



TECHNICAL DATA SHEET

MFC40

Multi-finger Caliper (40 finger)

The 40 sensor Multi-Finger Caliper (MFC40) is used to log the internal surface of tubing or casing, providing highly accurate measurements of the profile of the internal well-bore geometry and barrier condition.

Through its high resolution and high data density measurement the MFC40 provides a continuous map of the well’s internal surface delivering detailed understanding of downhole geometries and barrier condition.

The tool includes a sensor, to ensure features can be orientated during data processing and an enhanced 3D image of the wellbore produced. An internal motor is activated from the surface logging system or by the memory/battery tool to open the fingers downhole prior to logging.

Applications

- Casing/tubing corrosion and erosion evaluation
- Drilling wear evaluation of casing
- Plug and packer setting depth assurance
- Scale build-up and removal quantification
- Perforation hole mapping
- Evaluation of condition of completion items
- Time lapse studies and life of well projections
- Well access modelling

Benefits

- Improved understanding of well integrity from high-density, high-precision measurements of tubular dimensions
- Compact or extended fingers available for greater range and flexibility
- Deployable on Slickline, Electric line, Coil Tubing and Tractor
- Suitable for all well deviations including horizontal
- Comprehensive range of log analysis and report services available from READ ANSA





Specifications

	Compact fingers	Extended fingers
Temperature rating	350°F (177°C)	
Pressure rating	20,000 psi (137.9 MPa)	
Tool diameter	2.75 in (70 mm)	
Tool length	66 in (1.68 m)	
Tool weight	70 lb (31.75 kg)	
Measurement range	2.75 – 7.0 in (76 – 178 mm)	2.75 – 10.0 in (76 – 254 mm)
Accuracy, radial	±0.020 in (0.508 mm)	±0.025 in (0.635 mm)
Resolution, radial	0.0015 in (0.04 mm)	0.0022 in (0.06 mm)
Finger tip width	0.064 in (1.63 mm)	
Finger contact force	0.75 – 1.25 lbf (3.4 – 5.7 N)	
Logging speed	Recommended: 30 ft/min (10 m/min) Maximum: 60 ft/min (20 m/min)	
Nominal Casing/Tubing range	3 1/2 – 7 3/4 in	3 1/2 – 10 3/4 in
Materials	Corrosion resistant throughout	

