



Sonatest

Inspect with confidence

TRANSDUCER CATALOGUE



TSTARC

Dual Crystal Normal Beam Transducers

Features

- Dual normal beam compression wave contact transducers
- Semi-circular, lead zirconate titanate crystal
- Max operating temperature 50°C / 120°F
- High temperature option available
- Ceramic faced for prolonged service life

Common Applications

- Castings
- Forgings
- Composites
- Thickness inspection



Transducer Models				
Product Code	Description	Frequency (MHz)	Crystal Diameter (mm / Inches)	Nearfield Length in Steel (mm / Inches)
TSTARC2-10	Twin Crystal Ø10mm 2Mz	2	10mm / 0.394"	8.4mm / 0.331"
TSTARC2-20	Twin Crystal Ø20mm 2Mz	2	20mm / 0.787"	33.6mm / 1.323"
TSTARC4-10	Twin Crystal Ø10mm 4Mz	4	10mm / 0.394"	16.8mm / 0.661"
TSTARC4-20	Twin Crystal Ø20mm 4Mz	4	20mm / 0.787"	67.1mm / 2.642"

Case Dimensions and Details				
Transducer Version Crystal size	Width/Diameter (mm / Inches)	Height (mm / Inches)	Connector Options	Position Options
10mm / 0.394"	25mm / 0.984"	37mm / 1.457"	Z S	Top
20mm / 0.787"	33mm / 1.299"	43mm / 1.693"	Z S	Top

TSTARC

Features

- Dual crystal, ceramic hard face contact transducers
- Rectangular lead zirconate titanate crystal
- Max operating temperature 50°C / 120°F
- High resolution and sensitivity inspections

Common Applications

- Ceramics
- Composites
- Machine parts



ANGLE BEAMS

Transducer Models					
Product Code	Description	Angle in Steel (°)	Frequency (MHz)	Crystal Diameter (mm / Inches)	Nearfield Length in Steel (mm / Inches)
TSTARC2-45	Twin Shear 2Mhz 45°	45	2	8 x 5mm / 0.315 x 0.197"	15.5mm / 0.61"
TSTARC2-60	Twin Shear 2Mhz 60°	60	2	8 x 5mm / 0.315 x 0.197"	15.5mm / 0.61"
TSTARC2-70	Twin Shear 2Mhz 70°	70	2	8 x 5mm / 0.315 x 0.197"	15.5mm / 0.61"
TSTARC4-45	Twin Shear 4Mhz 45°	45	4	8 x 5mm / 0.315 x 0.197"	31mm / 1.22"
TSTARC4-60	Twin Shear 4Mhz 60°	60	4	8 x 5mm / 0.315 x 0.197"	31mm / 1.22"
TSTARC4-70	Twin Shear 4Mhz 70°	70	4	8 x 5mm / 0.315 x 0.197"	31mm / 1.22"

Case Dimensions and Details				
Width/Diameter (mm / Inches)	Height (mm / Inches)	Length (mm)	Connector Options	Position Options
15mm / 0.591"	29mm / 1.142"	21mm / 0.827"	Z S	Top



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Leading Ultrasonics