



**We are committed to the supply of all types of substrate wafers to the microelectronics industry**

## Force Transducer-Quartz rings

A **transducer** is a device that converts energy from one form to another. Usually a transducer converts a signal in one form of energy to a signal in another.

Transducers are often employed at the boundaries of automation, measurement, and control systems, where electrical signals are converted to and from other physical quantities (energy, force, torque, light, motion, position, etc.). The process of converting one form of energy to another is known as transduction.



our dominating products

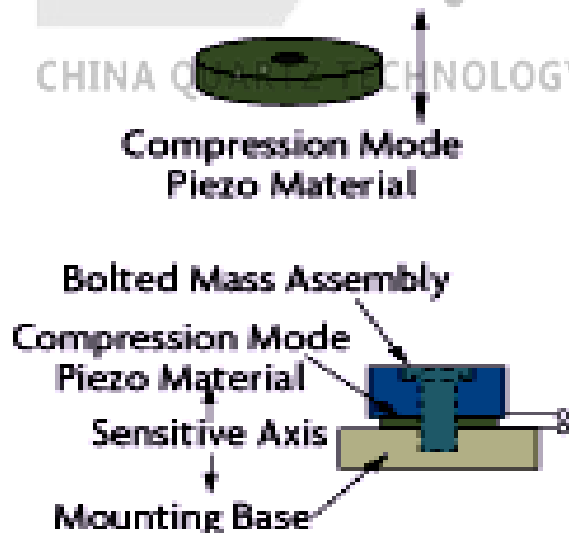
-the quartz elements or substrate for all kinds of sensor

module manufacture such as piezoelectric accelerometers, load cells, pressure transducers and impulse hammers

We control every distinct production step in the manufacture of our quartz element ,from the supply of the high Q raw quartz to the supper precise wire saws

to used to cut the primary wafers to make the most parallelism to ensure the precise measurement of signal output

Theory brief drawing:



**HANGZHOU FREQCONTROL ELECTRONIC TECHNOLOGY LTD.**

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### Our typical run specs :

hole: half hole or full hole

Cutting type: X-cut or Y-cut

Dimension: OD from 3mm to 150mm;

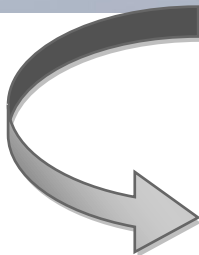
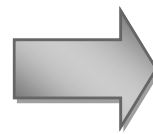
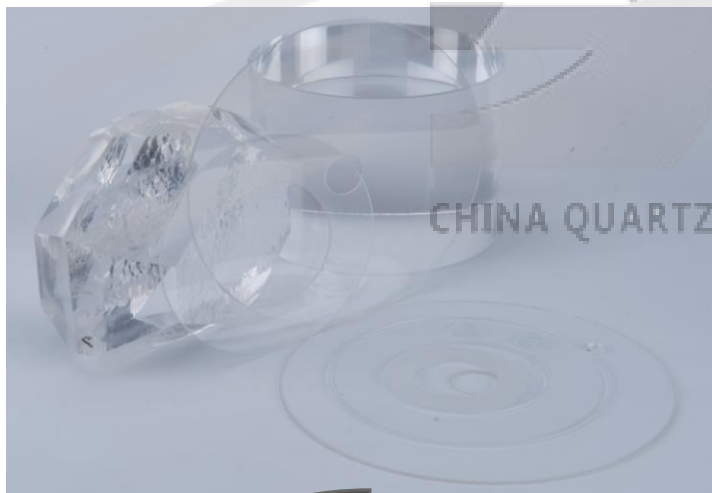
ID from 1mm to 45mm;

or square shape with hole inside.

Thickness: more than 0.10mm

Surface finished: lapped or polished

Edge: beveled and direction marked are available too.



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