## NDT Supply.com, Inc. 7952 Nieman Road

Lenexa, KS 66214-1560 USA



## Transducers

To complement our ultrasonic thickness gages, we offer a range of ultrasonic transducers. The performance of any ultrasonic thickness meter relies heavily on the transducer and its suitability to the material being measured. Therefore, selecting the right transducer is vital. All Cygnus' transducers are made from stainless steel and have a hard wear face or a wear membrane to protect the transducer.

### Variety of Cygnus INOX Transducers

- Stainless steel SINGLE CRYSTAL transducers, used in multiple-echo mode, include replaceable membranes for long life, require no zeroing and have a high linear accuracy.
- Stainless steel TWIN CRYSTAL transducers, used in echo-echo and single-echo modes, have improved measurability on extreme back wall corrosion and pitting.

				13mm
	6mm	, <u>I3mm</u> ,	J <u>3mm</u>	Standard probe supplied
	S5A	S5C	S3C	S2C
	Ideal for: Small diameter pipes and boiler tubes/heat exchangers	Ideal for: Measuring wall thickness down to 1 mm (0.040 inch)	Ideal for: Measuring wall thickness down to 2mm/0.080in with corrosion through coatings	Ideal for: all round measurement of wall thickness with corrosion through coatings
Frequency	5 MHz	5 MHz	3.5 MHz	2.25 MHz
Tip Size	6mm (0.24 in)	13mm (0.5 in)	13mm (0.5 in)	13mm (0.5 in)
Range in Steel	1 - 50mm (0.040 - 2in)	1 - 50mm (0.040 - 2in)	2 - 150mm (0.080 - 6in)	3 - 250mm (0.120 - 10in)
Connectors	Lemo 00	BNC	BNC	BNC
Colour	Black Face	Black Band	Orange Band	Red Band

#### Single Crystal Transducers

All probes need to be used with Ultrasonic Couplant when taking measurements (excl. underwater)

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### **Twin Crystal Transducers**

46.6mm	17mm 25mm 25mm 21mm	Li3mm, 25 mm 25 mm 21 mm	Legis Contraction of the second secon	Standard probe supplied	12.7mm B.5mm
	T2C-CSL	T5B-CSL Ideal for:	<b>T5A-CSW</b> Ideal for:	T5B-CSW	T7A-CSWB
	Attenuative materials	General General purpose heavy front/back wall corrosion or pitting	General purpose	General purpose, extremely heavy front/back wall pitting or corrosion	Small diameter pipes e.g. boiler tube. Thin, corroded plate
		pitting			plate
Frequency Crystal Ø	2 MHz 12mm (0.5in)	5 MHz 9.5mm (0.37in)	5 MHz 6.4mm (0.25in)	5 MHz 9.5mm (0.37 in)	7.5 MHz 4.5mm (0.18 in)
Tip Size	17mm (0.67in)	12.7mm (0.5in)	9.5mm (0.37in)	12.7mm (0.5in)	6.5mm (0.26in)
Range in Steel (Single-Echo)	2.5 - 350mm (0.1 - 13.8in)	1.5 - 200mm (0.059 - 7.90in)	1 - 150mm (0.039 - 5.91in)	1.5 - 200mm (0.059 - 7.9in)	0.8 - 50mm (0.031 - 2in)
(Echo-Echo)	5 - 50mm (0.20 - 2in)	4 - 50mm (0.16 - 2in)	3 - 50mm (0.12 - 2in)	4 - 50mm (0.16 - 2in)	3 - 25mm (0.12 - 1in)
Connectors	Twin Lemo 00	Twin Lemo 00	Wired to Lemo 00	Wired to Lemo 00	Wired to Lemo 00
Weight	56g (1.98 oz)	61g (2.15 oz)	81.7g (2.89 oz) Inc. cable	90g (3.2 oz) Inc. cable	68g (2.39 oz) Inc. cable
Temperature Range	-10°C to 70°C (14°F to 158°F)	-10°C to 70°C (14°F to 158°F)	-10°C to 70°C (14°F to 158°F)	-10°C to 70°C (14°F to 158°F)	-10°C to 70°C (14°F to 158°F)

All above probes have composite crystal and need to be used with Ultrasonic Couplant when taking measurements (excl. underwater)