NIPPON KAIJI KYOKAI

(Rewritten)

CERTIFICATE OF APPROVAL FOR FIRMS ENGAGED IN MAINTENANCE, THOROUGH EXAMINATION, OPERATIONAL TESTING, OVERHAUL AND REPAIR OF LIFEBOATS, RESCUE BOATS, FAST RESCUE BOATS, LAUNCHING APPLIANCES AND RELEASE GEAR

Certificate No. : **24TZ550**
Approval No. : **22LA015**

THIS IS TO CERTIFY that

Mizuno Marine Co., Ltd.

1-12-15 Meishinguchi Toyonaka-shi Osaka, Japan

is approved as a firm engaged in the servicing and maintenance of lifeboats, launching appliances, on-load release gear and automatic release hooks under the Society's Rules for Approval of Manufacturers and Service Suppliers incorporating IACS UR Z17, as amended.
This certificate is valid until **12 July 2027** subject to periodical assessment.

Issued at Tokyo on 11 December 2024.

See the conditions on the reverse.

NIPPON KAIJI KYOKAI

(M. Inoue)
General Manager of Survey Department

ClassNK

This certificate was rewritten because the licenses issued by makers have been changed.

This is to certify that the firm has been periodically or occasionally assessed in accordance with the regulations of Chapter 2, Part 1 of the Rules for Approval of Manufacturers and Service Suppliers.

The Periodical Assessment was completed on 7 October 2024.

Periodical Assessment *Date* _____

Signature _____

Surveyor to NIPPON KAIJI KYOKAI

Occasional Assessment *Date* _____

Signature _____

Surveyor to NIPPON KAIJI KYOKAI

Conditions for Approval:

1. This Certificate is valid subject to validity of certificate for personnel issued for each make and type of the equipment listed in the attachment.
2. This service supplier has been approved to service the equipment listed in the attachment in accordance with MSC. 402(96).
3. The service has been properly conducted and reported in accordance with the requirements of the Rules and the relevant Regulations.
4. Where there is any alteration to the service approved by this certificate, the Firm should notify immediately to the Society.

Attachment to
Certificate Number 24TZ550

Make	Type
Jiangsu Jiaoyan Marine Equipment Co., Ltd. (ex. Jiangyin Xinjiang F.R.P. Co., Ltd.)	**Free Fall Lifeboat** - JY-FN-4.9, JY-FF-4.9, JY-FN-5.8, JY-FF-5.8, JYM-FN-6.65, JYM-FF-6.65, JY-FN-6.8, JY-FF-6.8, JY-FN-7.5, JY-FF-7.5, JY-FN-8.5, JY-FF-8.5, JY-FN-9.5, JY-FF-9.5 **Rescue Boat** - GJ4.2, GJ4.25, GJ4.5, GJ5.0, GJ5.25, GJ6.0B-1, GJ6.10, GJ7.50, GJ8.0Q-2, GJ8.5Q-2 **Totally Enclosed Lifeboat** - JY-QFP/N-5.0, JY-QFP/N-5.25, JY-QFP/N-5.6, JY-QFP/N-6.0A, JY-QFP/N-6.50, JY-QFP/N-7.0, JY-QFP/N-7.5, JY-QFP/N-7.50A, JY-QFP/N-8.00, JY-QFP/N-8.50, JY-QFP/N-8.50X, JY-QFP/N-9.35, JY-QFP/N-10.90A **Hook** - JX and JXN Series **Gravity Luffing Arm Type Davit** - JYL52, JYL55, JYL65, JYL85, JYL105, JYL135 **Launching Appliance** - JYF55, JYF75, JYF75-B, JYF90 **Platform Davit** - JYP65, JYP85, JYP105, JYP135 **Single Arm Davit** - JYR21, JYR21S-A, JYRC21, JYR14, JYRH14, JYRH21, JYR26, JYR30, JYR23 **Electric Boat Winch** - FW45, JYW42, JYW50, JYW70, JYW100, JYWP70, JYWP100, JYWP135, JYW35, JYRZ21
Global Davit GmbH	**Launching and recovery appliances for single point suspended life-saving crafts** Type Code: X1X2X3.x4.x5.x6 where X1=F/L/R, X2=g/h/m, X3=p/s/t, x4-x6(options)=L/R/S **Launching and recovery appliances for double point suspended life-saving crafts** Type Code: X1xx2XX3.x4 where X1=G, xx2=sp/lp, XX3=FP/FL/MP/TT, x4=h **Winches for launching and recovery of life saving appliance** Type Code: X1NN1X2 where X1=W, NN1=output torque in kNm, X2=HC/L/R/M/E

