

Multi-Finger Imaging Tool MFI



DESCRIPTION

The Multi-Finger Imaging Tool has been designed to provide the most accurate Pipe ID caliper measurements in the industry. The high quality output data allows for 3-D imaging and calculation of corrosion, penetration, or scale deposition.

The MFI tool can be combined with any other tool in the GDTbus suite using a Wireline Telemetry Cartridge(SRO) or Downhole Memory Cartridge(Memory).

All MFI tools have a built-in orientation sensor that allow for relative bearing and deviation data correction. Temperature correction is hardware based so no software drift files are needed. The mechanical design allows for easy finger replacement in the field.

APPLICATIONS

- Tubular damage analysis
- Perforation mapping
- Quantification of scale build up and corrosion
- Accurate location mapping of holes and anomalies
- Large casing (up to 21") inspection with extension kit

SPECIFICATIONS

PROTOCOL	GDTbus		
DIAMETER	1-11/16" (43mm)	2-7/8" (73mm)	4" (102mm)
MAX. TEMPERATURE	350°F (175°C)		
MAX. PRESSURE	15,000psi (100MPa)		
LENGTH	49.88" (1267mm)	58.2" (1479mm)	60.51" (1537mm)
FINGERS	24	40	60
VOLTAGE	18VDC		
CURRENT	25mA	30mA	30mA
MOTOR CURRENT	<300mA		
PIPE RANGE	1-3/4" to 7"	3" to 8.25"	4-1/2" to 9-5/8"
ACCURACY	±0.03"	±0.03"	±0.03"
VERTICAL RESOLUTION	0.082"	0.110"	0.167"
RADIAL RESOLUTION	0.003"	0.005"	0.005"
FINGER FORCE	0.75lbs-1.25lbs (.34kg-.57kg)		
INCLINOMETER	±4.5°		
LOGGING SPEED	30ft/min (10m/min)		

