

Electric submersible pump

FEATURES

- Hybrid permanent magnet motor design with induction motor rotor elements
- High-power-density design in slim motor profile for deep geothermal settings
- Stable synchronous speed throughout wide operating range
- Reduced internal heat generation compared with conventional motors
- Broad compatibility with variable speed drives commonly used in geothermal operations
- Avenger™ motor lead extension (MLE) designed for easy field installation in high-horsepower GeoESP pumps and high-temperature operations

BENEFITS

- Reduces power consumption in high-temperature geothermal wells with motor efficiency of 93%
- Improves operational stability under fluctuating thermal and hydraulic loads
- Extends motor and system run life to support continuous baseload geothermal production
- Supports deployment in deep, high-enthalpy GeoESP pump applications
- Supports long-term geothermal asset reliability with lower total cost of ownership

TrueSync® hybrid PMM for geothermal applications

Efficiency and innovation for GeoESP® pump operations

Overview

The TrueSync® hybrid permanent magnet motor (PMM) powers GeoESP® pump systems in demanding geothermal environments characterized by high temperatures, high flow rates, and continuous baseload operation. The motor combines permanent magnet efficiency with proven induction motor rotor technology to deliver stable synchronous speed, reduced heat generation, and reliable performance throughout the wide operating range typical of geothermal production wells.

Designed to withstand elevated thermal loads and hydraulic variability, TrueSync hybrid PMM provides consistent torque and damping during transient conditions and simultaneously maintains high electrical efficiency. Its compact, high-power-density design supports deep setting depths and flexible GeoESP pump configurations to efficiently lift geothermal fluids, extend system run life, and increase long-term asset reliability.

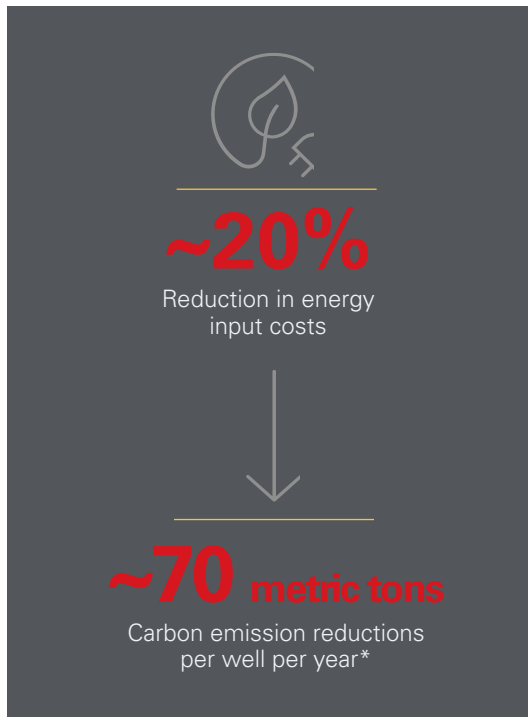
Exclusive R&D and manufacturing innovations

Research and development

- Conceived and designed in the United Kingdom, with state-of-the-art electromagnetic analysis software
- Summit ESP®, a Halliburton service, validated the TrueSync® hybrid PMM through rigorous testing at its Tulsa, Oklahoma, R&D headquarters
- Field-proven in Europe
- Comprehensive performance testing measured and recorded key variables to provide optimal, precise sizing for every design
- Load scenario testing includes full-load start-up to simulate a stuck pump and transient load testing to model gas slugging

Manufacturing

- Multi-million-dollar investment in a newly expanded 20,000 square-foot manufacturing facility with specialized tooling, benches, and testing capabilities
- U.S. manufacturing and assembly help the TrueSync hybrid PMM achieve the highest quality standards
- Controlled-environment manufacturing prevents foreign object debris from entering into critical components during assembly and maintenance to safeguard product integrity, safety, and reliability



*Based on ~360 hp hybrid PMM vs. IM, 365-day run life, 0.352 kg of CO₂/kWh

Optimization performance

SpyGlass™ pump sizing software supports a precision-tailored ESP system, while our Intelevate® digital platform uses data science to optimize efficiency and sustainability.

Safety through preparation

Our rigorous safety protocols provide field service technicians with comprehensive training that equips them to safely and effectively meet each well's unique service requirements.

Technical specifications

SERIES	50 HZ (3,000 RPM)			60 HZ (3,600 RPM)			LENGTH FT (M)	WEIGHT LB (KG)
	HP	VOLTS	AMPS	HP	VOLTS	AMPS		
738	417	2,042	115	500	2,450	115	14.9 (4.5)	1,745 (792)
738	583	3,892	82	700	4,670	82	19.3 (5.9)	2,250 (1,021)
738	917	3,823	127	1,100	4,587	127	27.9 (8.5)	3,250 (1,474)
738	1,250	3,867	165	1,500	4,640	165	36.4 (11.1)	4,250 (1,928)

DESCRIPTION	VALUE/RANGE
Motor outer diameter	7.38 in. (18.75 cm)
Motor configuration	Single
Minimum and maximum operating speed	1,800 - 4,500 rpm
Temperature rating	204°C (399°F)
Standard construction	Carbon steel
Optional construction	Stainless steel

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