	Release gears for liferaft and/or rescue boat handling HRN.12, HRN.28, HRL.26
Hatecke GmbH	**(Fast) Rescue Boats** - RB AB, RB AB Duplex, RB AB FH, RB IB, RB/FRB AB FH, RB/FRB IB, RB/FRB IB DUPLEX **Launching Appliances** - FFA, FFA LP, FFB, Gsp.FLH, Gsp.O, GspFP, W07, W10, W26 **Lifeboat** - GFF, GFF-T, GSAR, GSL, GSL-T **Release Gear** - Duplex 2.6, Duplex 3.0, Duplex 3.5, Duplex 4.3/4.6, Duplex 6.0, GFF-R-10, GFF-R-11, GFF-R-8, RAFTI 2.5, Simplex 2.0 Off-Load, Simplex 2.0 to, Simplex 2.0i, Simplex 3.0, Simplex 4.3, Simplex 6.0
Oriental Precision & Engineering Co., Ltd.	**Hinged Gravity Type Davit & Winch** - Davit: HGD series, HGK series, SHS series, RTD series, DHA series, DMA series - Winch: BWE series, SWE series, WL series **Free Fall Davit & Winch** - FD series, WL series **Rescue/Liferaft Davit & Winch** - RD series, RDW series
HLB (ex, Hyundai Lifeboats) Co., Ltd.	**Lifeboat & Rescue Boat** - Series of HD, HT, HDL, HLB, HDF, HDFL, HDFN, HDR, HDFR **Release Mechanism** - Series of THP, Titan, Talon, Talon II
BADA Heavy Industries (ex, D.R.M) Co., Ltd.	**Davit** - Series of DRM, DRBD, BDH, BDTD, BDHP, BDTW, BDRW, BDM, BFOD, HDL, BHR, FF, HDFL, HDF, BDF, BDFD, BDR, BDH, BDA, BDFA, BDL, BDR, BLR, BHI **Winch** - Series of DRM, DRBW, HLDF, BAW, BDF, BDFD, HDFL, BHI, BLR, BLW, BMW, BRW, BWL, BWR, FHW **Release Mechanism** - Series of BDR, BHA, BHR
Jiangyin Wolong F.R.P Boat Co., Ltd.	**Totally Enclosed Lifeboat** - JY50C/F, JY50CA/FA, JY57C/F, JY60C/E/F, JY65C/F, JY70C/F, JY80C/F, JY80CA/FA, JY85C/F, JY85CA/FA, JY85CB/FB, JY93C/F, JY102/F, JY117C/F **Free Fall Lifeboat** - JY49CF/FF, JY59CF/FF, JY67CF/FF, JY85CF/FF, JY109CF/FF **Rescue Boat** - JY40KR, JY42KR, JY45DR, JY45KR, JY50R, JY54KR, JY60KR, JY65KR, JY75KR, JY85KR **Partially Enclosed Lifeboat** - JY70P, JY80P, JY85P

	Open Type Lifeboat - JY45KR, JY55K, JY65K, JY70K, JY75K, JY80K, JY85K **Gravity Luffing Arm Type Davit** - JY-LE65, JY-LE85, JY-LE100, JY-LE150 **Launching Appliance of Free-Fall Lifeboat** - JY-FH55, JY-FH70, JY-FH90, JY-FH155 **Platform Davit** - JY-PL70, JY-PL110, JY-PL150, JY-PL185, JY-PL215 **Single Arm Boat/Raft Davit** - JY-SAF21, JY-SAF23, JY-SA23S, JY-SA37S, JY-SR33S, JY-SAF33, JY-HSR23/16, JY-HSR33/23, JY-FCR2066, JY-FCR2305 **Rescue Boat Davit** - JY-PLR21, JY-LFR27, JY-LRHE18, JY-LRHE30, JY-LRHE70, JY-LFR35, JY-SAP14, JY-SAP30 **Gravity Overhead Rolling Type Davit** - JY-HE70, JY-HE95, JY-HE120, JY-HE155 **Telescopic Boom Type Davit** - JY-TBD 120, JY-TBD 215, JY-TBD35 **Hydraulic Luffing Arm Type Davit** - JY-GYE70, JY-GYE120, JY-GYE185 **Connecting Rod Type Davit** - JY-GL70, JY-GL95, JY-GL120, JY-GL185 **Winch** - JY-SAP14, JY-D23Z, JY-D23/16Z, JY-SAFC23, JY-D33/23Z, JY-SAF33, JY-LRHE30, JY-PLR21, JY-LFR27, JY-LRHE70, JY-D50S/Z, JY-D70S/Z, JY-D85S/Z, JY-D110S/Z, JY-DW125S, JY-DP110S/Z, JY-DP150/Z, JY-DP185, JY-DP215 **Release Mechanism of Lifeboat/Rescue Boat** - HK40, HK40A, HK50B, HK50A, FHK70, HK70, HK115, LB60MR, LB80MR, LB120MR, FHK80, FHK90, LB35MRS, LB70MRS
d-i davit international-hische GmbH	**Crane for Freefall Boat** - C-F series, C-L series **Crane for Boat Handling** - C-S series **Free-fall Davit** - D-F series (Free-fall only), D-TF series, D-FH/FG series **Roller Track Davit** - D-RT series (Roller Track Davit only) **Fixed Offshore Davit** - D-FO series **Normal Pivot Davit** - D-NP series excl. D-NP. MP and D-NP. SP series **Boat Davit** - D-BC series, D-BR series

