



DOCUMENT OF APPROVAL

We are pleased to confirm that following a successful assessment of the submitted firm's documentation and credentials, the undernoted entity has been approved by INSB Class Society for services on board classed vessels with this Society as follows:

Ref. Nr. of DOA: **DEV/DOA/LF/185/23**

Company name: **CRALOG A/S**

Address: **KNOTEN 7, 9900 FREDERIKSHAVN, DENMARK**

Approved service supplier engaged in: **MAINTENANCE, THROUGH EXAMINATION, OPERATIONAL TESTING, OVERHAUL AND REPAIR OF LIFEBOATS AND RESCUE BOATS, LAUNCHING APPLIANCES AND RELEASE GEAR.**

Operators / Inspectors Data: **AS PER SUBMITTED AND KEPT DATA**

Description of Manufacturers / Models: **AS LISTED IN THE ANNEX TO THIS DOCUMENT**

Previous INSB DOA ref.: **DEV/DOA/LF/162/22**

Under your above stated capacity, you may perform **maintenance, through examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear**, to vessels classified & certified by INSB Class, in accordance with the Society's applicable technical requirements & at the surveillance of this Society's Surveyor(s).

You are not authorised to provide any other service, outside the scope of the present document of approval, by or on behalf of this Classification Society.

Should there be any request for the performance or delivery of any other technical service on behalf of INSB Class, please consult INSB Class Head Office in Piraeus, Greece for authorisation and / or further guidance and related instructions.

While acting as an INSB Class approved service supplier, you have the obligation to inform INSB Class of any major change having affect on the quality of the service rendered, including withdrawal(s) or expiry of any submitted to INSB Class credential(s), main changes to your firm's organisational structure, alterations to main procedures of operation or task capabilities.

This document of Approval is being issued on the **25th of July 2023** at Piraeus, Greece and shall remain in force for one (1) year.

For the
International Naval Surveyors Bureau – CLASSIFICATION SOCIETY

Charilaos Galanakopoulos
Marine Surveys Division





ANNEX

To recognition certificate No. DEV/DOA/LF/185/23

Manufacture	Type
ABAS	Survival Crafts (MDE, KDE)
ACEBI	Survival Crafts (TELB, PELB) Launching Appliances (A, AF, GRA, PF, PFR, RRP, SPG, TPC, TPF, TPU)
ACOIN	Launching Appliances (R18700) Winch (BE-2)
ACTA	Launching Appliances (DC, DR; HSC; MOB) Winch (KNT)
ALEXANDER RYAN	Launching Appliances (AREH, BH)
ALEXANDER WELIN	Winch (AIW)
ARIM	Launching Appliances (AHA, ARPV)
A TECH	Launching Appliances (AT-LRD) Winch (AT10-LRD)
AVON	Survival Crafts (RB, SR)
BADA HEAVY INDUSTRIES	Launching Appliances (BDA, BDFA, BDF, BDH, BDMS, BDL, BDR, BDTD, BDTW, BFRD, BLR, HDFL, ORFP) Winch (BA, BDF BLW, BMW BW, BRW, HDF, PW) Release Gear (BHA, BHR)
BALDEN	Survival Crafts (BDFF-T, BDFF-C, BD-R) Release Gear (BD-LBH, BDHR)
BIANCHI & CECCHI	Launching Appliances ((BC) PE, PET) Release Gear (U Hook)
CASTOLDI S.R.L.	Survival Crafts (JET TENDER 18 RB)
COASTAL MARINE EQUIPMENT, INC.	Launching Appliances (D)
CHANG SHENG	Release Gear (35kN)
CRANTSON EAGLE	Release Gear (APR-356-CB/CBH)
DAFER / NARWHAL	Survival Crafts (SV)
DAESUNG	Launching Appliances (Combi)
DAE JIN CO. LTD	Release Gear (THP-1B)
DAVIT INTERNATIONAL	Launching Appliances (D.AC. s, D-BR, D-BC.R, D-CRm, D-CRH.R, D-FH, D-FO, D-FOS, D-NP, D-NP.MP. D-NP. SP, D-NPS.SP, D-RB, D,RC,D-RC.T D-RT,D-TT, D-TT.SP,) Winch (0.1.,.02. 03., 04., 06., 07., 12. ;40;) Release Gear (OLH, RH)
DENIZSAN	Survival Crafts (DSFDD, DSFRB, DSRBD)
DONGNAM MARINE CRANE CO LTD	Launching Appliances (DHGD, DNRD, DRBD, DRBLRD)
DONGWOO MACHINERY & ENGINEERING CO., LTD.	Launching Appliances (DWS) Winch (DWS)



