

Introduction

HELI has developed an Electrically Controlled Packer for horizontal wells, which can be timed or real-time for sealing and unsealing any section, preventing the damage which always happened on mechanical packers. The design of the packer takes into account the number of repetitive seating of the horizontal section and the pressure-bearing performance of the seal, especially the cooperation between the micro-motor and the micro-pump, in order to ensure that the maximum output torque is obtained in the allowable casing space and the compression seating of the packer barrel. The temperature and pressure resistance, output torque and seat force of the packer has been evaluated by tests, and all the performance indexes met the design requirements

Structure

It is composed of control unit, e-hydraulic unit, rubber element and slips

Application

- Intelligent Completion
- Electric dragging fracturing
- Multi-section injection & production

Benefits and Features

- High seating pressure, repeatable seat, high stability
- Precise positioning with electric magnetic positioning tool

Specification

Max OD (mm)	109~105
Length (m)	2.4
Casing Size (in)	5 1/2
Temp. Level (°C)	0~175
Pressure Level (MPa)	137.895 (20000psi)
Working Pressure Difference (MPa)	25 (3625psi)
Set Method	Micro Hydraulic System
Unset Method	Micro Hydraulic System