	Rescue Boat Davit - D-CL series, D-CR series, D-NPS. SP series, D-SR series, D-NPS. MP series, D-RTT series **Raft Handling Davit** - D-RC series, D-RB series **Rescue Boat Hook** - RH series, OLH series **Liferaft Hook** - OLRH series **Fast Rescueboat Davit** - D-CRm. FR series, D-CRm. MOR series, D-CRm. R. FR series, D-NPS. FR series **Lifeboat Davit** - D-NP. MP series, D-NP. SP series, D-WP series, D-FP series, D-ND series **Lifeboat or Rescueboat Davit** - D-TT series
Mansei Inc.	**Davits** - Series of EBD-, EM-, ABD-, AH-, AT-, AV-, EH-, ET-, EV-, M-, CM-, D-FH., DE-FH., MFE-, MFH-, SR-, SRE-, R-, S-, RD-, EHR- **Winches** - Series of EBW-, ABW-, AW-, EW-, MW-, CMW-, 06., FW-, SW-, RMW-, MLW-, ERW- **Release Hooks** - Series of RH-
Miura Machine Co., Ltd.	**Davits** - Series of SP, MVD, GRA, SAR **Winches** - Series of BH, BE, BA
Qingdao Beihai Boatbuilding Co., Ltd. (Ex. Boatbuilding Branch Qingdao Beihai Shipbuilding Heavy Industry Co., Ltd)	**Totally Enclosed Lifeboat** - BH-5, 5A, 5S, 5SA, E500, E585, 6, 6A, 6S, E670, 7A, 7B, 8 **Freefall Lifeboat** - BH-F6.0, F7.0A, F7.8, F8.1, F5.8, F6.8, F660, F670, F750, F900/A **Rescue Boat** - BH-R4, R4S, R4SA, R5S **Gravity Pivot Davit** - BD-PV50, PV60, PV60S, PV85, PV125 **Freefall Launching Davit** - BD-FF55, 55A, 55R, FF80, 80A, 80R, 80B, FF65/66/67, FF85 **Single Arm Davit** - BD-SA14, 14A, 14B, SA21, 21A, SA23, SA30, 30A, SA33, SH23 **Winch** - BW-H(L/R)31S, 50, 63, 75, L(L/R)75, 125, SC14, 21, YSB series hydraulic winch

