



CASED HOLE LOGGING Multi-Finger Caliper

Spartek Systems specializes in providing the oil and gas industry with high quality data to monitor well performance and diagnose potential problems. Founded in 1994, Spartek Systems leads the industry in providing cost effective solutions for acquiring reliable well integrity data.



Product Overview

The Multi-Finger Caliper (MFC) has 24 to 60 high resolution calipers which measures the internal radii of the wellbore tubing and casing. Accurate measurements can be made in tubular sizes from 1.75 inches to 9.63 inches in diameter. The MFC uses a series of “contactless” displacement sensors and a corresponding number of measurement fingers. When moving along the inner casing wall, the radial displacement will be changed into an axial displacement of the sensor, which is then processed, coded, and transferred to surface system where the image of the casing will be obtained.

The MFC can be used to detect casing deformation, bending, fractures, holes, scale deposition, paraffin build-up, and inner wall corrosion with high accuracy.

- ▶ 24/40/60 Arms
- ▶ Max, Min, and Average borehole diameter curves
- ▶ Tool Deviation
- ▶ Relative azimuth
- ▶ Real-time chamber temperature
- ▶ Real time interpretations

Features and Applications

- ▶ Internal tubing and casing inspection
- ▶ 3D visualization tools aids interpretation of the data:
 - ◆ Verifying well construction
 - ◆ Mapping perforations
 - ◆ Identifying casing drilling damage
- ▶ Easy assembly and disassembly for preventive maintenance and repair
- ▶ Hardened finger tip for long service life
- ▶ Combinable with Memory Controller or SRO Telemetry for memory or E-Line operations.
- ▶ Compatible with the “Spartek” or “Warrior” logging systems.

SPARTEK SYSTEMS

Providing Our Customers With “Best In Class” Technology

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Specifications:

	MFC24C	MFC40C	MFC60C
Pressure (maximum)	15,000 psi (103 MPa)	15,000 psi (103 MPa)	15,000 psi (103 MPa)
Temperature (maximum for 2 hrs)	347° F (175° C)	347° F (175° C)	347° F (175° C)
Diameter	1.688 in (43 mm)	2.75 in (70 mm)	4.00 in (102 mm)
Length	4.49 ft (1.370 m)	5.16 ft (1.574 m)	5.36 ft (1.632 m)
Make Up Length	4.16 ft (1.267 m)	4.85 ft (1.479 m)	5.04 ft (1.537m)
Measure Point Caliper (from bottom)	2.13 ft (0.650 m)	1.77 ft (0.539 m)	1.77 ft (0.5406 m)
Weight	16.1 lbs (7.3 kg)	47.78 lbs (21.5 kg)	68.89 (31 kg)
Caliper Measurement			
Number of arms	24	40	60
Measurement Range			
Minimum	1.77 in (45 mm)	3.00 in (76.2 mm)	4.50 in (114.3 mm)
Maximum	7.09 in (180 mm)	7.50 in (190.5 mm)	9.63 in (244.6 mm)
Accuracy	±0.03 in (0.76 mm)	±0.03 in (0.76 mm)	±0.03 in (0.76 mm)
Resolution	±0.003 in (0.076 mm)	±0.005 in (0.127 mm)	±0.007 in (0.178 mm)
Deviation Measurement			
Measurement Range	0° to 180°	0° to 180°	0° to 180°
Accuracy	±4.5°	±4.5°	±4.5°
Resolution	±0.1°	±0.1°	±0.1°
Relative Bearing Measurement			
Measurement Range	0° to 360°	0° to 360°	0° to 360°
Accuracy	±5.0°	±5.0°	±5.0°
Resolution	±0.1°	±0.1°	±0.1°
Data Acquisition			
Logging Speed	30 ft/min (10 m/min)	30 ft/min (10 m/min)	30 ft/min (10 m/min)
Power Requirements			
Input Voltage (DC)	12 Volts (±10%)	12 Volts (±10%)	12 Volts (±10%)
Input Current Required	25 mA	30 mA	30 mA

Specifications subject to change without notice

For More Information, Pricing, and Technical Support Contact:


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