	<b>Price</b>
SMSC5 – 10	£165.00	TCE10 – 5	£66.00
SCLP20 – 2.5	£108.00	TCE15 – 5	£66.00
SCLP20 – 5	£108.00	TCE15 – 2.5	£66.00
SCLP10 – 2.5	£108.00	TCE20 – 5	£68.00
SCLP10 – 4	£108.00	TCE20 – 2.5	£68.00
SCLP10 – 5	£108.00	Lemo 00 Connector – Add	£5.00
<b>Steel Faced</b>	<b>Price</b>	Wear ring add	£15.00
SC20 – 2.5	£88.00	<b>Angle Beam</b>	<b>Price</b>
SC20 – 4	£88.00	<b>W Series – Miniature</b>	
SC20 – 5	£88.00	MWS35 – 2	£89.00
SC10 – 2.5	£85.00	MWS45 – 2	£89.00
SC10 – 4	£85.00	MWS60 – 2	£89.00
SC10 – 5	£85.00	MWS70 - 2	£89.00
		MWS80 – 2	£100.00
<b>Thickness Meter Probes</b>	<b>Price</b>	MWS90 – 2	£100.00
DA10 – 5	£185.00	MWS35 – 4	£89.00
DA20 – 2	£245.00	MWS45 – 4	£89.00
DA5 – 5	£225.00	MWS60 – 4	£89.00
DA10 –5HT	£285.00	MWS70 – 4	£89.00
DA310 - 5	£255.00	MWS80 – 4	£100.00
T-Mike TMP	£148.00	MWS90 – 4	£100.00
TMP-1 Comparagauge	£180.00	Top entry connector add	£3.00
TCLP5-10 (DA312)	£258.00		
Other manufacturers' probes are available, code and price on request			

## ULTRASONIC PROBES – GE (KRAUTKRAMER)

Miniature Angle Probes S-Series		Large Angle Probes ESI Approved	
MAPS38-4	£87.00	AO-B38-2	POA
MAPS45-4	£87.00	AP-B45-2	POA
MAPS60-4	£87.00	AP-B60-2	POA
MAPS70-4	£87.00	AP-B70-2	POA
MAPS80-4	£87.00		
MAPS90-4	£87.00	<b>Combined Twin Probes S-Series</b>	
MAPS38-2	£87.00	CD-S10/2.5	£70.00
MAPS45-2	£87.00	CD-S10/5	£70.00
MAPS60-2	£87.00	CD-S15/2.5	£70.00
MAPS70-2	£87.00	CD-S15/5	£70.00
MAPS90-2	£87.00	CD-S20/1.25	£70.00
<b>MA Series</b>		CD-S20/2.5	£70.00
MA45-4	£44.00	CD-S20/5	£70.00
MA60-4	£44.00		
MA70-4	£44.00	<b>Single Compression Probes S-Series (Soft Faced)</b>	
MA45-2	£44.00	SNS10/5	POA
MA60-2	£44.00	SNS10/2.5	POA
MA70-2	£44.00	SNS25/2.5	POA
<b>Twin Angle Focused ESI Approved</b>		SNS25.1.25	POA
TMAPF-S38-4	£103.00	<b>Single Compression Probes S-Series (Hard Faced)</b>	
TMAPF-S45-4	£103.00	SNS10/5H	POA
TMAPF-S60-4	£103.00	SNS10/2.5H	POA
TMPAF-S70-4	£103.00	SNS25/S.5H	POA
<b>Twin Angle Non Focused</b>		SNS25/1.25H	POA
TMAPF- S80-4	£103.00		
TMAPF-S90-4	£103.00	<b>REPLACEABLE PROBE COVERS</b>	
TMAPF45-2	£103.00	ES45 (PACK 10)	£23.00
TMAPF60-2	£103.00	ES24 (PACK 10)	£16.00
TMAPF70-2	£103.00		

## ULTRASONIC PROBES – GE (KRAUTKRAMER)

<b>Combined Twin Probes CD-P</b>			
CD-P 10/2	£145.00	MWB45-4	£197.00
CD-P 10/4	£145.00	MWB60-4	£197.00
CD-P10/5	£145.00	MWB70-4	£197.00
CD-P 15/1.25	£160.00	WB45-2	POA
CD-P 15/2	£160.00	WB60-2	POA
CD-P 15/5	£160.00	WB70-2	POA
CD-P 20/1.25	£172.00		
CD-P 20/2	£172.00	SEB 4KF8	POA
CD-P 20/5	POA	MB2S-N	POA
		MB4S-N	POA
<b>Miniature Angle Probes P Series</b>			
MAPP38-4	£123.00	MSW-QC 2.25MHz 0.5" Ø	£186.00
MAPP45-4	£123.00	MSW-QC 5.0MHz 0.5" Ø	£186.00
MAPP60-4	£123.00		
MAPP70-4	£123.00	Wedge 0.5" Ø, 45°	£25.00
MAPP38-2	£123.00	Wedge 0.5" Ø, 60°	£25.00
MAPP45-2	£123.00	Wedge 0.5" Ø, 70°	POA
MAPP60-2	£123.00		
MAPP70-2	£123.00	HT Wedge 0.5 Ø, 45°	£194.00
		HT Wedge 0.5" Ø, 60°	£219.00
		HT Wedge 0.5" Ø, 70°	£267.00
B2S(E)	£229.00		
B4S(E)	£229.00	<b>Thickness Meter Probe &amp; Cables</b>	
B1S	POA	DA301	£294.00
BO.5SL	POA	DA303	£294.00
MSEB2(E)	£331.00	DA312	£598.00
MSEB4(E)	£259.00	DA401	£331.00
SEB2	POA	DA412	£346.00
SEB4	POA	KBS560D	£590.00
MWB45-2	£230.00	HT400A	£410.00
MWB60-2	£230.00	HT400B	£343.00
MWB70-2	£230.00	CLF4	£375.00
		CLF5	£281.00
<b>Longitudinal Wave Single Angle Probes</b>		TC560	£558.00
WSY45-4	£319.00	CA211A	£294.00
WSY60-4	£319.00	DA231	£67.00
WSY70-4	£319.00	DA235	£98.00
		KBA535 (Armoured)HT	£148.00
		KBA536 (Standard) HT	£103.00
<b>Twin Angle Probes</b>			
VSY 45-4	POA		
VSY 60-4	POA		
VSY 70-4	POA		

## ULTRASONIC PROBES – SONATEST

Miniature Angle Probes SA Series 10mm Economy Version		Large Single Angle Probes	
SA5-38	£57.00	LSA 1-45	£114.00
SA5-45	£57.00	LSA 1-60	£114.00
SA5-60	£57.00	LSA 1-70	£114.00
SA5-70	£57.00	LSA 2-45	£114.00
SA5-80	£83.00	LSA 2-60	£114.00
SA5-90	£83.00	LSA 2-70	£114.00
SA2-38	£57.00	LSA 4-45	£114.00
SA2-45	£52.00	LSA 4-60	£114.00
SA2-60	£52.00	LSA 4-70	£114.00
SA2-70	£52.00	<b>Hot Work Probes 400°C</b>	
SA2-80	£83.00	HSA 2-45	£130.00
<b>SAO Series 10mm</b>		HSA 2-60	£130.00
SAO4-45	£68.00	HSA 2-70	£130.00
SAO4-60	£62.00	HSA 4-45	£130.00
SAO4-70	£62.00	HSA 4-60	£130.00
SAO2-45	£62.00	HSA 4-70	£130.00
SAO2-60	£62.00		
SAO2-70	£62.00	<b>Twin Angle Probes CDA Series</b>	
<b>OTHER ANGLE AVAILABLE</b>		CDA 2-45	£114.00
<b>ORION Series High Specification</b>		CDA 2-60	£114.00
Orion 4-38	£140.00	CDA2-70	£114.00
Orion 4-45	£140.00	CDA 4-45	£114.00
Orion 4-60	£140.00	CDA 4-60	£114.00
Orion 4-70	£140.00	CDA 4-70	£114.00
Orion 4-90	£140.00		
Orion 2-38	£114.00	<b>Boiler Tube Inspection Probes</b>	
Orion 2-45	£114.00	Twin Angle, 60° 5MHz	POA
Orion 2-60	£114.00	Twin Angle, 70° 5MHz	POA
Orion 2-70	£114.00		

## ULTRASONIC PROBES – SONATEST

Single Ceramic Faced High Damped Longitudinal Probe (Subvis)		Single Longitudinal Probe (Subvis) Protective Membrane	
SLH1-25 (1MHz, 25mm Ø)	£265.00	SLF1-25* (1MHz, 25mm Ø)	POA
SLH2-10 (2MHz, 10mm Ø)	£234.00	SLF2-10 (2MHz, 10mm Ø)	£244.00
SLH2-15 (2MHz, 15mm Ø)	£234.00	SLF2-10* (2MHz, 10mm Ø)	POA
SLH4-10 (4MHz, 10mm Ø)	£224.00	SLF4-10 (4MHz, 10mm Ø)	£224.00
SLH4-25 (4MHz, 25mm Ø)	£234.00	SLF4-20* (4MHz, 20mm Ø)	POA
SLH5-10 (5MHz, 10mm Ø)	£224.00	SLF5-10 (5MHz, 10mm Ø)	£224.00
SLH5-15 (5MHz, 15mm Ø)	£234.00	SLF5-15 (5MHz, 15mm Ø)	£224.00
SLH10-5 (10MHz, 5mm Ø)	POA	SLF5-20* (5MHz, 20mm Ø)	POA
SLH10-10 (10MHz, 10mm Ø)	£265.00	SLF5-25* (5MHz, 25mm Ø)	POA
Other sizes and frequencies available		* For Lemo 1 connector add L	
Single High Damped, Low Profile Longitudinal Probe (Subvis)		Twin Compression Probe, Medium Damped (Subvis)	
SLP1-20 (1MHz, 20mm Ø)	POA	CD1-15 (1MHz, 15mm Ø)	£83.00
SLP2-10 (2MHz, 10mm Ø)	POA	CD1-20 (1MHz, 20mm Ø)	£83.00
SLP5-5 (5MHz, 5mm Ø)	£244.00	CD2-10 (2MHz, 10mm Ø)	£73.00
SLP5-10 (5MHz, 10mm Ø)	POA	CD2-15 (2MHz, 15mm Ø)	£83.00
SLP10-5 (10MHz, 5mm Ø)	POA	CD2-20 (2MHz, 20mm Ø)	£78.00
SLP10-10 (10MHz, 10mm Ø)	POA	CD4-10 (4MHz, 10mm Ø)	£73.00
Other size and frequencies available		CD5-10M (5MHz, 10mm Ø)	£68.00
Single High Damped Economy Longitudinal Probe (Subvis)		CD5-15 (5MHz, 15mm Ø)	£73.00
SLG2-10 (2MHz, 10mm Ø)	£135.00	CD5-20 (5MHz, 20mm Ø)	£78.00
SLG4-10 (4MHz, 10mm Ø)	£135.00	Twin Compression Probe High Temp. 400° (Subvis)	
SLG5-10 (5MHz, 10mm Ø)	£135.00	CD2-10 HT (2MHz, 10mm Ø)	£224.00
SLG10-10 (10MHz, 10mm Ø)	POA	CD2-15HT (2MHz, 15mm Ø)	£224.00
SLG4-20 (4MHz, 20mm Ø)	POA	CD2-20 HT (2MHz, 20mm Ø)	£224.00
Single Low Damped Economy Longitudinal Probe (Subvis)		CD4-10HT (4MHz, 10mm Ø)	£224.00
SLC1-20 (1MHz, 20mm Ø)	£151.00	CD5-10 HT (5MHz, 10mm Ø)	£224.00
SLC2-10 (2MHz, 10mm Ø)	£151.00	CD5-15 HT (5MHz, 15mm Ø)	£224.00
SLC2-15 (2MHz, 15mm Ø)	£125.00	Twin Compression Probe (Subvis) Plastic Flared Skirt	
SLC2-20 (2MHz, 20mm Ø)	£151.00	GEM2-10 (2MHz, 10mm Ø)	£73.00
SLC2-25 (2MHz, 25mm Ø)	£151.00	GEM4-10 (4MHz, 10mm Ø)	£73.00
SLC4-10 (4MHz, 10mm Ø)	£125.00	GEM5-10 (5MHz, 10mm Ø)	£73.00
SLC4-20 (4MHz, 20mm Ø)	£151.00	For Lemo 00 add 'Z'	
SLC5-10 (5MHz, 10mm Ø)	£125.00	For Microdot add 'D'	
Single Medium Damped Longitudinal Probes (Subvis)		Twin Compression Probe, (Subvis) Protective Membrane	
SLM1-25 (1MHz, 25mm Ø)	£265.00	CDF1-25 (1MHz, 25mm Ø)	£265.00
SLM2-10 (2MHz, 10mm Ø)	£244.00	CDF2-10 (2MHz, 10mm Ø)	£234.00
SLM2-20 (2MHz, 20mm Ø)	£244.00	CDF2-20 (2MHz, 20mm Ø)	£260.00
SLM4-10 (4MHz, 10mm Ø)	£224.00	CDF4-10 (4MHz, 10mm Ø)	£255.00
SLM5-10 (5MHz, 10mm Ø)	POA	CDF4-20 (4MHz, 20mm Ø)	£265.00
SLM5-15 (5MHz, 15mm Ø)	£234.00	CDF5-10 (5MHz, 10mm Ø)	£229.00
SLM10-10 (10MHz, 10mm Ø)	£265.00	CDF5-20 (5MHz, 20mm Ø)	£265.00

