

DAKOTA ULTRASONICS

Flaw Detectors, Accessories & Probes - Price List

Date: 02/01/19



Models:	Connector Type	Part #
DFX-7	LEMO 00	Z-220-0003
DFX-7+	LEMO 00	Z-221-0003
DFX-8	LEMO 00	Z-250-0001
DFX-8+	LEMO 00	Z-251-0001

Kit Includes (DFX-7 Series):	
Operating Manuals	4 oz Couplant
DakView PC software & USB Cable	Calibration certificate
Carrying case	

Kit Includes (DFX-8 Series):	
Lithium ion battery	4 oz Couplant
Line power adaptor	Operating manuals
Universal power cable	DakView PC software & USB cable
Carrying Case	Calibration certificate

Additional Options (DFX-6 Series):		Part #
Firmware software upgrade included w/service		Call for RMA
Firmware software upgrade only		Call for RMA
WinDFX2 Reporting Software & Cable – USB Interface		F-211-0008

Additional Options (DFX-7 Series):		Part #
Note: All firmware upgrades available for download on our website at no charge.		
DakView PC Software CD (included w/ DFX-7 kits)		A-206-7001

Additional Options (DFX-8 Series):		Part #
Note: All firmware & PC software upgrades available for download on our website at no charge.		
DakView PC Software CD (included w/ DFX-8 kits)		A-206-7001

Accessory Items (DFX-6 Series):		Part #
Lithium ion battery pack		B-020-3100
External smart battery charger		B-030-0000
Power adaptor (18 volts 3.9amps w/6' cable)		N-006-0202
Universal power cable		N-506-0060
Instrument case (w/straps)		F-211-0007
Operators manual DFX-615		P-211-0007

DAKOTA ULTRASONICS

1500 Green Hills Road, #107 Scotts Valley, CA 95066

Phone: (831) 431-9722 Fax: (831) 431-9723 www.dakotaultrasonics.com

Prices subject to change without notice: please call for an updated price list.

Operators manual DFX-625	P-211-0008	
Operators manual DFX-635	P-211-0009	
Operators manual DFX-638	P-211-0010	
Video output cable	152119	
RS232 PC cable (9 pin)	N-406-0750	

Accessory Items (DFX-7 Series):	Part #	
Instrument case (w/straps)	F-149-0001	
Rubber instrument case (w/straps and stand)	F-149-6002	
6 foot RS232 (DB-9 to Lemo 2 pin)	N-306-0010	
USB to Serial Adapter	N-402-0510	
Operators manual DFX-7 Series (Thickness)	P-220-0004	
Operators manual DFX-7 Series (Flaw)	P-220-0002	
Plastic Carrying Brief Case	A-100-6003	
Lemo 00 to BNC Transducer Cable Adapter	J-098-0001	
3' Type C to USB Type A male data cable	N-003-0330	

Accessory Items (DFX-8 Series):	Part #	
Lithium ion battery pack	B-040-3200	
External smart battery charger	B-030-0000	
Power adaptor (12 volts @ 2 Amps w/6' cable)	N-250-0001	
Universal power cable	N-506-0060	
Instrument case (w/straps)	F-250-0006	
Operators manual DFX-8 (Thickness)	P-250-0003	
Operators manual DFX-8 (Flaw)	P-250-0004	
USB Type A to Type B male data cable	N-606-0530	
RS232 PC cable (9 pin)	N-306-0410	
USB to Serial Adapter	N-402-0510	
Plastic Carrying Brief Case	A-250-6002	
Lemo 00 to BNC Transducer Cable Adapter	J-098-0001	
10' Lemo 1 5pin to BNC analog output cable	N-110-0470	
10' Lemo 1 5pin to DB9 analog output cable	N-110-0410	
Universal cable (5 pin Lemo 1 to BNC, 6' DB9, & 2 6' Alarm out)	N-306-0416	