	Gravity Lifeboat Release Mechanism - BG-3, 3L, BG-7, BH-HOOK3, HOOK5, FS5, FS7 **Freefall Lifeboat Release Mechanism** - BG-3F, 3.5F, 4F, 4.5F, 4.5FL, 5F, 6F **Rescue Boat Release Mechanism** - BG-2R, 15KNXS, 25KNXS, 35KNXS
CSSC Luzhou Zhenjiang Marine Auxiliary Machinery Co., Ltd	**Gravity Davit** - LE45-1/55-1/65-1/85-1/100-1/138-1/170-1, HE65/85/100/138, H170, RE50/60/80/100, SRH65/85/100/120/150/170/200/230, GL65/85/110/138/165, TG65/85/110/150/170/200/230, HT80/100/150/210, LC400, RC60-EB **Launching Appliance Davit** - FH55/70/75/85/100 **Single Arm Davit and Crane** - SAF14/21, SAFC21/25, SA21/32, HDCL2-6.5/3-6/3-10, LA25/35, SH-21, DH30 **Off-Shore Davit** - PL65/85/100/110/120/138/150/180/200/230 **Fastrescue Boat Davit** - LFR30/35/55, LFRH30/60, LEFR50, DH30, SAWH30/45/60 **Boat Winch** - D21KN/D25KN/D32KN/D35KN/D48KN/D63KN/ D65KN/D80KN/D100KN/D120KN/DP65KN/DP85KN/ D100PKN/DP110KN/DP120KN/DP138KN/DP150/ DP180KN **Totally Enclosed Lifeboat** - YH5.0QFP/QFN, YH6.5QFP/QFN, YH8.5QFP/QFN/QFP-A/QFN-A, YH10.3QFP/QFN, YH9.5QFP/QFN, YH12.0QFP/QFN, YH9.9BFP, YH12.5BFP, ZZHG-BF-12.5 **Free Fall Lifeboat** - YH5.9FP/FN, YH6.7FP/FN, YH7.5FP/FN, YH8.5FP/FN **Fast Rescue Boat** - YH6.0FRA/FRB, YH6.5FRA/FRB **Rescue Boat** - YH4.5R/4.5DR/7.5 **Hook** - HK25/25B/40/40C/65, SH55/70/85, Handle release hook 15KN, Automatic release hook 21KN/23KN/25KN/35KN
Fassmer Service GmbH & Co. KG.	**Davit Launched Totally Enclosed Lifeboat** - GMR 5.9/6.5/7.4/8.3, - TGMR 5.9/6.5/7.4/8.3, - CLR-C 5.9/6.4/6.8/7.2/7.6/8.1/8.5, - CLR-T 5.9/6.4/6.8/7.2/7.6/8.1/8.5, - CL-C 8.9/9.4/9.8/10.2/10.7/11.1/11.5/11.9/12.4/12.8/13.2, - CL-T 8.9/9.4/9.8/10.2/10.7/11.1/11.5/11.9/12.4/12.8/13.2, - CLX (R)8.5/10.0/11.7/12.8

	Freefall Lifeboat - CFL 4.9/-T4.9, - GAR 6.0/-T6.0/6.8/-T6.8/6.7/-T6.7/7.4/-T7.4/8.1/-T8.1/ -T8.1/7.7/-T7.7/8.5/-T8.5, - CFL-C66/72/77/83, - CFL-T66/72/77/83 **Partially Enclosed Lifeboats** - CL-P 5.9/6.4/6.8/7.2/7.6/8.1/8.5/8.9/9.4/9.8/10.2/10.7/ 11.1/11.5/11.9/12.4/12.8/13.2, - SEL 8.15/8.8/9.6/10.5/10.55/11.80/12.5/-R 8.15/15.75/ -T 10.75 **Partially enclosed Lifeboats – Tenderboats** - TL Limo 1100, - SEL-T 11.0/11.7/12.3/14.0/14.7/15.75, - PLL 1099, - PLT-EVO 170 **Partially Enclosed Lifeboats, Tenderboat and Rescue Boat** - SEL-RT 7.7/7.5/8.5 **Partially Enclosed Life-and Crew Tenderboats** - SEL 11.0 (-T) **Partially Enclosed Life-/Rescue-/Work-/Tender-Boats** - SEL-R 7.4/8.5 **Rigid Rescueboat** - RR 4.2/4.2-M/4.5 ID **Rescueboat** - RIR 625 ID **Fast Rigid Rescueboat** - FR (I)R 6.1/6.1ID, - FRR 6.2 ID/6.5 ID-SF/6.6 ID/7.0 ID-SF/7.0, - FRIR 6.25 **NAVY RHIB** - SFB 10.1 **Freefall Lifeboat Release Mechanism** - FFRU 6.6 **Offload Rescue Boat Hook** - FOH 27/30/70 **On Load Release Gear** - Duplex 25E2/2.5E/50E2/5.0E/60E2/6.6E/10E/140E2/14E/ 17E/180E2/230E2/23E, - 2.5T/5.0T/10T/14T/17T/23T **Fassmer Hydraulic Davit** - FHD 80/100/120/130/150/170/172/280/450 **Hinged Davit** - FHDY 100 **Freefall Davit** - FFH 45/65/49/50/60/66/70/72/75/77/80/83/85/90 **Pivot davit** - FPD 55/60/100/80/120/150/170,

