



科技改变一切...

TECHNOLOGY CHANGES EVERTHING



科技 改变能源 TECHNOLOGY CHANGES ENERGY

Heli Tech Energy Co., Ltd. is Technology Enterprise focusing on solving clients' pain points. Its business covers: R&D and Experiments, Precision Core Component R&D and Manufacture, Intelligent Downhole Tool R&D and Manufacture, Smart Equipment R&D and Manufacture, Geo-Engineering IPM.

Heli Tech Energy Co., Ltd. is a scientific and technological oil service enterprise focusing on technology research and development and application in the field of oil and gas development, undertaking national key R&D projects, and is a national "Specialized Precision and Characteristic" Small Giant Enterprise, national key Small Giant Enterprise, national science and technology enterprise, national hi-tech enterprise, and a leading enterprise of strategic emerging industries in Tianjin, Tianjin Gazelle Enterprise, Tianjin Specialized and Specialized New Enterprises, Vice Chairman of Tianjin Offshore Industry Union, China Scientist Forum Science and Technology Innovation Demonstration Unit, National High-end Downhole Tool Technology Center.

This is a R&D platform created by HELI in order to improve the comprehensive R&D level in conjunction with universities. The laboratory is equipped with 59 large and medium-sized instruments and equipment with a total value of about 100 million RMB.

The R&D team consists of senior experts, technical experts, with technical fields covering mechanical, electrical, intelligent control, communication, Internet of Things and other disciplines.



Heli Energy has extensive experience in industry cooperation The marketing system is spread all over the world

HELI TECHNOLOGY





















Product Overview

High-temperature micro reducers are specifically engineered for extreme temperature environments. Manufactured from high-temperature-resistant special alloys, these reducers ensure stable operation within a temperature range of up to 200°C. Their core advantages lie in optimized heat-resistant materials and thermal expansion-resistant structural design, combined with high-temperature grease that maintains low wear and quiet operation under prolonged thermal stress.

Featuring a compact profile (minimum 28mm diameter) and lightweight construction, they are ideal for surface intelligent equipment and downhole petroleum tools like MWD rotary valve pulsators, delivering both high torque output and positioning accuracy for demanding power transmission requirements. Selected models adopt hollow configurations with innovative through-shaft design, offering up to 100mm central bore diameter for direct pipeline routing through the axis, significantly simplifying automated system cabling.

The modular architecture enables direct motor integration, achieving high-torque precision transmission in complete drive systems. This design particularly suits complex scenarios requiring specialized pipeline configurations through the shaft center.

Application scenario



Oil drilling



Robot



Ocean underwater equipment

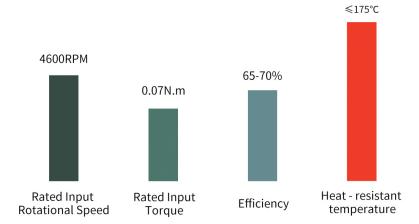


Hydraulic Tools

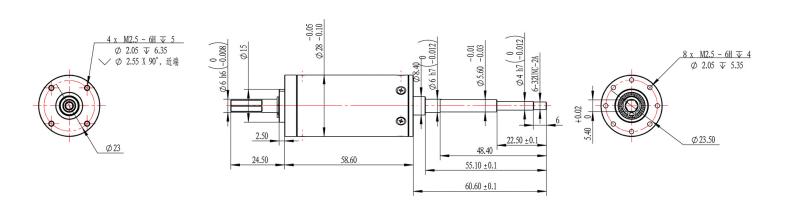
HL28-136



Application scenario
Intelligent downholetools for petroleum
MWD Rotary Valve Pulsator



Outer shape diameter dimension	28mm
Operating Environment	oil
Reduction ratio	136
Number of stages	4

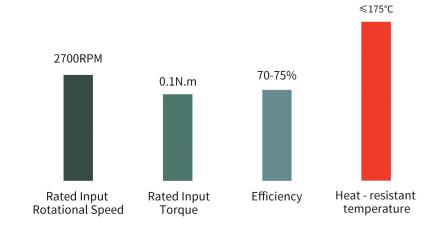




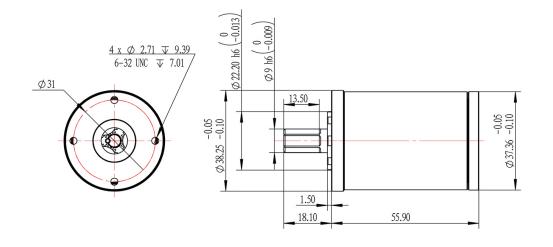
HL32-130

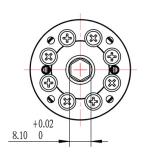


Application scenario
Intelligent downholetools for petroleum
MWD Rotary Valve Pulsator



