



Test Blocks

Technisonic offers a complete line of ultrasonic test blocks. These blocks are ultrasonically inspected and machined to precise engineering specifications.

Steel blocks are nickel plated and aluminum blocks are anodized for long, dependable service. Wooden cases optional.

IW Type 1: Calibration of shear and longitudinal transducers; and for determining shear wedge exit point and refracted angle.

IW Type 2: Modified version of IW Type 1 with 2.0" radius and additional holes for resolution comparison.

Type DC: Shear wave distance calibration. Contains 1.0" and 2.0" radius.

Type SC: Shear wave sensitivity calibration. Contains two .062" side drilled holes.

AWS Resolution Block: Used for determining resolution capabilities of angle beam (shear wave) transducers.

Type DSC: Shear wave distance and sensitivity calibration. Also used for verification of sound exit point on wedge and refracted angles.

IOW Beam Profile Block: Beam profile measurement of angle beam (shear wave) transducers.

Step Blocks: Thickness and linearity calibration for longitudinal transducers.

NAVSHIPS Test Block: Used for sensitivity, distance amplitude, and flaw depth information. Conforms to NAVSHIPS Specification 0900-006-3010.

30 FBH Resolution Block: Used for determining resolution and sensitivity characteristics for normal beam transducers. Also useful for area/amplitude plots.

ASME Calibrating Blocks: One flat bottom hole (FBH) with diameter and depth per requirement.

ASTM Area/Amplitude Set: Consists of eight blocks for area/amplitude determination. Hole size is #1 FBH (1/64") to #8 FBH (8/64") at .300" depth.

ASTM Distance/Amplitude Set: Nineteen blocks with the same specified flat bottom hole size. Metal travel distances are as follows: .060", .120", .250", .370", .500", .620", .750", .870", 1.00", 1.25", 1.75", 2.25", 2.75", 3.25", 3.75", 4.25", 4.75", 5.25", 5.75".

ASTM Distance/Area - Amplitude Set: Ten blocks with flat bottom holes as follows: #3 @ 3.00", #5 @ .120", #5 @ .250", #5 @ .500", #5 @ .750", #5 @ 1.50", #5 @ 3.00", #5 @ 6.00", #8 @ 3.00", #8 @ 6.00".

Single ASTM Blocks: Sensitivity or resolution measurement of normal beam transducers. Any block from the above ASTM set is available.

