



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
BG25PTB00025

型式认可证书
CERTIFICATE OF TYPE 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

Kongsberg Maritime AS(Horten)

地址/Address

Bekkajordet 8A, 3189 Horten, Norway

产品名称/Product

综合测量、监控报警及控制系统
Integrated Gauging, Monitoring & Alarm and Controlling System

附加标志/Notations

无/Nil.

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》第4篇第2, 3章
Chapter 2 and 3, Part Four of China Classification Society Rules for Classification of Sea-going Steel Ships
2. 中国船级社《钢质海船入级规范》第7篇第2章
Chapter 2, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships

用于/Intended for

船舶/Ships



证书有效期至/This Certificate is valid until 2031年01月07日/ Jan. 07,2031

发证机构/中国船级社奥森根办事处
Issued by CCS Bergen Office

签发日期 2026年01月06日
Date Jan. 06,2026

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效，电子证书含数字签名方为有效，本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时，可以向本社检验机构咨询。本证书凡是未注明版本的规范，其（发证时）最新版本适用于本证书。
This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices. **For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the certificate.**



Form No: T01.

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>)

UTN:P026-78285012

产品明细/Product Description

综合测量、监控报警及控制系统/Integrated Gauging, Monitoring & Alarm and Controlling System (M0001)

名称/Name	属性（值）/Value	单位/Unit
型号/Type	K-Chief 700	
系统组成/System Component	Refer to additional pages	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : BG18A00015

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : DANAK-1910054

试验报告日期/ Test Report Date : 2008-02-06

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-1910025

试验报告日期/ Test Report Date : 2008-01-22

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-198195

试验报告日期/ Test Report Date : 2005-12-19

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-198195 Rev. 1

试验报告日期/ Test Report Date : 2007-06-15

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-1916085

试验报告日期/ Test Report Date : 2016-02-15

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-1912904

试验报告日期/ Test Report Date : 2013-03-15

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-1910541

试验报告日期/ Test Report Date : 2009-06-11

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-1910121

试验报告日期/ Test Report Date : 2008-03-27

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-198696

试验报告日期/ Test Report Date : 2007-03-15

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-1911658

试验报告日期/ Test Report Date : 2011-12-08

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-1914440

试验报告日期/ Test Report Date : 2014-12-05

试验单位/ Laboratory: DANAK
试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No.: DANAK-1910264
试验报告日期/ Test Report Date: 2008-09-01
试验单位/ Laboratory: DANAK
试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No.: DANAK-1910281
试验报告日期/ Test Report Date: 2008-10-14
试验单位/ Laboratory: DANAK
试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No.: Nemko-E21088.03
试验报告日期/ Test Report Date: 2021-10-08
试验单位/ Laboratory: Nemko
试验单位地址/ Test Address: Norway

试验报告编号/ Test Report No.: Nemko-REP019643
试验报告日期/ Test Report Date: 2024-01-17
试验单位/ Laboratory: Nemko
试验单位地址/ Test Address: Norway

试验报告编号/ Test Report No.: Nemko-REP008558
试验报告日期/ Test Report Date: 2023-03-16
试验单位/ Laboratory: Nemko
试验单位地址/ Test Address: Norway

试验报告编号/ Test Report No.: Nemko-E19179.01
试验报告日期/ Test Report Date: 2020-03-25
试验单位/ Laboratory: Nemko
试验单位地址/ Test Address: Norway

试验报告编号/ Test Report No.: Nemko-E14127.00
试验报告日期/ Test Report Date: 2014-05-21
试验单位/ Laboratory: Nemko
试验单位地址/ Test Address: Norway

试验报告编号/ Test Report No.: Nemko-E18040.01
试验报告日期/ Test Report Date: 2019-07-04
试验单位/ Laboratory: Nemko
试验单位地址/ Test Address: Norway

试验报告编号/ Test Report No.: Nemko-E13144.03
试验报告日期/ Test Report Date: 2017-08-17
试验单位/ Laboratory: Nemko
试验单位地址/ Test Address: Norway

试验报告编号/ Test Report No.: Nemko-E15165.01
试验报告日期/ Test Report Date: 2017-04-28
试验单位/ Laboratory: Nemko
试验单位地址/ Test Address: Norway

试验报告编号/ Test Report No.: SP-3P08182
试验报告日期/ Test Report Date: 2015-02-02
试验单位/ Laboratory: SP
试验单位地址/ Test Address: Norway

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. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results 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. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 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 withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

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. 如果属于获得型式认可B 模式证书, 且无需颁发船用产品证书/等效证明文件的情况, 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, 检查工作应在周年日的前后三个月内进行。

If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. 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.

