

X-Y Caliper HD Tool (High-Speed Digital)

Provides continuous measurement of independent X and Y internal tubular diameters by means of measurement arms set at 90° apart

Applications

- Accurate wellbore internal size measurement
- Casing and tubing evaluation
- Defect identification such as scale build up, corrosion, or deformation
- Identification of completion items
- Volumetric flow rate calculations can corrections

Features and Benefits

- Combinable with all high-speed digital (HD) telemetry tools for comprehensive evaluation
- Collapsible caliper arms for navigation of wellbore restrictions
- Wide measurement range in a single run

Tool Description

The tool closes to 1.69 in. and opens to 9.00 in., enabling use in both tubing and casing up to 9-5/8 in. OD.

Specifications

Ratings and Dimensions

Outside diameter	1.69 in. (43.0 mm)
Length	44.6 ft (1,134 mm)
Weight	15.5 lb (7 kg)
Maximum temperature	350°F (177°C)
Maximum pressure	15,000 psi (103.4 MPa)
Materials	Corrosion-resistant materials

Measurements

Resolution	0.005 in. (0.127 mm)
Accuracy	Better than 0.1 in. (2.54 mm)
Measurement range	Tool OD to 9.0 in. (228.6 mm)



X-Y Caliper Tool (HD)

Specifications (continued)

Hardware Characteristics

Combinability	All HD tools (RADi [®] , iQ [™] , PL, RAS [™])
Tool positioning	Centralized
Acquisition mode	Real time with telemetry control unit (TCU) Memory with memory logging tool (MLT)

Electrical

Current	7 mA at 50 V 12 mA at 19 V
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