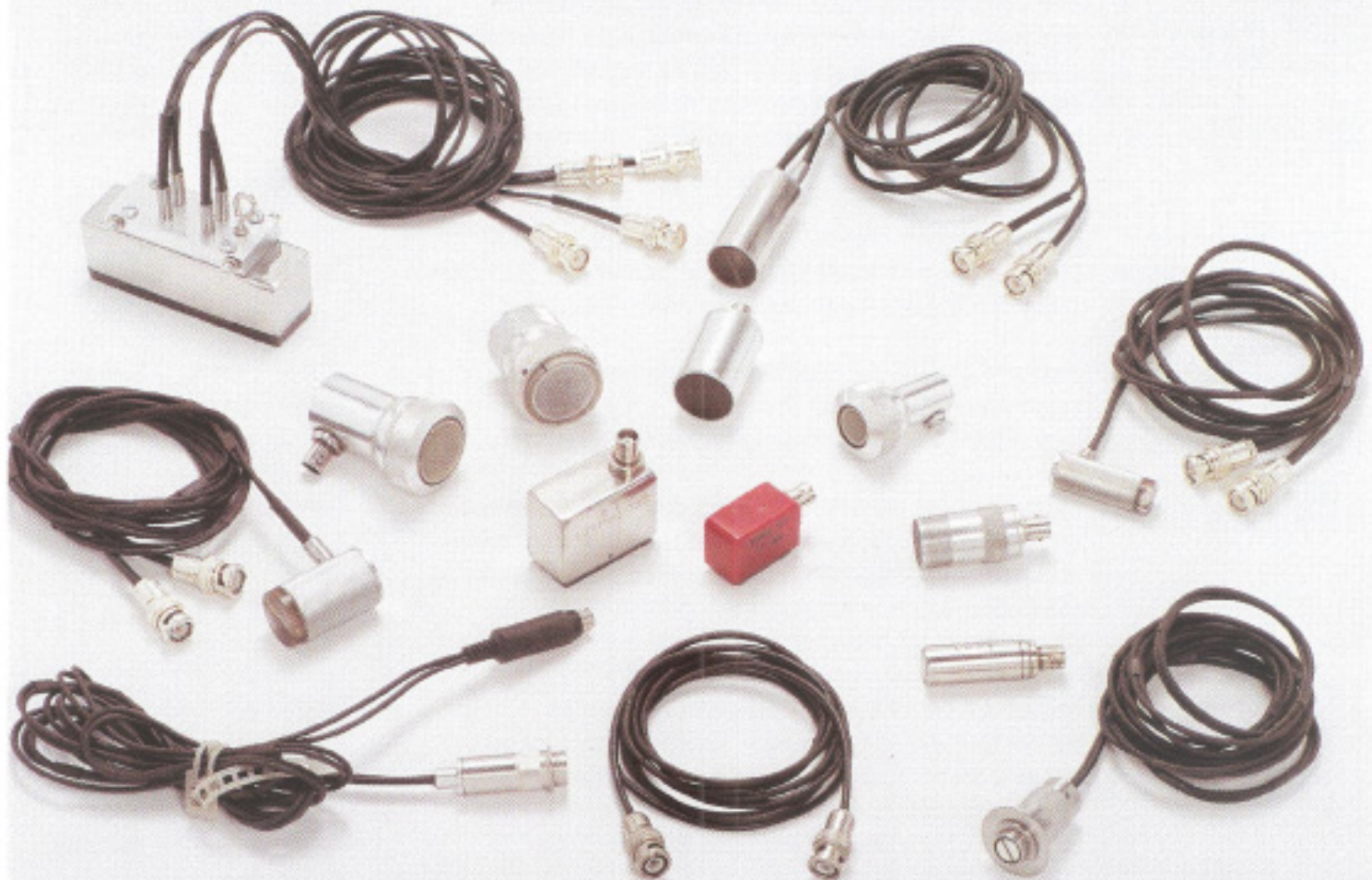


# ULTRASONIC PROBES FOR NDT APPLICATIONS



The Ultrasonic Probes manufactured by **Electrosonic Industries** use selected material with high precision for better performance for NDT application viz. Flaw Detection. They make use of PZT (lead zirconate titanate) crystals. These probes are suitable for most of the Ultrasonic Flaw Detectors available in the field. They are manufactured in various sizes, frequencies and angles to suit different applications.

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## IDT PROBES FOR ULTRASONIC TESTING

Type	Description	Size	Frequency
Single Normal Probe	These are designed for excellent sensitivity Lower frequency probe is available for better penetration. Orientation straight or at 90 deg. With BNC connector.	10 mm, 15 mm, 20 mm, 25 mm, & 10 mm	1.25 MHz to 5 MHz & 6 to 10 MHz
Double Normal Probe	These are designed for optimum resolution and excellent sensitivity. The main advantage of these probes is minimum cross talk between the elements. They are supplied with high strength flexible cable with internal anchoring and strain relief system. Large probes come with BNC connectors on the topside.	10 mm, 15 mm, 20 mm, 25 mm & 10 mm	2 MHz to 5 MHz & 5 MHz
Normal Probe with Protective membrane	Replaceable nylon caps are provided for the above normal probes for use with rough but relatively flat surfaces. They provide better coupling and minimize wear and tare of the probes.	10 mm & 24 mm dia	1, 2 & 4 MHz
Hard Face Probes	These are specially developed for use on very rough surfaces to avoid fast wear and tare. The material used for front face has very high impact resistance and is rugged to ensure extended service life.	10 mm, 15 mm, 20 mm, 25 mm	1.25 to 5 MHz
Finger Tip Probes	Fingertip probes are ideal for flaw detection in limited access area and rough surface. A very rugged small finger tip probe using hard front face material specifically designed for superior penetration, signal to noise ratio and optimum service life. Single normal or Double normal	5 mm, 8 mm & 10 mm	1 to 10 MHz
Angle Probes (37, 45, 60, 70, 80 deg.) & Surface probes	Angle beam perspex wedges design provides better transmitting and receiving properties within the wedge body, reducing spurious echoes caused by reverberation within. These wedges are replaceable with threaded normal probes as desired. The advantage with these probes is that a specimen can be tested with different angle by simply replacing the wedge. Drawback is high dead zone. They are available from 5 deg. to 30 deg. and in rectangular shape as well.	Single angle 9 x 8 mm & 20 x 22 mm  10 mm & 25 mm dia. Double angle 9 x 8 mm	1.25, 2, 4 & 5 MHz  As above

### NOTE :

- Rail track testing probes, probes for special applications are manufactured against specific requirements.
- All the probes make use of Big BNC connector
- Lemo connectors are provided on specific demand by users.

### OTHER PRODUCTS :

- ULTRASONIC CLEANERS SINGLE & MULTICHAMBER
- ULTRASONIC FLAW DETECTOR

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