



MULTI-FINGER CALIPER (MFC)

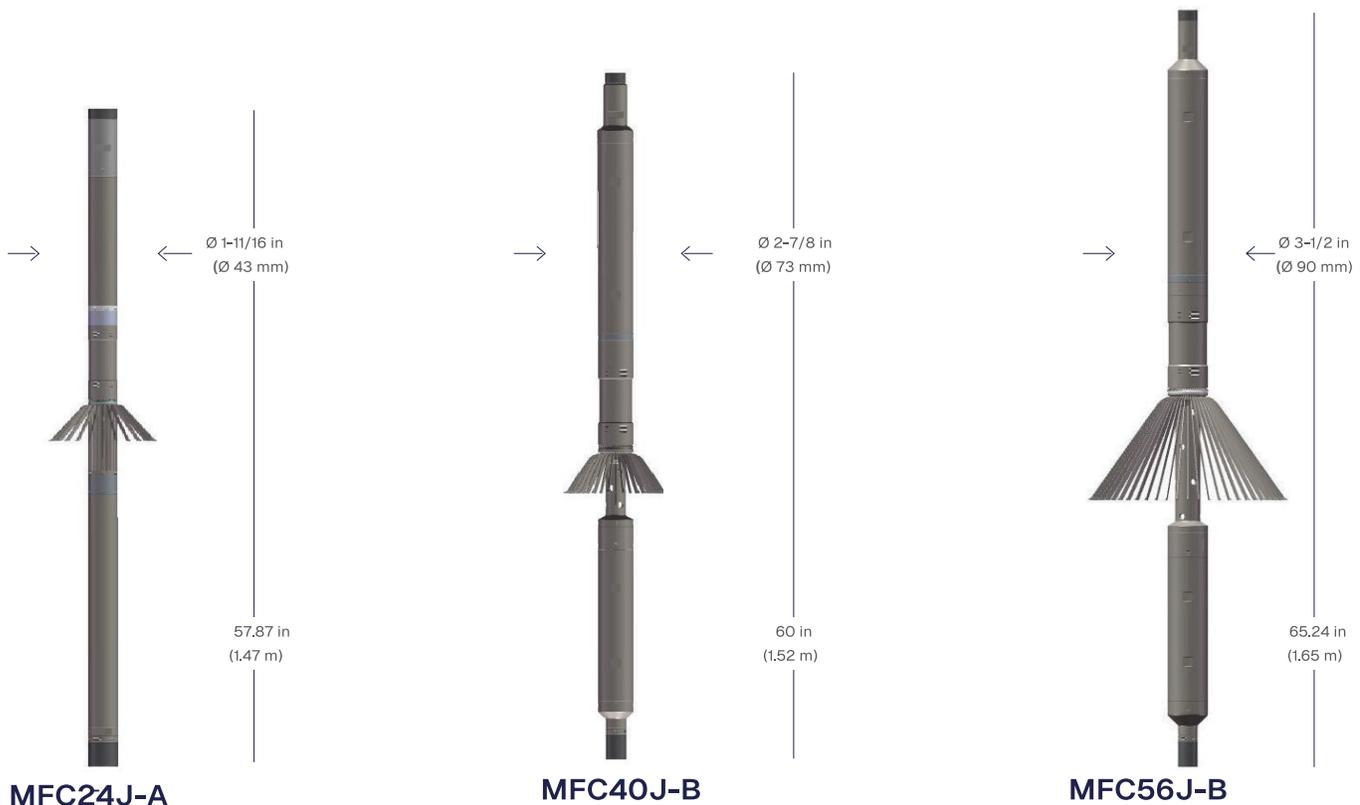
SOUR SERVICE TOOLS

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 for surface readout and memory operations
- Has built-in 3-axis accelerometer to provide Well Deviation and Finger position (relative bearing)
- ViewWell™ Compatible for analysis and reporting
- Compliant to NACE MRO175/ISO 15156-2015





MULTI-FINGER CALIPER (MFC) SOUR SERVICE TOOLS

SPECIFICATIONS

		MFC24J-A	MFC40J-B	MFC56J-B
GENERAL SPECS		P/N 1.01.03.100516686	P/N 1.01.03.100520573	P/N 1.01.03.100520562
Maximum Pressure		15000 PSI (103 Mpa)		
Maximum Temperature		350 °F (175 °C)		
Diameter		1.69 in. (43 mm)	2.87 in. (73 mm)	3.54 in. (90 mm)
Makeup Length		57.87 in. (1.47 m)	59.98 in. (1.52 m)	65.24 in. (1.65 m)
Shipping Length		61.14 in. (1.55 m)	63.25 in. (1.60 m)	68.50 in. (1.73 m)
Weight		26.5 lbs (12kg)	44.1 lbs (20kg)	59.5 lbs (27kg)
Max Tensile Strength		10000lbf		
Material		Titanium Alloy/Inconel		
CALIPER MEASUREMENT				
Number of arms		24 arms	40 arms	56 arms
STD	Minimum, Diameter	2 in. (51 mm)	3.5 in. (89 mm)	4 in. (101.6 mm)
	Maximum, Diameter	7 in. (178 mm)	8-1/4 in. (209.6 mm)	9-5/8 in. (244.5 mm)
	Accuracy, Radial	±0.02 in. (0.5 mm)	±0.02 in. (0.5 mm)	±0.02 in. (0.5 mm)
	Resolution	0.0039 in. (0.1mm)	0.0039 in. (0.1mm)	0.0039 in. (0.1mm)
EF	Caliper Measure Point	27.87 in. (0.70 m)	21.87 in. (0.55 m)	26.33 in. (0.66 m)
	Minimum, Diameter	2 in. (51mm)	3.5 in. (89 mm)	4 in. (101.6 mm)
	Maximum, Diameter	9-5/8 in. (244.5 mm)	9-5/8 in. (244.5 mm)	13-3/8 in. (340 mm)
	Accuracy, Radial	±0.035 in. (0.89 mm)	±0.035 in. (0.89 mm)	±0.035 in. (0.89 mm)
EXF	Resolution	0.005 in (0.13mm)	0.005 in (0.13mm)	0.005 in (0.13mm)
	Caliper Measure Point	26.18 in. (0.66 m)	20.56 in. (0.55 m)	23.20 in. (0.59 m)
	Minimum, Diameter	N/A		4 in. (101.6 mm)
	Maximum, Diameter	N/A		16 in. (406.4 mm)
Accuracy, Radial		N/A		±0.045 in. (1.14 mm)
Resolution		N/A		0.005 in (0.13mm)
Caliper Measure Point		N/A		20.72 in.
Sensor type		Linear Displacement sensor		
INCLINATION MEASUREMENT				
Minimum		0°		
Maximum		180°		
Accuracy		±5.0°		
RELATIVE AZIMUTH MEASUREMENT				
Minimum		0°		
Maximum		360°		
Accuracy		±5.0° (Dev≥5.0°)		
VERTICAL RESOLUTION				
Typical Logging Speed		32 ft/min (600 m/h)		
Vertical Resolution @ 600m/h		0.12 in. (3.05mm)		
BUILDIN CENTRALIZER				
Buildin Centralizer		NONE		