

DAKOTA ULTRASONICS

Flaw Detectors, Accessories & Probes - Price List

Date: 02/01/21



| Models: | Connector Type | Part # | Price US |
|---------|----------------|------------|----------|
| DFX-7 | LEMO 00 | Z-220-0003 | 3650.00 |
| DFX-7+ | LEMO 00 | Z-221-0003 | 3850.00 |
| DFX-8 | LEMO 00 | Z-250-0001 | 4850.00 |
| DFX-8+ | LEMO 00 | Z-251-0001 | 5850.00 |

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 # | Price US |
|--|--------------|----------|
| Firmware software upgrade included w/service | Call for RMA | 250.00 |
| Firmware software upgrade only | Call for RMA | 350.00 |
| WinDFX2 Reporting Software & Cable – USB Interface | F-211-0008 | 725.00 |

Additional Options (DFX-7 Series):

| | Part # | Price US |
|--|------------|----------|
| Note: All firmware upgrades available for download on our website at no charge. | | N/A |
| DakView PC Software CD (included w/ DFX-7 kits) | A-206-7001 | 30.00 |

Additional Options (DFX-8 Series):

| | Part # | Price US |
|--|------------|----------|
| Note: All firmware & PC software upgrades available for download on our website at no charge. | | N/A |
| DakView PC Software CD (included w/ DFX-8 kits) | A-206-7001 | 30.00 |

Accessory Items (DFX-6 Series):

| | Part # | Price US |
|---|------------|----------|
| Lithium ion battery pack | B-020-3100 | 225.00 |
| External smart battery charger | B-030-0000 | 245.00 |
| Power adaptor (18 volts 3.9amps w/6' cable) | N-006-0202 | 95.00 |
| Universal power cable | N-506-0060 | 15.00 |
| Instrument case (w/straps) | F-211-0007 | 150.00 |
| Operators manual DFX-615 | P-211-0007 | 35.00 |

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| | | |
|--------------------------|------------|-------|
| Operators manual DFX-625 | P-211-0008 | 35.00 |
| Operators manual DFX-635 | P-211-0009 | 35.00 |
| Operators manual DFX-638 | P-211-0010 | 35.00 |
| Video output cable | 152119 | 75.00 |
| RS232 PC cable (9 pin) | N-406-0750 | 70.00 |

| Accessory Items (DFX-7 Series): | Part # | Price US |
|---|---------------|-----------------|
| Instrument case (w/straps) | F-149-0001 | 75.00 |
| Rubber instrument case (w/straps and stand) | F-149-6002 | 100.00 |
| 6 foot RS232 (DB-9 to Lemo 2 pin) | N-306-0010 | 65.00 |
| USB to Serial Adapter | N-402-0510 | 25.00 |
| Operators manual DFX-7 Series (Thickness) | P-220-0004 | 20.00 |
| Operators manual DFX-7 Series (Flaw) | P-220-0002 | 20.00 |
| Plastic Carrying Brief Case | A-100-6003 | 35.00 |
| Lemo 00 to BNC Transducer Cable Adapter | J-098-0001 | 50.00 |
| 3' Type C to USB Type A male data cable | N-003-0330 | 25.00 |

| Accessory Items (DFX-8 Series): | Part # | Price US |
|---|---------------|-----------------|
| Lithium ion battery pack | B-040-3200 | 225.00 |
| External smart battery charger | B-030-0000 | 245.00 |
| Power adaptor (12 volts @ 2 Amps w/6' cable) | N-250-0001 | 95.00 |
| Universal power cable | N-506-0060 | 15.00 |
| Instrument case (w/straps) | F-250-0006 | 165.00 |
| Operators manual DFX-8 (Thickness) | P-250-0003 | 20.00 |
| Operators manual DFX-8 (Flaw) | P-250-0004 | 20.00 |
| USB Type A to Type B male data cable | N-606-0530 | 25.00 |
| RS232 PC cable (9 pin) | N-306-0410 | 75.00 |
| USB to Serial Adapter | N-402-0510 | 25.00 |
| Plastic Carrying Brief Case | A-250-6002 | 90.00 |
| Lemo 00 to BNC Transducer Cable Adapter | J-098-0001 | 50.00 |
| 10' Lemo 1 5pin to BNC analog output cable | N-110-0470 | 90.00 |
| 10' Lemo 1 5pin to DB9 analog output cable | N-110-0410 | 80.00 |
| Universal cable (5 pin Lemo 1 to BNC, 6' DB9, & 2 6' Alarm out) | N-306-0416 | 120.00 |

