1 Composition

The MFC40C-A 40-finger caliper tool is composed of upper centralizer assembly, electronics assembly, caliper measuring assembly, lower centralizer assembly and motor assembly. The outline of the tool is as shown in Fig. 1.

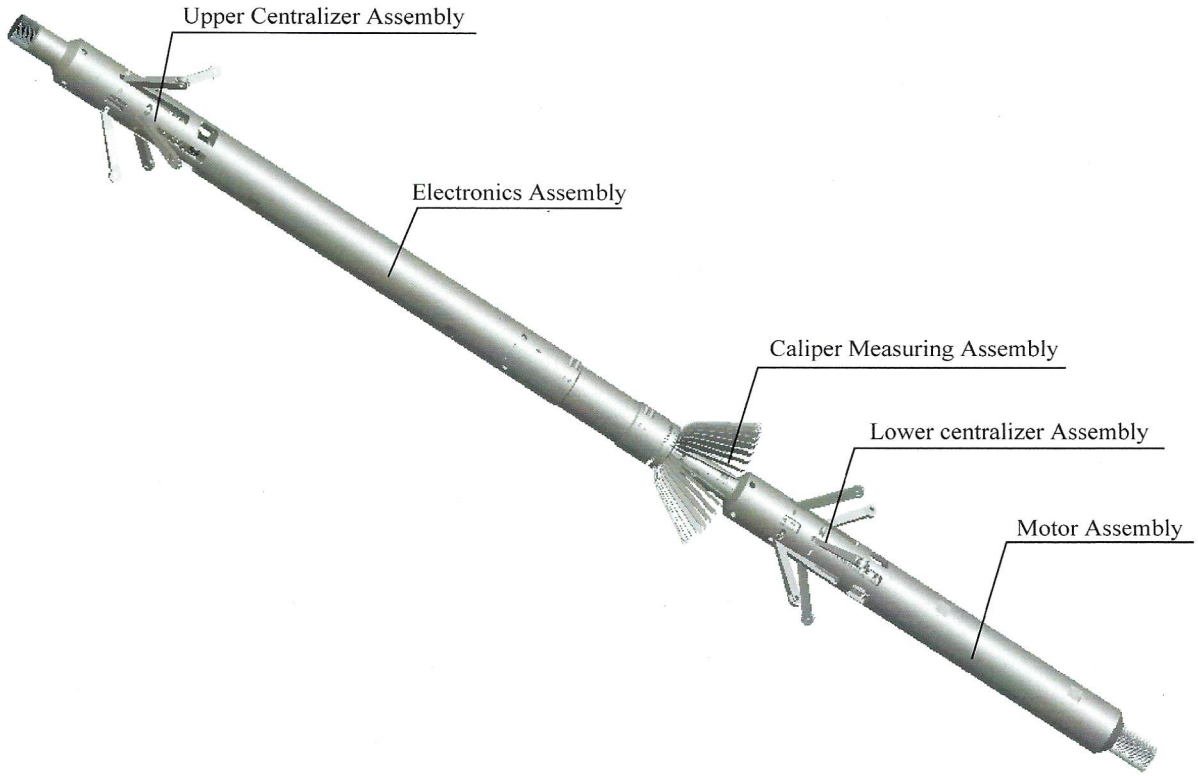

Fig. 1

2 Functions

MFC40C-A 40-Finger Caliper is a mechanical downhole well logging tool. Its main function is to detect the deformation, bending, fracture, perforation and inside corrosion of casing with 40 caliper fingers that are in close contact with the inner wall of the casing. Each caliper finger is connected to an independent non-contact displacement transducer that features small

GOWELL PETROLEUM EQUIPMENT	Specifications			SerialNo.: M-SP-MFC40C-A
				Version : AV11.0.0
	Tool Name	Revised by	Approved	Pages: 2
	MFC40C-A	Peter Zhang		Date: 2010-11

Name	Specifications
General	
Max. Temperature	-20℃～175℃(-4℉～347℉)/ 2 hours
Max. Pressure	≤100MPa(14,503 psi)
Working Voltage	90V±10%
Working Current	35±5mA
Tool Diameter	φ73mm(2.87″)
Shipping Length	1984.5mm(78.13″)
Make-up Length	1929.5mm(75.96″)
Wellbore Temperature Measuring Point	1443mm(56.81″) (Upper end of the tool)
Caliper Measuring Point	1,200mm(47.24″) (Upper end of the tool)
Tool Weight	37kg / 82lbs
Max. Logging Speed	600 m/h (32 ft/min)
Caliper Measurement	
Measuring Range	80mm～210mm(3.14″～8.26″)
Accuracy, Radial	±0.5mm(0.0197″)
Resolution, Radial	0.1mm(0.0039″)
Wellbore and Cartridge Temperature	
Measuring Range	-25℃～175℃(-13℉～347℉)
Measuring Accuracy	±2℃
Resolution	0.05℃
Response Time	≤2S
Relative Bearing Measurement	
Measuring Range	0°～360°
Measuring Accuracy	±5°(Dev≥5°)