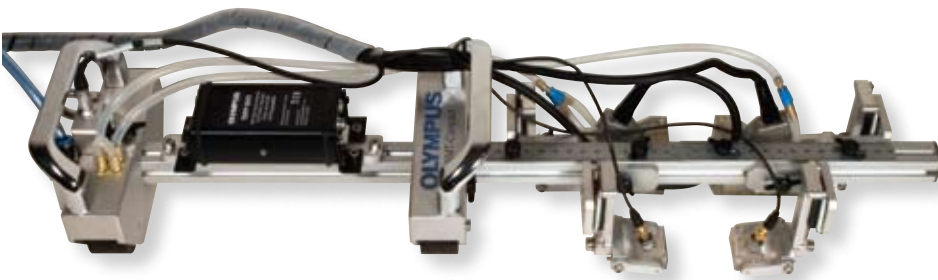




In-Service Weld Inspection Manual Scanner

The R/D Tech® HSMT-Compact is a light, small, and versatile manual one-axis encoded scanner. It can be used –with up to four probes– on plates and for circumferential scans on pipes as small as 4 in. schedule (4.5 in. OD). The scanner length can be changed and the frame can extend outside the limit of the wheels, providing a configuration that is well suited for hard-to-reach places such as pipe-to-component welds.

The HSMT-Compact completes the HSMT family. While the HSMT-Flex and HSMT-X03 are designed for construction welding inspection, the HSMT-Compact is designed for maintenance weld inspection.



Configurations

A typical configuration includes two phased array probes and a pair of TOFD probes, to comply with ASME code.

Other configurations include:

- 1 pair of TOFD probes
- 2 pairs of TOFD probes
- 2 PA probes



Features:

- Circumferential scan on 4 in. schedule pipes (4.5 in. OD), or greater
- Magnetic wheels hold the unit against a ferromagnetic inspection surface.
- Light aluminum frame with customizable length
- Frame design allows probes to be positioned outside the wheels.
- Support up to 4 probes on pipes or flat surfaces
- Fully adjustable probe positioning
- Independently spring-loaded probe holders
- Waterproof, spring-loaded encoder
- Removable handles
- Eyelet for umbilical or lanyard attachment
- Water manifold integrated into the scanner frame
- Metric/U.S. rulers on the scanner for easy probe separation measurement

HSMT-Compact Kit Includes:

- Scanner frame with handles
- Additional frame bars: 250 mm (10 in.), 450 mm (18 in.) and 650 mm (26 in.)
- Four magnetic, plastic-covered wheels
- Waterproof, spring-loaded wheel encoder
- OmniScan-compatible encoder with 5 m cable
- Four 90° probe holder brackets
- Four spring-loaded arms (SLA)
- Four TOFD/PE yokes (31.75 mm)
- Two phased array yokes (40 mm)
- Irrigation tubing and accessories
- Two metric/U.S. rulers
- Hard carrying case

Note: Probes and wedges are not included in the basic kit.

Options

Probes and Wedges

Refer to tables below.

Manual Water Pump Kit

Water pump is compatible with scanner umbilical cables. It can also be used with provided tubing. Includes tank, tubing, and Y-splitters (part number: OPIX105).

TRPP 5810 Remote Pulser/Preamplifier

Four-channel 40 dB Remote Pulser/Preamplifier with LEMO® connectors to amplify probe and instrument output signals. Using the TRPP 5810 and composite probes enhances the S/N ratio in TOFD inspections



TRPP 5810 kit includes:

(part number: TRPP-5810-KIT01)

- TRPP 5810 Remote Pulser/Preamplifier (1)
- 0.6 m LEMO (00) to Microdot® RG174 cable for probe connection (4)
- Transformer (120 VAC to 240 VAC input to 12 VDC output) with 5 m power supply cable (1)
- 5 m power supply cable for connection to an OmniScan (1)
- Mounting brackets for the HSMT scanner family (2)
- Hard carrying case (1)
- 5 m power supply cable for connection to a TomoScan FOCUS LT (optional)

Probe and Wedge Ordering Information

Phased Array Probes					
Part number	Frequency (MHz)	Elements	Wedge	Cable length (m)	Connector type
5L16-A1	5.0	16	SA1	2.5	OmniScan
10L32-A1	10.0	32	SA1	2.5	OmniScan
5L64-A2	5.0	64	SA2	2.5	OmniScan
5L60-PWZ1	5.0	60	SPWZ1	2.5	OmniScan
7.5L60-PWZ1	7.5	60	SPWZ1	2.5	OmniScan

Phased Array Wedges				
Part number	Type of beam	Refracted angle (°)	Wave type	Probe type
SA1-N60S-IHC	Normal	60	Shear	A1
SA2-N55S-IHC	Normal	55	Shear	A2
SPWZ1-N55S-IHC	Normal	55	Shear	PWZ1

UT Probes				
Part number	Frequency (MHz)	Element diameter (mm)	Wedge	Connector type
C549-SM	2.25	9.5	SPE2	Microdot
C550-SM	3.5	9.5	SPE2	Microdot
C551-SM	5.0	9.5	SPE2	Microdot

UT Wedges		
Part number	Refracted angle (°)	Wave type
SPE2-45S-IHC	45	Shear
SPE2-60S-IHC	60	Shear
SPE2-70S-IHC	70	Shear

TOFD Probes				
Part number	Frequency (MHz)	Element diameter (mm)	Wedge	Connector type
C542-SM	2.25	6.0	ST1	Microdot
C543-SM	5.0	6.0	ST1	Microdot
C563-SM	10.0	3.0	ST1	Microdot
C544-SM	10.0	6.0	ST1	Microdot
C540-SM	2.25	12.5	ST2	Microdot
C541-SM	5.0	12.5	ST2	Microdot

TOFD Wedges		
Part number	Refracted angle (°)	Wedge option
ST1-45L-IHC	45	IHC
ST1-60L-IHC	60	IHC
ST1-70L-IHC	70	IHC
ST2-45L-IHC	45	IHC
ST2-60L-IHC	60	IHC
ST2-70L-IHC	70	IHC

Note: IHC refers to wedges with optional irrigation, holes, and carbide wear pins.



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