## **ULTRASONIC – CABLES - ACCESSORIES**

<b>Ultrasonic Cables</b>		
Single	No 1 Lemo to 00 Lemo x 2 metres cable	£32.00
Twin	No 1 Lemo to 00 Lemo x 2 metres cable	£64.00
Single	No 1 Lemo to No 1 Lemo x 2 metres cable	£42.50
Twin	No 1 Lemo to No 1 Lemo x 2 metres cable	£85.00
Single	BNC to 00 Lemo x 2 metres cable	£23.50
Twin	BNC to 00 Lemo x 2 metres cable	£47.00
Single	BNC to No 1 Lemo x 2 metres cable	£28.00
Twin	BNC to No 1 Lemo x 2 metres cable	£56.00
Single	No 1 Lemo to Subvis x 2 metres cable	£27.50
Twin	No 1 Lemo to Subvis x 2 metres cable	£55.00
Single	00 Lemo to Subvis x 2 metres cable	£26.50
Twin	00 Lemo to Subvis x 2 metres cable	£53.00
Single	00 Lemo to 00 Lemo x 1 metre cable	£26.50
Single	BNC to Subvis x 2 metres cable	£21.50
Twin	BNC to Subvis x 2 metres cable	£43.00
Single	BNC to Microdot* (Modified Subvis) x 2 metres cable	£25.50
Twin	BNC to Microdot* (Modified Subvis) x 2 metres cable	£51.00
*For original Microdot connectors add £20.00 per connector.		
Single	Lemo 1 to Microdot x 2 metres cable	£50.50
Twin	Lemo 1 to Microdot x 2 metres cable	£101.00
Single	Lemo 1 to Microdot x 2 metres cable (Modified Subvis)	£30.50
Twin	Lemo 1 to Microdot x 2 metres cable (Modified Subvis)	£61.00
<b>The above are our standard "Off the shelf" ranges of leads. Any type of lead with your choice of connector and length can be supplied. Details are available on request.</b>		
<b>Accessories</b>		
Probe Re-shoe per probe		£16.00
Twin Compression Probe with Wear ring		£25.00
Re-shoeing Kit Comprising: 10 Re-shoe Plates		£20.00
Adhesive 5grm, Bottle		£10.00
BNC/Lemo No 1 adaptor		£16.00
Lemo No 1 to BNC Adaptor		£16.00
Soft Face Probe Membranes (pack of 10)		£16.00
Lead Refurbishing/Conversion (Single)		£ 9.50
Lead Refurbishing/Conversion (Twin)		£18.00
USM2 Battery Pack		£160.00
USK6/7 Battery Pack		£78.10
USK6/7 Battery Charger		£90.00
USK6/7 Carry Bag		£75.00
USN52 Carry Bag		£85.00
Replacement Graticules for USK 6-7		£20.00



LEMO-1



BNC



LEMO - 00



SUBVIS



MICRODOT

## ULTRASONIC COUPLANTS

Product Reference	Description & Size	Price
<b>UCA-2M</b>	Blue Water Based Ultrasonic Couplant 1 Litre	£11.00
<b>UCA-2M</b>	Blue Water Based Ultrasonic Couplant 25 Litre	£176.35
<b>W1</b>	Yellow Water Based Ultrasonic Couplant 650ml.	£6.50
<b>W1</b>	Yellow Water Based Ultrasonic Couplant 1 Litre	£7.25
<b>W1</b>	Yellow Water based Ultrasonic Couplant 5 Litre	£29.00
<b>W1</b>	Yellow Water Based Ultrasonic couplant 25 Litre	£140.00
<b>UCA3HT</b>	High Temp. Couplant 1 Litre	£32.75
<b>UCA7</b>	Powder Couplant (Mix with water) 1 Kilo	£34.55
<b>D1</b>	Powder Couplant (Mix with water) 1 Kilo	£31.40
<b>O1</b>	Orange Oil based Ultrasonic Couplant 1 Litre	POA
<b>O1</b>	Orange Oil Based Ultrasonic Couplant 5 Litre	POA
<b>O1</b>	Orange Oil Based Ultrasonic Couplant 25 Litre	POA
<b>ZG-F</b>	Krautkramer Couplant (pack 5 x 250g)	£47.15
<b>ZG-F</b>	Krautkramer Couplant (2.5kg)	£47.15
<b>ZG-M</b>	Krautkramer High Temp Couplant 100g Tube	£54.60
<b>ZG-T</b>	Krautkramer Multi-Range Couplant 100g Tube	£45.15

## ULTRASONIC FLAW DETECTORS

FLAW DETECTORS		Price (£)
GE Inspection Tech:-	USM32X B (Various options and accessories available) prices from	£5547.15
	USM33XB (Available with Lemo or BNC connectors)	£4695.60
	USM35X (Various options and accessories available) prices from	£6485.85
	USN58R (Various options and accessories available) prices from	£7248.15
	USN58L (Various options and accessories available) prices from	£7248.15
	USN60 (Various options and accessories available) prices from	£9316.65
	PHASOR CV Portable Phased Array	£7501.20
SONATEST:-	PHASOR XS Portable Phased Array (various options) prices from	£12420.45
	SITESCAN D SERIES (Various Options) price from	£3568.95
	SITESCAN 123 (Various options and accessories available)	£4320.75
	RAILSCAN 125 (Various options and accessories available) prices from	£5847.45
	SITESCAN 150 (Various options and accessories available) prices from	£5105.10
	SITESCAN 250 (Various options and accessories available) prices from	£5834.85
<b>Other models available, prices and specification on request.</b>		
<b>The full range of equipment manufactured by the above companies is available on request.</b>		
<b>IF YOUR CHOICE IS NOT LISTED ABOVE PLEASE CALL FOR FURTHER INFORMATION.</b>		



PHASOR XS



USN 58



USM35X



SITESCAN 140



SS123



## ULTRASONIC THICKNESS GAUGES – HARDNESS TESTERS

Ultrasonic, Thickness Gauges	Price
Cygnus 1 - Basic Model Complete Kit With 2.25mhz 13mm Heavy Duty Remote Probe	£2130.00
Cygnus 1 - Intrinsically Safe Model Complete Kit With 2.25mhz 13mm Heavy Duty Probe	£2695.00
Cygnus 1 - Underwater Model Complete Kit With 2.25mhz 13mm UW Heavy Duty Remote Probe	£3255.00
Cygnus 1 - Underwater Model Complete Kit With 2.25mhz 13mm UW Heavy Duty Remote Probe and Topside Display Repeater	£3855.00
Cygnus 2 - Basic Model Complete Kit With 2.25mhz 13mm Remote Probe	£1545.00
Cygnus 3 - With Data Logger Complete Kit With 2.25mhz 13mm Remote Probe	£1995.00
Cygnus 4 - LCD - Basic Model Complete Kit With 2.25mhz 13mm Remote Probe	£1545.00
GE - DMS2E Complete With Standard Accessories.	£3378.90
<b>Note Probe and Cable are Required. Prices From</b>	
GE - DMS2 Complete With Standard Accessories and B-Scan Option.	£4047.75
<b>Note Probe and Cable are Required. Prices From</b>	
GE - DMS2/TC Complete With Standard Accessories, B-Scan Option and TopCOAT.	£4400.55
<b>Note Probe and Cable are Required. Prices From</b>	
GE - DM 5E Basic Complete With Standard Accessories	£1568.70
<b>Note Probe and Cable are Required. Prices From</b>	
GE - DM 5E DM Complete With Standard Accessories, Dual Multi	£1893.15
<b>Note Probe and Cable are Required. Prices From</b>	
GE - DM 5E DL Complete With standard Accessories, Data Logger	£2217.60
<b>Note Probe and cable are Required. Prices From</b>	
GE - Pocket Mike Complete With Carry case, Manual, Integral Probe 5MHz , Battery & Couplant.	£795.90
<b>Full Range Of Agfa Thickness Gauges And Probes Available Prices On Request.</b>	



