

Fit like Octopus !

Being realized by a matrix structure of "flexible composite elements", "matching layer", and "damping materials".

Excellent Cost Performance !

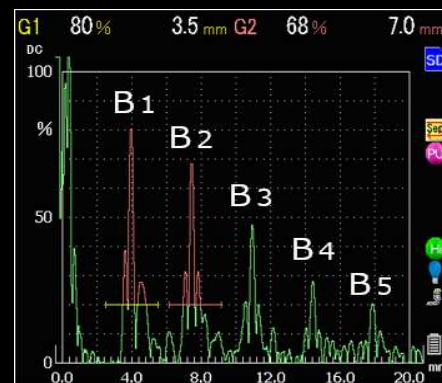
No Wedge!
Enabling the inspection of materials with flat and curved surface.

Available for Various Applications !

Fitting to various shapes by own structure of transducer, and suitable for industrial as well as medical field



Thickness measurement
of Elbow Pipe



Inspection result of Elbow Pipe
(Narrow dead zone)

Ultrasonic Flexible Transducer TAKOTAN

Ultrasonic Flexible Transducer Fitting Freely like an Octopus TAKOTAN

"TAKOTAN" is an ultrasonic transducer that realizes inspection and measurement to fit on curved surfaces with its flexibility using 3 layer structure consisting of, "composite elements", "matching layer" & "damping materials". Its enhanced usability allows it to be used with commercially available ultrasonic flaw detectors.

■ Application Field

- Aerospace
- Automobile
- Chemical, Petrochemical plant
- Road, Bridge
- Metal
- Machinery
- Electronics
- Medical field, etc.

■ Target

- Metal
- Resin, etc.

■ Standard Features (Flexible transducer)

- Type : Single or dual element straight beam
- Frequency : 2 ~ 10 MHz
- Element size : $\Phi 5 \sim \Phi 10$ mm
- Connector : LEMO(S) / G51 / C25
- Operating temperature : Room temperature



Single element
straight beam type



Dual element
straight beam type

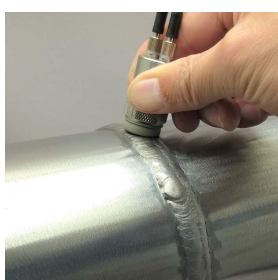
■ Usage



Thickness measurement
of Elbow Pipe



Thickness measurement
of Valve



Inspection of Weld
Bead (circumferential)



Inspection of Weld
Bead (longitudinal)

Operable with commercially available
ultrasonic flaw detectors

We accept your samples for test,
free of charge, and devices are available to rent !

Search "Japan Probe" and visit website
for solution videos.



※ We offer customized products based on customers' needs. Please visit 'contact us' by WEB site below.

Ultrasonic Sensor
JAPAN PROBE

JP building, 1-1-14, Nakamura-cho, Minami-ku,
Yokohama, Kanagawa, 232-0033 JAPAN
TEL : +81-45-242-0531 FAX : +81-45-242-0541
URL : <https://www.jp-probe.com/en/> E-mail : info@jp-probe.com

