

# Model **TMI-150 Scanning System™**



## Features:

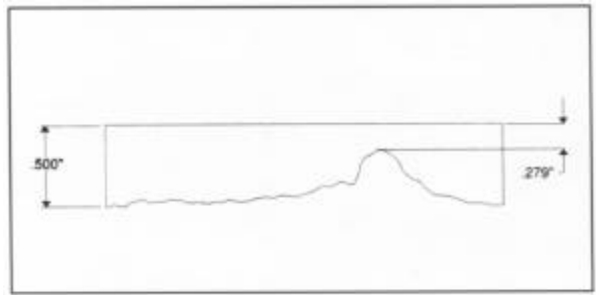
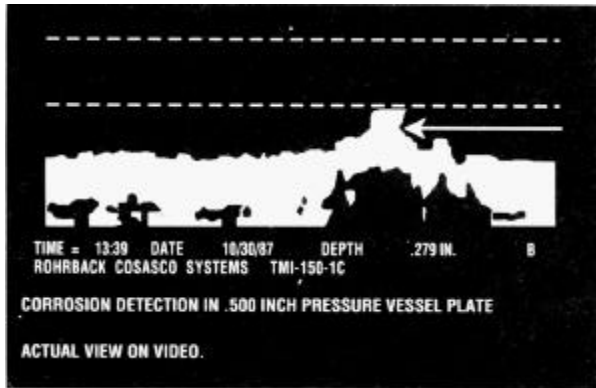
- *Cross-Sectional B-Scan*
- *On Screen Alphanumeric Annotation*
- *On Screen Digital Thickness Gauge*
- *Composite Material Testing*
- *Choice of Transducer Configuration*
- *Optional Hard Copy Printer*
  - *Video Tape Storage Capability*
  - *12 Volt U C Battery Operated*



The TMI-150 Scanning System™ is the first truly portable ultrasonic, real-time, cross-sectional imaging system for the detection and documentation of internal corrosion, laminations and inclusions in ferrous and non-ferrous materials.

The patented TMI-150 Scanning System™ provides a digitized B-Scan cross-sectional image of the material under test. Utilizing sophisticated electronics in a fully portable Ultrasonic B-Scan imaging system, the TMI-150 Scanning System™ provides cross-sectional views of the material under test under test. The easy-to-interpret image is displayed on a standard video monitor allowing for instantaneous analysis and measurement of detected flaws. Outputs to provide hard copy documentation and video tape storage of the displayed image are provided.





Corrosion pit profile on metal under test.

## PHYSICAL CHARACTERISTICS

Height ..... 7.5 Inches  
 Length ..... 21 Inches  
 Width ..... 14.5 Inches  
 Weight ..... 22 Lbs.  
 with battery ..... 35.4 Lbs.

### ORDERING INFORMATION:

The TMI-150-2 Scanning System Kit includes the following:  
 Scanhead/  
 Transducer assembly, storage/shipping case (P/N 089800), and  
 Calibration Block (P/N 089420).

089000	TMI-150-2 SCANNING SYSTEM KIT		
	<b>CODE</b>	<b>SCANHEAD TRANSDUCER TYPE</b>	
	0	½ INCH 5 MHz TRANSDUCER (STANDARD)	
	1	¼ INCH 5 MHz TRANSDUCER	
		<b>CODE</b>	<b>SCANHEAD CABLE LENGTH</b>
		50	50 FEET (STANDARD)
		100	100 FEET
<b>089000</b>	<b>0</b>	<b>50</b>	<b>Typical Part Number</b>

## Specifications

### SYSTEM CHARACTERISTICS

#### Pulsar/Receiver

Rep-Rate ..... Self Test 60 Hz  
 Rep-Rate ..... Scanhead Actuated >1 0KHz  
 Gain ..... >86dB  
 Transducer Frequency ..... 5MHz  
 Standard Thickness Range ..... 0.020 to 6 Inches  
 .79mm to 152.4mm

#### Digital Thickness Sensitivity

Greater than .005 @ 0.500 Inch depth  
 (Inch or millimeter display) or  
 Greater than .19mm @ 12.7mm depth  
 Scanhead Cable Lengths ..... Standard 50 feet  
 Optional 100 feet or 150 feet

## VIDEO OUTPUT CHARACTERISTICS

1VPP Composite Video Output  
 NTSC Standard (North American)

## ENVIRONMENTAL CHARACTERISTICS

#### Instrument:

Temperature (Storage) -40 F to +1 940F (-400C to +900C)  
 Temperature (Operating) -40 F to +1 580F (-200C to +700C)  
 Humidity (Storage) 0-100% Relative, non-condensing  
 Humidity (Operating) 0-95% Relative, non-condensing

#### Scanhead:

Temperature (Storage) -400F to +1 940F (-400C to +900C)  
 Temperature (Operating) -400F to +3500 F (-400C to +1 770C)

Prolonged use at elevated temperatures may reduce transducer life.

## POWER

### (ON BOARD/EXTERNAL)

Battery (12 VDC) Rechargeable ..... 60 Watts Max.  
 AC (90-260VAC) 50/60 Hz Charging ..... 90 Watts Max.

#### Optional Equipment:

- 089801 Mitsubishi P61U Hard-copy Recorder Kit, complete with storage/shipping case.
- 089804 Replacement Paper for Hard-copy Recorder (4 rolls).

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