Cygnus 1



Cygnus SE



Cygnus 4



POCKET MIKE



DM4E



DMS

## ULTRASONIC THICKNESS GAUGES – HARDNESS TESTERS

Ultrasonic, Thickness Gauges	Price
PosiTector UTG - Complete With Transducer, Couplant, Carry Case, Manual & IR Port	£640.00
Sonatest - Alphasage Kit Complete With Probe, Cable, Case, Software And Spares	£3115.00
Class Instruments - Touchstone 1 Kit, c/w Probe/Lead, Couplant, Battery, Carry Case & Certificate	£550.00
Dakota Mx-1 Complete With Battery, Probe, Cable, Carry Case, Couplant, Manual, Certification.	£650.00
Dakota Mx-2 Complete With Battery, Probe, Cable, Carry Case, Couplant, Manual, Certification.	£750.00
Dakota Mx-3 Complete With Battery, Probe, Cable, Carry Case, Couplant, Manual, Certification.	£995.00
Dakota Mx-5 Complete With Battery, Probe, Cable, Carry Case, Couplant, Manual, Certification.	
Dakota Mx-5dl Complete With Probe, Cable, Carry Case, Cert, Manual And Software	
<b>Full Range Of Dakota Thickness Gauges And Probes Available Prices On Request.</b>	
Hardness Testers	
Equotip3 Model G Kit c/w Impact Device, Test Block, Coupling Paste, Support Rings etc.,	£5940.00
Equotip Model D Kit c/w Impact Device, Test Block, Coupling Paste, Support Rings etc.,	£5076.00
Bambino Kit c/w Charging Pack, Lanyard, USB Lead, Case, Instructions,	Prices From £1944.00
Piccolo Kit c/w Charging Pack, Lanyard, USB Lead, Case, Software, Instructions etc Price From	£2484.00
GE Dynapocket PLUS Kit c/w D62 Block, Test Attachments, Manual, Guide & Case etc.,	£2399.25



TOUCHSTONE 1



POSITECTOR



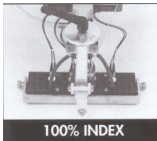
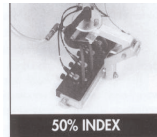
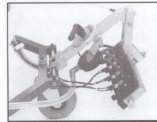
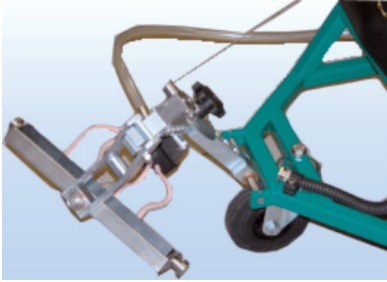
ALPHASAGE



MX-3 & MX-5

## ULTRASONIC PLATE TESTING TROLLEYS

### **PLATESCAN 4 – Multi Probe Manual Plate Tester**



- Tests essentially to plate extreme edges using idler wheels.
- Test head rotate facility enables scan index to be adjusted.
- A manually operated ultrasonic plate testing trolley unit for 4 probes.
- Excellent maneuverability for different scan patterns.
- Standard type A test heads with a single 4 probe block for scan indices from 10 to 75mm per probe.
- Optional type B test heads with 4 individual probe holders for scan indices up to 150mm per probe.
- Replaceable steel wear shoe(s).
- Multiplexed operation for four probes using optional 4 channel Mux 1 Multiplexer.
- Fifth probe facility enables localised scanning to be undertaken.
- Excellent maneuverability for different scan patterns.
- Tests essentially to plate extreme edges using idler wheels.
- 8 litre water reservoir with on/off valve.
- Mounting for ultrasonic flaw detector.

**NOTE** – 4 probe and 8 probe trolley units and associated electronic multiplexers are also available.

#### **Prices:**

**Platescan 4 - £2730.00**

**Multiplexer MUX 1A - £2095.00**

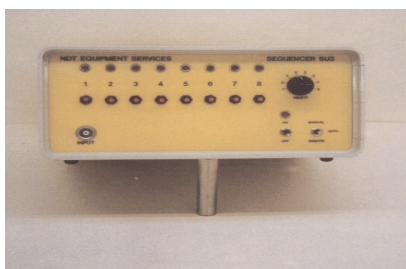
**MOST PORTABLE ULTRASONIC FLAW DETECTOR CAN BE ACCOMMODATED**

## ULTRASONIC MULTIPLEXERS AND SEQUENCERS

### ULTRASONIC SEQUENCER UNITS

**Sequential Switching units for multiple probe operation with ultrasonic flaw detectors and thickness gauges**

For applications where several identical ultrasonic tests are required using a fixed group of ultrasonic probes. The sequencer Units switch from probe to probe with a preset dwell time on each test. Operation with most makes of ultrasonic units. Ultrasonic Multiplexers are available where high speed switching at PRF rates is required



#### General Facilities:

- Available in 4, 8, 12, 16 channels and specials
- Adjustable dwell time on each probe (typically 0.5-30 secs)
- 'Auto' mode with continuous switching
- 'Single' test sequence mode with remote start
- 'Manual' selection of each probe with selector switch
- Remote or front panel start/sweep
- LED indicates which probe is operating
- Slot adjusted limited range balance for each probe
- Multiple pin output for active probe and reading available.

Price Range - £1444 - £2575

Please specify test requirements

### MULTIPLEXERS – MUX 1 AND MUX 2

**For sequential switching of similar test probes at PRF rate. Standard units in 4 and 8 channels, specials as required with rack mounting options.**



#### General Facilities:

- Portable ultrasonic multiplexers for 4 or 8 channel operation
- Simple 2 cable connection to standard flaw detector
- Applications for manual and automatic inspection requirements
- Individual balance controls to equalize probe sensitivities
- Individual delay controls to obtain coincident signals for varying probe face wear and testing distances
- Additional hand scan probe operating at flaw detector PRF
- Rechargeable battery or mains power pack
- Option available for multiplexed thickness gauge operation
- Specials and rack mounted options

#### Prices:

MUX 1a 4 channel - £2715.00

MUX 2 8 channel – £3927.00

NDE Educational Kits – Level 1											
Material	UT Kit		VT Kit		MT Kit		PT Kit		RT Kit		Demo Kit
Item	Part No		Part No		Part No		Part No		Part No		Part No
Fe	KTCS86	£928	KTCS87	£928	KTCS88	£928	KTCS89	£928	KTCS90	£928	KTCS91
S/S	KTSS86	£1205	N/A	N/A	N/A	N/A	KTSS89	£1205	KTSS90	£1205	N/A
Al	KTAL86	£1205	N/A	N/A	N/A	N/A	KTAL89	£1205	KTAL90	£1205	N/A

Flawed Specimen Sets – Level 2											
Material	UT Set		VT Set		MT Set		PT Set		RT Set		
Item	Part No		Part No		Part No		Part No		Part No		
Fe	FSCS01	£1189.00	FSCS02	£816.00	FSCS03	£998.00	FSCS04	£998.00	FSCS05	£1189.00	
S/S	FSSS01	£1514.00	N/A	N/A	N/A	N/A	FSSS04	£1207.00	FSSS05	£1514.00	
Al	FSAL01	£1623.00	N/A	N/A	N/A	N/A	FSAL04	£1360.00	FSAL05	£1623.00	

Standard Flawed Specimens - Magnetic and Penetrant											
Item	Part No		Item	Part No		Item	Part No		Item	Part No	
SV Plate	MC-01	£194.00	SV Nozzle	MC-09	£542.00	SV Pipe	PC-05	£295.00	SV Tee	PC-06	£202.00
SV Pipe	MC-02	£202.00	SV Node	MC-10	£542.00	SV Tee	PC-07	£202.00	SV Y	PC-07	£202.00
SV Pipe	MC-03	£224.00	SV Node	MC-11	£599.00	SV Nozzle	PC-08	£493.00	SV Nozzle	PC-09	£542.00
SV Pipe	MC-04	£250.00	Set 1M	MC-12S	£1639.00	SV Node	PC-10	£542.00	SV Node	PC-11	£599.00
SV Pipe	MC-05	£295.00	SV Plate	PC-01	£194.00	Set 1P	PC-12S	£1639.00			
SV Tee	MC-06	£202.00	SV Pipe	PC-02	£202.00						
SV Y	MC-07	£202.00	SV Pipe	PC-03	£224.00						
SV Nozzle	MC-08	£493.00	SV Pipe	PC-04	£250.00						

Standard Flawed Specimens - Ultrasonic											
Item	Part No		Item	Part No		Item	Part No		Item	Part No	
SV Plate	UC-14	£234.00	SV Pipe	UC-25	£741.00	DV Nozzle	UC-36	£1200.00	SV Node	UC-37	£1504.00
SV Plate	UC-15	£275.00	SV Pipe	UC-26	£741.00	SV Node	UC-38	£1566.00	Set 2	UC-39	£3833.00
SV Plate	UC-16	£334.00	SV Tee	UC-27	£334.00	Set 3	UC-40	£3110.00	Set 4	UC-41	£4386.00
DV Plate	UC-17	£305.00	SV Tee	UC-28	£387.00	Set 5	UC-42	£8791.00	Set 6	UC-43	£6139.00
DV Plate	UC-18	£334.00	DV Tee	UC-29	£345.00	Set 7	UC-44	£3799.00			
DV Plate	UC-19	£365.00	DV Tee	UC-30	£396.00						
SV Pipe	UC-20	£305.00	SV Y	UC-31	£382.00						
SV Pipe	UC-21	£396.00	SV Y	UC-32	£436.00						
SV Pipe	UC-22	£467.00	SV Nozzle	UC-33	£959.00						
SV Pipe	UC-23	£427.00	SV Nozzle	UC-34	£1200.00						
SV Pipe	UC-24	£550.00	DV Nozzle	UC-35	£984.00						

Standard Flawed Specimens - Radiographic											
Item	Part No		Item	Part No		Item	Part No		Item	Part No	
SV Plate	RC-50	£234.00	DV Plate	RC-58	£279.00	SV Pipe	RC-66	£404.00	SV Pipe	RC-67	£444.00
SV Plate	RC-51	£242.00	DV Plate	RC-59	£304.00	SV Pipe	RC-68	£501.00	SV Pipe	RC-69	£689.00
SV Plate	RC-52	£254.00	DV Plate	RC-60	£333.00	SV Pipe	RC-70	£741.00	Set 8	RC-71	£3956.00
SV Plate	RC-53	£286.00	DV Plate	RC-61	£364.00						
SV Plate	RC-54	£332.00	SV Pipe	RC-62	£272.00						
SV Plate	RC-55	£393.00	SV Pipe	RC-63	£304.00						
DV Plate	RC-56	£234.00	SV Pipe	RC-64	£323.00						
DV Plate	RC-57	£260.00	SV Pipe	RC-65	£364.00						

Standard Flawed Specimens - Visual											
Item	Part No		Item	Part No		Item	Part No		Item	Part No	
SV Plate	VC-73	£174.00	SV Pipe	VC-77	£276.00	SV Nozzle	VC-81	£525.00	SV Node	VC-82	£581.00
SV Pipe	VC-74	£179.00	SV Tee	VC-78	£179.00	SV Node	VC-83	£581.00	Set 9	VC-84	£1503.00
SV Pipe	VC-75	£224.00	SV Y	VC-79	£179.00						
SV Pipe	VC-76	£232.00	SV Nozzle	VC-80	£525.00						

