

The James Ultrasonic Transducers

The widest range of low frequency transducers available for ultrasonic testing of concrete and other coarse-grained materials.



Features and Benefits

General Purpose Compression Wave Transducers

- Robust PZT elements in stainless steel housing.
- Covered with rubber coating for protection and handling.
- Designed for maximum acoustic efficiency.
- Many transducers in use for more than 30 years.
- The most experienced and expert support.

Table 1

Model Number	Resonant Frequency	Diameter		Length (w/conn.)		Weight	
		ins	mm	ins	mm	Lbs.	gr.
V-C- 4891	24KHz	2.02	51	4.62	117	2.62	1188
V-C- 4898	54KHz	2.02	51	2.37	60	.92	417
V-C- 4894	150KHz	1.03	26	2.07	52	.19	85
V-C- 7217	500KHz	.51	13	2.28	58	.05	23

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Shear Wave

Sales Numbers and Specifications

Shear Wave

V-C-7283 180 KHz: Length 2.37 ins. (60 mm), Diameter 1.98 ins. (51 mm)

Weight .92 lbs. (416 gr.). Used in combination with compressional wave transducers, to calculate the Poisson's ratio which in turn will facilitate a more accurate moduli.

Exponential

V-C-4911 50 KHz Transmitter: (Used without Pre-Amp) Length 4.765 ins. (121 mm) Diameter 1.49 ins. (38 mm) Weight .94 lbs. (425 gr.)

V-C-4905 50 KHz Receiver: (Used with Pre-Amp) Length 4.765 ins. (121 mm)

Diameter 1.49 ins. (38 mm)

Weight 1.3 lbs. (590 gr.)

Eliminates the use of couplants on rough, uneven surfaces.

Underwater

V-C-4876 54 KHz Transmitter: Length 5.87 ins. (149 mm) Diameter 2.25 ins. (57 mm) Weight 5 lbs. (2268 gr.)

V-C-4877 54 KHz Receiver: Length 6.87 ins. (175 mm) Diameter 2.25 ins. (57 mm) Weight 6 lbs. (2722 gr.)

Each supplied with 50-ft. (16 m) underwater cable (**V-C-4969-050**) and connectors.

V-C-4969-xxx additional cable per foot (32 cm).

Rolling

V-C-7219 84 KHz: Width 2.21 ins. (56 mm) Diameter 2.75 ins. (70 mm)

Weight 1.64 lbs. (743 gr.)

For use on large smooth surfaces resulting in faster and more complete testing; maximum speed 20 ft/sec. (6 mm/sec.)

Accessories

V-C-4140 Preamplifier: For very coarse material and long path lengths with direct amplification, x 4 and x 7 using a Switch.

V-C-4874-GSO Clean in place – For architectural concrete; can be cleaned

V-24145-000 Rubber compliant (10pc-80mmx75mm)

V-24145-001 Rubber compliant (50pc-25mm Diameter)

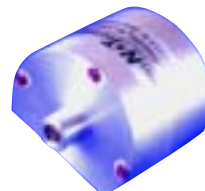


Exponential Transducers with Preamp

Underwater Transducers with Cable and Reel



Rolling Transducers



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