

# 中国船级社 CHINA CLASSIFICATION SOCIETY 工厂认可证书

证书编号/Certificate No. QD23PWA00067\_01

# CERTIFICATE OF WORKS APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

**This is to certify** that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

#### 制造厂/Manufacturer

# 金雷科技股份公司 Jinlei Technology Co., Ltd

#### 地址/Address

山东省济南市钢城区双元大街18号

No. 18, Shuangyuan Street, Gangcheng District, Jinan, Shandong

# 产品名称/Product

#### 锻钢件

#### STEEL FORGINGS

# 认可标准/Approval Standard

1. 中国船级社《材料与焊接规范》(2023)及其变更通告第1篇第5章

Chapter 5, Part One of China Classification Society Rules for Materials and Welding 2023 and its Change Notices

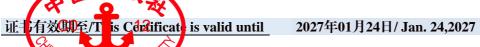
# 用于/Intended for

船舶/Ships

#### 产品明细/Product Description

锻钢件/Steel Forgings (M0001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	轴系与机械结构用锻钢件 Steel Forgings for Shafting and	
	Machinery	
最大尺寸/Max. Size	最大直径: 1360mm (轴类);	
	最大直径: 2510mm , 最大厚度: 885mm (饼、盘、圈、桶类)	
	1360mm for Max. Diameter of Shaft Type;	
	2510mm for Max. Diameter and 885mm for Thickness of Pie or	
	Disk or Circle or Bucket Type	
最大重量/Maximum Weight	70000	kg
钢材种类/Steel Type	碳钢、碳锰钢和合金钢 Carbon Steel, Carbon-manganese Steel	
	and Allory steel	
锻造方式/Forging Method	自由锻 Free forgeing	
冶炼方式/Melting Process	电弧炉+钢包精炼+真空脱气   EAF+LF+VD	



发证机构 C中国航级社商品分社 Issued by Command Branch

签发日期 2024年05月10日 Date May. 10,2024

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UTN:P024-76179856

Form No: W01.

联系方式/Contact Us,见本社官方网站/See official web site of the Society(http://www.ccs.org.cn)

#### 锻钢件/Steel Forgings (M0002)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	船体结构用锻钢件 Steel Forgings for Hull Structure	
最大尺寸/Max. Size	最大直径: 1360mm(轴类); 最大直径: 2510mm ,最大厚度: 885mm(饼、盘、圈、桶类)  1360mm for Max. Diameter of Shaft Type; 2510mm for Max. Diameter and 885mm for Thickness of Pie or Disk or Circle or Bucket Type	
最大重量/Maximum Weight	70000	kg
钢材种类/Steel Type	碳钢、碳锰钢和合金钢   Carbon Steel, Carbon-manganese Steel and Allory steel	
锻造方式/Forging Method	自由锻 Free forgeing	
冶炼方式/Melting Process	电弧炉+钢包精炼+真空脱气   EAF+LF+VD	

# 批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No.: 无/Nil.

## 产品认可试验报告/Approval Test Report

试验报告编号/ Test Report No. : 223230201 试验报告日期/ Test Report Date : 2023-08-30

试验报告编号/ Test Report No. : 214230602 试验报告日期/ Test Report Date : 2023-08-30

试验报告编号/ Test Report No. : 2024-302 试验报告日期/ Test Report Date : 2024-04-16

# 认可后的产品检验方式/Method of Product Inspection after Approval

按规范认可后应进行产品检验的产品/The product should be inspected in term of the rules: 认可后的产品检验应由本社验船师根据本社规范规定按批准的产品检验计划进行检验,经检验合格后由本社颁发船用产品证书。

After approval, product inspection should be carried out by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Marine Product Certificate will be issued by the Society upon satisfactory inspection.

# 认可保持条件/Maintenance Requirements of Approval

1. 工厂认可后,如果图纸、技术文件、工艺规程有较大改变,应征得本社同意。若改变涉及或影响到产品的设计、主要制造材料、关键工艺或产品的特性、特征,则与特性有关的图纸和技术文件应经过本社审批,并在检验机构认为必要时,经本社检验人员到厂进行检查和见证有关试验,其结果应能证实仍符合认可条件。

After works approval, if there are any major changes to the drawings, technical documents, specifications, prior consent should be obtained from the survey office of the Society. If the changes involve or affect product design, major construction materials, key workmanship or product characteristics and properties, drawings and technical documents related to properties are to be examined and approved by the Society and, where deemed necessary by the survey office, the surveyor to the Society will go to the manufacturer to inspect or witness relevant tests and the results of the tests should be able to demonstrate compliance with the approval conditions

2. 工厂的质量管理体系应保持有效运行,并且与认可时一致。如果质量管理体系发生改变,应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 工厂认可证书获得者应接受本社每年一次的定期审核,定期审核日为认可证书期满之日对应的每一周年日,检查工作应在定期审核日的前后三个月内进行。Those who have obtained the certificate of works approval shall receive periodical audit done by the Society on an annual basis. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

4. 在认可证书有效期内,本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核,以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 认可证书有效期内,如果出现可能导致本社暂停或撤消认可的情况,工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to suspend or withdraw the certificate, the manufacturer should take corrective actions in a prompt and effective manner.

#### 备注/Remarks

1. 本证书由原工厂认可证书(No. QD23PWA00044 01)变更并替代原证书。

This Certificate is modified from and supersedes the previous Works Approval Certificate No.  $QD23PWA00044\_01$ .

2. 本证书不适应设计抗拉强度在800N/mm² < Rm < 950N/mm² 范围内的合金钢中间轴锻钢件。

This certificate is not suited to Alloy Intermediate Shaft which designed tensile strength is between  $800N/mm^2$  and  $950N/mm^2$ .

3. 主要生产地址/Primary production address: 山东省济南市钢城区双泉路118号/No.118, Shuangquan Road, Gangcheng District, Jinan City, Shandong Province.

# 中国船级社青岛分社

#### **CCS Qingdao Branch**