



TECHNICAL DATA SHEET

MFC 80

Multi-finger Caliper (80 finger)

The 80 Sensor Multi-finger Caliper Tool (MFC80) is the only one of its kind and is unique to READ Cased Hole. It is designed to log up to 20” casing, and was developed to meet industry well integrity requirements, enabling operators to gain an accurate insight into the condition of surface casing as well as undertake effective pressure testing.

Through its high resolution and high data density measurement the MFC80 provides a continuous map of the wells internal surface. Commissioned by READ this unique technology provides a fit for purpose integrity evaluation solution for larger diameter casings and conductors.

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 to open the fingers downhole prior to logging.

APPLICATIONS:

- Casing & Surface Conductor corrosion, erosion and drilling wear evaluation
- Plug/Packer setting depth assurance
- Scale build-up and removal quantification
- Time-lapse and life of well studies
- Deformation studies and 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 Electric line, intelligent Coil Tubing and Tractor
- Suitable for all well deviations including horizontal
- Comprehensive range of log analysis and report services available from READ

Specifications

	Compact fingers	Extended fingers
Temperature rating	350°F (177°C)	
Pressure rating	15,000 psi (103 MPa)	
Tool diameter	8 in (203mm)	
Tool length	48.6 in (1.23m)	
Tool weight	98.1 lb (44.5 kg)	
Measurement range	8 - 14 in (203 - 355 mm)	8 - 20 in (203 - 508 mm)
Accuracy, radial	±0.05 in (±1.27 mm)	
Resolution, radial	0.014 in (0.356 mm)	0.03 in (0.762 mm)
Finger tip width	0.064 in (1.63 mm)	
Logging speed	Recommended: 30 ft/min (10 m/min) Maximum: 60 ft/min (20 m/min)	
Nominal Casing/Tubing range	9 ⁵ / ₈ - 13 ⁵ / ₈ in	9 ⁵ / ₈ - 20 in
Finger contact force	Corrosion resistant throughout	