## **EDDY CURRENT EQUIPMENT**

<b>PHASEC 2s</b>
Phase and time base displays, Wide range HP and LP filters
EC tests, conductivity, rotating probe
60Hz to 6MHz      100KHz to 2MHz rotating probe
Single frequency with LC display, 0 – 360 degree phase rotation
<b>PHASEC 2d</b>
Dual Frequency, LC Display
Conductivity and Coating Thickness measurement
Operating Frequency – Normal - 10Hz – 10 MHz, Rotary - 10KHz – 2MHz, Conductivity - 60KHz
<b>LOCATOR 2s – COMPACT LC DISPLAY EC UNIT</b>
Single channel, single frequency LC display
General Purpose EC crack detection unit
60Hz to 6 MHz in 198 Steps, Conductivity 60 KHz
0 – 360 degree phase rotation
Conductivity and Coating Thickness Measurement
Operates absolute, differential, reflection probes
Box, sector, linear alarms – rate filters – outputs
Storage / recall of setups, record / replay of tests
Several kit options with transit case
Weight 0.94 kg, Dimensions 192mm x 140mm x 55mm
<b>AUTOSIGMA 3000</b>
Compact hand held unit with LCD display
Reads in % IACS or MS/m
0.8% - 110% IACS, 0.45 – 64 MS/m
60 KHz and 500 KHz operating frequencies
Compensation for lift off and temperature
Field interchangeable probes
100 hour alkaline battery life
500 reading data logger with PC connectivity
Weight 0.4kg including batteries
Dimensions 165mm x 74mm x 41mm



AutoSigma 3000



Phasec 2s



Locator 2

**A FULL RANGE OF PROBES, CABLES AND ACCESSORIES IS AVAILABLE**

**PLEASE CONTACT ONE OF OUR OFFICES TO OBTAIN OUR LATEST PRICES.  
REMEMBER TO HAVE YOUR REQUIREMENTS AND LIST OF ACCESSORIES READY**



## **VISUAL INSPECTION**

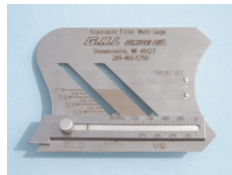
<b>Wohler Inspection Camera Systems</b>	<b>Price</b>
<b>VIS 320</b> Service Camera with digital meter counter, pan & tilt colour camera head 40mm Ø, push rod 6.5mm Ø, 20m long in plastic case, detachable camera head. <b>Complete inspection set in one compact case</b>	£1454.00
<b>VIS 330</b> Service Camera with digital meter counter, pan & tilt colour camera head 40mm Ø, push rod 6.5mm Ø, 30m long in plastic case, detachable camera head. <b>Complete inspection set in one compact case</b>	£1749.00
<b>VIS 340</b> Service Camera with digital meter counter, pan & tilt colour camera head 40mm Ø, push rod 6.5mm Ø, 20m long in plastic case, detachable camera head. Integrated Digital Recording. Video output by RCA socket for documentation. <b>Complete inspection set in one compact case</b>	£1650.00
<b>VIS 320</b> Service Camera with digital meter counter, pan & tilt colour camera head 40mm Ø, push rod 6.5mm Ø, 20m long in plastic case, detachable camera head. Integrated Digital Recording. Video output by RCA socket for documentation. <b>Complete inspection set in one compact case</b>	£2446.75
<b>VIS 2000 Video Inspection System Advance Set</b> for optical control and inspection of vertical flue gas lines from above. Colour monitor, leather protective bag with glare protection and shoulder belt, Pan & tilt camera head, rubber collar as impact protection, 20m of camera cable with metric marking, cable winder, power pack and Aluminium Transport case	£2788.80
<b>VIS 2000 Video Inspection System Professional Set</b> , Colour monitor, leather protective bag with shoulder belt, Pan & tilt camera head, Camera roller guide with protective cage, Camera viper wit integrated distance measurement, Stand, 20m GRP rod 7mm Ø(Red), Power pack	£3416.00
<b>VIS 2000Pro Video Inspection System Professional Set</b> , Professional set colour TFT monitor with 1GB CF card, leather protection bag with shoulder straps, Pan & tilt camera head, Viper with digital meter counter and stand. 20m GRP rod 7mm Ø, Camera roller guide with protection, XXL Aluminium Transport Case	£4245.00
Miniature colour Camera Head with leather case. 26mm Ø with flexible adapter for use with VIS2000/2xx/3xx series	£494.00
Centering Brush, 20cm Ø with 6 brushes. Centers the GRP camera rod to guide the camera head for use with VIS2000/2xx/3xx series	£39.20
Centering Brush Extension, 20cm Ø, with inner & outer thread for endless extension for use with VIS2000/2xx/3xx series	£36.00
Guidance Ball for flex part of camera push rod, improves ability to go through bends	£28.00
Protection Sleeve for VIS3XX series	£51.50
Glass Dome for VIS3xx series	£69.00
Replacement Plastic Domes (Pack 10) for VIS3XX series	£30.50
VIS2000/Pro Colour Camera Head	£910.00
VIS2000/Pro 10m long Camera Cable with metric marking	£110.00
VIS2000/Pro 20m long Camera Cable with metric marking	£155.00
VIS2000/Pro 30m long Camera Cable with metric marking	£199.00
VIS2000/Pro 50m long Camera Cable with metric marking	£245.00
VIS2000/Pro GRP Camera Rod, Black, Flexible 6mm Ø, 5m long	£332.00
VIS2000/Pro GRP Camera Rod, Black, Flexible 6mm Ø, 20m long	£382.00
VIS2000/Pro GRP Camera Rod, Black, Flexible 6mm Ø, 30m long	£410.00
VIS2000/Pro GRP Camera Rod, Red, Stiff 7mm Ø, 5m long	£350.00
VIS2000/Pro GRP Camera Rod, Red, Stiff 7mm Ø, 20m long	£395.00
VIS2000/Pro GRP Camera Rod, Red, Stiff 7mm Ø, 30m long	£418.00
<b>Full Wohler camera range, spares and accessories available</b>	

## **WELDING GAUGES**

<b>Gauges</b>	
<b>Model</b>	<b>Price</b>
"HI-LO" Weld Gauge (GAL)	£167.15
Adjustable Fillet Weld Gauge (GAL) (IMPERIAL OR METRIC AVAILABLE)	£115.00
"HI-LO" Single Purpose Weld-Deerman Gauge	£47.85
V-WAC Gauge (IMPERIAL OR METRIC AVAILABLE)	£47.20
WTPS Weld Gauge With Calibration Block	£96.20
Fillet Weld Gauge Set (IMPERIAL OR METRIC AVAILABLE)	£39.80
Welding Institute Welding Gauge (Formerly Cambridge Gauge)	£69.00
AWS Weld Gauge	£47.40
Thorpe Pipe Pit Gauge	£55.00
Weld Profile Needle Gauge 5" Metal	£12.00
Skew-T/Calculator Fillet Gauge	£207.00



AWS Weld Gauge



Adjustable Fillet Weld Gauge



WTPS Weld Gauge



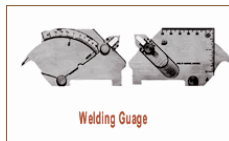
Single Purpose Welding Gauge



Weld Fillet Gauge Sets



V-WAC Gauge



Welding Gauge



Pipe Pit Gauge



## COATING THICKNESS GAUGES

Coating Thickness Gauge		
Cat Number	Elcometer	Price
101 #	Mechanical Coating Thickness Gauge, 4 ranges available	£276.25
121 #	Paint Inspection Gauge (P.I.G)	prices from £629.85
126 #	Dial Thickness Gauge	£198.90
157	Machanical Pull-off Gauge (Coating Thickness)	£154.70
195 #	Saberg Drill, Range 0-1500micron (60mils/thou)	£436.50
211 #	Magnetic Thickness Gauge (Banana) Non-Magnetic on Ferrous 5 ranges available	prices from £259.70
355 #	Digital Coating Thickness Measuring System,	prices from £435.20
SE1000FN Sheen	Ecotest Plus Coating Thickness Gauge FE/Non FE 0-2000 $\mu$ m	POA
600F	Minitest 600F (fe) includes Stats and Standard Probe	POA
600N	Minitest 600F (non/fe) includes stats and Standard Probe	POA
600FN	Minitest 600FN (fe and non/fe) includes stats and Standard Probe	POA
6000F DFT	PosiTector 6000 Basic F1	£395.00
6000F	PosiTector 6000 Standard F2	£495.00
6000F	PosiTector 6000 Memory F3	£655.00
	PosiPen A For measurements on surfaces with normal temperatures	£155.00
	PosiPen B For measurements on surfaces with extreme temperatures (between-100deg.C and +230deg.C)	£190.00
	PosiTest DFT Paint Thickness Gauge (Combo)	£420.00
Touchstone 2	Coating Thickness Gauge c/w Hall effect sensor, User manual, battery & Carry Case	£300.00
<b>Full PosiTector range available. Details on request</b>		

# Calibration Certificate Available P.O.A. (Note this must ordered at same time as unit)



## COATING TEST EQUIPMENT

Adhesive Testing		
Cat Number		Price
106 #	Portable Adhesive Tester – Various Scale Ranges	From £552.50
107 #	Cross Hatch Cutter and Adhesive Tape for Cross Hatch Test	From £132.60
108 #	Elcometer Hydraulic Adhesion Tester Tongs 230 volt UK Plug	£1381.90
108 #	Elcometer Hydraulic Adhesion Tester Tongs 230 volt Euro Plug	£1381.90
108 #	Elcometer Hydraulic Adhesion Tester Tongs 110 volt No Plug	£1381.90
Wet Film Thickness Measurement		
Cat Number		
115	Stainless Steel Comb – Set 4 in Leather Case Scale 1 (25-330 microns) Scale 2 (51-457 microns) Scale 3 (51-762 microns) Scale 4 (127-1270 microns) <b>Also available separately</b>	£78.50
3230	Wet Film Wheel – Available in following Scales	£190.15
	Scales – 0-50 microns	
	0-250 microns	
	0-500 microns	
	0-1500 microns <b>Other scale available</b>	
154	Plastic Comb – Disposable (Box 500) 50-800 microns	£116.10

# Calibration Certificate Available P.O.A. (Note this must ordered at same time as unit)



## COATING TEST EQUIPMENT – POROSITY / PIN HOLES

Porosity Detection -	Price
PDH 6Kv D.C. Holiday Detector c/w Shoulder Bag, Belt and Pouch, Battery, Built-in Charger (automatic mains selection). Mains Charger Lead, Earth Lead, Test Probe Handle (with HV lead and pressure safety switch) Steel Drum Brush <b>(Order code D1)</b>	£910.00
As above with addition of 150mm Conductive Rubber Electrode, Pointed Probe, 2 x Extension Rods (330mm) long. Earthing Magnet, Electrode Shoe. All contained in a "New-Style" robust carrying case. <b>(Order code D1A)</b>	£1070.00
PDH 1-20Kv D.C. Holiday Detector c/w Shoulder Bag, Battery, Built-in Charger (automatic mains selection). Mains Charger Lead, Earth Lead, Test Probe Handle (with HV lead and pressure safety switch) Steel Drum Brush <b>(Order code D2)</b>	£1530.00
As above with addition of 150mm Conductive Rubber Electrode, Pointed Probe, 2 x Extension Rods (460mm) long. Earthing Magnet, Electrode Shoe. All contained in a "New-Style" robust carrying case. <b>(Order code D2A)</b>	£1690.00
Pipeline Test Kit PHD 1-20Kv D.C. Holiday Detector c/w Shoulder Bag, Battery, Built-in Charger (automatic mains selection). Mains Charger Lead, Trailing Earth Lead, Test Probe Handle (with HV lead and pressure safety switch) 460mm Extension Rod, Electrode Shoe, 250mm Phosphor Bronze Brush Electrode. <b>(Order code D23)</b>	£1605.00
PHD 2-40Kv D.C. Holiday Detector c/w Shoulder Bag, Battery, Built-in Charger (automatic mains selector) Mains Charger Lead, Earth Lead, Test Probe Handle (with HV lead and pressure safety switch) Steel Drum Brush <b>(Order code D4)</b>	£1800.00
As above with addition of 150mm Conductive Rubber Electrode, Pointed Probe, 2 x Extension Rods (460mm) long, Earthing Magnet, Electrode Shoe. All contained in a "New-Style" robust carrying case. <b>(Order code D4A)</b>	£196.00
Full Range Of Accessories Available Price and Specification On Application	



