



**EQUIPMENT SUPPLIES LTD**

**Product & Price Guide  
2016/2017**






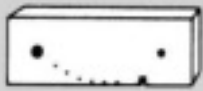
**DDS3**  
Film Densitometer



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# Calibration Blocks

ORDER CODE	SHAPE (Not to Scale)	TYPE	DESCRIPTION/ APPLICATION	STANDARD MADE TO	MATERIAL/ SIZE
No. 1		EUROPEAN STANDARD	<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>EN ISO 2400 2012</b> Tolerance +/- 0.1mm	STEEL 25mm X 100mm X 300mm 5.2 kg (Optional 50mm thickness) 10.4 kg
V1		A2	<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>BS2704</b> Tolerance +/- 0.1mm	STEEL 25mm X 100mm X 300mm 5.6 kg (Optional 50mm thickness) 10.8 kg
No. 2		ISO & EUROPEAN STANDARD	<b>No. 2 Calibration Standard</b> Small calibration block for site checking of shear wave probes, time bases and gain settings. 5mm target hole.	<b>EN ISO 7963 2010</b>  Tolerance +/- 0.1mm	STEEL 12.5mm X 43mm X 75mm 0.22 kg (Optional 20mm thickness) 0.35 kg
V2		A4	<b>V2 Calibration Standard</b> Small calibration block for site checking of shear wave probes, time bases and gain settings. 1.5mm target hole.	<b>BS2704</b> Tolerance +/- 0.1mm	STEEL 12.5mm X 43mm X 75mm 0.22 kg (Optional 20mm thickness) 0.35 kg
<b>BCB</b> <b>BCB-N</b>		A5	<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 diameter holes  <b>BCB-N</b> contains four additional 1.5mm diameter holes	<b>BS2704</b> Tolerance +/- 0.1mm	STEEL 50mm X 75mm X 305mm 9 kg
A6		A6	Evaluating dominant frequency, pulse length, dead zone and resolution power for shear and compression probes	<b>BS2704</b> Tolerance +/- 0.1mm	STEEL 25mm X 50mm X 150mm 1.5 kg

## SPECIAL CALIBRATION BLOCKS



Stepped Bar Samples

ASTM Area Amplitude




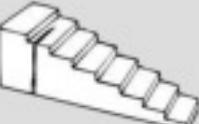




Rail Testing Blocks

### FULL MACHINING OF BLOCKS TO CUSTOMER REQUIREMENTS—FROM 2gm TO

- Calibration Block material is ultrasonically tested before use.
- Rough machined samples are heat treated and checked for acoustic characteristics.
- Special purpose blocks manufactured to order.



# Calibration Blocks

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

## EDDY CURRENT CALIBRATION BLOCKS



**Standard Test Block**  
0.2mm,0.5mm, 1.0mm Deep

**Profiled notches in curved samples**

**Notches in Tubes and Bars**  
Longitudinal and transverse

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

- All blocks supplied with fully traceable certification and optional cases.
- Most standard blocks are ex stock.
- Quality assurance