Part #	Description	Comments	
V-000-0001	4 oz bottle		
V-000-0003	12 oz bottle		
V-000-0004	1 gallon		
V-000-0002	2 oz tube (High Temp – 900F)		

Educational Training Software (self-paced courses – CD's):	Part #	
Ultrasonic Testing (UT)	UTEDU	
Advanced Ultrasonic Techniques – Phased Array & TOFD (PA)	PAEDU	

DAKOTA ULTRASONICS
1500 Green Hills Road, #107 Scotts Valley, CA 95066
Phone: (831) 431-9722 Fax: (831) 431-9723 www.dakotaultrasonics.com
Prices subject to change without notice: please call for an updated price list.

Penetrant Testing (PT)	PTEDU	
Magnetic Testing (MT)	MTEDU	
Radiographic Testing (RT)	RTEDU	
Corrosion Basic Principles (CO)	COEDU	

TRANSDUCER CABLES & CABLE ADAPTORS



BNC	Lemo 1	Lemo 00 M	Lemo 00 F	Microdot
-----	--------	-----------	-----------	----------

Custom Lengths: Available on request.

Single probe cable (DFX-6 Series) – 6' length

Type	Part #	Price	Type	Part #
BNC - BNC	N-106-0170	60.00	LEMO 1 - LEMO 00	N-106-0800
BNC - LEMO 00	N-106-0100	65.00	LEMO 1 - LEMO 1	N-106-0830
BNC - M'DOT	N-106-0120	65.00	LEMO 1 - M'DOT	N-106-0820
BNC - LEMO 1	N-106-0130	85.00		

Dual probe cable (DFX-6 Series) – 6' length

Type	Part #	Price	Type	Part #
BNC - M'DOT	N-206-0120	100.00	LEMO 1 - LEMO 00	N-206-0800
BNC - LEMO 00	N-206-0100	105.00	LEMO 1 - M'DOT	N-206-0820

Single probe cable (DFX-7 Series) – 4' length

Type	Part #	Price	Type	Part #
LEMO 00 - M'DOT	N-104-0020	65.00	LEMO00 - LEMO00	N-104-0000
LEMO 00 - BNC	N-104-0070	60.00		

Dual probe cable (DFX-7 Series) – 4' length

Type	Part #	Price	Type	Part #
LEMO 00 - M'DOT	N-204-0020	100.00	LEMO00 - LEMO00	N-204-0000
LEMO 00 - BNC	N-204-0070	95.00		

Single probe cable (DFX-8 Series) – 6' length


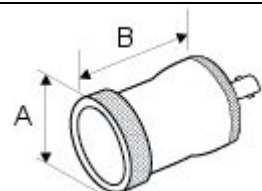
Type	Part #	Price	Type	Part #
LEMO 00 - M'DOT	N-106-0020	70.00	LEMO00 - LEMO00	N-106-0000
LEMO 00 - BNC	N-106-0100	65.00		

Dual probe cable (DFX-8 Series) – 6' length

Type	Part #	Price	Type	Part #
LEMO 00 - M'DOT	N-206-0020	110.00	LEMO00 - LEMO00	N-206-0000
LEMO 00 - BNC	N-206-0100	105.00		