| Couplant | | | |
|---|------------------------------|-----------------|-----------------|
|  | | | |
| Part # | Description | Comments | Price US |
| V-000-0001 | 4 oz bottle | | 15.00 |
| V-000-0003 | 12 oz bottle | | 25.00 |
| V-000-0004 | 1 gallon | | 150.00 |
| V-000-0002 | 2 oz tube (High Temp – 900F) | | 40.00 |

| Educational Training Software (self-paced courses – CD's): | Part # | Price US |
|---|---------------|-----------------|
| Ultrasonic Testing (UT) | UTEDU | 1150.00 |
| Advanced Ultrasonic Techniques – Phased Array & TOFD (PA) | PAEDU | 575.00 |

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| | | |
|---------------------------------|-------|---------|
| Penetrant Testing (PT) | PTEDU | 350.00 |
| Magnetic Testing (MT) | MTEDU | 525.00 |
| Radiographic Testing (RT) | RTEDU | 1150.00 |
| Corrosion Basic Principles (CO) | COEDU | 575.00 |

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 # | Price |
|---------------|------------|-------|------------------|------------|--------|
| BNC - BNC | N-106-0170 | 60.00 | LEMO 1 - LEMO 00 | N-106-0800 | 90.00 |
| BNC - LEMO 00 | N-106-0100 | 65.00 | LEMO 1 - LEMO 1 | N-106-0830 | 115.00 |
| BNC - M'DOT | N-106-0120 | 65.00 | LEMO 1 - M'DOT | N-106-0820 | 90.00 |
| BNC - LEMO 1 | N-106-0130 | 85.00 | | | |

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

| Type | Part # | Price | Type | Part # | Price |
|---------------|------------|--------|------------------|------------|--------|
| BNC - M'DOT | N-206-0120 | 100.00 | LEMO 1 - LEMO 00 | N-206-0800 | 145.00 |
| BNC - LEMO 00 | N-206-0100 | 105.00 | LEMO 1 - M'DOT | N-206-0820 | 150.00 |

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

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

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

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


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


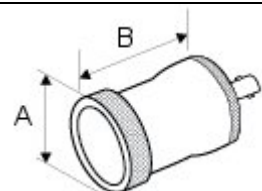
| Type | Part # | Price | Type | Part # | Price |
|-----------------|------------|-------|-----------------|------------|-------|
| LEMO 00 - M'DOT | N-106-0020 | 70.00 | LEMO00 - LEMO00 | N-106-0000 | 70.00 |
| LEMO 00 - BNC | N-106-0100 | 65.00 | | | |

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

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

TRANSDUCERS

| SINGLE ELEMENT CONTACT TRANSDUCERS (SLM) – HIGH WEAR | | | | |
|---|---|-----------------|--|----------------|
|  | | | | |
| 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 # | | | |
| Price: | \$325.00 US **\$415.00 or ***\$385.00 (P) Composite option – 1MHz & 3.5MHz only available with Composite. ***Call for price on 3.5MHz. | | | |
| 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 | | | | |
|--|----------|----------|--|--|
|  | | | | |
| Element Size (Dia.) | A | B |  | |
| .500" | 1.250" | 1.180" | | |
| 1.00" | 1.500" | 1.580" | | |