## CALIBRATION BLOCKS

<b>Ultrasonic – Carbon Steel Unless Stated Otherwise</b>		<b>Price (£)</b>
V1	A2 With *Carrying Case and Calibration Certificate (Formerly BS2704)	238.00
No.1	As above to European Standard EN12223	238.00
V1 or No.1 (50)	A2 With Calibration Certificate	590.00
V1 or No1 (SS)	A2 – Stainless Steel – with Carrying Case and Calibration Certificate	737.00
V1 or No.1 (Al)	A2 Aluminium – with Carrying Case and Calibration Certificate	590.00
V2 (12,5mm)	A4 1.5mm or 5mm Target with *Case and Calibration Certificate	86.00
No2 12.5mm	As above to European Standard EN27963	86.00
V2 (20)	A4 1.5mm or 5mm Target with *Case and Calibration Certificate	97.00
V2 or No2 (SS)	A4 – Stainless Steel – 1.5mm or 5mm Target, Carrying Case and Calibration Certificate	12.5mm 295.00
		20mm 344.00
V2 or No.2 (Al)	A4 – Aluminium – 1.5mm or 5mm Target, *Carrying Case and Calibration Certificate	20mm 240.00
		12.5mm 226.00
BCB (IOW)	A5 with* Carrying Case and Calibration Certificate	267.00
A6	A6 with Calibration Certificate	182.00
RTB	A7 with Calibration Certificate	267.00
LSW (1-20)	Ladder Step wedge with Leather Case and Calibration Certificate	102.00
LSW (1-20) (SS)	Ladder Step wedge Stainless Steel – With Leather Carrying Case and Calibration Certificate (Please specify material type)	253.00
LSW (1-20) (Al)	Ladder Step wedge Aluminium - With Leather Carrying Case and Calibration Certificate (Please specify material type)	186.00
LSW/M	1-8 x 8mm Step Perspex with Steel Inserts with Calibration Certificate	144.00
LSW	1.5-20 x 6 Step Perspex C/W Steel Inserts and Calibration Certificate	168.00
LSW	5-50mm x 6 Step Perspex with Carbon Steel Inserts and Calibration Certificate	267.00
Round LSW	1-8mm with Leather Case and Calibration Certificate	99.00
CSW	Curved Step wedge with Calibration Certificate (2mm to 10mm)	123.00
MU	Metric Universal with Calibration Certificate Type CB 87M	216.00
MU – Case	Leather Wallet for Metric Universal	14.00
TBR 2/125	5 Holes with Calibration Certificate	246.00
A5 Blank B	ESI with * Carrying Case and Calibration Certificate	236.00
A5 Blank C	ESI with * Carrying Case and Calibration Certificate	236.00
BCB N-A5	ESI Extra 4 x 1.5mm Target Holes with *Carrying Case and Calibration Certificate	295.00
50 RAD	ESI with Calibration Certificate	223.00
ASME	ASME 0-1" (0-25mm) with Calibration Certificate - Nominal ¾" (19mm)	335.00
ASME	ASME 1-2" (25-50mm) with Calibration Certificate -Nominal 1 ½" (38mm)	439.00
ASME	ASME 2-4" (50-100mm) with Calibration Certificate - Nominal 3" (75mm)	839.00
DAC	BS3923 Price Available on Request – Weld Thickness Required	P.O.A
ASTM E-127	Price Available on Request	P.O.A
Rail Blocks	Please see page 57	P.O.A
Case V1 / N1	Fitted hard plastic carry / site storage case	26.00
Case V2 / N2	Fitted hard plastic carry / site storage case	16.00
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 depending on block, these may be either a hard plastic, rugged fabric or leather .

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

## CALIBRATION BLOCKS

<b>Ultrasonic – USA Specifications - Carbon Steel/Stainless Steel/Aluminium (all Prices On Application)</b>	
11W Block type 1	Similar to Number 1 Block, Contains 25mm Arc
11W Block type 2	Similar to Number 1 Block with 50 & 100mm Radius
ASTM Distance / Amplitude Set	19 Blocks
ASTM Distance / Area Set	10 Blocks
ASTM Area / Amplitude Set	8 Blocks
ASTM Sensitivity / Resolution Set	10 Blocks
ASTM E317	2 Hole & 6 Hole—Resolution & Linearity
NAVSHIPS Block	Distance - Amplitude / Sensitivity Levels
AWS DSC	Shear wave calibration - Distance & Sensitivity
AWS DS	Longitudinal wav calibration - Distance & Sensitivity
AWS DC	Shear wave calibration - Distance
AWS RC	Shear wave calibration - Resolution
AWS SC	Shear wave calibration - Sensitivity
AWS LSW	4 Steps - Thickness & Linearity
AWS LSW	5 Steps - Thickness & Linearity
MAB ROMPAS Block	Miniature Angle Beam Block
ASME V Block	Range 19mm to 225mm - 6 Blocks
API RP 2X	Level A & Level C Calibration Blocks



Phased array blocks, standards and special materials and prices on request.

