



FEATURES

- Easy setup for TOFD and X-Y C-scans inspection
- Built-in 30 dB pre-amplifier
- Compact design for field inspections
- High resolution scanner for pipes and flat surfaces
- Minimum pipe diameter 2" (50 mm)
- Magnetic wheels for easy setup
- Optional tracks for non-magnetic materials
- Built-in stoppers on X-axis to specify scan range
- Scanner arm (X-axis) selection: 12", 17" or 26"
- Easy to change scanner arms
- Two forks included for compatibility with a wide range of transducer wedges
- Optional coupling kit
- Optional extension cable up to 200'
- Available TOFD transducers up to 15 MHz
- Available probe cables with all kinds of connectors

DESCRIPTION

MT Scanner is a multi-tasking X-Y coordinate scanner for TOFD imaging and C-scan mapping. The UltraScan ultrasonic inspection system and an MT Scanner form a complete UT inspection system capable of inspecting pipes and flat surfaces as well as welds. Pipe diameters can be as small as 2 inches. The scanner's magnetic wheels are ideal for quick setup on ferrous surfaces. Optional scanner tracks allow the scanner to be used on non-magnetic materials.

There are two stoppers on the arm of the X-axis that define the endpoints of a scan range. The stoppers set up quickly and easily, providing easy back-and-forth operation.

The X-axis scan arm can be easily taken out and a TOFD scan head can be added to the front of the scanner, quickly converting from an X-Y scanner to a TOFD scanner. The UltraScan inspection system automatically detects the scanner type and sets the appropriate parameters.

A built-in water-proof pre-amplifier can be used for weak signal to provide the high quality signal for UT system. This is very helpful in some difficult testing conditions such as using 15 MHz TOFD probes and inspections on stainless steel. In addition it can be used for pulse/echo mode.

Other accessories include extension cables and coupling kits. The coupling kit consists of a water compressor, tubing, a Y-connector, and a flow-control valve. The 100-foot and 200-foot extension cables are built with differential line drivers and receivers to prevent attenuation.

The UltraScan system includes a portable computer (or laptop computer) with a pulser/receiver and high speed analog to digital converter. There are five Windows programs that make up the system: TOFD imaging, X-axis flaw mapping, Y-axis flaw mapping, thickness mapping, and multi-channel interleaving. This system detects pitting, corrosion, lack of fusion, laminations, and cracks in the tested materials. It also generates a complete report of the inspection and supports all Windows-supported languages.

SPECIFICATIONS

Scan Resolution	X Axis: 0.001" (0.03 mm) Y Axis: 0.004" (0.1 mm)	Pre-Amp Band Width	0.5 MHz to 30 MHz
Scan Range	12" Arm: 9.5" x 2815' (240mm x 858m) 17" Arm: 13.5" x 2815' (340mm x 858m) 26" Arm: 23.5" x 2815' (590mm x 858 m)	Pre-Amp Gain	30dB
Pipe Diameter	≥2" (50 mm)	Temperature Range	-20°C to 60°C ambience
TOFD Head Length	8" or 22"	Humidity	20% to condensing
		Options	-Coupling kit -TOFD transducers and wedges up to 15 MHz -Transducer cables with all kinds of connectors -100' and 200' extension cable