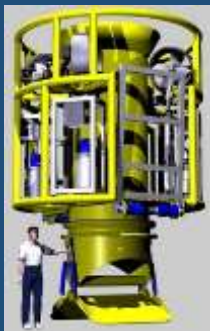


The **Subsea Thruster & Propulsion Specialists**

## Key Features:

- High reliability, Rugged Design
- Single or Dual pump arrangements
- Full Pressure Compensation to full ocean depth
- Interchangeable Hydraulic Pumps with adaptors
- Six (6) Models from 10 upto 400Kw
- Aluminum (hard anodized) stanard with 316 stainless steel options.
- Direct Drive Reliability (no gearbox)
- Temp PT100's & water detectors
- Voltages from 400 to 4,160 Vac
- 2 & 4 – pole options
- Heat Exchanger (cooling) options



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# Electric / Hydraulic Power Modules

Marine Propulsion Solutions – Subsea Group introduces a full series of Submersible electric hydraulic power units. These robust HPU's reflect demanding needs on submerged intervention spreads and hydraulic propulsion systems. A wide range of variable displacement pumps and regulator options allow tight adaption to application specific requirements.

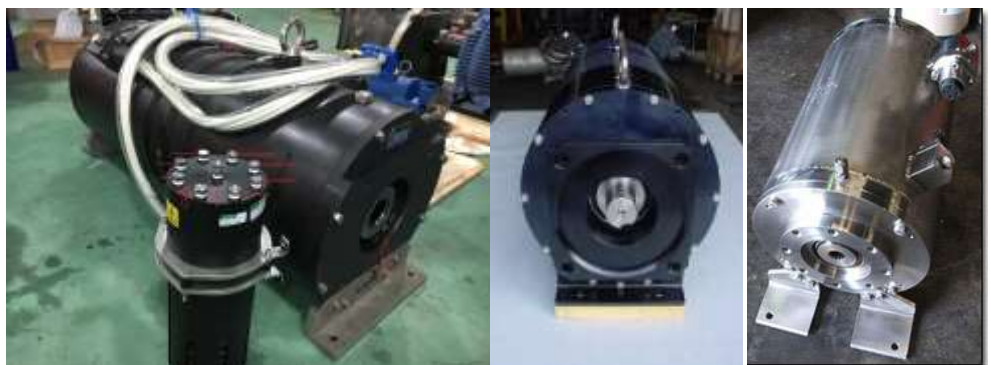


The thruster systems are pressure compensated and operational to all ocean depths.

***Silent.... Dynamically Balanced.... and free of Vibration...***

All pumps are variable displacement units. Max pressure is 350 bar continuous

The model range spans over 6 classes of HPU's which range from 18 up to 400 Kw shaft output power. All motors are either 2-pole or 4-pole, 3 phase AC operating at 50/60 Hz. with voltages ranging from 400 Vac to 4.1 kV.





## Marine Propulsion Solutions – Subsea Group HPT Series Hydraulic Thrusters and Accessories

Model Specifications			
HPU Class	Power Range Shaft Kw	Models	Typical Application
1	10 - 30	HPU25	Tooling / Auxiliary
2	30 - 75	HPU50	Tooling / Auxiliary
3	75 - 110	HPU100	Tooling / Auxiliary
4	110 - 200	HPU200	Propulsion
5	200 - 300	HPU300	Propulsion
6	300 - 400	HPU400	Propulsion

The units operate oil filled and compensated to ambient pressure. The housing is made from machined and anodized aluminum 6082T6. Fasteners, fittings and connectors are made from AISI316 stainless steel.

The units are configured with internal PT100 sensors for temperature measurements and water ingress sensor.

Oil filled hose is provided as standard with Subsea Power connector as optional.

The HPU's utilize the Rexroth series of pumps as standard. This provided an extensive flexibility in displacement options and control configurations throughout the entire range of HPU's. Single or dual pumps can be delivered as required. Regulator options cover remote differential pressure, load sense, cut off pressure regulators and power limiters in many combinations.



Other options are available by contacting MPS engineering or sales department.

The inertia of rotating parts is low.... **parts are symmetrical, providing dynamic balance and free of vibration.**

### Integrated Hydraulic Systems

- Hydraulic Pumps / Pressure Compensated Electric Motor Drives
- Hydraulic Servo Valves
- Pressure Compensated Oil Reservoirs
- Pressure Compensators

