

Self-floating Electronic Single-shot Instrument

Introduction

This tool is put down to the bottom of the survey point by the pump pressure. After survey completes, the tool will float off to the wellhead depending on its own buoyancy, no winch is needed. The self-floating series can be applied in full range of conditions. Especially the carbon fiber pontoons, it is light weight and strong buoyancy that is widely used in the vertical wells of small mud weight (can be as less as 1.0), which resolves the contradiction between inclination and mud weight when drilling in oil and gas wells of small formation pressure.

Features

- Winch is not needed
- Descending or floating up depending on mud circulation
- High precision probe with shock resistance to 3500g (7.72 lbs)
- Provide well attitude parameters
- Applicable condition: mud wight is among 0.8 to 2.0g/cm3(0.03 to 0.07 lb/in3), inclination < 40°

Application

• Monitor he well trajectory in oil drilling project

Technical Parameters

Inclination	0 to 60°	±0.2°
Azimuth	0 to 360°	±1.0°
 Magnetic density 	0 to 100μT	±0.5µT
 Magnetic dip 	-90° to 90°	±0.5°
 Temperature 	Up to 125°C / 257°F	±2.0°C

Specification

Model	OD	Relative Weight	Pressure	Notes
LHE423301	Ф48mm	1.00	75MPa	Common self-floating ESS
LHE423501	Ф48mm	1.10	105MPa	Deep-well self-floating ESS
LHE423503	Ф48mm	1.17	120MPa	Super deep-well
				self-floating ESS
LHE423201	Ф48mm	0.97	50MPa	Strong buoyancy
				self-floating ESS
LHE423302	Ф49mm	0.83	75MPa	Carbon-fiber self-floating ESS
LHE423502	Ф49mm	0.97	05MPa	Deep-well carbon-fiber
				self-floating ESS
LHE423202	Ф49mm	0.74	50MPa	Strong buoyancy carbon-fiber
				self-floating ESS
LHE423303	Ф49mm	0.81	75MPa	Carbon-fiber self-floating ESS
LHE413302	Ф40mm	0.90	65MPa	Slim hole self-floating ESS
LHE413301	Ф36mm	0.95	65MPa	Slim hole self-floating ESS