



MAGNETIC THICKNESS DETECTOR (MTD)

The Magnetic Thickness Detector (MTD) is a 1-11/16 in O.D electromagnetic corrosion measuring instrument primarily run through tubing with the unique ability to simultaneously inspect tubing and the casings behind it. The integrity of the casing string can be evaluated with neither the requirement for costly workover rig, nor the time-consuming removal of the tubing completion.



GOWELL's MTD tool is capable of evaluating quantitative thickness measurements up to three concentric pipes. The state-of-the-art instrument combines a high power transmitter, improved signal-to-noise (SNR) electronics and fully configurable acquisition. This flexible approach allows a wide range of evaluations under different conditions and conveyance systems.

A simple engineer selection of the functional mode allows features such as:

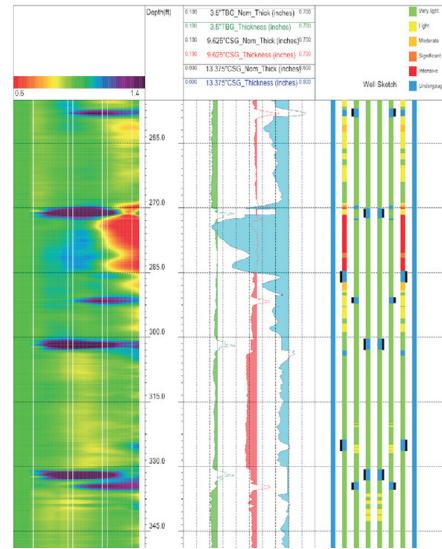
- Log up to 18-5/8 in. casing
- Simple mode selection
- Fast logging of single strings

The tool samples the pulsed eddy current transient decay response every 1ms for a duration controlled by the logging mode. This data can be transmitted real-time to surface or stored downhole during memory logging as the MTD tool is fully PegasusStar compatible.

When run with our PegasusStar platform, the MTD is fully combinable with Multi Finger calipers (MFC), Gamma-Ray/Temperature/CCL (GTC) and our Digital Radial Bond Tool (RBL). The combination provides a comprehensive evaluation of the well integrity, providing accurate thickness information for multiple pipe strings as well as the cement bond quality information for multiple pipe strings

FEATURES & APPLICATIONS

- Slim tool with 1-11/16 in. O.D.
- Combinable with all Pegasus Series Tools
- Quantitative 3 pipe thickness evaluation
- Pre-job planner tool with forward modeling module
- Fully configurable tool caters to a wide range of downhole conditions.
- Processing with user friendly module of ViewWell™ Well Integrity Platform
- Warrior Compatible
- Compliant to NACE MR0175/ISO 15156-2015 for sour service version
- Up to 20305 PSI maximum working pressure for high pressure version





MAGNETIC THICKNESS DETECTOR (MTD)

SPECIFICATIONS

MTD43C-G	MTD43J-A	MTD43D-A
P/N 1.01.04.100514760	P/N 1.01.04.300001275	P/N 1.01.04.300002164
STANDARD TOOL	SOUR SERVICE TOOL	HIGH PRESSURE TOOL
GENERAL SPECS		
Maximum Pressure	15,000 PSI (103MPa)	15,000 PSI (103MPa)
Maximum Temperature	350°F (177°C)	350°F (177°C)
Diameter	1-11/16 in. (43 mm)	1-11/16 in. (43 mm)
Length	48.62 in. (1235 mm)	48.62 in. (1235 mm)
Weight	13.2 lbs (6 kg)	13.2 lbs (6 kg)
Recommended Logging	4 ft/min to 12 ft/min	
Measuring Range	2.362 in. ~ 18.625 in. (60 mm ~ 473.1 mm)	
Total Pipe Wall Thickness	1.75 in. (44.4 mm)	
First Pipe Measurement		
Maximum Pipe Wall Thic-	0.9 in. (22.86 mm)	
Precision	0.0075 in. (0.190 mm)	
Second Pipe Measurement		
Maximum Pipe Wall Thic-	1.2 in. (30.48 mm)	
Precision	0.01 in. (0.254 mm)	
Third Pipe Measurement		
Maximum Pipe Wall Thic-	1.5 in. (38.1 mm)	
Precision	0.06 in. (1.52 mm)	