

## 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



# Ultrasonic Flexible Transducer TAKOTAN



Single Element  
Straight Beam Type



Dual Element  
Straight Beam Type

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# 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. With the help of an ultrasonic array flaw detector (2D matrix type), inspection and measurement results can be displayed as a waveform, section and flat images.

## ■ 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 :  $\Phi 5 \sim \Phi 10$
- Connector : LEMO(S) / G51 / C25
- Operating temperature : Room temperature

## ■ Standard Features (Flexible matrix array transducer)

- Type : 2D Matrix
- Frequency : 3.5 ~ 10 MHz
- Element : 16 ~ 64 elements
- Connector : HYPERTRONICS / TYCO / IPEX / ITT CANON
- Operating temperature : Room temperature

Ultrasonic testing by  
standard flaw detectors !

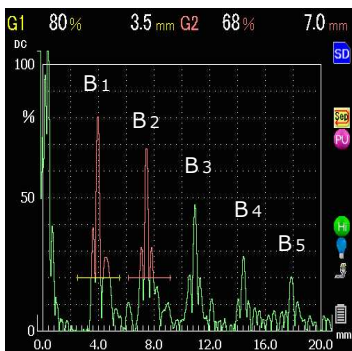
Ultrasonic testing by  
phased array flaw detectors !



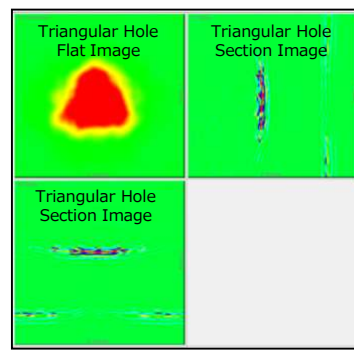
Flexible Transducer



Flexible Matrix Array Transducer



Thickness Measurement of Elbow Pipe



Defect Detection of Spherical Specimen  
(Detect Image : Triangle of flat bottom)

※ 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 : <http://www.jp-probe.com/en/> E-mail : [info@jp-probe.com](mailto:info@jp-probe.com)