Nakashima Propeller is the leading company of marine propulsion specialists in the world. Since founded in 1926, we have continuously been advancing to be the world’s only comprehensive designers/manufacturers of marine propulsion equipment applicable to a wide range from small-sized pleasure boats and fishing boats up to large-sized merchant vessels including ULCC, mega container vessels, and LNG carriers, by utilizing enriched experiences.

**Fixed pitch propellers**

**NHV effect**

Because of Nakashima’s unique technology, hub vortex causing energy loss and rudder erosion can be reduced by using specially shaped propeller blades, without the use of any special accessories. Reduced hub vortex improves efficiency and prevents rudder erosion.

**Tip Rake effect**

The unique shape of the blade tip developed by Nakashima is expected to reduce cavitation and aft fluctuating pressure.

**High skew effect**

Propellers with a sharp sweepback are called “high skew” propellers. Their unique shape reduces the vibration of a vessel's body as well as propeller noise.
Controllable pitch propellers

Model XS CPP
This model is mainly used in mid to small-size vessels of a maximum of 5,000 PS. A hydraulic cylinder for controlling the blade angle is installed in the cylinder shaft inside the vessel. The force generated by the hydraulic cylinder is transmitted to the propeller hub via the push/pull rod to adjust the blade angle. This simple structure enables maintenance costs to be lowered. The inside of the hub is lubricated with grease so no oil leaks from it, eliminating concerns over environmental pollution.

Model XL CPP
This model is mainly used in large size-vessels of 5,000 PS or more. A hydraulic cylinder for controlling the blade angle is installed in the propeller hub outside the vessel. As the blade angle can be adjusted using the hydraulic cylinder installed inside the propeller hub that moves the propeller blades, the blade angle can be accurately controlled. Since the pitch change pressure is set to as high as 12.5 MPa, large volume output can also be supported. Moreover, since the flow direction control valve functions to control the blade angle, fine and smooth adjustment of the blade angle is possible, eliminating inching movement, even when a slow blade angle movement is specified by a time program or other means.
After-sales service

Controllable pitch propellers

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Package

CPP package scope of supply includes the Gearbox.

Record

AHTS, PSV
Package

Fixed pitch propellers

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Shanghai Metalock Co., Ltd. <CHINA>

Azuma Engineering Ltd. <TAIWAN>

Stone Marine Shipcare Ltd <UK>

Naproservice Offshore Estaleiros do Brasil Ltda. <BRAZIL>

Record

AHTS, PSV

Certifications/Applicable rules

ISO 9001  NK  ABS  DNV-GL  DNV  BV  LR  CCS  KR  RINA