PHD 1-20 / PHD 2-40  
Pipeline Test Kit



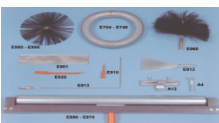
PHD 6Kv Pin Hole holiday  
Detector



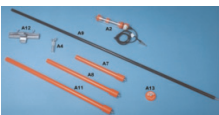
PHD 6Kv Pipeline Test Kit



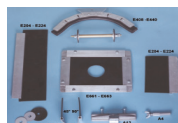
PHD 2-40 / PHD 1-20 Pin  
Hole / Holiday Detector



Miscellaneous Electrodes



Accessories



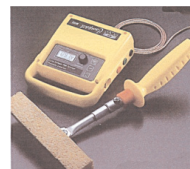
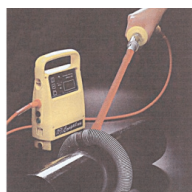
Silicone Rubber Electrodes



Phosphor Bronze Electrodes

## **POROSITY DETECTION**

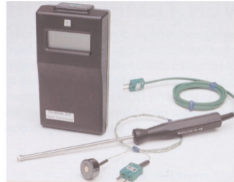
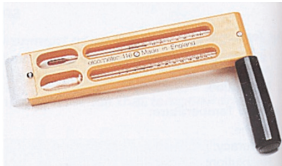
<b>Compact Porosity Detection</b>		<b>Price (£)</b>
Model DC15	15kv Industrial Kit	P.O.A
Model DC15	15kv Pipeline Kit	P.O.A
Model DC30	30kv Industrial Kit	P.O.A
Model DC30	30kv Pipeline Kit	P.O.A
Model Pulse 20	20kv Industrial Kit	P.O.A
Model Pulse 20	20kv Pipeline Kit	P.O.A
Model Pulse 40	40kv Industrial Kit	P.O.A
Model Pulse 40	40kv Pipeline Kit	P.O.A
Model Pulse 60	60kv Industrial Kit	P.O.A
Model Pulse 60	60kv Pipeline Kit	P.O.A
<b>Industrial Kit comprises:</b> Detector with clip-on power pack, Mini-Crest Meter (DC15 and DC30 only), 10hr charger, Probe handle with neon and 2m lead, 60mm Connector for flat brushes, 7m Earth lead with clamp, Fan Brush, 250mm Flat brass wire brush, 450mm Probe extension, Air-operated earphones, Shoulder and Waist Harness, Kit Case, Operating Instructions with conformance certificate.		
<b>Pipeline Kit comprises:</b> Detector with clip-on power pack, Mini-Crest Meter (DC15 and DC30 only), Spare clip-on battery pack, 10hr Charger, Probe handle with neon and 2m lead, 7m Earth lead with clamp, Fan Brush, Coil joiner with 450mm connector, Air-operated earphones, Shoulder and Waist Harness, Kit Case, Operating instructions with conformance certificate.		
<b>DC Inspector</b>		
10kv Inspector Kit		P.O.A
20kv Inspector Kit		P.O.A
<b>Inspector Kit comprises:</b> Detector, Power Pack (20kv inspector only), 125mm Flat Brass Wire Brush or optional fan brush, 7m Earth lead with clamp, Kit Case, Operating instructions with conformance certificate.		
<b>Thin Film Pinhole (Wet Sponge)</b>		
9, 67.5 and 90 v (Selectable) Thin Film Pinhole Kit		P.O.A
67.5 v (Fixed) Thin Film Pinhole Kit		P.O.A
<b>Thin Film Pinhole Kit comprises:</b> Detector, Telescopic Probe handle with sponge, 7m Earth lead and clamp, Kit Case, Operating instructions with conformance certificate.		
<b>Crest Meter (For Calibration)</b>		
DC Model Includes 7m Earth Lead and Clamp		P.O.A
Pulse Model Includes 1m Earth Lead and Clamp		P.O.A
Certification of Crest Meter		P.O.A



## CLIMATIC CONDITION MONITORING

Climatic Condition Monitoring		
Cat Number		Price
113	Magnetic Thermometer indicates the surface temperature of steel and other magnetic materials continuously.	£60.30
114	Dew Point Calculator Celsius (with Fahrenheit conversion)	£38.20
116A	Whirling Hygrometer Spirit Type Celsius Range -5 degree to 50 degree C	£55.60
116C	Sling Hygrometer Range -5 degree to 50 degree C	£67.10
213 #	Digital Thermometer Range -50 degree to +850 degree C	£138.20
319 #	Dew meter c/w Liquid Temperature Probe	From £462.80

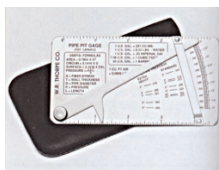
# Calibration Certificate Available P.O.A. (Note this must ordered at same time as unit)



## **SURFACE PROFILE**

<b>Surface Preparation</b>		
<b>Cat Number</b>		<b>Price</b>
101	Roughness Gauge (Scale 45)	£276.25
119	Pipe Pit Gauge (Imperial Unit Device)	£55.00
122	Testex Tape (50Tape Roll Coarse, 0-50 microns) For use with 124 Foil Gauge	
122	Testex Tape (50 Tape Roll, Extra Coarse, 37-140 microns)	£44.70
122	Testex Tape (50 Tape Roll, Paint Grade, 33-85 microns)	£44.70
123 #	Surface Profile Gauge (Metric or Imperial)	£182.35
124 #	Foil Gauge for Testex Tape (Metric or Imperial)	£256.10
125	ISO Surface Profile Comparator (Shot or Grit)	£93.45
127	Keane-Tator Surface Profile Comparator (Shot, Grit or Sand)	£127.10
129	Rubert Surface Comparator (Shot or Grit)	£95.10
130 #	Salt Contamination Meter SCM400 KIT	£3472.30
223 #	Digital Surface Profile Gauge	£342.55

# Calibration Certificate Available P.O.A. (Note this must ordered at same time as unit)





## **Metal Analysis**

### **NITON XLt & XLi**



- ▶ Positive Metal Identification – Q.A.
- ▶ Scrap Metal Analysis Prior To Bidding
- ▶ Hand-Held Alloy Analyser with Either Minaturised X-ray Tube or AM-241 Radiation Source.
- ▶ Verification Of Construction Alloys
- ▶ Aerospace Alloy Grade Identification
- ▶ Quality Assurance Inspection
- ▶ Petrochemical Metal Inspection
- ▶ Fabrication Quality Assurance PMI
- ▶ Alloy production Stock PMI
- ▶ Incoming Scrap (Scrap-Sorting)



### **RMG MINISORT 2**

- ▶ Fe,Ti,Cu and Ni Based Alloy Identification
- ▶ No User Calibration or Standardisation Required
- ▶ Easy Hand-Held Operation
- ▶ Aluminum Alloy Identification
- ▶ No Cumbersome Trolley
- ▶ No Wires or Probe Cables
- ▶ No Gas Bottle or Lines
- ▶ User Editable Alloy Libraries
- ▶ Computer Linking for Interrogation
- ▶ Interchangable Batteries



**Further Information, Specifications and Datasheets are Available on Request,  
Please Call One of Our Offices To Obtain Copies.**

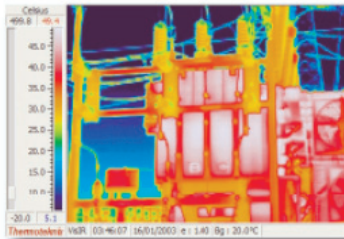
## **THERMAL IMAGINE CAMERA & REPORTING SOFTWARE**

**VisIR® Ti 200** is a cost-effective, real-time thermal imaging camera with many of the features normally found in more expensive systems. The combination of simultaneous visual and infrared images plus voice recording in the VisIR Ti 200 camera dramatically reduces the time taken to collect field data for greater productivity. Its lightweight and rugged (cast aluminium) construction gives maximum durability and ergonomic one handed operation:

- Cost-effective Package
- Light weight, rugged cast Aluminium construction
- Four hour battery life
- DayBrite™ 4" LCD touch screen display
- Real-time, simultaneous Thermal and Visual imaging
- Wireless connectivity with VisAIR Wi-Fi long range transmission, iRDA and Bluetooth standards
- Single hand operation
- Voice recording



Condition RED® is a powerful SQL Server database system that organizes your assets and workflow for Thermography and Predictive Maintenance. Camera based asset information and direct data entry in the field lead to fault and work list reports that are produced in seconds. Condition RED works on your PC in the shop and in your camera in the field to make sure your Preventive Maintenance program runs smoothly and effectively at all times. Condition RED VisIR provides direct integration of camera based thermal inspection and PC data management. Asset reference thermal & visual images and settings are transferred directly from PC to camera for side-by-side field comparison and evaluation of asset status. Instant decision making and entry of asset operating parameters for automated reports and repair schedules.



**These Products Are Subject To UK Export Licence And Are Country Specific,  
Please Contact Us For Further Information.**

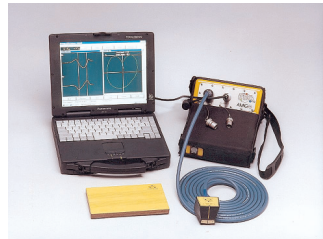


## ACFM CRACK DEPTH MEASUREMENT

The AMIGO represents a significant advance in ACFM topside inspection technology. The new instrument has all the advantages of ACFM inspection but in a smaller, lighter package, and with the added benefits of a longer battery life and support for simple array probes.

The system provides and more:

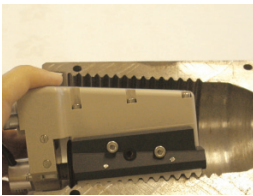
- Rapid scanning using a hand-held probe.
- Reliable crack detection and sizing (length and depth).
- Dual frequency option 5kHz (for ferritic and non-ferrous metals).
- Rugged site unit, IP54 rated.
- At least 5 hour operation on one fully-charged battery pack,
- no need to clean to bare metal.
- Capable of inspection through thin or thick coatings,
- Compatible Windows software for ease of operation
- Full data storage for back-up, off-line view and audit purposes.
- Access to a wide range of geometries using active topside probes.
- One man operation in difficult access areas.



**AMIGO**  
**ACFM CRACK MICROGAUGE**

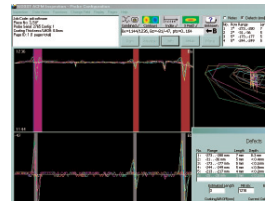
### **FEATURES OF THE ATI SYSTEM**

The new ATI system comprises a master control unit, based around TSC's rugged, battery-powered Amigo ACFM instrument. This is significantly lighter than the previous system, and also supports use of a higher operating frequency for increased sensitivity on non-ferrous components. The system is controlled by a standard laptop PC, which can be supplied as a rugged version if required.