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DSB DEUTSCHE SCHLAUCHBOOTE	Survival Crafts (IRB)
DSB ENGINEERING CO LTD	Survival Crafts (DSBC, DSBF, DSBP, DSBR, DSBRFA, DSBFC, DSBFF)
	Launching Appliances (DSBARH, DSBDF, DSBDL, DSBDP, DSBDR, DSBDTL, DSBDYL, DSB23DR)
	Launching Appliances (FFH)
	Winch (DEW, FFWH)
	Release Gear (DUPLEX > 6T, DUPLEX - < 6.6, FFH45 SERIES)
GEPA	Survival Crafts (G-FFF, G-FK, G-FYK, G-RB)
GIBERT & SCHMALRIEDE GMBH & CO. KG	Launching Appliances (PJ)
GLOBAL DAVIT	Launching Appliances (GSP.O, RSP.O, GSP.RT, GLP.RT, GSP.FP, GSP.MP, GLP.FP, GLP.MP, GSP.FLH, GSP.FPH, GLP.FLH, GLP.FPH, LMS, LMS.S, LMES.S,R RMS, RMES.S, RMS.L, RMES.L.S, RMS.S, RMS.L.S, RHS, RHS.L, RHS.S, RHS.L.S, LML,RML,RHL, RHP, FHS,FHS.S, FHS.L, FHS.R, FHS.R.S.FHS.R.L., FHS.R.L.S, RHS, RHS.L, RHS.L.S, RHP, RHP.HC)
	Winch (01, 02 ,04 ,08,10, 14, 20, 26 W05HC, W08HC, WS) Release Gear (HR, HRN, HRL)
GREBEN	Launching Appliances (FOD, GR-RTD, HD, HFF, GD-PD, RLC,r SAR ,SPG 9
	Winch (BE, CW, EW, EW-2, HW)
	Release Gear (NLH)
HAEAN MACHINERY IND. CO. LTD.	Launching Appliances (HED-PC)
	Winch (HHD-PC)
HATECKE	Survival Crafts (GFF, GSL, PEL, RB)
	Launching Appliances (GSPFP, GSP.O, DFR, DR, FFA, FFB)
	Winch (FFA)
	Release Gear (DUPLEX - > 6T, DUPLEX - <6T, GFF, SIMPLEX, SIMPLEX OFFLOAD, SIMPLEX 1,85)
HENRIKSEN	Release Gear (HMK; HCH)
HOEI SENPAKU	Survival Crafts (HS, HSF)
	Release Gear (HS)
HLB (HYUNDAI SURVIVAL CRAFTS)	Survival Crafts (HDL, HDR, HDFL, HDFN, HDFR, HLB, HT)
	Release Gear (TALON MK1, TALON MK 2)
HANYOUNG ENTERPRISE	Launching Appliances (RBD)
HYDRALIFT (TTS)	Launching Appliances (HL, HL9D)
	Winch (SP)



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HYDRAMARINE	Launching Appliances (HMC, HMD, TTS T)
NARWAL	Survival Crafts (SV)
NAVIM GROUP	Launching Appliances (FDRB, SGHD- L, SPHD- T, SPDT L, SPDT T, SPDT R)
NAVIGATIONS	Survival Crafts (1.1)
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Launching Appliances (L, YZ, YZF, ZFDZ)
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Survival Crafts (NM) Launching Appliances (NMPL, NMN, NMAR)
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Release Gear (HK)
NISHI-F CO., LTD., (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Survival Crafts (G-DR, G-TR, G-FR, FF, CML, EML, NF, NFA, PML, SM, FRP) Release Gear (ML, S NS, IHM/ 12 /13 SR-3)
NMF	Launching Appliances (BPK, KD.2)
NORMAR	Survival Crafts (FRC)
NOR DAVIT	Winch (SP)
NOREQ (PALFINGER)	Survival Crafts (LBF, LBP, LBT, RRB) Launching Appliances (NPD, NPDS, NRD, SCH, SCHD, SCM-L, SCH-R, SCM-R)
OY FISKARS AB	Survival Crafts (TELB)
OPTIMUN MARINE	Release Gear (31-37KN)
ORIENTAL PRECISION	Launching Appliances (DHA, DMA, FD, HGD, HGK, SHS, RD) Winch (BWE, SWE, RDW, WL)
PALFINGER (HARDING) (WATERCRAFT) (WATERCRAFT HELLAS) (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (MULDER & RYKE) (NED- DECK MARINE) (WATERMAN OY)	Survival Crafts (CTL, FF, KISS, MPC, NPT-C, NPT-F, NPT-FC, NPT-FF, NPT-P, RSQ, FRSQ, CTYL, MCB, ML, MOB, MOBRC, PELB, PERB, Mk 1,2,3,4, 5, 4.9 RB. WFF, 351, 361, 363, 365,366, 366HRL, 367,368, ,369, 371, 371 HR, 375, 374,377,378, 379,391, ,372, 393) Winch (BE, FME, CW, HD, LN, MW, W, 04, 15) Release Gear (ARH, CAR 35, CAR35F, FFH, KISS, LHR, LHR M2, NPT, RRH)



