



# MULTI-FINGER CALIPER (MFC) HIGH PRESSURE TOOLS

Multi-Finger Caliper tools provide direct, accurate and reliable measurements of internal tubing and casing diameters. Used in both drilling and production environments, applications include the evaluation of corrosion, erosion, wear, bending, buckling, pits, holes and other defects with high accuracy. Measuring fingers move radially along the inner casing or tubing wall, detecting any diameter change. This produces a high resolution record of the tubular geometry which can be viewed and presented as a conventional log, a cross section, or a 3-D color enhanced image.

The Multi-Finger Caliper may also be used to measure the buildup of scale, paraffin or other mineral deposits in the wellbore. Auxiliary measurements include an integral wellbore temperature probe, along with deviation and relative bearing information. A range of instrument diameters with different finger arrays are available to provide optimized measurements in tubulars ranging from 2-3/8 in. to 16 in. diameter.

## APPLICATIONS & FEATURES

- Available in 24, 40, and 56 fingers
- Extended fingers available
- Combinable with all Pegasus Series Tools
- Compatible with PegasusStar Cased Hole Logging Platform
- Has built-in 3-axis accelerometer to provide Well Deviation and Finger position (relative bearing)
- ViewWell™ Compatible for analysis and reporting
- Up to 20000 PSI maximum working pressure



MFC24D-A



MFC40D-A



MFC56D-A



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## SPECIFICATIONS

		MFC24D-A	MFC40D-A	MFC56D-A
<b>GENERAL SPECS</b>		P/N 1.01.03.300002560	P/N 1.01.03.300002415	P/N 1.01.03.300002466
Maximum Pressure		20000 PSI (138 Mpa)		
Maximum Temperature		347 °F (175 °C)		
Diameter		1-11/16 in. (43 mm)	2-7/8 in. (73 mm)	3-1/2 in. (90 mm)
Makeup Length		61.3 in. (1557 mm)	59.98 in. (1524 mm)	65.45 in. (1662 mm)
Shipping Length		64.57 in. (1640 mm)	63.25 in. (1606 mm)	68.72 in. (1745 mm)
<b>CALIPER MEASUREMENT</b>				
Number of arms		24 arms	40 arms	56 arms
STD	Minimum, Diameter	2 in. (51 mm)	3.50 in. (89 mm)	4 in. (101.6 mm)
	Maximum, Diameter Accuracy, Radial	7 in. (177.8 mm) ±0.02 in. (0.5 mm)	8.26 in. (210 mm) ±0.02 in. (0.5 mm)	9-5/8 in. (244.5 mm) ±0.02 in. (0.7 mm)
XF	Minimum, Diameter	2 in. (51 mm)	3.50 in. (89 mm)	4 in. (101.6 mm)
	Maximum, Diameter Accuracy, Radial	9-5/8 in. (244.5 mm) ±0.035 in. (0.89 mm)	9-5/8 in. (244.5 mm) ±0.035 in. (0.89 mm)	13-3/8 in. (340 mm) ±0.032 in. (0.81 mm)
XXF	Minimum, Diameter	N/A		4 in. (101.6 mm)
	Maximum, Diameter Accuracy, Radial	N/A		16 in. (406.4 mm) ±0.045 in. (1.14 mm)
Sensor Type		Linear Displacement sensor		
<b>INCLINATION MEASUREMENT</b>				
Minimum		0°		
Maximum		180°		
Accuracy		±5.0°		
<b>RELATIVE AZIMUTH MEASUREMENT</b>				
Minimum		0°		
Maximum		360°		
Accuracy		±5.0° (Dev≥5.0°)		
<b>VERTICAL RESOLUTION</b>				
Typical Logging Speed		32 ft/min (600 m/h)		
Vertical Resolution @ 600m/h		0.12 in. (3.05mm)		
<b>BUILDIN CENTRALIZER</b>				
Buildin Centralizer		NONE		