

**WELD**  
*machinery*



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## CHANGHZOU WELD MACHINERY TECHNOLOGY CO.,LTD.

Our vision is to stay in step with the times and bring outstanding products made in China to the global market. We aim to offer technical support and guidance, secure and reliable supply, competitive pricing, high quality, and a warm and delightful service experience. We are committed to selecting top transportation providers to ensure timely delivery.

Tel: 86 1516 118 7689



## MARINE DIESEL ENGINE SPARE PARTS

Piston & Connecting Rod

01

PISTON

02

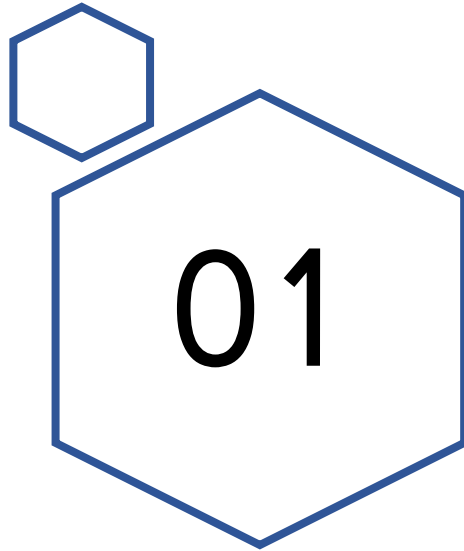
CONNECTING ROD

03

GALLERY

04

COOPERATION



# PISTON

Kawasaki man | Yanmar | Daihatsu | Wartsila | China  
Model

01

## PISTON

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### 028

Piston materials and processes

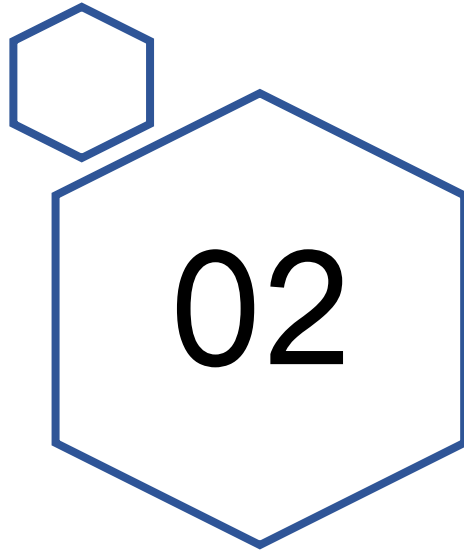
Our company's marine engine pistons are usually made of materials such as ductile iron, which have the characteristics of high strength, light weight, high wear resistance, high temperature resistance and high cooling performance. Its structure includes piston head, piston rod, piston ring and piston body. Among them, the piston head is the top part of the piston, which forms a closed space with the combustion chamber to accommodate the compressed air and fuel mixture; the piston rod is an important part connecting the piston head and the piston body. It is usually made of special steel and has high strength and high wear resistance; piston rings are metal rings installed on the piston body to seal the combustion chamber and prevent fuel leakage and oil from entering the combustion chamber.

02

# PISTON

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# CONNECTING ROD

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Model

01

## CONNECTING ROD

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### DK20 CONNECTING ROD

Application: Daihatsu diesel engine

Forging material: D-SF640

Finished product weight: 42.75-43.9KG

The marine connecting rod is an important component in the marine engine. It bears the rotational force of the crankshaft and transmits it to the piston so that the piston can move smoothly. The main function of the connecting rod is to convert the rotational motion of the crankshaft into the reciprocating motion of the piston. Through reasonable design and manufacturing, the stability and reliability of the connecting rod can be ensured, and the operating efficiency and performance of the engine can be improved. This product is mainly used in marine diesel engines. Our company has the qualifications and capabilities to produce all marine connecting rods and is an important domestic supplier of diesel engine connecting rods.

02

## CONNETING ROD

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Daihatsu diesel engine  
Forging material: D-SF640  
Weight: 22.9KG

