

I Principal Dimensions

Number of Blades:	5
Propeller Diameter:	6700 mm
Area Ratio:	0.55
Pitch at 0.7R $H_{0.7R}$:	5804.35mm
Mean Pitch H_m	5614.60mm
Skew Angle:	32 degrees
Type of Propeller:	Fixed pitch propeller
Direction of Rotation:	Right-handed
Distance of gravity center from the large end of the hub:	About 506 mm
Total Weight of the Propeller*:	About 20,395 kg
Inertial Moment of the Propeller in air*:	About 44,070 kg·m ²
Inertial Moment of the Propeller in water*:	About 55,090 kg·m ²

* Cap is not included.

II Classification and Tolerances

Classification:	DNV
Ice Class:	None
Dimensional tolerances:	ISO 484 CLASS I
Tolerances on surface roughness:	ISO 484 CLASS I

III Material and Mechanical Characteristics

Material:	Ni-Al-bronze, Cu3
Density:	7.60 g/cm ³
Minimum tensile strength:	$R_m \geq 590.00 \text{ N/mm}^2$
0.2% proof stress of propeller material	$R_{p0.2} \geq 245 \text{ N/mm}^2$
Elongation :	$A_5 \geq 16\%$

IV Characteristics of the Main Engine

C.M.C.R.:	8050kW × 89.0r/min
C.S.R.:	6842.5kW × 84.3r/min
Shaft transmission efficiency η_s :	0.985

Offsets

The detailed offsets of the designed propeller are listed in Table 1 and Table 2, where:

R: radius of the propeller