

The 1517 Multifinger Caliper (MFC60) is used to sense deposits like scale, holes, corrosion or mechanical damage inside pipe. 60 motorized fingers measure accurately pipes of up to a diameter of 20". One centralizer above and one below must support the tool during logging. Multifinger calipers are specially useful when acoustic measurements cannot be run, such as in gas wells or in heavy mud. The ANTARES GeoBase 3D-Log View interactive software allows the user to quickly visualize the acquired data in a graphic form to easily detect damaged areas where repair work may be required.

Specifications

Diameter:	95 mm	(3.75")	Sensors:	60-Fingers (LVDT)
Length:	1,598 mm	(62.9")		Sensor Temperature
Weight:	30 kg	(66 lbs)		Accelerometer (X,Y,Z)
Max. Temp.:	175 °C	(347 °F)	Measure Points (from bottom):	
Max. Press.:	100 MPa	(15 kpsi)	RAD:	325 mm (12.80")
Telemetry required: 0929				
Top Connector: ANTARES Toolbus CH				
Bottom Connector: ANTARES Toolbus CH				

Measuring Parameters:

Measuring Range:	Accuracy:
RAD w/9.6" fing.: 95 to 254 mm (3.75" to 10.00")	RAD: ± 0.60 mm (± 0.024")
RAD w/13.6" fing.: 95 to 360 mm (3.75" to 14.17")	Resolution:
RAD w/20" fing.: 95 to 530 mm (3.75" to 20.87")	RAD: 0.075 mm (0.003")

Recommended Logging Parameters:

Min. Pipe ID:	121 mm (4.75")	Logging Speed:	
Max. Pipe OD		Real time:	Up to 5.5 m/min (1,080 ft/hr)
w/9.6" fingers:	244 mm (9.63")	Hybrid/Mem:	Up to 12 m/min (2,360 ft/hr)
w/13.6" fingers:	346 mm (13.63")	Sample Rate:	Selectable
w/20" fingers:	508 mm (20.00")		

Standard Curves

RAD1 to RAD60	in mm or in	60 independent radii
MinRAD	in mm or in	Minimum Radius
MaxRAD	in mm or in	Maximum Radius
AverageRAD	in mm or in	Average Radius
Deviation	in deg	Inclination of the Borehole
Rel Bearing	in deg	Relative Bearing of RAD1
Ecc	in mm or in	MFC Eccentricity

Combinability

With all ANTARES combinable C/H Instruments and memory adapter.

