

**Sonatest**

Inspect with confidence

**TRANSDUCER CATALOGUE**



# PSS and SW / SNW Wedges

Single Crystal detachable transducers, for use with "Standard" and "Snail" wedge variants shear wave wedges

## Features

- Single crystal angle beam shear wave quick change transducer and wedges
- Rectangular lead metaniobate crystal
- Max operating temperature 50°C / 120°F
- High temperature options available up to 285°C, see SSG Transducer list
- AWS standard compatible transducers and wedges
- 3/4 x 3/4 inch crystal probes are compatible with both 3/4 x 3/4 and 5/8 x 5/8 inch wedges.

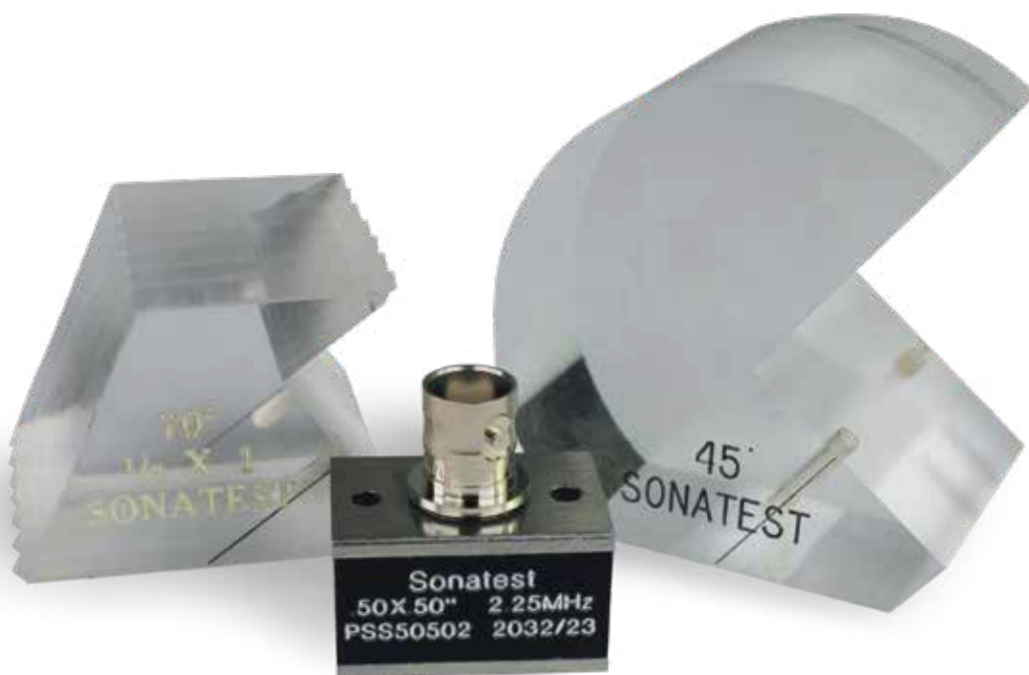


## Common Applications

- General weld inspection
- Critical weld inspection

Transducer Models				
Product Code	Description	Frequency (MHz)	Crystal Size (mm / Inches)	Nearfield Length in Steel (mm / Inches)
PSS62621	1MHz 5/8" x 5/8" Shearwave	1	15.9 x 15.9mm / 5/8" x 5/8"	19.6mm / 0.77"
PSS75751	1MHz 3/4" x 3/4" Comp. SW	1	19.2 x 19.2mm / 3/4" x 3/4"	28.5mm / 1.12"
PSS50101	1MHz 1/2" x 1" Std SW	1	12.7 x 25.4mm / 1/2" x 1"	49.9mm / 1.97"
PSS50102	2.25MHz 1/2" x 1" Shearwave BNC	2.25	12.7 x 25.4mm / 1/2" x 1"	28.1mm / 1.11"
PSS50502	2.25MHz 1/2" x 1/2" Shearwave BNC	2.25	12.7 x 12.7mm / 1/2" x 1/2"	28.1mm / 1.11"
PSS62622	2.25MHz 5/8" x 5/8" Shearwave BNC	2.25	15.9 x 15.9mm / 5/8" x 5/8"	112.4mm / 4.42"
PSS62752	2.25MHz 3/4" x 5/8" Shearwave BNC	2.25	19.2 x 15.9mm / 3/4" x 5/8"	64.2mm / 2.53"
PSS75752	2.25MHz 3/4" x 3/4" Shearwave BNC	2.25	19.2 x 19.2mm / 3/4" x 3/4"	64.2mm / 2.53"
PSS50105	5MHz 1/2" x 1" Shearwave BNC	5	12.7 x 25.4mm / 1/2" x 1"	249.7mm / 9.83"
PSS50505	5MHz 1/2" x 1/2" Shearwave BNC	5	12.7 x 12.7mm / 1/2" x 1/2"	62.4mm / 2.46"
PSS62625	5MHz 5/8" x 5/8" Shearwave BNC	5	15.9 x 15.9mm / 5/8" x 5/8"	249.7mm / 9.83"
PSS62755	5MHz 3/4" x 5/8" Shearwave BNC	5	19.2 x 15.9mm / 3/4" x 5/8"	142.7mm / 5.62"
PSS75755	5MHz 3/4" x 3/4" Shearwave BNC	5	19.2 x 19.2mm / 3/4" x 3/4"	142.7mm / 5.62"