TRANSDUCERS

SINGLE ELEMENT CONTACT TRANSDUCERS (SLM) – HIGH WEAR																								
																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Element Size (Dia.)</th> <th style="padding: 5px;">A</th> <th style="padding: 5px;">B</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">.500"</td> <td style="padding: 5px;">1.055"</td> <td style="padding: 5px;">1.230"</td> </tr> <tr> <td style="padding: 5px;">.750"</td> <td style="padding: 5px;">1.268"</td> <td style="padding: 5px;">1.430"</td> </tr> <tr> <td style="padding: 5px;">1.00"</td> <td style="padding: 5px;">1.555"</td> <td style="padding: 5px;">1.430"</td> </tr> </tbody> </table>	Element Size (Dia.)	A	B	.500"	1.055"	1.230"	.750"	1.268"	1.430"	1.00"	1.555"	1.430"												
Element Size (Dia.)	A	B																						
.500"	1.055"	1.230"																						
.750"	1.268"	1.430"																						
1.00"	1.555"	1.430"																						
Description:	High wear/resolution contact transducers with extended stainless steel ring.																							
Used:	Rough surfaces, Castings, Billets, and Extruded Parts.																							
Damping:	Medium																							
Connectors:	BNC (B), Lemo 1 (L) *Specify connector type after part #																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Element Size</th> <th style="padding: 5px;">**1.0 MHz</th> <th style="padding: 5px;">2.25 MHz</th> <th style="padding: 5px;">***3.5 MHz</th> <th style="padding: 5px;">5.0 MHz</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">.500" DIA. (a)</td> <td style="padding: 5px;">PSLM501</td> <td style="padding: 5px;">SLM5025</td> <td style="padding: 5px;">PSLM5035</td> <td style="padding: 5px;">SLM5050</td> </tr> <tr> <td style="padding: 5px;">.750" DIA.</td> <td style="padding: 5px;">PSLM751</td> <td style="padding: 5px;">SLM7525</td> <td style="padding: 5px;">PSLM7535</td> <td style="padding: 5px;">SLM7550</td> </tr> <tr> <td style="padding: 5px;">1.00" DIA.</td> <td style="padding: 5px;">PSLM101</td> <td style="padding: 5px;">SLM1025</td> <td style="padding: 5px;">PSLM1035</td> <td style="padding: 5px;">SLM1050</td> </tr> </tbody> </table>					Element Size	**1.0 MHz	2.25 MHz	***3.5 MHz	5.0 MHz	.500" DIA. (a)	PSLM501	SLM5025	PSLM5035	SLM5050	.750" DIA.	PSLM751	SLM7525	PSLM7535	SLM7550	1.00" DIA.	PSLM101	SLM1025	PSLM1035	SLM1050
Element Size	**1.0 MHz	2.25 MHz	***3.5 MHz	5.0 MHz																				
.500" DIA. (a)	PSLM501	SLM5025	PSLM5035	SLM5050																				
.750" DIA.	PSLM751	SLM7525	PSLM7535	SLM7550																				
1.00" DIA.	PSLM101	SLM1025	PSLM1035	SLM1050																				
Ordering Example: SLM7525B = SLM .750" x 2.25MHz BNC																								

SINGLE ELEMENT CONTACT TRANSDUCERS (SLF) – MEMBRANE													
													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Element Size (Dia.)</th> <th style="padding: 5px;">A</th> <th style="padding: 5px;">B</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">.500"</td> <td style="padding: 5px;">1.250"</td> <td style="padding: 5px;">1.180"</td> </tr> <tr> <td style="padding: 5px;">1.00"</td> <td style="padding: 5px;">1.500"</td> <td style="padding: 5px;">1.580"</td> </tr> </tbody> </table>	Element Size (Dia.)	A	B	.500"	1.250"	1.180"	1.00"	1.500"	1.580"				
Element Size (Dia.)	A	B											
.500"	1.250"	1.180"											
1.00"	1.500"	1.580"											

Description:	Replaceable membrane protected contact transducers.			
Used:	Rough surfaces, Castings (provides better contact).			
Damping:	High Gain			
Connectors:	BNC			
Element Size	**1.0 MHz	***2.25 MHz	**3.5 MHz	***5.0 MHz
.500" DIA.	PSLF501	SLF5025	PSLF5035	SLF5050
1.00" DIA.	PSLF101	SLF1025	PSLF1035	SLF1050
Ordering Example: SLF101 = SLF 1.00" x 1.0 MHz				

