

Diesel Powered Marine Controllable Pitch Propeller

This diesel-powered marine controllable pitch propeller excels in both operability and economy. It minimizes noise and vibration levels while providing superior ship control.



ADDITIONAL IMAGES



Overview

High-Efficiency Marine Propulsion

This controllable pitch propeller (CPP) system is designed for excellence in operability and economy across a full range of rotational speeds and load conditions. By adjusting blade pitch to optimal angles, the system maximizes engine power absorption and significantly improves fuel efficiency for both loaded and empty vessels. Beyond propulsion, it enhances vessel maneuverability and safety through superior deceleration capabilities and directed water flow onto the rudder.

Performance & Features

Key Benefits

- Minimizing noise and vibration levels
- Superiority in ship control and maneuverability
- Faster acceleration from standstill
- Effective deceleration for quicker stopping
- Optimized fuel economy through variable pitch

Technical Configuration

System Options

- Twin-engine incorporation optional
- Fixed or varied pitch optional
- Hydraulic system available

Drive System Options

Electric Motor, Diesel Engine, Hydraulic Motor

Model Specifications

Propeller Model Range

Model Type	Hub Diameter (mm)	Propeller Dia. (mm)	No. of Blades	Approx Weight (Kg)
SKL 38	380	1400	3 or 4	415
SKL 50	500	1850	4	800
SKL 66	660	2400	4	1810
SKL 86	860	3150	4 or 5	4500
SKL 102	1020	3750	4 or 5	6710
SKL 132	1320	4850	4 or 5	13200

System Components

Standard System Components

Hub Assembly, Stern Shaft Assembly, Intermediate Shaft, Hydraulic Coupling, Shaft Locking Device, RPM Transmitter, Oil Distribution Box, Remote Control System

Applications



Diverse applications of controllable pitch propellers across various vessel types including tugboats, crane ships, and research vessels.

Suitable Vessel Types

Transportation Vessel • Tug Boat • RO/RO Ship • Ocean Engineering Vessel • Cargo Liner • Coast Guard Vessel • Scientific Research Ship

Compliance & Quality

IACS Recognized

Certificates from all 12 classification societies of the International Association of Classification Societies (IACS) are available, including CCS, ABS, BV, and LR.

Manufacturing Capabilities

Production Capacity

23000 m²

Workshop Area

80 t

Max Sling Load

20 m

Hoisting Height

18 m

Max Lathe Length