Case Dimensions and Details					
Transducer Size	Width/Diameter (mm / Inches)	Height (mm / Inches)	Length (mm / Inches)	Connector Options	Position Options
12.7 x 12.7mm / 1/2" x 1/2"	19mm / 0.75"	19mm / 0.75"	28.4mm / 1.12"	B	Top
12.7 x 25.4mm / 1/2" x 1"	19.1mm / 0.75"	19mm / 0.75"	41.1mm / 1.62"	B	Top
15.9 x 15.9mm / 5/8" x 5/8"	21.5mm / 0.85"	19mm / 0.75"	34.3mm / 1.35"	B	Top
15.9mm X 19.2mm / 5/8" x 3/4"	21.5mm / 0.85"	19mm / 0.75"	34.3mm / 1.35"	B	Top
19.2mm x 19.2mm / 3/4" x 3/4"	24.1mm / 0.95"	19mm / 0.75"	34.4mm / 1.35"	B	Top



Standard Wedge Details

Product Code	Description	θ wedge Angle in Steel (°)	Applicable Transducer Ø (mm / Inches)	Width (mm / Inches)	Height (mm / Inches)	Length (mm / Inches)
SW5045	45° wedge for ½" x ½" Transducer	45	12.7 x 12.7mm / ½" x ½"	28.5mm / 1.12"	38mm / 1.50"	38mm / 1.50"
SW5060	60° wedge for ½" x ½" Transducer	60	12.7 x 12.7mm / ½" x ½"	28.5mm / 1.12"	38mm / 1.50"	44.3mm / 1.74"
SW5070	70° wedge for ½" x ½" Transducer	70	12.7 x 12.7mm / ½" x ½"	28.5mm / 1.12"	38mm / 1.50"	46.8mm / 1.84"
SW5145	45° wedge for ½" x 1" Transducer	45	12.7 x 25.4mm / ½" x 1"	41.5mm / 1.63"	39.3mm / 1.55"	38mm / 1.50"
SW5160	60° wedge for ½" x 1" Transducer	60	12.7 x 25.4mm / ½" x 1"	41.5mm / 1.63"	37mm / 1.46"	44.5mm / 1.75"
SW5170	70° wedge for ½" x 1" Transducer	70	12.7 x 25.4mm / ½" x 1"	41.5mm / 1.63"	37mm / 1.46"	46.8mm / 1.84"
SW6245	45° wedge for ⅝" x ⅝" Transducer	45	15.9 x 15.9mm / ⅝" x ⅝"	34.3mm / 1.35"	44mm / 1.73"	44.3mm / 1.74"
SW6260	60° wedge for ⅝" x ⅝" Transducer	60	15.9 x 15.9mm / ⅝" x ⅝"	34.3mm / 1.35"	43.8mm / 1.72"	46.8mm / 1.84"
SW6270	70° wedge for ⅝" x ⅝" Transducer	79	15.9 x 15.9mm / ⅝" x ⅝"	34.3mm / 1.35"	44mm / 1.73"	49.3mm / 1.94"

Snail Wedge Details

Product Code	Description	θ wedge Angle in Steel (°)	Applicable Transducer Ø (mm / Inches)	Width (mm / Inches)	Height (mm / Inches)	Length (mm / Inches)
SNW6245	45° wedge for ⅝" x ⅝" Transducer	45	15.9 x 15.9mm / ⅝" x ⅝"	34.1mm / 1.34"	56.3mm / 2.22"	54.7mm / 2.15"
SNW6260	60° wedge for ⅝" x ⅝" Transducer	60	15.9 x 15.9mm / ⅝" x ⅝"	34.1mm / 1.34"	56.4mm / 2.22"	56mm / 2.20"
SNW6270	70° wedge for ⅝" x ⅝" Transducer	70	15.9 x 15.9mm / ⅝" x ⅝"	34.1mm / 1.34"	56.4mm / 2.22"	60.5mm / 2.38"