SINGLE ELEMENT CONTACT TRANSDUCERS (FC) – FINGER TIP



Description:	General contact style transducers with stainless steel construction. Good for near surface resolution with a 70% bandwidth.				
Used:	Common metals, plastics				
Damping:	High gain (G), Resolution (R) *Specify damping after (FC), No Damping on 1MHz or 3.5MHz - Composite.				
Connectors:	Microdot Side Entry *Optional top connect (T)				
Element Size	1.0 MHz	2.25 MHz	3.5 MHz	5.0 MHz	**10.0 MHz
.250" DIA.	-	FC2525	PFC2535	FC2550	FC2510
.375" DIA.	-	FC3725	PFC3735	FC3750	FC3710
.500" DIA.	PFC501	FC5025	PFC5035	FC5050	FC5010
Ordering Example: FCR5025T = FC Resolution .500" x 2.25MHz TOP MOUNT					

SINGLE ELEMENT CONTACT TRANSDUCERS (FCSL) – FINGER TIP (SLIM LINE)



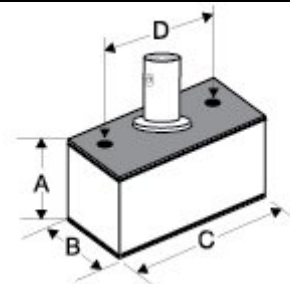
Description:	Line high frequency general contact transducers with a stainless steel housing.
Used:	Common metals, plastics

Damping:	High Damped			
Connectors:	Microdot Side Entry *Optional top connect (T), Specify after part #			
Element Size	5.0 MHz	10.0 MHz	15.0 MHz	20.0 MHz
.125" DIA.	FCSL1250	FCSL1210	FCSL1215	FCSL1220
Ordering Example: FCSL1250T = FCSL .125" x 5MHz w/top entry microdot				

STANDARD SHEAR WAVE TRANSDUCERS (SS)



Element Size (Dia.)	A	B	C	D
.500" x .500"	.650"	.750"	1.125"	.810"
.500" x 1.00"	.650"	.750"	1.625"	1.312"
.625" x .625"	.650"	.850"	1.350"	1.000"
.750" x .625"	.650"	.850"	1.350"	1.000"
.750" x .750"	.650"	.910"	1.350"	1.000"



Description:	Shear wave transducers designed to use a variety of angle beam wedges for general weld inspection & A.W.S, and constructed in a low noise plastic or stainless steel housing.		
Used:	General weld inspection.		
Damping:	High gain (G), Resolution (R) *Specify damping after (SS), No damping on 1MHz - Composite.		
Connectors:	BNC (B), Microdot (M) *Specify connector after part #		
Element Size	**1.0 MHz	2.25 MHz	5.0 MHz
.500" x .500"	PSS50501	SS50502	SS50505
.500" x 1.00"	PSS50101	SS50102	SS50105
.625" x .625"	PSS62621	SS62622	SS62625
.625" x .750"	PSS62751	SS62752	SS62755
.750" x .750"	PSS75751	SS75752	SS75755
Ordering Example: SSG50502 = SS High Gain 1/2" x 1/2" 2.25MHz			

DAKOTA ULTRASONICS
1500 Green Hills Road, #107 Scotts Valley, CA 95066
Phone: (831) 431-9722 Fax: (831) 431-9723 www.dakotaultrasonics.com
Prices subject to change without notice: please call for an updated price list.

STANDARD WEDGES (SW)



Angle Beam Wedges – Custom angles available on request.

Element Size	45°	60°	70°
.500" x .500"	SW5045	SW5060	SW5070
.500" x 1.00"	SW5145	SW5160	SW5170
.625" x .625"	SW6245	SW6260	SW6270

Ordering Example: SW5045 = SW 1/2" x 1/2" 45 Degree steel

SERRATED (AWS TYPE) SQUARE WEDGES (SQW)



Angle Beam Wedges – Custom angles available on request.