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PELEGRINI MARINE EQUIPMENT	Launching Appliances (CHCD 2,507+ RLC 2,1/4,5, GRA,)
PESBO S.A	Survival Crafts (BSC, BSL) Release Gear (BSL)
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD	Survival Crafts (BH-C, BH-T, BH-F, BH-R, BH-HR, BH-HR7B, BH-10, DOLPHIN, FRB) Launching Appliances (BD-AR, BD-PL, BD-PV, BD-FF, BD-FF, BD-SA, BD-SH) Winch (BW-LL, BW-HL, BW-HR, BW-SC) Release Gear (BG)
REDROCK	Launching Appliances (RDA, RDT)
SEC (SHIPS EQUIPMENT CENTRE)	Launching Appliances (HP2, MS) Winch (WL)
SEKIGAHARA	Launching Appliances (AT, SF, SFA, SFB, SFP, SHS, STS) Winch (SNW, SWE)
SERVO SHIP S.L	Launching Appliances (FFR, PR4M1100HR) Winch (FFRW)
SEZAMOR	Launching Appliances (ZZ-ZŁ J, ZZ-ZŁJ2, ZZ-ZOL, ZZ-ZOT) Release Gear (HLR, HS)
SHANGHAI HENGYUAN MARINE EQUIPMENT CORPORATION	Launching Appliances (FH, SAF)
SHIGI SHIPBUILDING CO LTD	Survival Crafts (FEL, SZBR, SZRS, SZTR / TRS, SZP, SZPR, VOX46, FRP) Release Gear (SRS, SZK5, SZK30)
SHIN MYUNG TECH	Launching Appliances (SMRBD-SD, SMRBD&LRD, SMRBD&PV, SMRB&LRD-FT)
STOCZNIA UTSKA SP. Z.O.O	Survival Crafts (Z, FFB, R, RIB) Launching Appliances (PZ, HZ)
SURVITEC (MAD ROCK)	Survival Crafts (FF, SC) Release Gear (SAFELAUNCH, ROCLOC, SLA 3.5)
SURVIVAL SYSTEMS INT	Survival Crafts (CA) Launching Appliances (PL)
T-ISS BV	Release Gear (PX01, 02, 03)
TSUNEISHI	Survival Crafts (TL-TE, KL-TE, KL-FP,TE,FP) Release Gear (43GS-1)
TSUJI HEAVY INDUSTRIES	Launching Appliances (H, RP, TC, T83) Winch (EB, TC)
ULSTEIN FAMA (FAMA GNIEW)	Launching Appliances (ZO, ZT) Winch (ERM, ER10B)



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VANGUARDE	Survival Crafts (VG-C, VG-F, VG-HLB, VG-KR, VG-DRS, VG-FRK, VG-FRW) Launching Appliances (DH, HS, LE, MS, PFH, PL, PR, PRH, SRH, VL, VS) Release Gear (SH, C-safe)
VERHOEF	Survival Crafts (DR, FL- 50) Release Gear (TWISTLOCK)
VESTDAVIT	Launching Appliances (L, P, PL, PLP, PLR, PLAR PLD, PAP, PAPH, Pli, TBD)
VIKING (NORSAFE) (JIANGYIN)	Survival Crafts (GES, JYN-T, JYN-C, MAUD, MAGGIE, MAXIMA, MINIMA, MIRAM, MATILDA) Launching Appliances (A, C, D, E, H, HD, LH, NDA, NDC, NRC-R, NDSC-R, NRB, SW) Winch (DW, HYD-FF) Release Gear (HRS, NFFH, K4, TOR MK1, TOR MK 2)
WELIN LAMBIE	Launching Appliances (LRW, SARBE) Winch (55; 5619, 53; 9502, 97 , RBW)
WUXI DONGWU	Launching Appliances (FREE-FALL LIFEBOAT DAVIT (F55-F70), GRAVITY - LUFFING ARM (18KN-110KN), GRAVITY RESCUE BOAT / RAFT DAVIT (21KN-35KN), GRAVITY ROLLING TYPE DAVIT (25KN-30KN), RESCUE BOAT (A30/ H35 DCW210 NPT100) Winch (DS/Z, D/Z)
WUXI HAIHONG	Survival Crafts (BH, BJ, BG, HH-C, HH-T, HH-TS, HH-CS, HH-FC, HH-FF, JG) Launching Appliances
WUXI HUAHAI	Launching Appliances Winch (HMW)
WUXI WENJIAO	Survival Crafts (BH, BJ, WJBF WJBC, WJFF, WJFFC, WJ, BH, BJ, WJ, WJRA, WJRB) Release Gear (HK)
WUXI SHENGOU	Launching Appliances (SMC, SMD, SHMDL, HMDA, SMDF, SMDP)
WUXI XINGSHENG	Release Gear (XS)
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Survival Crafts (YH, YH-FRA, YH-FRB, YH-DR, YH-QFP, YH-R) Launching Appliances (PL, L, FH, SAFC, SRH, ZF SAW) Winch (D, DP, JYRZ, SAW)
ZHEJIANG TAIZHOU WANTONG MARINE MACHINERY CO. LTD	Launching Appliances (YSJ)
ZHENJIANG WEST MARINE EQUIPMENT CO. LTD	Launching Appliances (WME-LRH) Winch (WME-LRH)
ZOLLERN	Winch (ZR, A2FM45-61A, ZHP)