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Introduction

Ultrasonic Reference Blocks from Us

- Standard blocks available in 1018 steel, 304 stainless steel, and 7075-T6 aluminum.
- All raw material is ultrasonic-inspected and certified prior to manufacture of blocks.
- All blocks are available in metric dimensions.
- Custom blocks manufactured to your design and material specifications.
- Blocks are precision manufactured to tolerances well within the allowable limits of their respective codes. All calibration blocks are serialized and certified to the National Institute of Standards and Technology.

Welded Flawed Specimens for NDE Training from Us

- Flawed Specimen tolerances +/- 2mm
- Complete document package included
- Three real flaws per specimen, randomly placed
- Specimens made from carbon steel material
- Custom specimens available upon request

Custom Logo

Custom engraving is available

CONTACT US WITH YOUR REQUIREMENTS!

IIW Type 1 Calibration Block

Specifications:
AWS D1.1/D1.1M
Calibration Function:
Straight Beam: distance, amplitude, resolution,
horizontal linearity.
Angle Beam: sweep length, index point, sound
path in wedge, sound path angle (35°-80°).
Price: \$0.00(Carbon Steel)



IIW Type 2 Calibration Block



Specifications:
AWS D1.1/D1.1M
Calibration Function:
Straight Beam: sensitivity, distance, resolution.
Angle Beam: beam index, sound path angle,
distance time base, distance sensitivity curve.
Price: \$0.0(Carbon Steel)

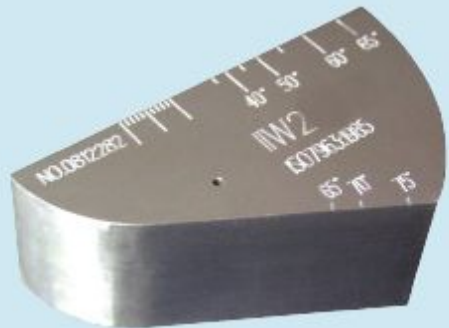
Calibration block No. 1

Specifications:
EN12223
Calibration Function:
Calibration of shear and compression wave
probes. Checking beam angle, emergent point
and resolution. Calibration of time base and
gain settings.
Price: \$0.00(Carbon Steel)

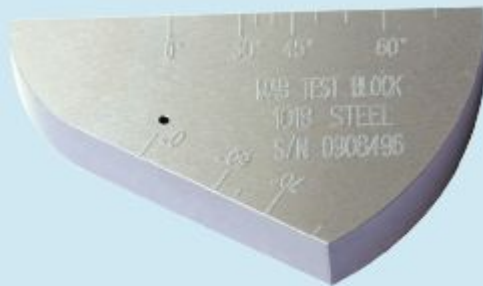


Calibration Block No. 2

Specifications:
ISO 7963:1985
Calibration Function:
small calibration block for on-site checking of
miniature shear wave probe index, time base,
beam angle and gain. engraved reference mark
scales from 35 to 75 degrees.
Price: \$0.00(Carbon Steel)



Miniature Angle Beam (ROMPAS) Calibration Block



Specifications:
ASTM E164
Calibration Function:
Straight Beam –Distance Angle Beam –
Index point, Sound path angle (30° - 70°).
Price: \$0.00(Carbon Steel)

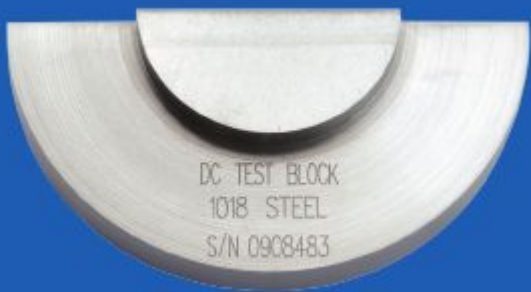
DSC Distance/Sensitivity Calibration Block

Specifications:
ASTM E164,AWS D1.1/D1.1M
Calibration Function:
Straight Beam: distance, amplitude. Angle Beam:
index point, sound path angle (45°-70°), distance,
sensitivity.
Price: \$0.00(Carbon Steel)



DC Distance Calibration Block

Specifications:
ASTM E164,AWS D1.1/D1.1M
Calibration Function:
Straight Beam: distance, amplitude. Angle
Beam: index point, distance
Price: \$0.00(Carbon Steel)



SC Sensitivity Calibration Block



Specifications:
ASTM E164,AWS D1.1/D1.1M
Calibration Function:
Angle Beam: sound path angle (45°, 60°, 75°),
sensitivity.
Price: \$0.00(Carbon Steel)

