Retractable Azipod® CZ is available



Azipod CZ is a high performance thruster for demanding high thrust applications such as drilling vessels.

In Azipod concept the electric thruster motor is in a steerable and submerged pod. The design is simple and the thruster does not need mechanical reduction gears. Simple auxiliary systems are an important feature of the concept, e.g the electric motor is directly cooled by the surrounding sea water. The concept brings with it high efficiency over a wide speed range, high reliability and minimum need for maintenance as well as easy installation.

Due to the market demand now the biggest Azipod CZ unit, Azipod CZ1400L, is available also with retractable canister. Azipod CZ units are thus an excellent solution for today's drill ships where both fixed and retractable thrusters are needed.

The retractable thrusters

- reduce operational risk by enabling thruster maintenance on the ship deck during drilling
- reduce the fuel consumption during transit when the forward units are lifted inside the hull to reduce resistance
- enable harbour entrance at shallow waters and
- enable dry-docking without need of thruster removal

The retractable system is based on well proven, simple and reliable canister type design. The design is done by well known offshore engineering company GustoMSC and includes their patented thruster retrieval technology. The lifting system is based on proven rack and pinion type technology and is fully redundant. The top level of the canister and all hydraulic lifting equipment are always above the ship water line in order to ensure trouble free operation.

The thrusters are identical in retractable and fixed units minimizing the need for spare parts or spare thruster units. The through hull thruster well allows a flexible ship building process and easy installation. As Azipod has only minimum amount of auxiliaries, internal space of the canister can be used for other beneficial purposes to save ship internal spaces.

There are two different concepts of the system. In both variations under water mounting of the thruster unit is possible. Depending on the ship design and maintainability requirements best fit concept can be selected.

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