	- FFD D60 **Freefall Ramp** - FLR49/66/8005/8006/8007 **Multi Pivot Davit** - FMPD 100/130/150/160 **Outrigger Davit** - FOD 100/120/130/150/170/190/40R/50/55/80/ LBC 300/SAR 40/-R 22/-R 23/-R 25/-R 40/TC 450 **Rescue Boat Davit** - FOSV 71, - FSAH 22 **Rescue Boat Crane** - FSAH 28, 32, - FSAR 12/3.5, 14/2.9, 14/3.5, 21/4.0, 21/4.5, 22/4.5, 28, 40 **Rescue Boat/Liferaft Crane** - FSARR 14/3.5, 21/3.8, 21/4.0, 21/4.3, 22/4.0 **FRC Crane** - PRHE 30 **Fassmer Winch** - DEW 40/85/2000 **Fassmer Winch/Rescue Boat Crane** - DEW 8/150, - FWD 40 RB **Fassmer Freefall Winch** - FFWH
Fassmer-Marland Ltd.	**Davit Launched Totally Enclosed Lifeboat** - DRAGON 26C, 26T, 32C, 32T, 38C, 38T - GMR 6.5, -T6.5, 7.4, -T7.4 - HH57C, 57T, 65C, 65T, 70C, 70T - CLR-C5.9, T5.9 **Freefall Lifeboat** - GAR 6.7, -T6.7, 7.4, -T7.4 - CFL-C49(E), T49(E), C66(E), T66(E), C72(E), T72(E), C77(E), T77(E), C83(E), T83(E) **Rigid Rescue Boat** - RR4.2/RR4.2-M - RRH4.2 - RR4.2 ID **Fast Rigid Rescue Boat** - FRR6.1 ID, 6.2 ID **Onload Release Gear** - Duplex 2.5, 2.5E, 25E2, 5.0, 5.0E, 50E2 - HH43 (Hain Hong type) **Pivot Davit** - FPD-D60, D68, DH68 - SRH70 **Freefall Davit** - FFH49, 49D, 66, 66D, 72, 77, 83

	Freefall Ramp - FLR49, 66, 72 **Rescue Boat Crane** - FSAR 14/3.5HS, 4.0/3.5HS, 21/4.0HS, 25 - FSARR 14/3.5HS, 21/4.0HS, 22/4.0HS - FMAH 22KN **Winch for Pivot Davit** - DEW 15-24, 15-35, 15-44 - D52L/D52R - DW34S/DW34Z MW50/MW50C for Davit - FPD-D60 **Winch for Freefall Davit** - FW35 **Winch for Rescue Boat Crane** - DEW 150, 450 - RZ25
Hai Hong Boat Making Co., Ltd. (Guangzhou)	**Davit Launched Totally Enclosed Lifeboat** - HH57C, 57T, 65C, 65T, 70C, 70T (Hai Hong type) **On Load Release Gear** - HH43 (Hai Hong type)
Sanyo Works Co., Ltd. Kambara Ringyo Co., Ltd. Tsuneishi Forestry Construction Co., Ltd. Tsuneishi Holdings Corporation Tsuneishi Forestry Construction Company	**Lifeboat** - 7.32M open type, KL-6.5TE, KL-6.5FP, TL-6.5TE, TL-6.5FP, TL-5.7TE **Release Gear** - Fixed type hook, 43GS-1(A), 43GS-1(B), 43GS-1(C), 43GS-1(D)
Sangsangin Industry Co., ltd. (ex. Dongnam Marine Crane Co., ltd. and Dongnam Enterprise)	**Davit/Launching Appliances** - Hinged Gravity Type (DHG57-FM, HGW-40-FM, DHG-70-FM, HGW-52-FM, HGW-50-FM, DHG-73-FM, HGW-61DM, DHGD-11-E2E7) - Single Arm Type (DLRD, DRLD, DSAD, PV combined, DCHH, DPR, DNR, DRBD, DSAC, BSNKJ) - Freefall Type (FF, HDF) - DSAM11-E2M0
VIKING-NORSAFE (Jiangyin Jorgensen & Vik Watercraft Hellas)	**RB/FRC/Liferaft Davit** - NDA, NDC, NDSC, NRB, NRC **Winch** - NW-NO, NW, NWR

	Lifeboat Davit - A, C, D, E, GRA, H, LH, LHD, ND-SPG, NDC-L, SPGL **Rescue Boat/FRC** - GRP1, Magnum, Mako, Matrix, Merlin, Midget, MOB, RIB-450, RIB-500, WHFRB **Freefall Davit** - H, HD, SW **Release Gear** - 1.6T on-load/off-load, DIB, HK, HRS, K4, NFFH, NLH, RCH, TOR **Freefall Lifeboat** - GES **Conventional Lifeboat** - 11.5PE, 8.5PE, Evolution, JYN, Maggie, Maria, Mathilda, Maud, Maxima, Mina, Minima, Miriam, MKV, Watercraft 378
Shin Myung Tech Co., ltd.	**Launching Appliances** - SM-LRD, SMRB&PVH, SMRB&LR, SMRBD-LSW, SMLRD-LSW, SMRB&LR-NLSW

-- The End --