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| | | | | |
|--|---|--------------------|------------------|-------------------|
| Description: | Replaceable membrane protected contact transducers. | | | |
| Used: | Rough surfaces, Castings (provides better contact). | | | |
| Damping: | High Gain | | | |
| Connectors: | BNC | | | |
| Price: | \$360.00 US **\$425.00 (P) Composite option - 1MHz & 3.5MHz only available with Composite. ***\$400.00 (P) Composite option. | | | |
| 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) | | | | |
| Price: | \$320.00 US or **\$385.00. 1MHz & 3.5MHz only available with Composite. \$360.00 (P) Composite option. *Specify connector mount after part # | | | | |
| 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)



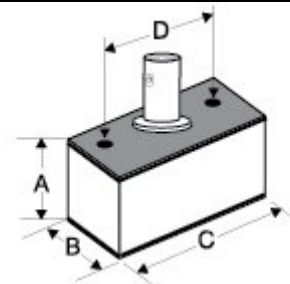
| | |
|---------------------|---|
| Description: | Line high frequency general contact transducers with a stainless steel housing. |
| Used: | Common metals, plastics |

| | | | | |
|--|---|-----------------|-----------------|-----------------|
| Damping: | High Damped | | | |
| Connectors: | Microdot Side Entry *Optional top connect (T), Specify after part # | | | |
| Price: | See below | | | |
| Element Size | 5.0 MHz | 10.0 MHz | 15.0 MHz | 20.0 MHz |
| Price | \$365 | \$390 | - | - |
| .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 # | | |
| Price: | \$320.00 US **355.00 (P) Composite (2.25MHz AWS) | | |
| 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 | **PSS62622 / SS62622 | **PSS62625 / SS62625 |
| .625" x .750" | PSS62751 | **PSS62752 / SS62752 | **PSS62755 / SS62755 |
| .750" x .750" | PSS75751 | SS75752 | SS75755 |
| Ordering Example: SSG50502 = SS High Gain 1/2" x 1/2" 2.25MHz | | | |

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STANDARD WEDGES (SW)



Price: \$42.50 US

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 |

Note: An additional \$10 will be charged to radius edges.

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

SERRATED (AWS TYPE) SQUARE WEDGES (SQW)



Price: \$52.50 US

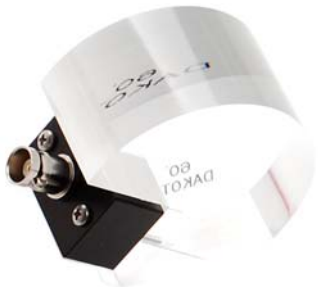
Angle Beam Wedges – Custom angles & radius available on request.

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

Note: An additional \$10 will be charged to radius edges.

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

SNAIL (AWS TYPE) WEDGES (SNW)



Price: \$52.50 US

| | | | |
|---|------------|------------|------------|
| Angle Beam Wedges – Custom angles & radius available on request. | | | |
| Element Size | 45° | 60° | 70° |
| .625" x .625" | SNW6245 | SNW6260 | SNW6270 |
| Note: An additional \$10 will be charged to radius edges. | | | |
| 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 |
| Price: | \$320.00 **\$340.00 US |

| | | | | | |
|---------------------|----------------|-----------------|----------------|----------------|-------------------|
| 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

| | |
|---------------|--------------------|
| Price: | \$340.00 US |
|---------------|--------------------|

| | | | | | |
|----------------------|----------------|-----------------|----------------|----------------|-----------------|
| 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)



Price: \$42.50 US

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

Price: \$385.00 **\$425 US ***AWS

| 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)



Price: \$52.50 US

Angle Beam Wedges – Custom angles & radius 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 #

Price: \$575.00 US **625.00 (P) Composite option – 1MHz only available with Composite.

| 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° |
|--------------|-----|-----|-----|
|--------------|-----|-----|-----|