Element Size	45°	60°	70°
.625" x .625"	SQW6245	SQW6260	SQW6270
.625" x .750"	SQW6245	SQW6260	SQW6270

Ordering Example: SQW6245 = SQW 5/8" x 5/8" 45 Degree steel

SNAIL (AWS TYPE) WEDGES (SNW)



DAKOTA ULTRASONICS

1500 Green Hills Road, #107 Scotts Valley, CA 95066

Phone: (831) 431-9722 Fax: (831) 431-9723 www.dakotaultrasonics.com

Prices subject to change without notice: please call for an updated price list.

Angle Beam Wedges – Custom angles available on request.			
Element Size	45°	60°	70°
.625" x .625"	SNW6245	SNW6260	SNW6270
Ordering Example: SNW6245 = SNW 5/8" x 5/8" 45 Degree steel			

QUICK CHANGE SHEAR WAVE TRANSDUCERS (QC)



Description:	Threaded shear wave transducers for quickly interchanging between wedges. Ideal for limited access and curved surfaces.
Used:	General weld inspection
Damping:	High gain (G), Resolution (R) *Specify damping after (QC), No damping on 3.5MHz
Connectors:	Microdot

Standard (Q)					
Element Size	1.0 MHz	2.25 MHz	3.5 MHz	5.0 MHz	**10.0 MHz
.250" DIA.	-	QC2525	-	QC2550	QC2510
.375" DIA.	-	QC3725	-	QC3750	QC3710
.500" DIA.	-	QC5025	-	QC5050	QC5010

Ordering Example: QCR2510 = QC Resolution .250" x 10MHz

Composite (P)					
Element Size	1.0 MHz	2.25 MHz	3.5 MHz	5.0 MHz	10.0 MHz
.250" DIA.	PQC251	PQC2525	-	PQC2550	PQC2510
.375" DIA.	PQC371	PQC3725	-	PQC3750	
.500" DIA.	PQC501	PQC5025	PQC5035	PQC5050	

Ordering Example: PQC2510 = QC Composite .250" x 10MHz

STANDARD QUICK CHANGE WEDGES (QW)



Quick Change Wedges – Custom angles available on request.

Element Size	45°	60°	70°
.250" DIA.	QW2545	QW2560	QW2570
.375" DIA.	QW3745	QW3760	QW3770
.500" DIA.	QW5045	QW5060	QW5070

Ordering Example: QW2545 = QW .250" 45 Degree

QUICK CHANGE AWS PROVE UP SHEAR WAVE TRANSDUCERS (QCA)



Description:	Removable shear wave transducers for quickly interchanging between wedges. Ideal for limited access, curved surfaces, and AWS prove up.
Used:	General weld inspection
Damping:	High Damped
Connectors:	Microdot

Element Size	**1.0 MHz	***2.25 MHz	5.0 MHz
.625" x .625"	PQCA62621	QCA62622	QCA62625

Ordering Example: QCA62622 = QCA .625" x .625" 2.25MHz Microdot

QUICK CHANGE AWS PROVE UP WEDGES (QAW)



Angle Beam Wedges – Custom angles available on request.

Element Size	45°	60°	70°
.625" x .625"	QAW6245	QAW6260	QAW6270

Note: An additional \$10 will be charged to radius edges.
 Ordering Example: QAW6245 = SNW 5/8" x 5/8" 45 Degree Steel

DUAL SHEAR WAVE TRANSDUCERS (CDA)



Description:	Designed for thin material and weld inspections that require near surface resolution. Will Detect of IGSCC (Inter Granular Stress Corrosion Cracking).
Used:	Weld inspection
Damping:	Medium Damped
Connectors:	Microdot End (E) or Top (T) connect *Specify after part #


Element Size	**1.0 MHz	2.25 MHz	5.0 MHz
.250" x .250"	PCDA251	CDA2525	CDA2550
.250" x .375"	PCDA25371	CDA253725	CDA253750
.375" x .375"	PCDA371	CDA3725	CDA3750
.500" x .500"	PCDA501	CDA5025	CDA5050

Ordering Example: CDA252560T = CDA 1/4" x 1/4" 2.25 MHz, 60 Degree Top Connector.

