

ProMAC™ 24 | Multi-Arm Caliper Tool - HD - 1 11/16 in.

The latest generation ProMAC™ series 24-arm caliper tool incorporates a series of mechanical, electrical and electronic design features that greatly increase tool accuracy, reliability, maintainability and overall cost efficiency.



Ratings & Dimensions

Max Temperature	350°F (177°C)
Max Pressure	15,000 psi (103.4 mPa)
Diameter	1.69 in (43.0 mm)
Length	61.2 in (1,554.5 mm)
Weight	25 lb (11.4 kg)
Tensile Strength	Connection: 15,000 lbf Body: 20,000 lbf
Measure Points	Caliper: 27.7 in (703.6 mm) from bottom of tool Inclination: 49.6 in (1,260 mm) from bottom of tool
Materials	Corrosion resistant materials used throughout

Hardware Characteristics

Sensor Type	Inclinometer: 3-axis accelerometer
	Caliper: Differential Variable Reluctance Transducer
Combinability	All HD tools: GR, CCL, iQ, RADii, RAS, PLT
Tool Positioning	Centralized
Acquisition Mode	SRO w/ TCU Mem w/ MLT

Electrical Specification

Voltage	SRO	50V DC
	Memory	19.2V DC
Current	SRO	40mA(log) 100mA(opening)
	Memory	104mA(log) 260mA(opening)

Caliper Measurements

Sampling Rate	50 sps
Vertical Resolution	0.12 in (3 mm)
Radial Resolution	0.001 in (0.025mm)
Logging Speed	30 ft/min (9 m/min)
Radial Accuracy	+/- 0.02 in (+/- 0.5 mm)
Diameter Range	1.75 in (44.5 mm) to 7.0 in (177.8 mm)
Primary Output	24 independent radii measurements
Secondary Output	Head voltage, internal temperature, accelerometer

Accelerometer Measurements

	Inclination	Relative Bearing
Range	0° to 180°	0° to 360°
Accuracy	+/- 1.0°	+/- 1.0°
Resolution	+/- 0.1°	+/- 0.1°

Calibration

Primary / Wellsite	Precision machined calibration bowl
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