



Sonatest

Inspect with confidence

TRANSDUCER CATALOGUE



PIM

Immersion Transducers

IMMERSION

Features

- Single crystal immersion beam compression wave transducers
- Circular lead metaniobate crystal
- Max operating temperature 50°C / 120°F
- Spherical (point focus) / Cylindrical (line focus) options available on request, bespoke focus distance available on consultation

Common Applications

- Ceramics
- Composites
- Machine Parts
- Thickness inspection



Transducer Models

Product Code	Frequency (MHz)	Crystal Diameter (mm / Inches)	Nearfield Length in Steel"unfocused" (mm / Inches)	Standard point and line focus distance options (mm)	Minimum and maximum focal range for the Transducer (mm / Inches)
PIM501	1	12.7mm / 0.5"	6.8mm / 0.268"	25.4	17.8 - 25.4mm / 0.701 - 1"
PIM751	1	19.2mm / 0.756"	15.5mm / 0.61"	38.1, 50.8	31.7 - 50.8mm / 1.248 - 2"
PIM 101	1	25.4mm / 1"	27.1mm / 1.067"	50.8, 63.5, 76.2	45.7 - 81.3mm / 1.799 - 3.201"
PIM2525	2.25	6.4mm / 0.252"	3.9mm / 0.154"	12.7	10.2 - 12.7mm / 0.402 - 0.5"
PIM3725	2.25	9.5mm / 0.374"	8.5mm / 0.335"	25.4	20.3 - 25.4mm / 0.799 - 1"
PIM5025	2.25	12.7mm / 0.5"	15.2mm / 0.598"	25.4, 38.1, 50.8	22.8 - 50.8mm / 0.898 - 2"
PIM7525	2.25	19.2mm / 0.756"	34.8mm / 1.37"	38.1, 50.8, 63.5, 76.2, 88.9, 101.6	31.7 - 101.6mm / 1.248 - 4"
PIM1025	2.25	25.4mm / 1"	60.9mm / 2.398"	50.8, 63.5, 76.2, 88.9, 101.6	48.2 - 152.4mm / 1.898 - 6"
PIM2550	5	6.4mm / 0.252"	8.6mm / 0.339"	12.7	12.7 - 25.4mm / 0.5 - 1"
PIM3750	5	9.5mm / 0.374"	18.6mm / 0.732"	25.4, 38.1	17.8 - 43.2mm / 0.701 - 1.701"
PIM5050	5	12.7mm / 0.5"	33.8mm / 1.331"	25.4, 38.1, 50.8, 63.5, 76.2, 88.9, 101.6	22.8 - 101.6mm / 0.898 - 4"
PIM7550	5	19.2mm / 0.756"	77.3mm / 3.043"	38.1, 50.8, 63.5, 76.2, 88.9, 101.6	31.7 - 203.2mm / 1.248 - 8"
PIM1050	5	25.4mm / 1"	135.3mm / 5.327"	50.8, 63.5, 76.2, 88.9, 101.6	50.8 - 203.2mm / 2 - 8"
PIM2510	10	6.4mm / 0.252"	17.2mm / 0.677"	12.7, 25.4, 38.1, 50.8	12.7 - 50.8mm / 0.5 - 2"

Case Dimensions and Details

Transducer Type (mm / Inches)	Width/Diameter (mm / Inches)	Height (mm / Inches)	Connector Options	Position Options
6.4mm / 0.252"	15.8mm / 0.622"	52.6mm / 2.071"	U	Top
9.5mm / 0.374"	15.8mm / 0.622"	52.6mm / 2.071"	U	Top
12.7mm / 0.5"	15.8mm / 0.622"	52.6mm / 2.071"	U	Top
19.2mm / 0.756"	22.7mm / 0.894"	52.6mm / 2.071"	U	Top
25.4mm / 1"	30mm / 1.181"	52.6mm / 2.071"	U	Top



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Leading Ultrasonics