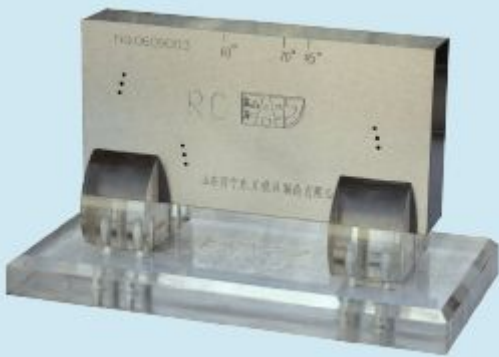
DS Distance/Sensitivity Calibration Block

Specifications:
AWS D1.1/D1.1M
Calibration Function:
Straight Beam: distance, horizontal linearity,
sensitivity.
Price: \$0.00(Carbon Steel)



RC (AWS) Resolution Calibration Block

Specifications:
AWS D1.1/D1.1M
Calibration Function:
Angle Beam: resolution (45°, 60°, 70°).
Price: 0.00(Carbon Steel)



IOW Beam Profile Block



Specifications:
API RP 2X
Calibration Function:
Angle Beam: beam profile (45°, 60°, 70°),
probe angle.
Price: \$0.00(Carbon Steel)

ASME Basic Calibration Blocks

Specifications:ASME SEC V Articles 4 Fig. T-434.2.1;
Calibration Function:Used for establishment of primary
reference responses for UT examination of welds.

Geometry:

Material Thickness		
25 or less		
Over 25through50		
Over 50 through 100		

Contains 2 slots: one on each face, and three side
drilled holes 38mm deep. Diameter of holes is
determined by block thickness.



ASME Basic Calibration Blocks for Pipe

Specifications:

ASME SEC V Articles 4 Fig. T-434.3

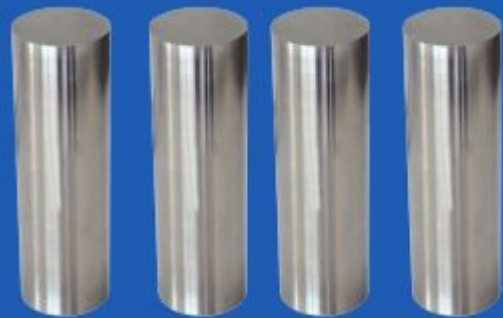
Calibration Function:

The basic calibration block fabricated for customer supplied section of pipe of the same diameter, schedule, heat treatment and material type as the material being examined.

Price: \$0.00(Carbon Steel)



ASTM Area/Amplitude (Set of 8)



Specifications:

ASTM-E-127 or ASTM-E-428

Calibration Function:

Determining relationship comparisons of flaw size and echo amplitude

Price: \$640.00(4340)

ASTM Distance/Area Amplitude (Set of 10)

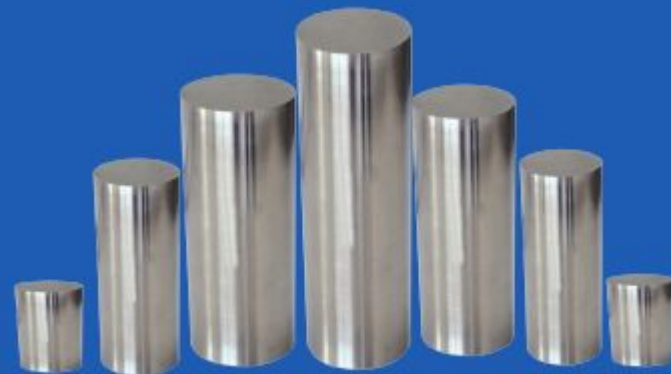
Specifications:

ASTM-E-127 or ASTM-E-428

Calibration Function:

Determining relationship comparisons of flaw size and echo amplitude.

Price: \$800.00(4340)



ASTM Distance Amplitude (Set of 19)

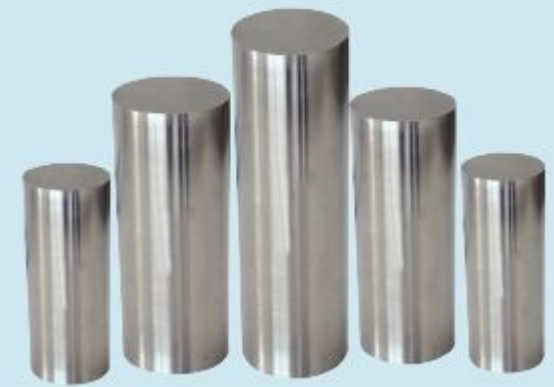
Specifications:

ASTM-E-127 or ASTM-E-428

Calibration Function:

Comparisons of distance amplitude relationships .

Price: \$1520.00(4340)



STB-a1 Calibration Block



Specifications:

Standard Test Block (STB) Type A1 is used for adjusting the working sensitivity, test range and for the measurement of characteristics of angle probe,refraction angle and probe index Of angle probe.