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


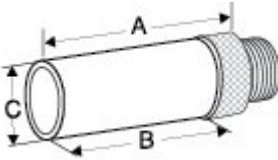
| | |
|---|--|
| MINIATURE ANGLE BEAM POTTED (MAP) | |
|  | |
| Description: | Mini angle beam transducers with a fixed angle. Stainless steel Housing, all angles are in steel, aluminum angle available on request. |
| Used: | Weld inspection (tight areas). |
| Damping: | Medium Damped |
| Connectors: | Microdot Side Entry |
| Price: | \$315.00 US **\$335.00 US |

| 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 |
| Price: | \$420.00 US **\$445.00 US |

| 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 | | | | | |
| Price: | \$315.00 US **\$340 US ***\$420.00 Add: \$50.00 for focusing (HR) | | | | | |
| 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 (\$370.00) | IM5025 | IM5050 | IM5010 | - | |
| .750" DIA. | PIM751 (\$395.00) | IM7525 | IM7550 | IM7510 | - | |
| 1.00" DIA. | PIM101 (\$420.00) | 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



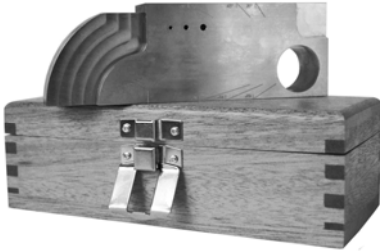
**Refer to the thickness gauge price sheet for additional information and pricing.

ULTRASONIC TEST AND CALIBRATION BLOCKS

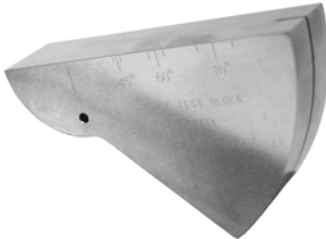
| BLOCK TYPE | STEEL | 7075 AL | 304 SS | TITANIUM | CASE |
|--|-------|---------|--------|----------|------|
|  | | | | | |
| IIW TYPE 1 – per institute of welding (IIW), ASTM-E-164 & MIL-STD-2154 | \$545 | \$545 | \$920 | \$1640 | \$95 |
| Application – Calibration of transverse and longitudinal wave 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. | | | | | |

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| IIW TYPE 2 – per IIW & USAFTO 33 B-1-1 (6-1-84) | \$630 | \$630 | \$1070 | \$1920 | \$95 |
| Application – Modified version of IIW Type 1, with a 2" radius ¼" deep cut out test side, and 3 extra side drilled resolution holes. | | | | | |

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| IIW V-1 (METRIC) – (European version of IIW) per BS-2704 | \$545 | \$600 | \$1015 | \$1640 | \$95 |

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|--|-------|-------|-------|--------|------|
|  | | | | | |
| MINI IIW | \$605 | \$605 | \$895 | \$1610 | \$95 |

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 \$380 \$380 \$680 \$1220 \$55

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 \$775 \$775 \$1240 \$2235 \$115

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 \$305 \$305 \$505 \$900 \$50


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 \$305 \$305 \$505 \$905 \$50


ANGLE BEAM (V-2) METRIC
25MM (Euro)
Target hole 5MM or 1.5MM \$335 \$335 \$555 \$995 \$50

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.

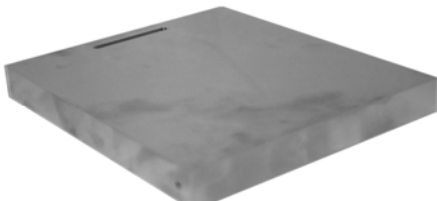
| BLOCK TYPE | STEEL | 7075 AL | 304 SS | TITANIUM | CASE |
|---|-------|---------|--------|----------|------|
|  | | | | | |
| ANSI/AWS RESOLUTION - RC | \$310 | \$310 | \$530 | \$950 | \$50 |
| Application – Checking resolution capabilities of angle beam transducers. Per AWS and BPR. Geometry – 1" x 3" x 6". Contains nine .062" dia. holes for 45, 60, and 70 degrees. | | | | | |