# SSG and SW / SNW Wedges

Single Crystal detachable transducers, for use with "Standard" and "Snail" wedge variants shear wave wedges

## Features

- Single crystal angle beam shear wave quick change transducer and wedges
- Rectangular lead metaniobate crystal
- Max operating temperature 50°C / 120°F
- High temperature options available up to 285°C / 545°F on request
- Low dampening for narrow bandwidth
- Wide Bandwidth option see PSS transducer list
- AWS standard compatible transducers and wedges

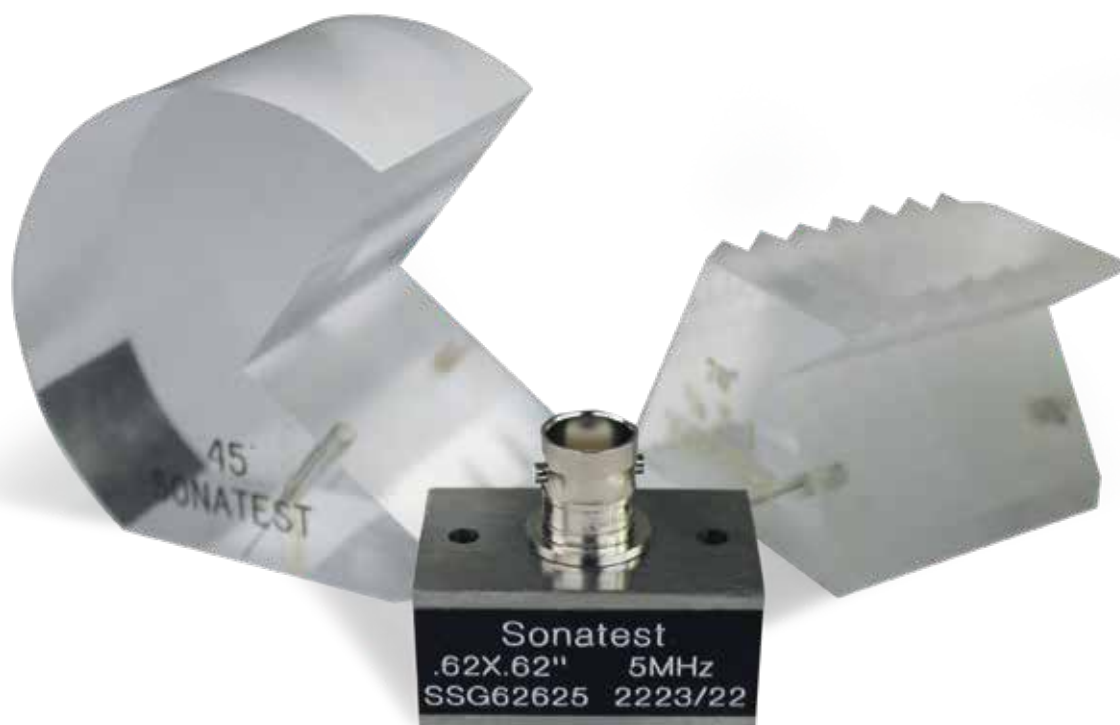


## Common Applications

- General weld inspection
- Critical weld inspection

Transducer Models				
Product Code	Description	Frequency (MHz)	Crystal Size (mm / Inches)	Nearfield Length in Steel (mm / Inches)
SSG50502	1/2" x 1/2" Shearwave BNC	2.25	12.7 x 12.7mm / 1/2" x 1/2"	28.1mm / 1.1"
SSG50102	1/2" x 1" Shearwave BNC	2.25	12.7 x 25.4mm / 1/2" x 1"	28.1mm / 1.1"
SSG62622	5/8" x 5/8" Shearwave BNC	2.25	15.9 x 15.9mm / 5/8" x 5/8"	112.4mm / 4.4"
SSG62752	3/4" x 5/8" Shearwave BNC	2.25	19.2 x 15.9mm / 3/4" x 5/8"	64.2mm / 2.5"
SSG75752	3/4" x 3/4" Shearwave BNC	2.25	19.2 x 19.2mm / 3/4" x 3/4"	64.2mm / 2.5"
SSG50505	1/2" x 1/2" Shearwave BNC	5	12.7 x 12.7mm / 1/2" x 1/2"	62.4mm / 2.5"
SSG50105	1/2" x 1" Shearwave BNC	5	12.7 x 25.4mm / 1/2" x 1"	249.7mm / 9.8"
SSG62625	5/8" x 5/8" Shearwave BNC	5	15.9 x 15.9mm / 5/8" x 5/8"	249.7mm / 9.8"
SSG62755	3/4" x 5/8" Shearwave BNC	5	19.2 x 15.9mm / 3/4" x 5/8"	142.7mm / 5.6"
SSG75755	3/4" x 3/4" Shearwave BNC	5	19.2 x 19.2mm / 3/4" x 3/4"	142.7mm / 5.6"