Made from 1018 Steel

Spec: Japanese Industrial Standard JIS Z 2345

Block Size: 25 mm x 100 mm x 300 mm

Price: \$0.00(Carbon Steel)

Storage Cases

Storage cases are available for ALL of our test blocks.

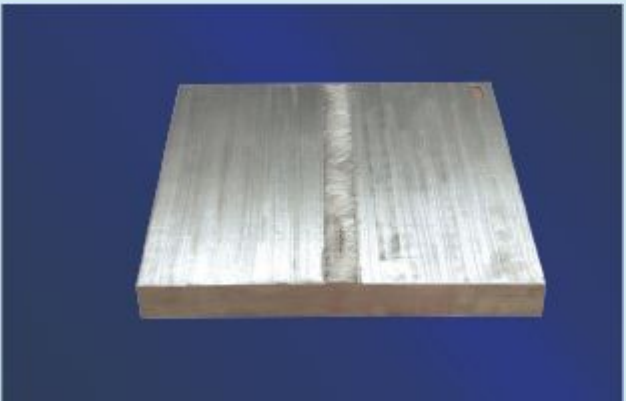


Price List of Flawed Specimens

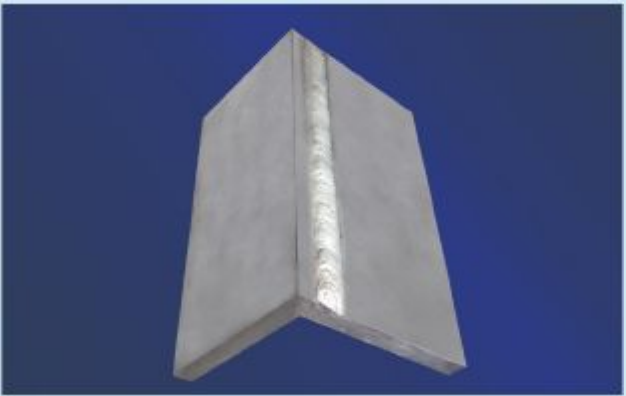
Part No	Specimen Type	Dimensions:mm		Price (USD)
UT-0	Plate with SV	300×300×6		\$
UT-0		300×300×12		\$
UT-0		300×300×20		\$
UT-0	Plate with DV	300×300×20		\$
UT-0		300×300×25		\$
UT-0		300×300×30		\$
UT-0	Pipe with SV	Φ83×12×300		\$
UT-0		Φ159×12×300		\$
UT-0		Φ159×25×300		\$
UT-1		Φ203×12×300		\$
UT-1		Φ203×25×300		\$
UT-1		Φ325×12×300		\$
UT-1	Tee with SV	150×150×300×20		\$
UT-1		150×150×300×25		\$
UT-1				
UT-1	Tee with DV	150×150×300×20		\$
UT-1		150×150×300×25		\$
UT-1				
UT-1	Node & Carrier	Pipe: Φ108×12×150		\$
		Plate: 400×400×25		
UT-2		Pipe: Φ203×12×150		\$
		Plate: 500×500×25		
UT-2	Nozzle&Carrier (set through)	Pipe: Φ108×12×150		\$
		Plate: 400×400×25		
UT-2		Pipe: Φ203×12×150		\$
		Plate: 500×500×25		



Plate with SV



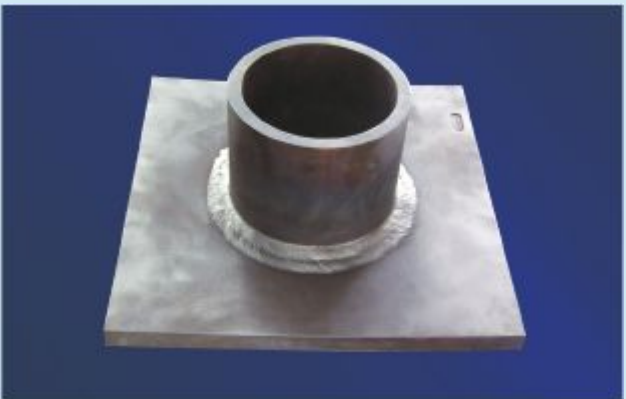
Tee with DV



Pipe with SV(Φ83×6)

