

# Fit Flexibly !

Offering ultrasonic inspection on various shapes (curved/uneven/gap/rough surface).

# Cartridge Type Available !

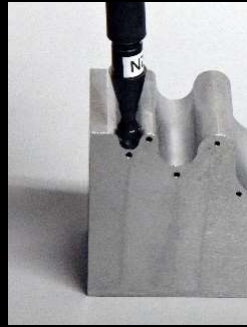
Easy to change element size and set frequency as this transducer is cartridge type.

# High S/N Ratio and Narrow Dead Zone !

With improved S/N ratio during transmission and reception of ultrasonic waves, you can detect a defect that exists directly under the surface because dead zone of this transducer is narrow.



Butt welding part



Narrow groove part



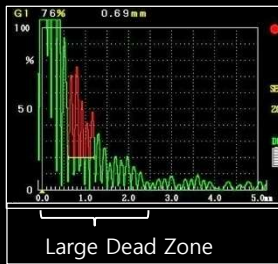
Gas-cut surface of the reinforcing bar



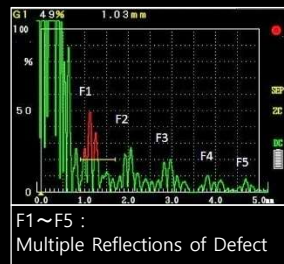
Concave surface



Convex surface



Conventional Transducer



F1 ~ F5 :  
Multiple Reflections of Defect  
NEW 「JUTAN」



Defect Inspection 1mm away under the curved surface

You can choose type and frequency as the cartridge type

## Ultrasonic Soft Transducer

# JUTAN



Cartridge type



Case type



Flat type



Pencil type

Improved S/N ratio by the transducers' own structure. It not only allow you to inspect welding zone, casting and aluminum diecasting but is also useful to detect defects near the surface owing to narrow dead zone. It can be used in the field of metal, civil engineering, construction, plant, road, bridge, electronics, medical, etc.

# Soft Fitting ! Ultrasonic Soft Transducer !

## JUTAN

The soft transducer 'JUTAN' is made of soft materials, and provide 'high S/N ratio' and 'narrow dead zone'. It allows to create narrow dead zone, by improving S/N ratio during transmission and reception of ultrasonic waves. As the result, we can inspect and measure a defect near the surface, or welding zone, casting, aluminum diecasting, high damping materials.

### ■ Application

- Metal
- Automobile
- Civil engineering, Construction
- Aerospace
- Machinery
- Chemical, petrochemical plant
- Electronics
- Road, Bridge
- Medical field, etc.

### ■ Target

- Metal
- Resin
- Human Body, etc.

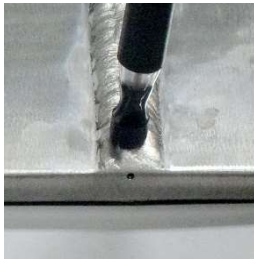
### ■ Specifications (Customizable)

- Frequency : 1~10MHz
- Element Size :  $\Phi 3\sim 20\text{mm}$
- Type : Single / Dual element straight beam

### ■ Type

- Cartridge type / Case type / Flat type / Pencil type

### ■ Usage



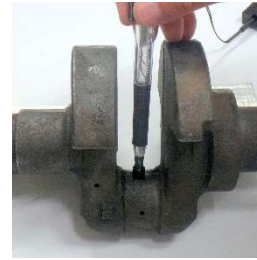
Butt welding part



Fillet welding part



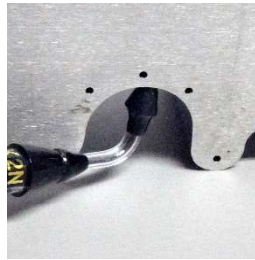
Gas-cut surface  
of the reinforcing bar



Rough surface  
of the casting



Gap area



Narrow space area



Concave surface



Convex surface

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**Ultrasonic Sensor**  
**JAPAN PROBE**

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