Case Dimensions and Details					
Transducer Size	Width/Diameter (mm / Inches)	Height (mm / Inches)	Length (mm / Inches)	Connector Options	Position Options
12.7 x 12.7mm / 1/2" x 1/2"	19mm / 0.75"	19mm / 0.75"	28.4mm / 1.12"	B	Top
12.7 x 25.4mm / 1/2" x 1"	19.1mm / 0.75"	19mm / 0.75"	41.1mm / 1.62"	B	Top
15.9 x 15.9mm / 5/8" x 5/8"	21.5mm / 0.85"	19mm / 0.75"	34.3mm / 1.35"	B	Top
15.9 x 19.2mm / 5/8" x 3/4"	21.5mm / 0.85"	19mm / 0.75"	34.3mm / 1.35"	B	Top
19.2 x 19.2mm / 3/4" x 3/4"	24.1mm / 0.95"	19mm / 0.75"	34.4mm / 1.35"	B	Top



Standard Wedge Details

Product Code	Description	θ wedge Angle in Steel (°)	Applicable Transducer Ø (mm / Inches)	Width (mm / Inches)	Height (mm / Inches)	Length (mm / Inches)
SW5045	45° wedge for ½" x ½" Transducer	45	12.7 x 12.7mm / ½" x ½"	28.5mm / 1.12"	38mm / 1.50"	38mm / 1.50"
SW5060	60° wedge for ½" x ½" Transducer	60	12.7 x 12.7mm / ½" x ½"	28.5mm / 1.12"	38mm / 1.50"	44.3mm / 1.74"
SW5070	70° wedge for ½" x ½" Transducer	70	12.7 x 12.7mm / ½" x ½"	28.5mm / 1.12"	38mm / 1.50"	46.8mm / 1.84"
SW5145	45° wedge for ½" x 1" Transducer	45	12.7 x 25.4mm / ½" x 1"	41.5mm / 1.63"	39.3mm / 1.55"	38mm / 1.50"
SW5160	60° wedge for ½" x 1" Transducer	60	12.7 x 25.4mm / ½" x 1"	41.5mm / 1.63"	37mm / 1.46"	44.5mm / 1.75"
SW5170	70° wedge for ½" x 1" Transducer	70	12.7 x 25.4mm / ½" x 1"	41.5mm / 1.63"	37mm / 1.46"	46.8mm / 1.84"
SW6245	45° wedge for ⅝" x ⅝" Transducer	45	15.9 x 15.9mm / ⅝" x ⅝"	34.3mm / 1.35"	44mm / 1.73"	44.3mm / 1.74"
SW6260	60° wedge for ⅝" x ⅝" Transducer	60	15.9 x 15.9mm / ⅝" x ⅝"	34.3mm / 1.35"	43.8mm / 1.72"	46.8mm / 1.84"
SW6270	70° wedge for ⅝" x ⅝" Transducer	79	15.9 x 15.9mm / ⅝" x ⅝"	34.3mm / 1.35"	44mm / 1.73"	49.3mm / 1.94"

Snail Wedge Details

Product Code	Description	θ wedge Angle in Steel (°)	Applicable Transducer Ø (mm / Inches)	Width (mm / Inches)	Height (mm / Inches)	Length (mm / Inches)
SNW6245	45° wedge for ⅝" x ⅝" Transducer	45	15.9 x 15.9mm / ⅝" x ⅝"	34.1mm / 1.34"	56.3mm / 2.22"	54.7mm / 2.15"
SNW6260	60° wedge for ⅝" x ⅝" Transducer	60	15.9 x 15.9mm / ⅝" x ⅝"	34.1mm / 1.34"	56.4mm / 2.22"	56mm / 2.20"
SNW6270	70° wedge for ⅝" x ⅝" Transducer	70	15.9 x 15.9mm / ⅝" x ⅝"	34.1mm / 1.34"	56.4mm / 2.22"	60.5mm / 2.38"



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