GLOBAL DOWNHOLE TOOLS

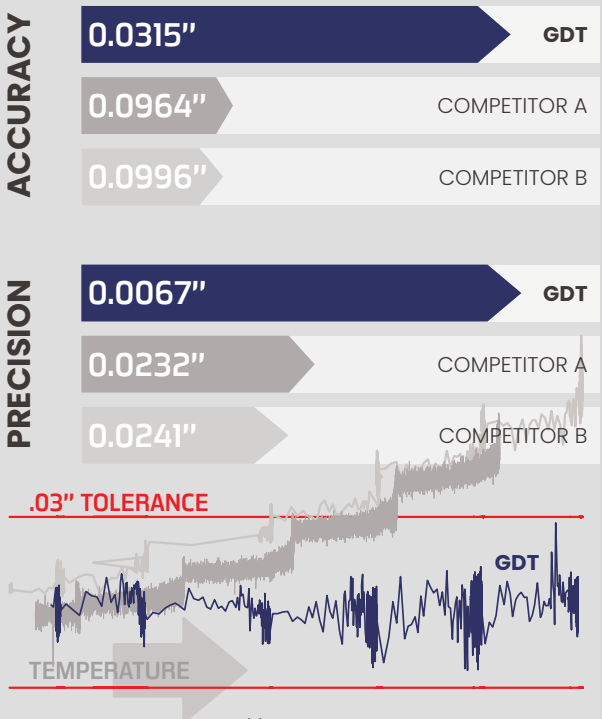
MFI 24/40/60 MULTIPLE FINGER INSPECTION

HIGH SPEED

160

SAMPLES/FT

PERFORMANCE



*Calculated from 24 finger tool(s) average inner diameter reading through 350°F temperature drift @ 45" soak periods @ 50°F steps.

DESIGN

Global Downhole Tools leverages their ability to vertically integrate the tool manufacturing process to build tools for the oil and gas market. By controlling the sensor, mechanical, and electrical design, GDT can raise the standard for data acquisition in the cased-hole wireline market. For the MFI, the **larger sensor design** combined with **integrated drift correction** allows for better tool accuracy and precision while under temperature in a well.

BENEFITS

Global Downhole Tools uses an advanced bus architecture to enable any combination of tools to be run simultaneously in **real time** (SRO) or in **memory** configuration. The **easy change** caliper fingers are independent from the positional sensors to remove the requirement of temperature drift calibration files. **Well conditions** are **corrected downhole** without operator intervention. The result is an accurate, precise, high speed log with almost **no configuration needed.**

GET IN TOUCH

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Multi-Finger Imaging Tool
MFI

GLOBAL DOWNHOLE TOOLS

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	GDTa		
DIAMETER	1-11/16" (43mm)	2-7/8" (73mm)	4" (102mm)
MAX. TEMPERATURE	350°F (175°C)		
MAX. PRESSURE	15,000psi (103MPa)		
LENGTH	57.48" (1460mm)	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	±4.5º		