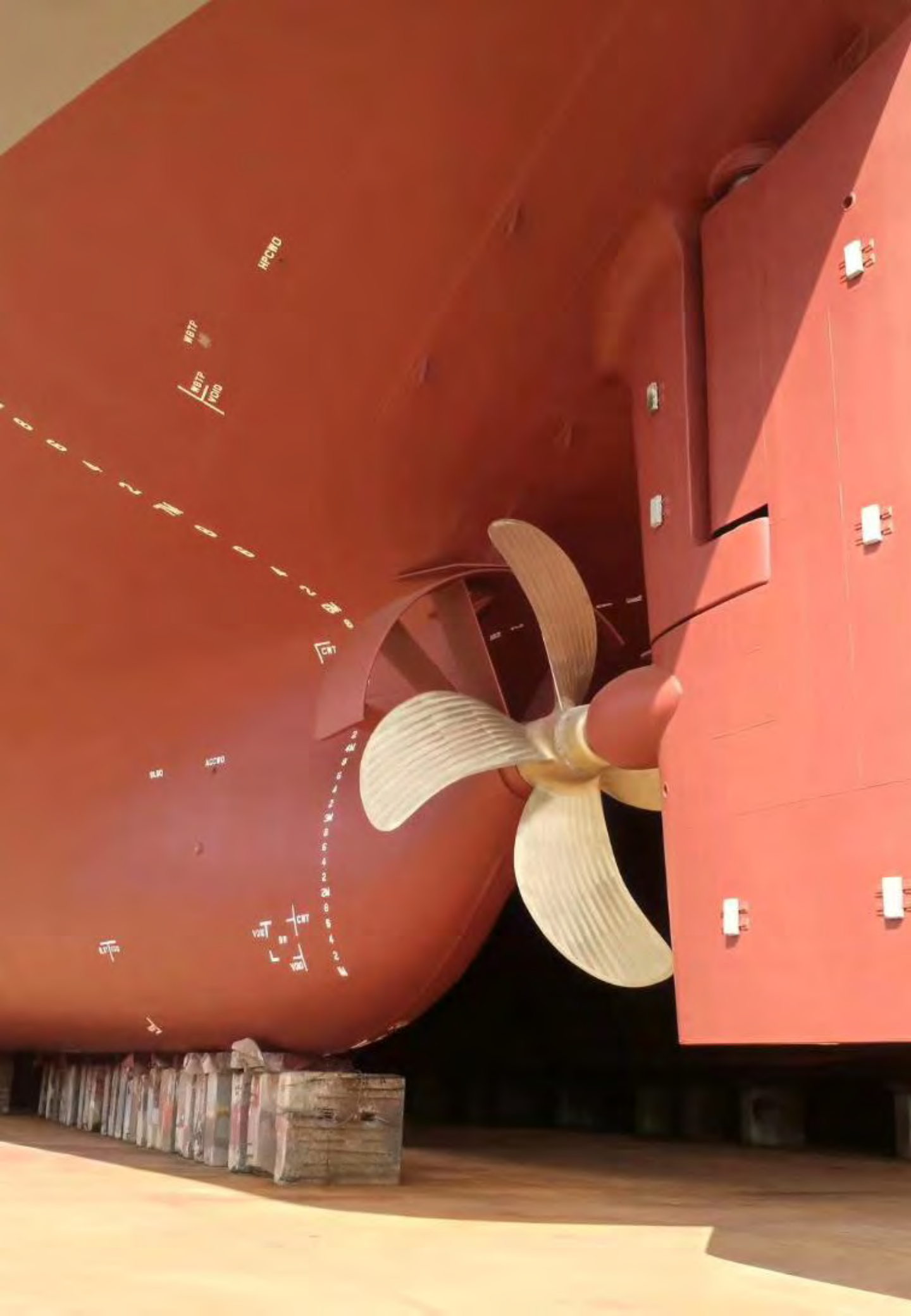




**MARINE PROPELLER**





# MARINE PROPELLER



## PROPELLER MANUFACTURING PROCESS





# MARINE PROPELLER

## Fixed pitch propeller(Cu3)



High speed passenger ship propeller  
Diameter:1.1m, weight:120kgs



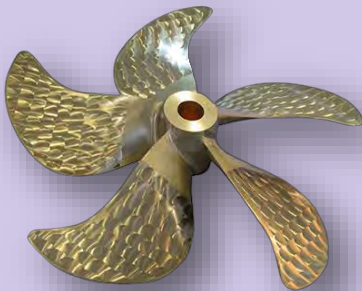
Large bulk cargo ship propeller  
Diameter:6.2m, weight:18tons