备注/Remarks

1. 本证书由原型式认可证书 (No. BG24PTB00013_01) 换新并替代原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No. BG24PTB00013_01.

2. 本社已审核了产品厂无石棉声明, 但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社卑尔根办事处

CCS Bergen Office

注: 本证书含有附页, 共3页

Note: The certificate is attached with additional 3 page(s)

1.Product Description

1.1 The K-Chief 700 system performs the following functions:

- Power Management
- Auxiliary machinery control
- Ballast/bunker monitoring and control
- Cargo Monitoring and control

The K-Chief 700 system is built from modular hardware components and modular application software. Any number of these modules can be composed to provide an optimal solution of a specific vessel's requirements.

1.2. Software for Chief 700

AIM Basis Software Release 8.3, 8.5, 8.6, 8.7, 8.8, 8.10 and 8.12.

1.3. Hardware components which are specific for K-Chief 700 systems are listed in this certificate. The approval for third party equipment are not included in this certificate, the delivery of those components should meet the requirements of CCS rules.

Components		Part No.
Panels	Tracker Ball Panel (TBP)	388930
	PBT Flat Version Black	8100318
	TPP Touch Pad Panel	388010
Operator Control Panels	COP-05 BU-AUT Panel	603529
	COP-05 ALC MkII	345242A2
	COP05 ALC Stand Alone	391890
	Panel ALC	603526
	Panel Input Mk3 COP 05	110-0049940
Earth Failure Indicator	EFI-16	321492
Media Converter	RMC-ST	321520
Controller	RCU 502i	421768
	RCU 601	477601
	RCU 602	383962
IO Units	RMP420	306712
	RTB 420	326843
	RMP420S	319824
	RDIOR420	306713
	RDIO420S	316564
	RMP422i	408442
	RMP422Si	408406
	RMP201-8	324400
	RSER200-4	603444
	RHUB200-5	603442
LAN to CAN Module	L2C	404654, 406381
Network component	RTL8153B- USB3.0/3.1/3.2 to 4x Gb Ethernet	446030
Extension Alarm and Watch Call Units	WCC 600	373860

Components(thrid party equipment)	
Network devices	Cisco C1000-24T-4X-L
	Cisco C1000-24FP-4G-L
	Cisco C1000-24T-4G-L
	Cisco C1000-24P-4G-L
	Router Cisco C1121X-8P
	Moxa IKS-6728A
	Moxa EDS-408A-MM-SC
	Moxa EDS-408A-3M-SC
	Fortinet FGR-60F
	Router Moxa EDR-810-2GSFP
Display	Display 10" 16:10 XT MK1
	Display 15" FHD XT MK1
	Display 22" FHD X MK1
	Display 22" FHD XT MK1
	Display MD24 16:9 MK3
	Display 24" 16:9 Ex ET677
	Display 24" FHD XE MK1
	Display 24" FHD XTE MK1
	Display 24" 16:9 Touch MD24
	Display 27" 16:9 FHD E27-G5
	Display 27" Full HD ECDIS KM05 MK4
	Display 27" FHD XE MK2
	Display 27" FHD XTE MK2
	Display 32" UHD XE MK1
	Display 32" UHD XTE MK1
	Display 55" UHD ECDIS GT MK1
	Display 55" UHD D-Line
Remote Operator Station (ROS) - Computer	MC340 i3 GPU
	MC340 i7 GPU
	MC360 i3 LAN
	MC360 i5 GPU
	MC360 i7 LAN
	MC360 i7 LAN Extra
PMS IO	LSP 7.x (PPU 300)
	LBD
Touch Control Panel	Panel PC 10" 16:10 MPS
UPS	Standby power, 230V/24V
GLK-300 (SPU)	GLK-300 Signal Processing Unit (SPU)
Hub and switch	Switch FM LM 8TX RJ45
	Switch FM LM 8TX RJ45 Master
	Firewall FL MGUARD GT/GT
	Switch Moxa EDS-308-MMC-SC,6xRJ45,2xSC fiber

2. For each designated vessel, the drawing of system should be submitted for approval to the CCS Plan Approval Center.

3. Manufacturing places include as below

- (1) Kongsberg Maritime AS, Bekkajordet 8A, 3189 Horten, Norway
- (2) Kongsberg Maritime Korea Ltd, 9-7, Sandan 3-ro, Jeonggwan-eup, Gijang-gun, Busan, 46027, Korea
- (3) Kongsberg Maritime AS (Kongsberg) Kirkegardsveien 45, NO-3601 Kongsberg, Norway
- (4) Kongsberg Maritime China Ltd., No. 136 North FuTe Road, China (Shanghai), Pilot Free Trade Zone, 200131 Shanghai, China

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