
Low-resistance hull system

▶ High efficiency propeller System introduction

The high efficiency propeller, with blade profiles and angles optimized through CFD simulation and optimal diameter design, features structural characteristics such as high skew, variable pitch, and special tip rake. Propeller shaping mitigates energy losses caused due to tip vortices, cavitation, and turbulence, etc. Multidimensional optimizations, including airfoil, pitch, and disc area ratio, are employed to reduce losses and enhance propulsion efficiency. This directly reduces the energy consumption of the main engine or increases the ship's speed with the same energy consumption.

▶ System composition

Mechanical structure: made of high-strength corrosion-resistant alloys (such as nickel-aluminum bronze, stainless steel);

▶ Advantages and features

Energy saving and consumption reduction: Achieves an average energy saving of 2-5% per unit

Simple structure and convenient installation: Can be integrated into new ships during the design phase; for old ship retrofits, it can be quickly installed through positioning marks during docking.

Convenient maintenance: The blades only require regular inspection and cleaning.

▶ Application scenarios

It is applicable to both new ships and retrofits of old ships, and is effective for various ship types such as LNG carriers, bulk carriers, and container ships.

