Marine Azimuth Thruster

This marine azimuth thruster is designed for propulsion and steering of vessels. The propeller can steer in any direction, providing enhanced maneuverability.

ADDITIONAL IMAGES

Overview

High-Performance Marine Propulsion

The Marine Azimuth Thruster is a compact and reliable propulsion solution designed to replace conventional rudder systems by providing both steering and thrust in a single unit. Capable of 360° steering above water level, it offers exceptional maneuverability for a wide range of vessels including tugboats, drilling platforms, and ocean engineering ships. With flexible drive options including electric, diesel, or hydraulic motors, this thruster is engineered to meet the rigorous demands of modern maritime operations.

Key Performance Metrics

Featured Capabilities

360 °	3.3 m	4500 kW
Steering Angle	Max Propeller Diameter	Max Input Power

Technical Configuration

Drive Configurations

- Z-drive configuration (Direct diesel engine drive)
- L-drive configuration (Electric or hydraulic drive from overhead)
- Retractable type available
- Fixed or varied pitch options

Compatible Power Sources	Electric Motor, Diesel Engine, Hydraulic Motor

Applications

Examples of vessel applications including tugboats, jack-up platforms, and engineering ships using integrated propulsion systems.

Suitable Vessel Types

- Large tugboats and harbor tugs
- Drilling platforms
- Ocean engineering vessels
- FPSO (Floating Production Storage and Offloading)
- Coast guard and patrol boats
- Oil spill recovery vessels

Compliance & Certification

IACS Certifications

CCS • ABS • BV • LR • ZY

Technical Data

SZP Series Model Specifications

Model Type	Max Input Power (kW)	Max Input RPM	Approx. Weight (kg)
SZP 1.5A/B	15	1000-2400	50
SZP 16A/B	160	900-2200	620
SZP 75A/B	750	600-1800	4950
SZP 150A/B	1500	600-1800	20000
SZP 300A/B	3000	550-1600	53000
SZP 450A/B	4500	550-1600	85000

Manufacturing & Quality

Production Facilities

- 18-meter lathes for main propellers
- CNC machining centers
- 80-ton maximum sling load capacity
- Ultrasonic and magnetic particle testing
- Dedicated test stands for rudder and tunnel thrusters