#### **ATI ARRAY PROBES**

can be used to inspect a variety of **pin** and **box** threads and has been used successfully on NC38, NC 46, NC50, 4 ½ IF, 6 5/8 Reg, 7 5/8 Reg and HT40 connectors. Probes for other thread forms or pitches are also available.



The ATI system has been designed to reduce the requirement for skilled operators and to allow drillstring thread inspection data to be available for audit. Having the ability to detect, locate and size defects without the need for operator interpretation.

The Model U31 Underwater ACFM Crack Microgauge represents a significant advance in ACFM subsea inspection technology. The new instrument has all the advantages of ACFM inspection available on other TSC instruments, but in a much smaller, lighter package designed specifically for diver deployment.



**Underwater ACFM Crack  
Microgauge Model U31D**

Full technical specifications and data sheets are available on all of the above products

## **MAGNETIC FLUX LEAKAGE INSPECTION FOR TUBULAR PRODUCTS**

### **DEXIM '4000'**

**Dexim Oil Tools**

**Tubular Inspection System**



#### **Technical Data**

- Operating Voltage Range: 105 – 113v AC
- Current Requirements: 10 Amps Approx Full Load
- Weight : 14kg. Approx
- Dimensions: 511 x 409 x 206mm (20" x 16" x 8")
- Chart Recorder: 2 Channel Digital Thermal Array

#### **Advantages**

- Easy to Operate
- Improved Inspection Service
- Portable/Lightweight for Onshore and Offshore Inspection
- Thermal Chart Recorder
- Compatible with NDT, Wilson and Intraspect Buggy Equipment
- Signal Conditioning System Improves Signal to Noise Ratio on Corroded Pipe
- Full D.C. Voltage Monitoring System for Rapid Fault Finding
- Signal Polarity Switches Simplify Shoe Replacement

#### **EXAMPLE**

**The Cost of Standard Kit is approx. £25,861.50 This Includes:**

EMI Console  
Data acquisition System  
3 x Buggy heads (various sizes)  
2 x Magnetising Coils (various sizes)  
Dual Drive Buggy  
Various Buggy Shoes, Bolts, Latches, Bearings etc  
Various Connectors  
Tool Box and Electricians Tool Kit

**FOR AN ITEMISED QUOTATION PLEASE CONTACT ONE OF OUR OFFICES.**

## WIRE ROPE TESTER

Safe and reliable use of industrial objects often depends on the technical condition of wire cables, referred to commonly as "wire ropes". Such ropes typically deteriorate during their lifetime for various reasons, such as external and internal corrosion and abrasion, static and dynamic mechanical stresses, etc. Deterioration results in the loss of metallic cross-sectional area (LMA) and local faults (LF), such as broken individual wires and strands. Information concerning the technical condition of rope allows timely remedial actions that increase rope life and ensure their continued safe use. This information can only be obtained with special instruments.

### Important Features of INTROS

- Designed for inspection of round, flat and rubber flat wire ropes
- Light weight with small magnetic heads and data logger dimensions
- Accurate readings and computer processing
- No special preparation of the rope is required for inspection
- Speed of rope under test does not affect readings
- Easy and fast installation on ropes
- Rugged construction
- Simple-to-use calibration modes



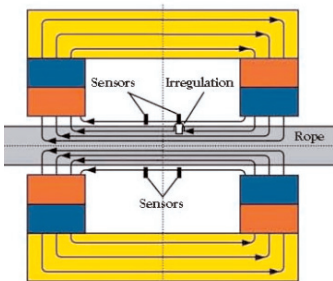
Elevators, cranes, ropeways



Bridge guy ropes



Mining, cranes,  
Ropeways, shipyards



### Principle of Operation

INTROS utilize the MFL principle of operation. The magnetic head is installed on a rope and travels along the rope during the test.

The magnet's field saturates rope section in longitudinal direction. Irregularities in the rope such as LMA and LF cause redistribution of the magnetic flux surrounding the rope, that are detected by sensors\*. Signals from the sensors contain critical information concerning LMA and LF, and other important conditions.

**Full Range of Intros Products, Data Sheets and Prices Are Available On Request.**

## PIPELINE INSPECTION TROLLEY PTU1



### **Description**

The Pipeline Trolley type PTU1 is an electrically driven unit for the conveyance of a single operator into the bore of a pipeline. The unit can be used in pipes with bore diameters from 24 inches upwards. The unit is fitted with full controls at each end and operates in forward and reverse directions. Inspection lamps are built into both ends of the unit.

The trolley has a microprocessor based speed controller which enables ramp up and ramp down speeds to be factory set and also includes operating interlocks. Electrical and manual brake facilities are incorporated. The trolley operates on a 24 volt DC rating and incorporates two maintenance free heavy duty rechargeable batteries as standard. Up to eight hours continuous operation is achieved. Lower capacity power sources can be supplied.

Battery condition monitoring with displays are fitted at each end of the unit. Warnings are given for low battery condition. A battery charger is included in the package to give a recharging time of less than 10 hours.

The driven and idler wheels have heavy duty polyurethane tyres. Drive is via a 24V DC motor and gearbox.

The operator working surface comprises rubber covered thick resilient nylon made in three hinged sections. The latter give total access to batteries, drive and storage.

On board storage facilities contain a tool set, fire extinguisher, torch and tow rope. Two - way radios can also be supplied.



### **Specifications**

**Minimum pipe diameter:**

24 inches

**Overall Length. (inc hooks):**

1930mm

**Width:**

400mm

**Height (from flat surface):**

245mm

**Total weight:**

110kg with heavy duty batteries

**Power Supply:**

2 x 12V batteries maintenance free

100 Ah

**Charging time:**

Less than 10 hours

**Driving wheels:**

5" Polyurethane tyred

Motor/Gearbox

24V DC with 16:1 Gearbox

**Motor current:**

11.5 amps max.

**Traverse speed:**

Variable up to 40 m/min

**Built in lamps:**

24V 21W

**Brakes:**

Electrical brake/Defaults on manual brake release

**Accessories included:**

10Ah battery charger

1kg dry powder extinguisher

Tow rope

Torch

**Optional Accessory:**

Two - Way radios

**Controls (each end):**

On/Off/On with lamp switch

Forward/Reverse Control

Speed adjustment rotary control

Battery condition indicator

## ULTRASONIC INSPECTION OF HEAT EXCHANGER TUBES

### IRIS INSPECTION SYSTEM

#### ***Brief description of IRIS ultrasonic principle***

The IRIS 9000 employs an ultrasonic immersion pulse echo technique. The ultrasonic transducer is contained in a test head which fits into and is centred in the heat exchanger tube. The ultrasonic pulses are emitted along a path parallel with the tube axis. These pulses are then reflected by a rotating 45-degree mirror so that they are directed radially onto the tube wall. Reflections from the inner and outer walls follow the same path back to the transducer. The time interval between the first echo from the internal surface of the tube and the first echo from the outside surface of the tube can be used to represent the tube wall thickness.

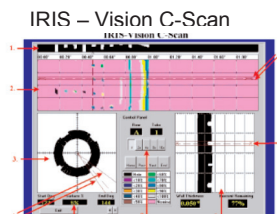
As the mirror rotates, the ultrasonic beam is traversed around the tube circumference and each successive pulse is mapped out as a horizontal scan line on the screen of the IRIS 9000. There are a 192 readings per revolution and 2400 revolutions per minute.

When the probe is advanced along the tube at the optimum inspection rate of 2.54 meters (100") per minute, the ultrasonic pulses paint a continuous helical path on the tube wall ensuring 100% coverage.

The results are the most definitive yet to be invented for the inspection of air cooled and liquid cooled tube bundle heat exchangers.

#### ***Outstanding Features***

- \* Self calibrating
- \* Extremely accurate ( $\pm .05\text{mm}$ ) (.002")
- \* Tube lengths up to 30 metres (99 Feet)
- \* All tube sizes from 12.2mm (0.48") internal diameter up through 63.5mm (2.5") outside diameter
- \* Documents calibration and inspection data on-site
- \* Probe advanced by encoder drive motor
- \* Menu driven operating system
- \* Operates in metric or imperial measurement
- \* Custom designed for this specific purpose (not pc based)
- \* ***Reliable and repeatable inspections***

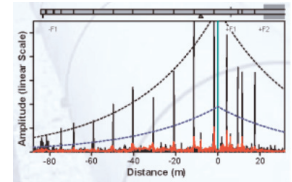


**NOTE: COUNTRY DEPENDENT SUPPLY  
FULL DATA SHEETS AND PRICES AVAILABLE ON REQUEST**

## **SPECIALIST HIRE SERVICES** **LONG RANGE ULTRASONICS**

Situations where the system is commonly used include:

- Sleeved road crossings
- Wall penetrations
- Straight runs of pipe where 100% of the volume must be inspected
- Inspecting under many types of supports
- Elevated pipe work
- Inspecting for corrosion under insulation (with minimal insulation removal)
- Cryogenic pipe work
- Sphere Legs
- Jetty lines



### **Rapid Screening Service for Assessment of Pipe Corrosion**

**WAVEMAKER™ G3** is a proven, state-of-the-art pipe screening system, which is used to rapidly locate internal and external corrosion and other defects.

The pipe screening system allows long lengths of pipes in difficult to access areas to be quickly screened for corrosion or other defects.

Operating on pipes of 2 inches or greater diameter, the **WAVEMAKER™ G3** system employs lightweight transducer rings to send guided ultrasonic waves up to 50m in each direction along the pipe.

Sophisticated software routines help categorise reflections from changes in the cross section of the pipe.

**WAVEMAKER™ G3** therefore gives 100% volumetric screening of up to 100m of pipe from the transducer ring location.

The **WAVEMAKER™ G3** system can generate both torsional and compressional waves. This means that the inspection can be performed on both gas and liquid filled pipes **without taking them out of service** and with minimal surface preparation. New application areas are continually being developed.

### **General Specifications**

- |                        |  |
|------------------------|--|
| • Package supplied     | - Guided Wave System complete with Transducer rings, technician  |
| • Pipe diameter range  | - 1" to 80"+ outside diameter  |
| • Transducer Rings     | - Fixed rings up to 8" diameter, Flexible rings from 8" to 50" diameter<br>2 to 4 integral rings of transponders per ring dependant on required sound wave modes |
| • Pipe Clearance       | - 3" clearance all round required of application of Transducer Ring  |
| • Pipe Lagging         | - Lagged, un-lagged and painted pipes can be inspected   |
| • Lagging Removal      | - Lagged pipes require the removal of a circumferential band up to 150mm wide  |
| • Set Up Time          | - Typically 15 minute where pipe insulation is removed   |
| • Range of Test        | - Typically 20m to 100m  |
| • Reporting of Results | - Immediate on line interactive reporting of each test<br>Site photographs and sketches can be included  |

**SERVICE AVAILABLE WORLDWIDE**



## **G – SCAN GUIDED ULTRASONICS (RAIL)**

### **Guided Wave Technology**

Guided waves are acoustic waves, which propagate in structures with boundaries. The guided wave energy travels along the structure without beam spread. Additionally, low frequencies are used for guided wave applications to minimise the number of modes and their complexity. The combination effect of low frequency and no beam spread makes guided wave attenuation very low.