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|---|-------|-------|-------|-------|------|
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| SC – per AWS / ASTM-E-164 | \$195 | \$195 | \$360 | \$650 | \$45 |
| Application – Sensitivity calibration (shear wave). Geometry - .905" x 1.25" x 3". Contains two .062" diameter side drilled holes. | | | | | |

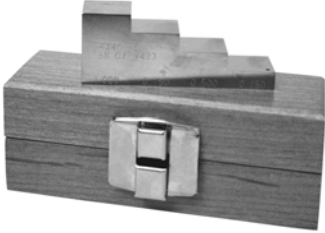
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|---|-------|-------|-------|-------|------|
|  | | | | | |
| DC – per AWS & ASTM-E-164 | \$285 | \$285 | \$495 | \$895 | \$50 |
| Application – Distance calibration (shear wave). Geometry – 1" radius overlying 2" radius on 180 degree half circle. | | | | | |

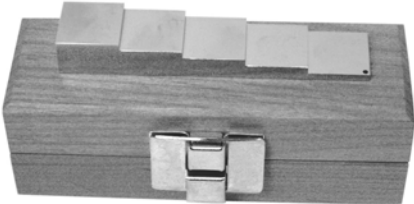
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|--|-------|-------|--------|--------|------|
|  | | | | | |
| IOW BEAM PROFILE – English or metric. Per BS2704 (British Standards). | \$695 | \$695 | \$1180 | \$2120 | \$90 |
| Application – Beam profile measurement of angle beam transducer. Geometry – 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. | | | | | |

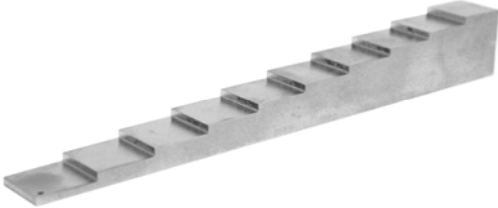
| BLOCK TYPE | STEEL | 7075 AL | 304 SS | TITANIUM | CASE | |
|--|-------|---------|--------|----------|--------|------|
|  | | | | | | |
| NAVSHIPS – per NAVSEA T 9074-AS-GIB-010/271 formerly Navships 0900-006-3010Sec. 6 & MIL STD-271F | | \$530 | \$530 | \$915 | \$1650 | \$90 |
| Application – Distance 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". | | | | | | |

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|---|--------|--------|--------|--------|-------|
|  | | | | | |
| ASME ref. block .75" – per ASME SEC V Article 23 T-434.2.1 | \$490 | \$490 | \$660 | \$1190 | \$110 |
| 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 | \$780 | \$780 | \$970 | \$1945 | \$145 |
| 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 | \$1175 | \$1175 | \$1470 | \$2935 | call |
| Application – Angle beam calibration Geometry – Over 2" through 4" – 3" x 6" x 12" | | | | | |

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|---|-------|-------|--------|--------|------|
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| ASME-N-625 ref. plate - Per ASME 1275N B.P., Section 3, Nuclear Vessels | \$640 | \$640 | \$1135 | \$2040 | \$90 |
| 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 | \$205 | \$205 | \$205 | \$460 | \$520 | \$50 |
| Application – Thickness and linearity calibration. | | | | | | |
| Geometry – .750" square with thickness of .250", .500", .750", and 1.0". | | | | | | |

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|---|-------|-------|-------|-------|-------|------|
|  | | | | | | |
| 5-STEP BLOCK – per ASTM-E-797 Part# X-000-0001 | \$205 | \$205 | \$205 | \$460 | \$520 | \$50 |
| Application – Thickness and linearity calibration. | | | | | | |
| Geometry – .750" square with thickness of .100", .200", .300", .400", and .500". | | | | | | |

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|--|-------|-------|-------|--------|-------|--|
|  | | | | | | |
| 10-STEP BLOCK – per ASTM-E-797 Part# Custom | \$455 | \$455 | \$910 | \$1090 | \$130 | |
| 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