Outer shape diameter dimension	38mm
Operating Environment	oil
Reduction ratio	130
Number of stages	3

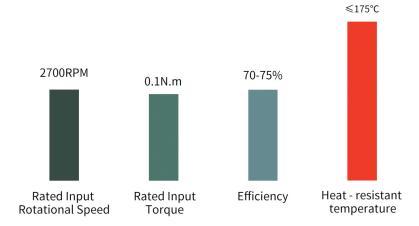




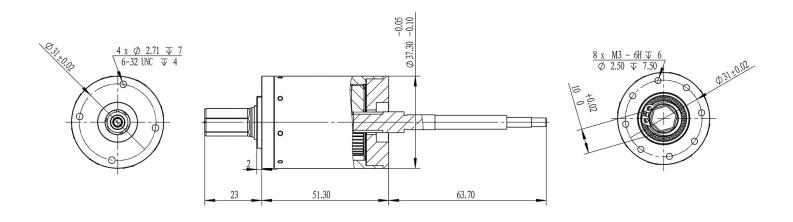
HL38-130



Application scenario
Intelligent downholetools for petroleum



Outer shape diameter dimension	38mm
Operating Environment	oil
Reduction ratio	130
Number of stages	3

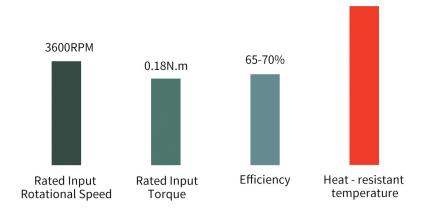




HL38-690

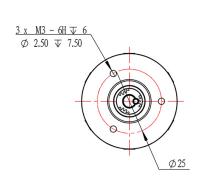


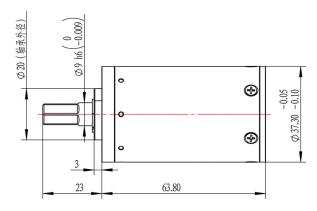
Application scenario
Intelligent downholetools for petroleum

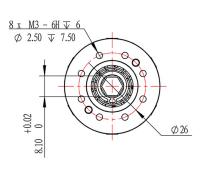


Detailed Data

Outer shape diameter dimension	38mm
Operating Environment	oil
Reduction ratio	690
Number of stages	4





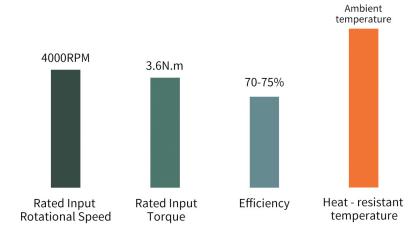


≤175°C

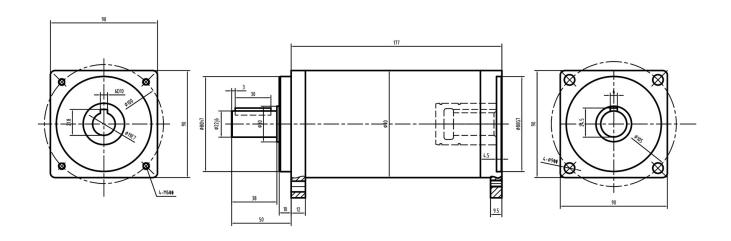
HL90-96



Application scenario
Intelligent Petroleum Equipment System



Outer shape diameter dimension	90mm
Operating Environment	air
Reduction ratio	96
Number of stages	3

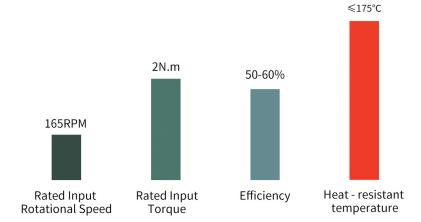




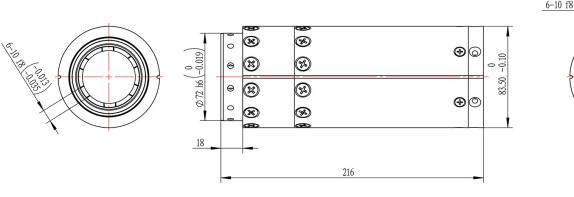
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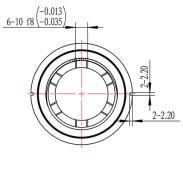