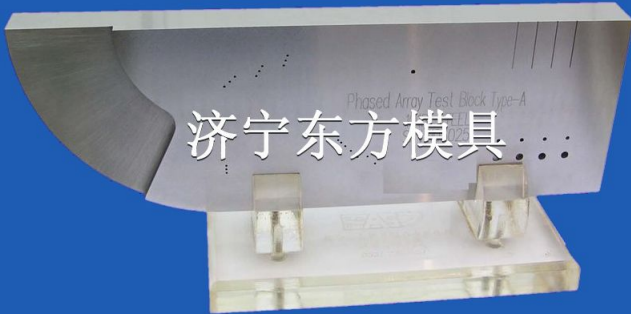
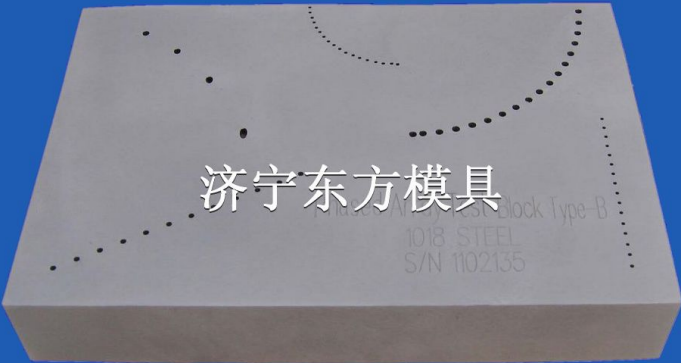


Pipe with SV(Φ203×12)

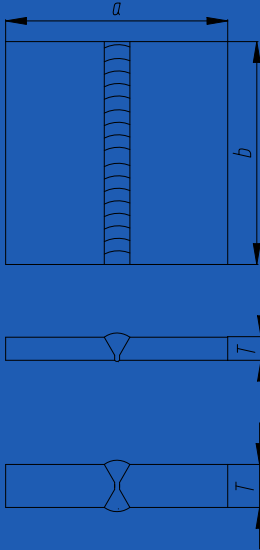
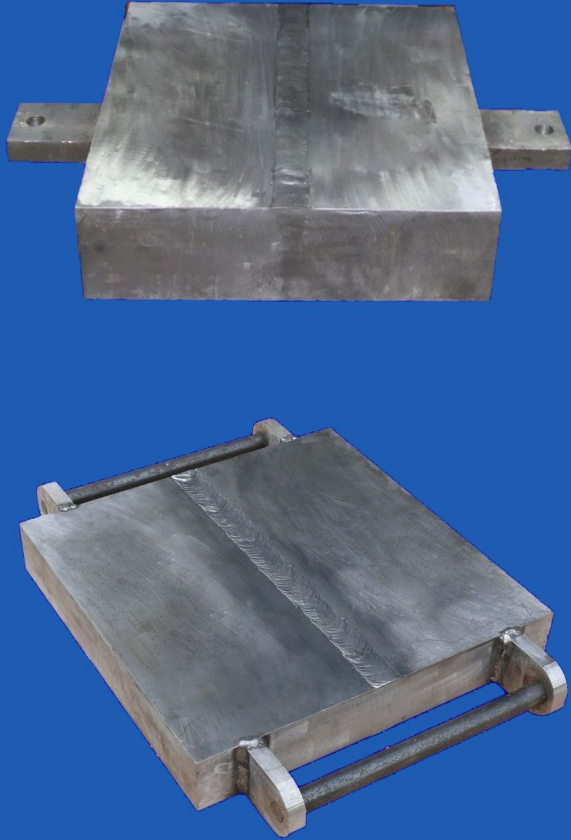


TOFD Reference Blocks

No.	Spec.(mm)	Range (mm)	Size (a*b*T) (mm)	N.W(KG)	Figure
1#	T=15	12-16	15*200*100	2.36	
2#	T=21	16-23	21*200*120	3.96	
3#	T=30	23-33	30*200*150	7.07	
4#	T=43	33-48	43*220*200	14.85	
5#	T=62	48-68	62*240*250	29.20	
6#	T=88	68-97	88*240*300	49.74	
7#	T=122	97-135	122*260*420	104.58	
8#	T=160	135-178	160*300*530	199.70	
9#	T=203	178-225	203*300*500	239.03	
10#	T=250	225-275	250*320*600	376.80	
11#	T=300	275-325	300*320*700	527.52	
12#	T=350	325-375	350*320*800	703.36	
13#	T=400	375-400	400*320*950	954.56	
Dead Zone Block	T=40				
	T=60				

Phase Array Test Block	Type A					
	Type B					

TOFD Simulated Weld Flawed Specimens

No.	Spec.(mm)	Range(mm)	N.W (kg)	Size (a*b*T)	Drawing	Figure
1#	T=15	12-16	20	400*400*15		
2#	T=21	16-23	28	400*400*21		
3#	T=30	23-33	38	400*400*30		
4#	T=43	33-48	55	400*400*43		
5#	T=62	48-68	78	400*400*62		
6#	T=88	68-97	120	400*400*88		
7#	T=122	97-135	200	500*400*122		
8#	T=160	135-178	327	650*400*160		
9#	T=203	178-225	950	800*600*203		
10#	T=250	225-275	1200	1000*600*250		
11#	T=300	275-325	1500	1000*600*300		
12#	T=350	325-375	1700	1000*600*350		