CDA ANGLE OPTIONS – NOT INTERCHANGEABLE


Element Size	45°	60°	70°
--------------	-----	-----	-----

ALL	ADD 45 TO PT#	ADD 60 TO PT#	ADD 70 TO PT#
-----	---------------	---------------	---------------


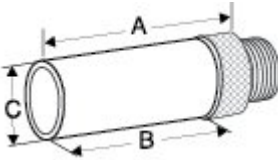
MINIATURE ANGLE BEAM POTTED (MAP)	
	
Description:	Mini angle beam transducers with a fixed angle. Stainless steel Housing, all angles are in steel, aluminum angle available on request.
Used:	Weld inspection (tight areas).
Damping:	Medium Damped
Connectors:	Microdot Side Entry

Element Size	2.25 MHz			5.0 MHz		
	45°	60°	70°	45°	60°	70°
.187" DIA.	MAP 182545	MAP 182560	MAP 182570	MAP 185045	MAP 185060	MAP 185070
.250" DIA.	MAP 252545	MAP 252560	MAP 252570	MAP 255045	MAP 255060	MAP 255070
** .375" DIA.	MAP 372545	MAP 372560	MAP 372570	MAP 375045	MAP 375060	MAP 375070

Element Size	**10.0 MHz		
	45°	60°	70°
.187" DIA.	MAP 181045	MAP 181060	MAP 181070
.250" DIA.	MAP 251045	MAP 251060	MAP 251070
.375" DIA.	MAP 371045	MAP 371060	MAP 371070

MINI MINIATURE ANGLE BEAM POTTED (MMAP) – DIM .375" L x .250" W x .37" H	
	
Description:	Mini miniature angle beam potted transducers with a fixed angle, are designed with stainless steel Housing for durability. Standard angles are in steel, all other non-standard angles with specific materials can be produced.
Used:	Weld inspection (tight areas).
Damping:	Medium Damped
Connectors:	Microdot Side Entry

Element Size	5.0 MHz			**10.0 MHz		
	45°	60°	70°	45°	60°	70°
.187" DIA.	MMAP 185045	MMAP 185060	MMAP 185070	MMAP 181045	MMAP 181060	MMAP 181070

IMMERSION TRANSDUCERS (IM)						
						
Element Size (Dia.)	A	B	C	D		
.250"	Custom Only					
.375"	1.75"	1.40"	.525"			
.500"	1.75"	1.40"	.625"			
.750"	1.75"	1.00"	1.00"			
						
Description:	Designed for immersion tank or bubbler system inspections. Stainless steel housing with UHF connector. Three different lens configurations are available – Flat, Spherical focus and Cylindrical focus.					
Used:	Immersion and bubbler inspections					
Damping:	High Gain (G), Resolution (R), and High Resolution (HR), No damping on 1MHz (P) Composite Option Only.					
Connectors:	UHF					
Note: Specify damping after (IM), Lens configuration, or focal length when placing order.						
Note: Higher frequencies available upon request.						
Element Size	1.0 MHz	2.25 MHz	5.0 MHz	**10.0 MHz	***15.0 MHz	
.250" DIA.	-	IM2525	IM2550	IM2510	IM2515	
.375" DIA.	-	IM3725	IM3750	IM3710	-	
.500" DIA.	PIM501	IM5025	IM5050	IM5010	-	
.750" DIA.	PIM751	IM7525	IM7550	IM7510	-	
1.00" DIA.	PIM101	IM1025	IM1050	-	-	
Ordering Example: IMR7550 = IM Resolution .750" 5MHz						

Thickness Gauge Transducers	
Dual Element:	All thickness gauge transducers are compatible with our flaw detectors. Refer to the thickness gauge transducer catalog for additional information on available diameters, frequencies, and connector types.
Delay Line:	Same as above
Pencil (Delay line):	Same as above