**DC17**



Daihatsu diesel engine  
Forging material: D-SFCM780  
Weight: 38.5-40.0KG

**DE18**



Yanmar diesel engine

**N18**



Yanmar diesel engine

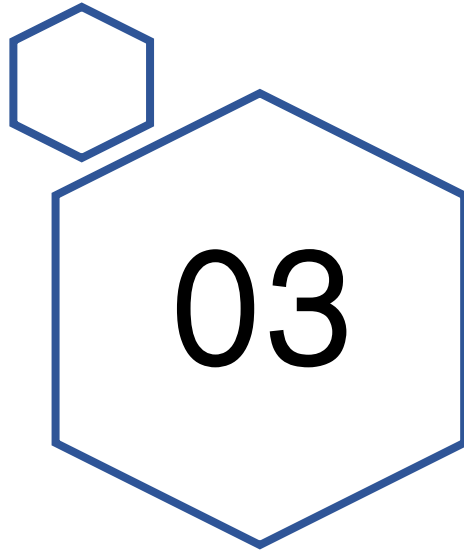
**N21**



## Connecting rod materials and processes



The connecting rod material should have high fatigue strength and impact toughness, and generally uses medium carbon alloy steel or high strength alloy steel. The hair is formed by die forging. The fiber direction of the metal macrostructure in the longitudinal section of the connecting rod should be along the center of the connecting rod and consistent with the shape of the connecting rod, and the microstructure should be a uniform fine-grained structure. In order to improve the fatigue strength of the connecting rod, the following strengthening measures can be adopted: (1) Choose a reasonable heat treatment process according to the material to improve the strength of the forged steel connecting rod; (2) Surface shot peening will produce residual compressive stress on the surface, which can significantly improve the fatigue strength of parts



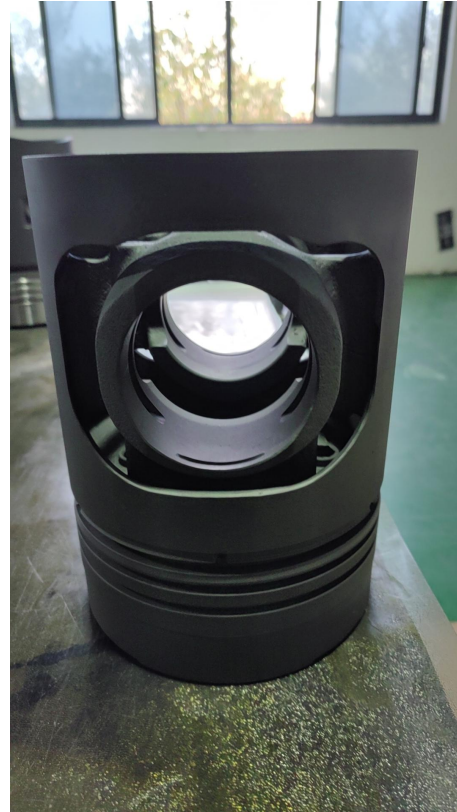
# GALLERY

Factory, Equipment and Products

01

# GALLERY

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02

# GALLERY

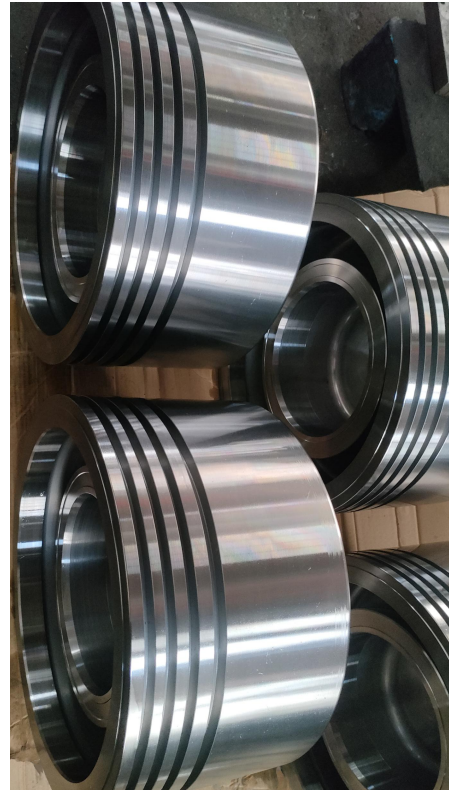
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03

# GALLERY

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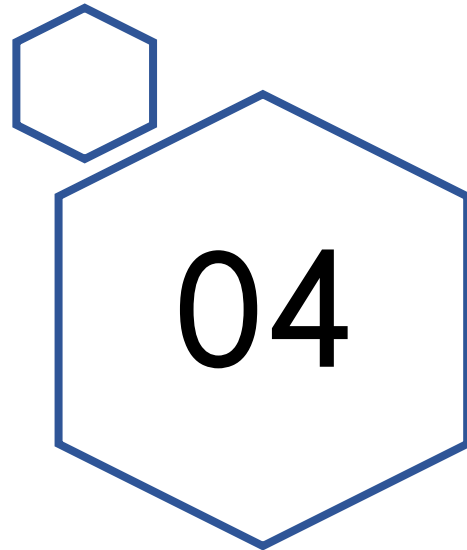


04

# GALLERY

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## COOPERATION

Kawasaki man | Yanmar | Daihatsu | Wartsila |  
CSI Ningdong | FAWDE Xichai | GDF Guangchai |  
Weichai | Zichai |

01

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CHANGZHOU WELD MACHINERY TECHNOLOGY CO.,LTD.

Add: No.105,building 7, Linjin Garden, Yaoguan Town,  
Economic Development Zone, Changzhou City, China

CONTACT: Sibyl Zheng

TEL: 86 1516 118 7689

EMAIL: [Sibyl@weldhot.com](mailto:Sibyl@weldhot.com)

TEAM-MAIL: [Weld-Tech@weldhot.com](mailto:Weld-Tech@weldhot.com)