To use guided waves to inspect rail a transducer array must be used to transmit packet of guided wave energy and detect the reflected signals. Long lengths of rail can be inspected from a single location using this technique.

Guided wave energy travels along the length of the rail and is reflected from areas of reduced cross section. Transverse defects in the rail are at right angles to the wave propagation direction and so cause large reflections making them easy to detect.

### **Product Specifications**

- Capable of testing more than 50m of rail in each direction (i.e. more than 100m of rail per test)
- Typical test time less than 1 minute
- Can detect significant transverse defects in the head, base and web
- Can detect defects in alumino-thermic welds and test through multiple welds
- Rapid deployment with integrated pneumatic clamping mechanism
- Single unit with no trailing wires
- USB interface to laptop or PC for data storage, backup and additional processing
- Integrated rechargeable battery for more than 8 hours use
- Integrated GPS for automatic site location
- Simple user interface
- Fully automated test sequence
- Full technical audit trail for all data collected

### **Applications**

Ideal applications for guided wave testing include

- Rail welds of all kind
- General rail screening
- Level crossings and tunnels
- Switch Blades

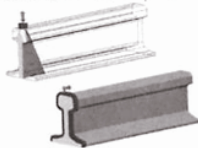
#### **Advantages of guided waves over conventional ultrasound**

Many tens of metres of rail can be inspected in a single test

The entire rail cross section is inspected

Very sensitive to transverse vertical defects

Conventional ultrasonic inspection

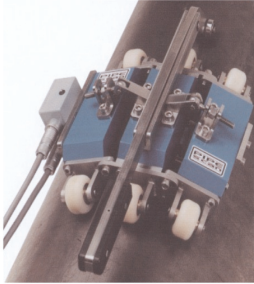


Guided wave inspection



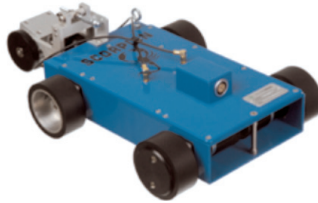
**G-Scan system in action**

## PIPE WALL / TANK WALL SCANNERS



**Pipescan** is an easy to use, cost effective, portable magnetic flux leakage inspection system for the detection of random internal corrosion in pipe runs. The latest magnetic material coupled with unique mechanical designs enables coverage of all pipe diameters from 50mm to 2.4 metres with a limited number of scanning heads. Unlike some inspection methods, MFL is not affected by product flowing through the pipe runs so surveys can be carried out both on-line and off-line. Use of Pipescan, with its high probability of detection, to locate actual internal corrosion, coupled with A scan ultrasonic monitoring of corrosion growth, provides a cost effective accurate system for the determination of plant integrity.

- Pipe diameters from 50mm – 2.4m
- Fixed/adjustable/ Circumferential scan heads available
- Separate battery operated light weight electronic module



**Scorpion BP Option** is a rugged remote access crawler designed to allow cost effective ultrasound thickness measurements on above ground ferro-magnetic structures. The Scorpion system comes in two options, dry coupled (DCP) or irrigated (BP). The remote access crawler comes supplied with an irrigated dual 5MHz transducer fed from a pressurised stainless steel reservoir. Complete with any ultrasonic system, a 30 metre umbilical cable with water feed allows access to the top of the highest storage tank for remote access measurements. Powered by Sitemaster 30 battery pack the system is capable of 8 hours continuous operation on a single charge.

- Pressurised water supply
- Remote operation with height restrictions
- 12VDC self contained system



**Scorpion DCP Option** is a rugged remote access crawler designed to allow cost effective ultrasound thickness measurements on above ground ferro-magnetic structures. The remote access crawler uses a unique "Dry Coupled" wheel probe eliminating the need for traditional couplant. This allows the crawler to travel vertically, horizontally or even inverted whilst still fully functional. Compatible with ANY ultrasonic system, a 50 metre umbilical cable allows access to the furthest point of most structures without the need for scaffolding. Powered by the Sitemaster 30 battery pack, the system is capable of 8 hours continuous operation on a single charge.

- Unique dry coupled wheel transducer
- Remote operation with NO height restrictions
- 12VDC self contained system

**PRICES AND INFORMATION AVAILABLE ON REQUEST**



## TANKFLOOR SCANNERS / MAPPING UNITS



The **FloormapVS** inspection system uses advanced magnetic flux leakage technology housed in an ergonomically designed motorised scanner. The on-board ruggedised, weatherproof computer uses touch screen. Data acquisition and analysis, as well as data reduction, is carried out in real time resulting in only useful information being stored to the hard drive. Graphical reporting software allows the operator/client to view all corrosion, filter results to identify areas of immediate concern and produce pre-formatted hard copy reports as well as the electronic version.

- Advanced magnetic flux leakage technology
- Ruggedised touch screen computer
- Real time data acquisition and analysis
- Hard copy & Electronic graphical reporting.



The **MFL 2000** is a high-speed, motorised magnetic flux leakage scanner capable of inspecting between 5000-8000 square feet per shift. The ergonomic design coupled with the latest magnetic technology have resulted in an easy to operate, accurate, reliable and cost effective inspection tool.

The motorised scanner has an auto-stop system, which ensures any defect above the operator adjustable threshold is identified. All controls are situated in a recess at the top of the unit allowing easy viewing and operation whilst being protected against accidental adjustment.

- High speed, Cost Effective Inspection
- Easy to use ergonomic design
- Minimal maintenance requirements
- Automatic defect detection system



The **Handscan** system is designed to compliment the full sized scanners, MFL 2000 and Floormap 2000. Even in such a small configuration the latest generation of permanent magnets enable localised magnetic saturation of the floor area under test. Signals from corrosion, above the operator controllable threshold, are displayed as both a visual and audible alarm. It's low profile and extendable handle allow scanning in otherwise inaccessible areas of storage tanks such as the shell to annular area and under pipe work or heater coils.

- Latest generation permanent magnet technology
- Easy to use, cost effective inspection tool
- Low profile with extendable handle
- Separate battery operated light weight electronic module

**PRICES AND INFORMATION ARE AVAILABLE ON REQUEST**

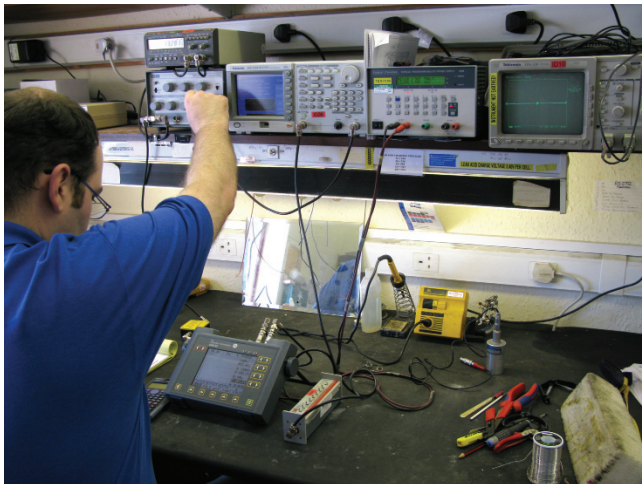


# **EQUIPMENT HIRE & CALIBRATION PRICE GUIDE**

Please confirm availability and price before committing your purchase order.

Should the specific equipment that you require not be listed in the following pages, please contact us.

Our stock inventory changes daily.



**General in house Calibration** including:

ULTRASONIC SETS  
 RADIATION MONITORS  
 X-RAY EQUIPMENT  
 EDDY CURRENT  
 MPI  
 GAMMA SYSTEMS  
 MOST NDT AND INSPECTION EQUIPMENT

**Package Prices for Annual Calibration and Servicing Arranged**

**On site calibration**

**MPI Systems** – On site calibration and servicing. Current and Field Calibrations. Full Test Reporting.

**X Ray Systems** – On site service / calibration of fluoroscopic cabinets, in line systems, exposure room systems and portable X ray systems.

**Ultrasonic Scanning Tanks**

-Calibration of disc tanks to RPS 705, CSIM-1 and equivalent specifications.  
 -Calibration of bar tanks to RPS 707 and equivalent specifications.

AUTOMATED INSPECTION SYSTEMS

## **SERVICE / CALIBRATION CHARGES**

**If Your Equipment is Not Listed Please Contact Us For Latest Stock List and Prices**

<b>Equipment</b>	<b>Type</b>	<b>Price</b>
Ultrasonic Flaw Detectors	USM2, USK6, USK7/7B/7S/7GB, USK8/8B, SS100, SS110, DSL 104, B&W 1011,UFD7A	£95.00
	SS120, SS130 , RS125.	£110.00
	Epoch II / III /LT, USK7D, USN50/50L, USN52	£110.00
	USM23/23EX,USM25,USM35,USN52L/52R,USN50D,USL32	£140.00
	Masterscan UFD300/330, USD10, USN58R, USN60, SS140	£160.00
	Krautkramer USIP12, EPOCH 4/4B	£190.00
Thickness Meters	DME range, MX3	£70.00
	DL26 Etc	£75.00
	Comparagauge, 37DL +	£85.00
	Nova Precision	£130.00
P.A.T units	Only with Service or Calibration	P.O.A
Sound Level Meters		£150.00
Holiday Detectors	Most Types	£70.00
Electromagnets	Calibration, Refurbishment and PAT Tested	£40.00
Permanent Magnets	Calibration, Refurbishment and Recharged	£40.00
Portable MPI Sets	Up to 1200 Amps	£50.00
	1200 – 2000 Amps	£55.00
	Above 2000 Amps	POA
MPI Sets Bench Type	Up to 2000 Amps	£90.00
	2000 – 5000 Amps	£130.00
UV Lamps	New bulb may be required	£52.00
Black / White Light Meters	Combined	£120.00
	Single	£80.00
Clamp Meters	Up to 1000 Amps	£65.00
Clamp Meters	Up to 2000 Amps	£70.00
Radiation Monitors		£50.00
Digital Thermometers	Excluding Probe	£40.00
	Probe 0 & 100 Points	£15.00
	Probe 0 – 450C	£22.00
Densitometers	Most Equipment	£34.00
Electrode Ovens	Local or in house 1 – 2	£50.00
	Local or in house 3 – 6	£45.00
Hardness Tester		£55.00
Magnetometer	Dial Type	£25.00
Paint Coating Meter	Analogue	£35.00
	Digital	£45.00
X-ray Panel	Including PAT test and safety check	£90.00
X-ray Head Output Test	Including radiograph	£80.00
Bay Gamma Alarm	In house calibration	£50.00
660 Container	Full service issue certificate	£80.00



