

# CENTURY GEOPHYSICAL LLC.

## PRODUCT DESCRIPTION

### 9074 Three Arm Caliper



#### Background Information

The 9074, 8074, 7074 and 6074 Three Arm Caliper logging tools, are a three-arm caliper configuration used to measure the diameter of the borehole. They can be used in both open and cased holes. Natural Gamma and the casing collar locator are optionally available. However, when configured with both the natural gamma and casing collar locator the tool is slightly longer.

Features		
Properties Measured (see diagram)	Tool Specifications	
<p><b>1a. Natural Gamma: (optional)</b> 2.2 x 10.16 cm (0.875 x 4.0 in.) NaI Scintillation Offset: 14.6 cm (5.76 in.)</p> <p><b>1b. Casing Collar Locator: (optional)</b> Dual magnet and coil assembly Offset: 14.6 cm (5.76 in.)</p> <p><b>2. Three Arm Caliper:</b> Short- or Long- arm configuration, motor operated Sensor Offset: Short-arm: 220.4 cm (86.8 in.) Long-arm: 241.0 cm (94.9 in.)</p>	<p><b>Tool Length:</b> With Short-arms: 226 cm (89 in.) With Long-arms: 264 cm (104 in.)</p> <p><b>Temperature:</b> 85 C (185 F)</p> <p><b>Diameter:</b> 50.8 mm (2.0 in.)</p> <p><b>Pressure:</b> 281 kg/cm<sup>2</sup> (4000 PSI)</p> <p><b>Weight:</b> Short-arm: 18.5 kg (48 lbs.) Long-arm 20.8 kg (54 lbs.)</p> <p><b>Logging Speed:</b> 9 m/min. (30 ft./min.)</p> <p><b>Tool Voltage Required:</b> 56 VDC</p>	

Sensor Response Ranges		
Sensor	Response Limits	Accuracy
Natural Gamma (NG)	0-400,000 API units	+/-5%
Casing Collar Locator (CCL)	+/- 50,000 CPS	NA
Short-Arm Caliper	5.1 to 76.2 cm (2 to 30 in)	+/-0.38 cm (0.15 in)
Long-Arm Caliper	5.1 to 113 cm (2 to 44.5 in)	+/-0.64 cm (0.25 in)

Tool Information		
Item	Model #	Part #
Three Arm Caliper, with NG & Short Arms, without CCL	9074	298000A
Three Arm Caliper, with Short Arms, without NG and CCL	8074	298000B
Three Arm Caliper with CCL & Short Arms, without NG	7074	297000A
Three Arm Caliper with CCL & Short Arms, with NG	6074	298200A
Extensions to Long Arms	All	298009 (3 Req.)
Long Arm Center Shaft Extension	All	298010
Caliper Tip Balls	All	298008
Calibrator, Rings, 2	All	298001