<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	119.00
3 Notch Stainless Steel	0.2mm, 0.5mm, 1.0mm Deep Notches	304 or 316	234.00
3 Notch Aluminium	0.2mm, 0.5mm, 1.0mm Deep Notches	7075	152.00
3 Notch Titanium	0.2mm, 0.5mm, 1.0mm Deep Notches	specify grade	339.00
3 Notch Magnesium	0.2mm, 0.5mm, 1.0mm Deep Notches	AZ310B or pure	180.00
<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	204.00
3 Notch Stainless Steel	0.5 – 1-2mm Notches 4 x 0.5 Lift off Spacers	304 or 316	258.00
3 Notch Aluminium	0.5 – 1-2mm Notches 4 x 0.5 Lift off Spacers	7075	227.00
3 Notch Titanium	0.5 – 1-2mm Notches 4 x 0.5 Lift off Spacers		396.00
Conductivity Standards—IACS			131.00
Re-calibration			45.00

### **Conductivity Reference Standards**

Conduct reference standards with nominal values from 1% IACS to 100% manufactured in a range of materials :- Titanium - Phosphor / Bronze - Lithium - Aluminium - Copper. Certification to National Physics Laboratory and Boeing Standards

### **Quality Assurance**

Each block is engraved with a unique serial number and fully certified to the requirements of European standards 12223, 7963 (where applicable) British Standards 2704 (1978) together with independent material chemical analysis and certification of heat treatment (grain refining) all of which is fully traceable. Certification as appropriate outside of Europe.

A full independent UKAS certification for physical measurements is available, Prices on application

## FLAWED SPECIMEN

### NDE Educational Kits

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	928
S/S	KTSS86	1205	N/A	N/A	N/A	N/A	KTSS89	1205	KTSS90	1205	N/A	N/A
Al	KTAL86	1205	N/A	N/A	N/A	N/A	KTAL89	1205	KTAL90	1205	N/A	N/A

### Flawed Specimen Sets

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	1027.00	FSSS05	1,514.00
Al	FSAL01	1,623.00	N/A	N/A	N/A	N/A	FSAL04	1360.00	FSAL05	1623.00

### Magnetic and Penetrant

Item	Part No	£	Item	Part No	£	Item	Part No	£
SV Plate	M-C-01	194.00	SV Nozzle	M-C-09	542.00	SV Pipe	P-C-05	295.00
SV Pipe	M-C-02	202.00	SV Node	M-C-10	599.00	SV Tee	P-C-06	202.00
SV Pipe	M-C-03	224.00	SV Node	M-C-11	599.00	SV Y	P-C-07	202.00
SV Pipe	M-C-04	250.00	Set 1M	M-C-12S	1639.00	SV Nozzle	P-C-08	493.00
SV Pipe	M-C-05	295.00	SV Plate	P-C-01	194.00	SV Nozzle	P-C-09	542.00
SV Tee	M-C-06	202.00	SV Pipe	P-C-02	202.00	SV Node	P-C-10	599.00
SV Y	M-C-07	202.00	SV Pipe	P-C-03	224.00	SV Node	P-C-11	599.00
SV Nozzle	M-C-08	493.00	SV Pipe	P-C-04	250.00	Set 1P	P-C-12S	1,639.00

### Ultrasonic

Item	Part No	£	Item	Part No	£	Item	Part No	£
SV Plate	U-C-14	234.00	SV Pipe	U-C-24	550.00	SV Nozzle	U-C-34	1,200.00
SV Plate	U-C-15	275.00	SV Pipe	U-C-25	691.00	DV Nozzle	U-C-35	984.00
SV Plate	U-C-16	334.00	SV Pipe	U-C-26	741.00	DV Nozzle	U-C-36	1,200.00
DV Plate	U-C-17	305.00	SV Tee	U-C-27	334.00	SV Node	U-C-37	1,504.00
DV Plate	U-C-18	334.00	SV Tee	U-C-28	387.00	SV Node	U-C-38	1,566.00
DV Plate	U-C-19	365.00	DV Tee	U-C-29	345.00	Set 2	U-C-39	3,833.00
SV Pipe	U-C-20	305.00	DV Tee	U-C-30	396.00	Set 3	U-C-40	3,110.00
SV Pipe	U-C-21	396.00	SV Y	U-C-31	382.00	Set 4	U-C-41	4,386.00
SV Pipe	U-C-22	467.00	SV Y	U-C-32	436.00	Set 5	U-C-42	8,791.00
SV Pipe	U-C-23	427.00	SV Nozzle	U-C-33	959.00	Set 6	U-C-43	6,139.00
						Set 7	U-C-44	3,799.00

