

SHPU



The subsea HPU (SHPU) is an electro-hydraulic pump designed to provide control fluid, grease and other hydraulic fluids for power and control applications subsea. It is a modular, integrated design, with advanced motor drive, electrical motor and hydraulic pump integrated in one unit. The modular design approach allows each section - drive, motor and pump - to be individually interchanged. This allows the system to be used as pump for different types of fluids - e.g. water-glycol control fluids, grease, hydraulic oil - simply by replacing the pump. This also allows for easy field servicing and configurability.

The units are built and tested according to customer specifications, and qualified to ISO 13628-6 for subsea control applications. The electrical systems have dual barriers to sea.

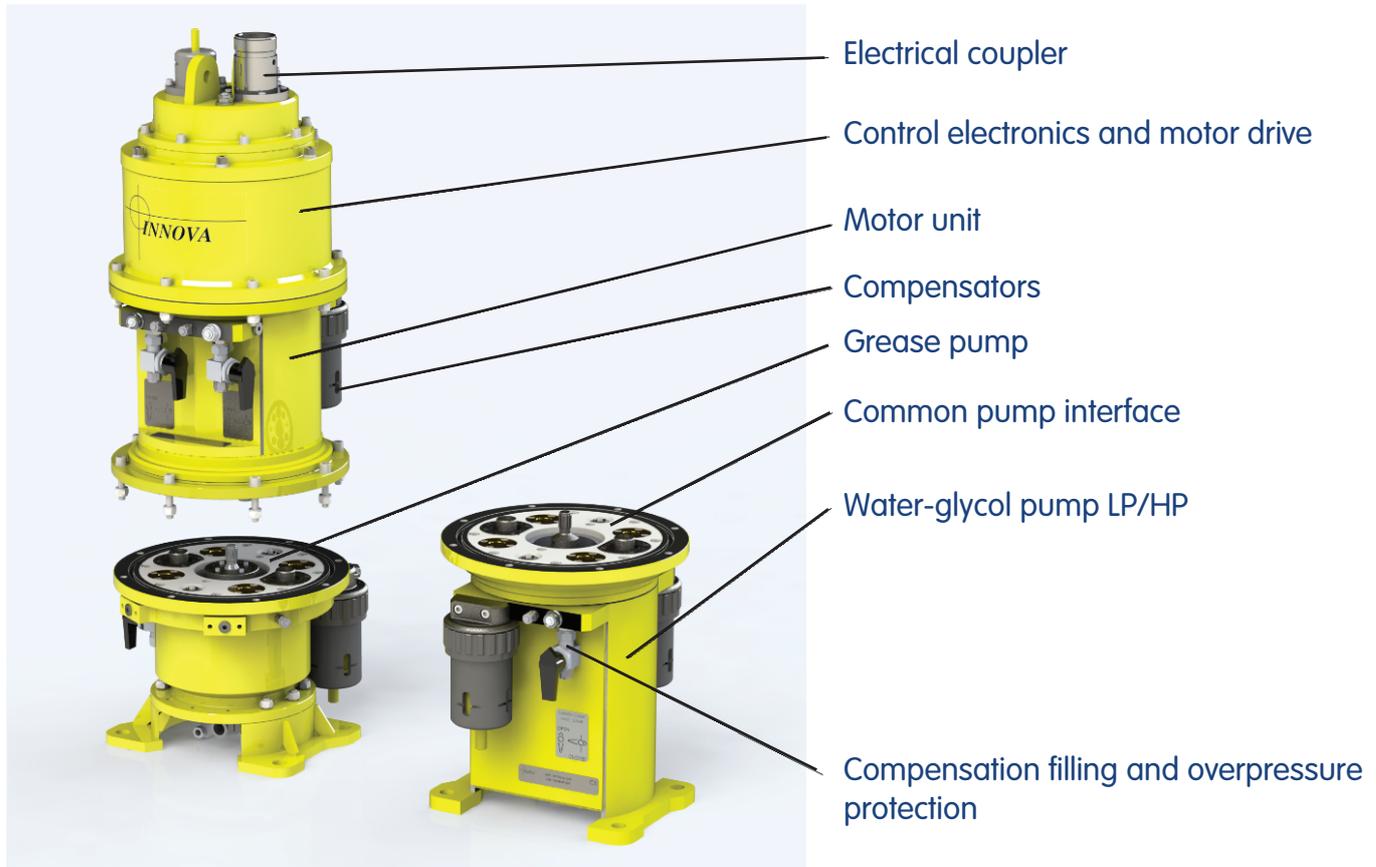
Remote control of the SHPU is done via an integrated intelligent motor drive system, with semi automatic functions to allow the system to maintain a set pressure. With extensive diagnostics and monitoring systems, the SHPU can work in autonomous and semi-autonomous modes.

SHPU

The electrical motor is an AC motor enclosed in a sealed, oil filled, pressure compensated chamber. The system is equipped with sensors to monitor voltage, current, pressures and temperature during operation. Operational data is provided online, and can be stored for condition monitoring and analysis.

The SHPU can be configured to customer specifications and have been delivered in the following configurations:

- HP Water-glycol 690 bar
- LP Water-glycol 345 bar
- HP Grease 690 bar
- LP Grease 100 bar



Technical data:

AC normal input voltage:	440/400VAC, 3-phase, 50/60 Hz
AC input voltage range:	Min. 225VAC to max 450VAC
Max AC power:	3,5kW
Dimensions:	Height 1035mm, Width 360mm, Diameter 340mm
Weight in air/water;	239kg / 192kg
Typical media:	Mineral oils, Brayco, Water-glycol, grease
Control interface:	Ethernet, 10mbps

The SHPU system have been developed by Innova AS for FMC Technologies together with IKM Elektro for delivery to XT and RLWI control applications