








Electro-Magnetic Interference Tool (EMIT)

OVERVIEW

The Electromagnetic Thickness Tool (EMIT-D/E) is an electromagnetic defectoscope for wireline operation. The tool is designed to detect the metallic damage of casings and to measure the remaining wall thickness, damage, and corrosion. It can accurately indicate the column structure and the location of tools in the downhole.

APPLICATIONS

-  Measure the remaining wall thickness in multi-casing in one run
-  Determination of the type of damage, pits, penetrations, cracks, transverse or longitudinal
-  Determination of inner casing penetration
-  Locating casing collars
-  Measuring casing thru-tubing
-  High-sensitive thermometer
-  Steel pipe de-fetoscopy for measuring both transverse and longitudinal defects (EMIT-EA)



SPECIFICATIONS (EMIT-D series)

Parameters	Description
Model	EMIT-DA
Max Work Temperature	175°C
Max Work Pressure	100MPa
Tool OD	Φ43mm (1 11/16")
Tool Length	2000mm
Logging Speed	350m/h
Applicable Range	63mm-324mm Casing (Tubing)
Measuring Accuracy	0.5mm (single pipe) 1.5mm (double pipes)
Min Axial Detectable "Crack" Length	40mm (2.5" single pipe) 50mm (5.5" single pipe)
Min Detectable "Transversal Crack" Length	1/6 of the perimeter
Detection Range of Single Casing	3-12mm
Detection Range of Double Casing	Max. 25mm

SPECIFICATIONS (EMIT-E series)

Parameters	Description
Model	EMIT-EA
Max Working Temperature	150°C
Max Working Pressure	100MPa
Tool OD	Φ43mm (1 11/16")
Tool Length	1,850mm
Tool Weight	About 10kg
Temperature Resolution	0.01°C
Thermometer Time Constant	0.5s
Measuring Accuracy	±0.3mm (2.5" single pipe) ±0.4mm (5" single pipe) ±0.7mm (5" thru-tubing casing)
Min Detectable "Axial Crack" Length	15 (2.5") 30 (5" single pipe) 70 (5" through-tubing casing)
Min Detectable "Transversal Crack" Length	1/8 of the perimeter