Large container ship propeller  
Diameter:4.8m, weight:9tons



High speed passenger ship propeller  
Diameter:1.6m, weight:500kgs



Large oil tanker propeller  
Diameter:5.3m, weight:11tons



Large container ship propeller  
Diameter:5.6m, weight:9.8tons

## Chemical composition

Cu	Al	Mn	Zn	Fe	Ni	Sn	Pb
77-82	7.0-11.0	0.5-4.0	≤1.0	2.0-6.0	3.0-6.0	≤0.1	≤0.03



Propeller Cap fin  
Diameter:1.3m, weight:900kgs

## Mechanical properties

non-proportional elongation stress (σ <sub>0.2</sub> )(N/mm <sup>2</sup> )	tensile strength (σ <sub>b</sub> )(N/mm <sup>2</sup> )	Elongation δ(%)
≥245	≥590	≥16

Diameter of bronze propeller: less than 7 meters  
Weight of single bronze propeller: less than 20 tons  
Produce capacity: 100tons/ month  
We would like to receive the propeller design or ship data with requirements from customers.

## *Controllable pitch propeller(Cu3)*



### ***Controllable Pitch Propeller By Perfect Design***

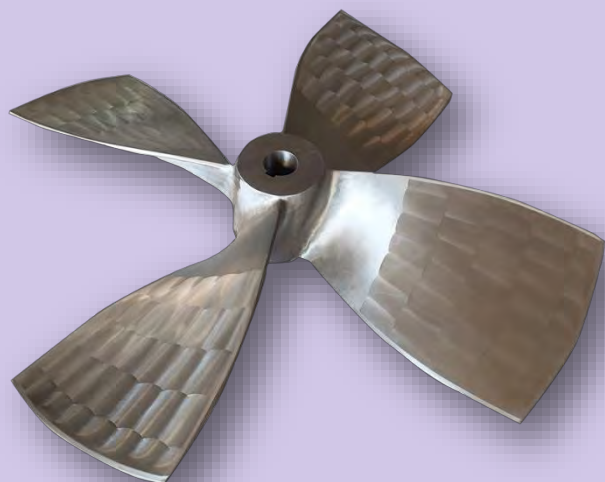
The controllable pitch propellers are made of Ni-Al-Bronze, which is the most commonly used material in the marine propeller fabrication due to its good physical properties and excellent corrosion resistance.

This 4-blade controllable pitch propeller comes with a diameter of 4.2 meters, a weight of 5.6 tons and blades polished with popular patterns. The propeller characterizes a high efficiency while low fuel consumption by adjusting the propeller pitch.

The propeller hub and blades are mainly produced with a 5-axis CNC machine to ensure all dimensions be accurate.

# MARINE PROPELLER

## Fixed pitch Stainless steel propeller(CF3)



Diameter:1714mm  
Blade quantity:4  
Rotation: RH  
Material: Stainless steel(CF3)  
Weight:425Kgs



Diameter:1549mm  
Blade quantity:5  
Rotation: LH  
Material: Stainless steel(CF3)  
Weight:450Kgs

### Chemical composition

C%	Si%	Mn%	P%	S%	Ni%	Cr%
<0.03	<1.0	<2.0	<0.045	<0.030	9.0-12.0	18.0-20.0

### Mechanical properties

$R_{p0.2}$ N/mm <sup>2</sup> min	$R_m$ N/mm <sup>2</sup> min	A % min
>205	>520	>40

Diameter of stainless steel propeller: less than 3.5meters  
Weight of single stainless steel propeller: less than 3 tons  
Produce capacity: 50tons/ month  
We would like to receive the propeller design or ship data with requirements from customers.