### Radiographic

Item	Part No	£	Item	Part No	£	Item	Part No	£
SV Plate	R-C-50	234.00	DV Plate	R-C-58	279.00	SV Pipe	R-C-66	404.00
SV Plate	R-C-51	242.00	DV Plate	R-C-59	304.00	SV Pipe	R-C-67	440.00
SV Plate	R-C-52	254.00	DV Plate	R-C-60	333.00	SV Pipe	R-C-68	501.00
SV Plate	R-C-53	286.00	DV Plate	R-C-61	364.00	SV Pipe	R-C-69	689.00
SV Plate	R-C-54	332.00	SV Pipe	R-C-62	272.00	SV Pipe	R-C-70	741.00
SV Plate	R-C-55	393.00	SV Pipe	R-C-63	304.00	Set 8	R-C-71	3,956.00
DV Plate	R-C-56	234.00	SV Pipe	R-C-64	323.00			
DV Plate	R-C-57	260.00	SV Pipe	R-C-65	364.00			

### Visual

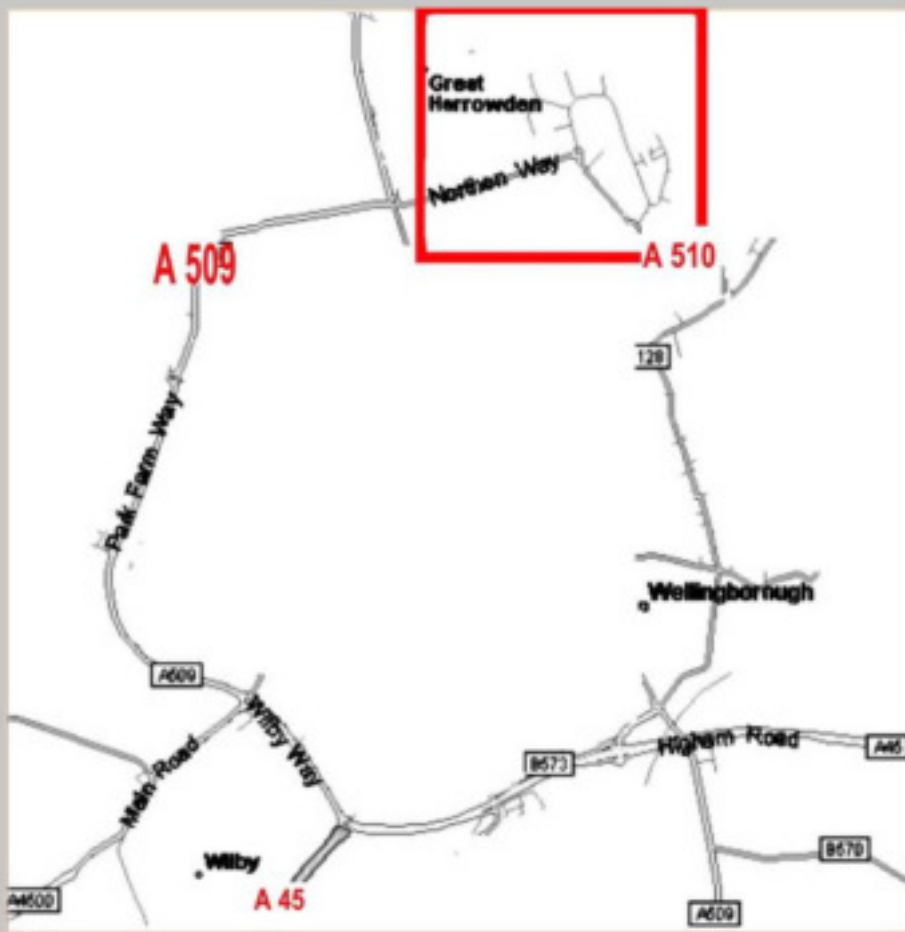
Item	Part No	£	Item	Part No	£	Item	Part No	£
SV Plate	V-C-73	174.00	SV Pipe	V-C-77	276.00	SV Nozzle	V-C-81	525.00
SV Pipe	V-C-74	179.00	SV Tee	V-C-78	179.00	SV Node	V-C-82	581.00
SV Pipe	V-C-75	224.00	SV Y	V-C-79	179.00	SV Node	V-C-83	581.00
SV Pipe	V-C-76	232.00	SV Nozzle	V-C-80	525.00	Set 9	V-C-84	1,503.00





# NDT

**EQUIPMENT SUPPLIES LTD**



**From A510 or the  
A509 in the direction  
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follow signs to  
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