Dual Element Transducers




**Refer to the thickness gauge price sheet for additional information and pricing.

Delay Line & Pencil Transducers



**Refer to the thickness gauge price sheet for additional information and pricing.

ULTRASONIC TEST AND CALIBRATION BLOCKS

BLOCK TYPE	STEEL	7075 AL	304 SS	TITANIUM	CASE
					
IIW TYPE 1 – per institute of welding (IIW), ASTM-E-164 & MIL-STD-2154					
Application – Calibration of transverse and longitudinal wave distance setting determination of the sound beam point of incidence and exact angle of propagation. Geometry – 1" x 4" x 12". Contains 2" dia. hole and 4" radius. Also 1/8" x 1" radius alternate reflector 1/16" deep on echo side.					
					
IIW TYPE 2 – per IIW & USAFTO 33 B-1-1 (6-1-84)					
Application – Modified version of IIW Type 1, with a 2" radius ¼" deep cut out test side, and 3 extra side drilled resolution holes.					
					
IIW V-1 (METRIC) – (European version of IIW) per BS-2704					
					
MINI IIW					

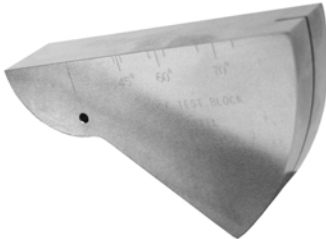
DAKOTA ULTRASONICS

1500 Green Hills Road, #107 Scotts Valley, CA 95066

Phone: (831) 431-9722 Fax: (831) 431-9723 www.dakotaultrasonics.com

Prices subject to change without notice: please call for an updated price list.

Application – Miniature version of IIW type blocks resembling the Type 2.
Geometry – 1" x 2" x 6". Contains 1" diameter hole, 2" radius ¼" deep cut out test side 3 side drilled resolution holes, and ¾" sq. x .100" deep cut out.

BLOCK TYPE	STEEL	7075 AL	304 SS	TITANIUM	CASE
					

DSC – per AWS & ATM-E-164

Application – Shear wave distance and sensitivity calibration.
Geometry – 1" thick, 4" long with 1" radius and 3" radius. Contains a 3/8" deep x 1/32" radius notch and a ½" dia. side drilled hole for 45, 60, & 70 degrees.



DS –DISTANCE & SENSITIVITY
per ANSI / AWS

Application – Distance and sensitivity.
Geometry – 2" x 2" x 6" with a 2" wide cutout.




ANGLE BEAM (ROMPAS) -
per ASTM-E-164 & USAFTO
33 B-1-1 (6-1-84) - Kidney


Application – Angle beam calibration.
Geometry – ½" or 1" thick, 1" radius opposite 2" radius with 5/64" dia. by ¾" deep flat bottom hole (1" thick only).


ANGLE BEAM (V-2) METRIC
20MM or 12.5MM (Euro)
Target hole 5MM or 1.5MM


ANGLE BEAM (V-2) METRIC
25MM (Euro)
Target hole 5MM or 1.5MM

Application – Angle beam calibration.
Geometry – European version of Angle Beam calibration block. Optional 20mm or 12.5mm versions with 5mm or 1.5mm target hole.

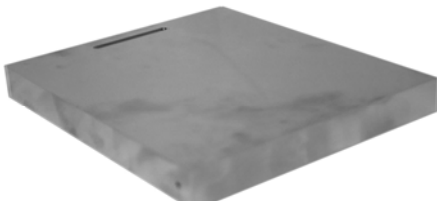
BLOCK TYPE	STEEL	7075 AL	304 SS	TITANIUM	CASE
					
ANSI/AWS RESOLUTION - RC					
Application – Checking resolution capabilities of angle beam transducers. Per AWS and BPR. Geometry – 1" x 3" x 6". Contains nine .062" dia. holes for 45, 60, and 70 degrees.					


