

ULTRASONIC WALL THICKNESS TESTING:

- An ultrasonic thickness gauge is a measuring instrument for the non-destructive investigation of a material's thickness using ultrasonic waves.
- The usage of an ultrasonic thickness gauge for non-destructive testing to check material properties such as thickness measurement, is now regularly utilized in all areas of industrial measurements. The ability to gauge thickness measurement without requiring access to both sides of the test piece, offers this technology a multitude of possible applications, especially in pipes. Paint thickness gauge, ultrasonic coating thickness gauge, digital thickness gauges and many more options are available to test plastics, glass, ceramics, metal and other materials. Along with coating thickness its widely being used for wall thickness for Glass, Wood, plastics and also serves as major testing equipment in corrosion industry.
- A rugged ultrasonic thickness gauge determines sample thickness by measuring the amount of time it takes for sound to traverse from the transducer through the material to the back end of a part and back. The ultrasonic thickness gauge then calculates the data based on the speed of the sound through the tested sample.
- The very first ultrasonic thickness gauge was made in 1967 by Werner Sobek; a Polish engineer from Katowice. This first ultrasonic thickness gauge measured the velocity of the waves it emitted in particular test samples, it then calculated the thickness in micrometres from this speed measurement by an applied mathematical equation.