157 Central Avenue, Billingham, Cleveland. TS23 1LF. UK  
Tel: INT + 44 (0) 1642 555575 Fax: INT + 44 (0) 1642 555548

**General Terms and Conditions of Hire No./**

1. As of time and date of hire all plant becomes the responsibility of the hirer with regards to insurance, loss, theft, damage, breakdown (ALL RISKS)
2. All equipment prior to leaving our base is thoroughly inspected to ensure its capability of performing to manufacturers specifications. Any fault not reported within 24 hours will be defined to be the responsibility of the hirer.
3. Minimum hire period one week.
4. No charge will be made for delivery of hand carried articles within a five mile radius of our nominated point of collection but a nominal charge will be made for larger items. All mobilisation costs will be charged as extra.
5. Goods will remain **on hire** until the day of return to our base.
6. With the exception of wear and tear, all equipment will be thoroughly checked on return to the base and any defects, repairs or damage will be rectified and charged. Advice will be by telephone or fax in the first instance, enabling your personnel to verify equipment damage if necessary. We welcome inspection by clients' engineer to view damage. Ultrasonic probes, test blocks and leads are classified as consumable items and charged at cost.
7. Any goods returned in a damaged condition will remain on hire for a further period of 14 days after the return date to enable us to carry out repairs. Any equipment damaged, non-functional, broken, lost, stolen or totally written off will remain on hire until its insurance value or repair costs are paid in full, either by the client or his insurer. Note \* see insurance value below.
8. No equipment is to be cross hired to a third party without our prior consent.
9. We reserve the right to change the technical specification of any or all of the products offered without prior notice in line with the company's policy of continuous improvement and increased efficiency.
10. It is our policy to keep sufficient stock to accommodate our client's need, however, we only offer any article subject to availability.
11. Invoices will be nett monthly and due for payment Strictly 30 Days from the date of invoice. Failure to adhere to our payment terms will result in equipment being recovered from site and charged accordingly. A 6% interest rate per month will be charged on invoices, which have exceeded the 30-day payment period.
12. All prices quoted are exclusive of VAT and MOB costs where applicable.
13. Please note failure to return this hire contract will result in the quoted hire charges being raised by 100%

Customer:..... Order No:.....

Collection/Delivery:.....

**Equipment Details**

Type:..... Make/Model:.....

Plant No:..... Insurance Value:.....

**Clients Authorised Signature**

Signing this document is by way of accepting the terms and conditions contained herein.

Sign:..... Print:.....

Date:.....

**Fast Track Hire, photocopy / enlarge, then telephone us to obtain a contract number, complete this page and fax it to us.**

## **HIRE EQUIPMENT**

<b>Description</b>		<b>Standard 1-8 Weeks</b>
X – Ray Unit	160KV Half Wave	£140.00
X – Ray Unit	200KV Half Wave & 300KV Half Wave	£175.00
X – Ray Unit	160KV CP	£325.00
X – Ray Unit	100KV CP	£275.00
UT Set	USK6/USK7	£85.00
UT Set	SS100/UFD7	£55.00
UT Set	USN50 Digital Unit	£130.00
UT Set	Epoch III	£175.00
Thickness Meter	DM2 – DM3 etc.	£70.00
Thickness Meter	Digital MX3	£75.00
Thickness Meter	Cygnus 1Intrinsically Safe Unit	£95.00
Thickness Meter	Cygnus 1 Underwater Safe Unit	£95.00
Thickness Meter	DL26 with Software	£150.00
Paint Meter	Digital 256 Type	£50.00
Paint Meter	Other Digital/Analogue	P.O.A
EC Unit	Hocking 2200, Multi Frequency Eddy Current Unit	£250.00
Metascop		£100.00
Iplex Videoscope	6mm dia x 5m long	£175.00 p/day£690.00 p/week
Wohler VIS 220	Inspection Camera System	£100.00 week
Wohler VIS 2000Pro	Inspection Camera System	£250.00 week
Holiday Detectors		£65.00
Wet Sponge Detector		£30.00
Paint Inspection Kit	Whirling Hygrometer, Digital Thermometer, Film Combs, Low Cost Coating Meter, Dewpoint Calculator	£75.00
Weld Viewers		£35.00
Crack Microgauge		£250.00
Digital Thermometers		£30.00
UV Lamp		£45.00
Hardness Tester	Dynapocket	£100.00
Ferrite Meter – Fisher Ferritscope		£95.00
Crack Microgauge		£250.00
Sound Level Meter		£50.00
MPI Set		£65.00
Electromagnet		£50.00
Digital Cover Meter		£95.00
C.A.T. Detector	Complete with gen	£60.00
Pull – Off Tester		£70.00
Gauss Meter		£70.00
C.A.T. Detector	Complete with gen	£60.00
Chart Recorder		£80.00
Densitometer	DDS2	£20.00
Tank Scanner	MFL Floormap System	£225.00 p/day

## **REFURBISHED EQUIPMENT**

### **FOR SALE**

A range of serviced and calibrated equipment is usually available for sale.

#### **X-Ray Equipment**

100Kv – 320Kv CP Units  
100Kv – 300Kv Portables  
Panoramic / Directional Radiation Monitors  
Film Processing Units  
RTR Systems

#### **Gamma Equipment**

Gamma Containers  
Windout Systems

#### **Ultrasonic**

Flaw Detectors – Analogue / Digital  
Thickness Gauges – All Types

#### **Eddy Current**

Phase Display Units  
Meter Display Units

#### **Optical**

CCTV Systems  
Fibrescopes

#### **Dye Pen / MPI**

Dye Penetrant Lines  
Magnetic Benches  
Portable Magnetic Benches  
Field Strength Meters

#### **General**

Grade Sorters, Gas Detectors, Holiday Detectors, Tachometers

Please contact us with your specific requirements.

Equipment can also be sourced.

We also purchase equipment, which you may have for disposal

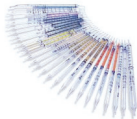
## ULTRASOUND VELOCITIES OF SOME COMMON MATERIALS

MATERIAL	ULTRASOUND VELOCITY	
	INCHES / $\mu$ SEC	METRES / SEC
ALUMINIUM	0.250	6350
BISMUTH	0.086	2184
BRASS	0.173	4394
CADMIUM	0.109	2769
CAST IRON	0.180	4572
CONSTANTAN	0.206	5232
COPPER	0.184	4674
EPOXY RESIN	0.100	2540
GERMAN SILVER	0.187	4750
GLASS, CROWN	0.223	5664
GLASS, FLINT	0.168	4267
GOLD	0.128	3251
ICE	0.157	3988
IRON	0.232	5893
LEAD	0.085	2159
MAGNESIUM	0.228	5791
MERCURY	0.057	1448
NICKEL	0.222	5639
NYLON	0.102	2591
PARAFFIN	0.087	2210
PLATINUM	0.156	3962
PLEXIGLASS	0.106	2692
POLYSTYRENE	0.092	2337
PORCELAIN	0.230	5842
PVC	0.094	2388
QUARTZ GLASS	0.222	5639
RUBBER, VULCANISED	0.091	2311
SILVER	0.142	3607
STEEL, MILD	0.233	5918
STEEL, STAINLESS	0.223	5664
STELLITE	0.275	6985
TEFLON	0.056	1422
TIN	0.131	3327
TITANIUM	0.240	6096
TUNGSTEN	0.210	5334
ZINC	0.166	4216
WATER	0.058	1473



## **OTHER SAFETY AND DETECTION DEVICES**

### **Gas Detection Tubes**



We sell a full range of Draeger, Rae and MSA Colourmetric tubes for the detection of over 500 different gases and vapours. Ideal for compliance with COSHH legislation and emission monitoring.

### **Gas Detection**



Portable gas detection for the monitoring of single or multiple gases simultaneously. Models can include up to 5 gases at once, data logging and integrated pumps for remote sampling.

### **Breathing Apparatus**



A range of breathing apparatus for use when working in or escaping from hazardous environments where fire, smoke or toxic gases may be present.

### **Lighting**



Our range of ATEX approved safety torches, hand lamps and cap lamps are suitable for use in all industries and are available as dry cell or re-chargeable units.

### **Chemical Suits**



Available in a range of materials and styles, including combi-splash suits and full encapsulation for internal breathing apparatus by leading manufacturers Respirix and Draeger Safety.

### **Harnesses**



A comprehensive stock of harnesses are available for working at heights as well as for confined space entry / rescue.

### **Cable Location**

Metal detectors and Cable Avoidance Tools with a range of depths available, as well as innovative ground radar products.



### **Air Movers & Ventilation**

We offer a selection of air-moving equipment suitable for all environments; all with various capabilities to ensure you have the right equipment with enough capacity to suit your needs.



### **Airline**

Airline trolley systems are ideal for use where extended duration of BA is required. Designed to work from a compressor or cylinders and with either 50 or 100 metre hose lengths.



### **Tripods**

Lightweight, easy to erect tripods with galvanised tubular aluminium, and telescopic legs, designed for strong and stable recovery.



### **Fall Arrest**

A range of robust fall arrest and retrieval devices designed to be reliable in all environments in which controlled entry or fall arrest may be required. Working at heights equipment also available.



### **Road Furniture**

We can supply a range of specialist temporary traffic products made from reflective PVC including roll up road signs and fold up barrier systems.





## Notes



## Notes



## Notes



## Notes

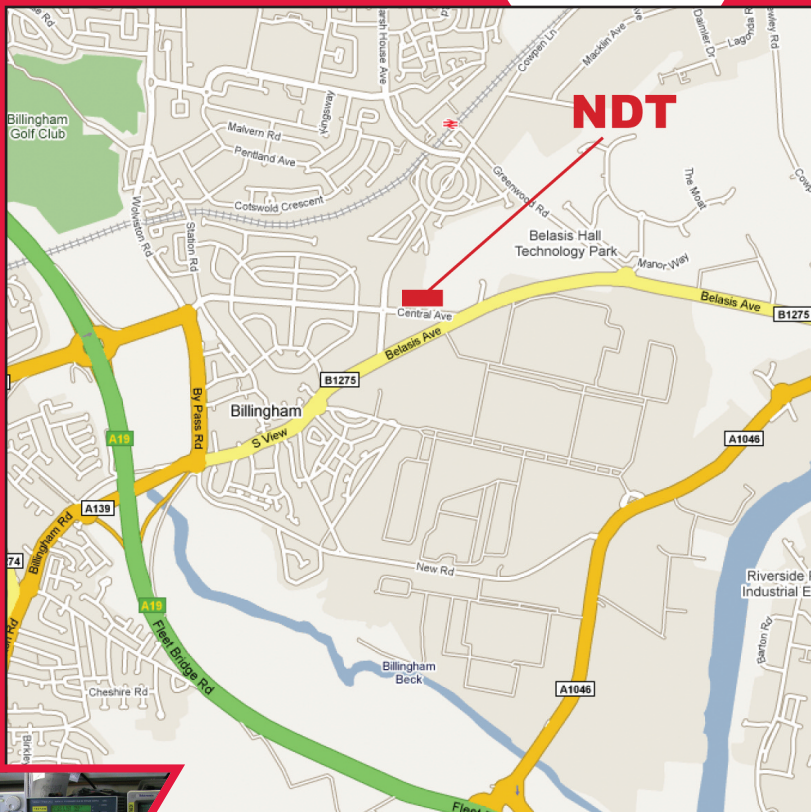


## Notes



## Notes

**Northern Office:**  
**1 mile from A19 / A1027**  
**junction to the rear of**  
**Billingham Press**



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