					
SC – per AWS / ASTM-E-164					
Application – Sensitivity calibration (shear wave). Geometry - .905" x 1.25" x 3". Contains two .062" diameter side drilled holes.					

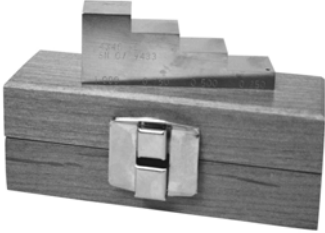
					
DC – per AWS & ASTM-E-164					
Application – Distance calibration (shear wave). Geometry – 1" radius overlying 2" radius on 180 degree half circle.					

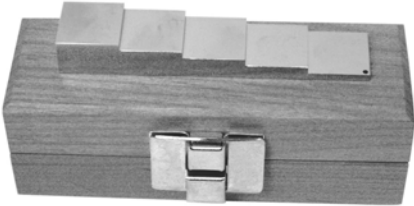
					
IOW BEAM PROFILE – English or metric. Per BS2704 (British Standards).					
Application – Beam profile measurement of angle beam transducer. Geometry – 2" x 3" x 12". Contains two 1/16" diameter x 7/8" deep calibration holes on far side. Also contains five 1/16" diameter resolution holes drilled on 10 degree slope, far side only.					

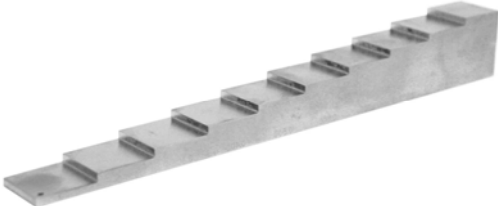
BLOCK TYPE	STEEL	7075 AL	304 SS	TITANIUM	CASE
					
NAVSHIPS – per NAVSEA T 9074-AS-GIB-010/271 formerly Navships 0900-006-3010Sec. 6 & MIL STD-271F					
Application – Distance correction and sensitivity levels. Geometry – 1 ¼" x 3" x 12". Contains seven 3/64" dia. side drilled holes at distances of 1/8" through 2 ¾".					

					
ASME ref. block .75" – per ASME SEC V Article 23 T-434.2.1					
Application – Angle beam calibration Geometry – 1" or less – ¾" x 6" x 7"					
ASME ref. block 1.50" – per ASME SEC V Article 23 T-434.2.1					
Application – Angle beam calibration Geometry – Over 1" through 2" – 1.5" x 6" x 10"					
ASME ref. block 3.0" – per ASME SEC V Article 23 T-434.2.1					
Application – Angle beam calibration Geometry – Over 2" through 4" – 3" x 6" x 12"					

					
ASME-N-625 ref. plate - Per ASME 1275N B.P., Section 3, Nuclear Vessels					
Application – For longitudinal shear and surface wave sensitivity calibration. Geometry – ½" x 6" x 12". Contains 5 flat bottom holes and 1 thru hole; 3 each .062" diameter holes at depths of .050", .250" and thru. One .062" diameter hole at 1.5" depth; .125" diameter hole at 1.625" depth; one .250" diameter hole at 1.750" depth. Also contains one .002" deep surface wave notch.					

BLOCK TYPE	STEEL 1018	STEEL 4340	7075 AL	304 SS	TITANIUM	CASE
						
4-STEP BLOCK per ASTM-E-797 Part# X-000-0002						
Application – Thickness and linearity calibration.						
Geometry – .750" square with thickness of .250", .500", .750", and 1.0".						

						
5-STEP BLOCK – per ASTM-E-797 Part# X-000-0001						
Application – Thickness and linearity calibration.						
Geometry – .750" square with thickness of .100", .200", .300", .400", and .500".						

						
10-STEP BLOCK – per ASTM-E-797 Part# Custom						
Application – Thickness and linearity calibration.						
Geometry – .750" square with thickness of .100" thru 1.0".						

*Additional calibration standards and test blocks available in other material types – Call