Application scenario
Intelligent downholetools for petroleum
Intelligent Separate Injection System



Outer shape diameter dimension	83.5mm
Operating Environment	air
Reduction ratio	198
Number of stages	6
Special structure	Hollow

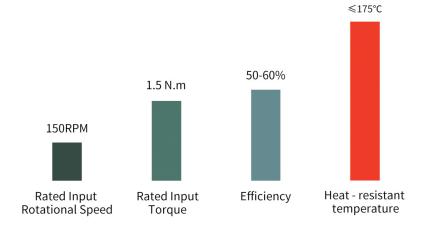




HL103-322

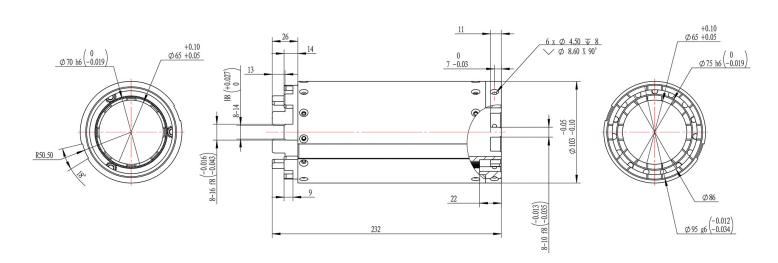


Application scenario
Intelligent downholetools for petroleum
Intelligent Separate Injection System



Detailed Data

Outer shape diameter dimension	103mm
Operating Environment	air
Reduction ratio	322
Number of stages	7
Special structure	Hollow

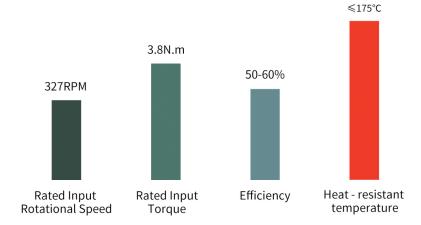


unit:mm

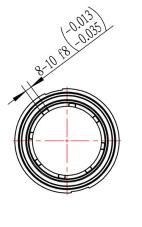
HL151-299

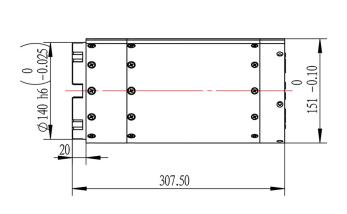


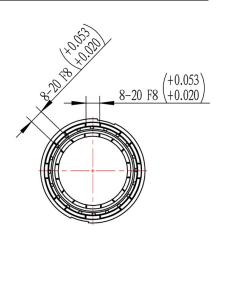
Application scenario
Intelligent downholetools for petroleum



Outer shape diameter dimension	151mm
Operating Environment	air
Reduction ratio	299
Number of stages	7
Special structure	Hollow

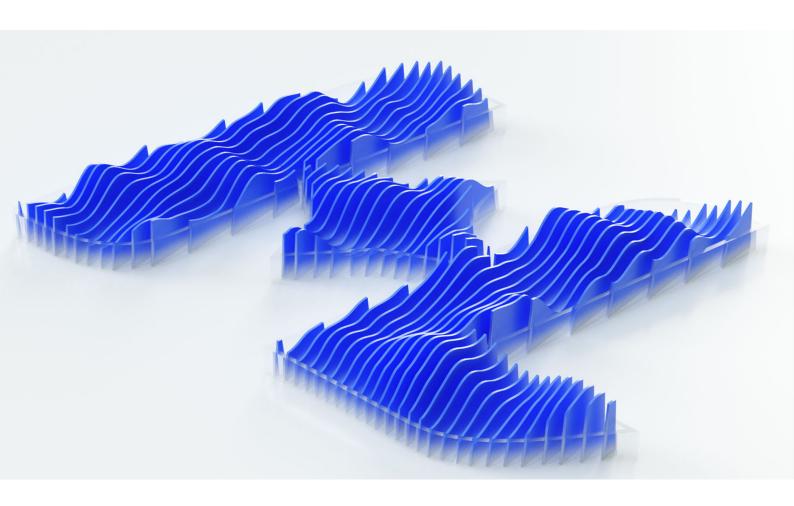








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