



Lloyd's Register Approved Service Supplier

Supplier	Technofibre Australia Pty. Ltd.
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The above company having been assessed hereby receives approval in accordance with the requirements of Lloyd's Register Procedures for Approval of Service Suppliers as Supplier from the address(es) listed above for the provision of

Maintenance, thorough Examination, Operational Testing, Overhaul and Repair of Lifeboats and Rescue Boats, Launching Appliances and Release Gear
Service Supplier's personnel are certified in accordance with a recognised standard (ISO 23678) and manufacturer's established certification programme. Refer to Appendix A. This Service Supplier has been approved to service the equipment in accordance with IMO Resolution MSC.402(96), as amended. Service engineers are to be provided with a valid Certificate, issued by this Approved Service Supplier, which defines their level of qualification and the scope of the certification (i.e. makes and types of equipment and specifically state which activities (e.g. annual thorough examination and operational tests; 5-year thorough examination, overhaul; overload operational tests; repairs) are covered by the certification). This Certificate should be made available when requested.

This approval is conditional upon the Supplier maintaining the documented scheme as audited by any member of the Lloyd's Register Group and hereby approved; and notifying Lloyd's Register in writing of any change to that scheme including any change in personnel, equipment or procedures. This certificate is issued to the Supplier and, subject to the Supplier complying with the necessary conditions, is valid to the date referred to above.



Appendix A

Office: **Perth**

Date: **01 December 2025**

This Certificate is issued to Technofibre Australia Pty Ltd

MANUFACTURER	TYPE OF EQUIPMENT	MODEL
Acebi (JB)	Davit, Winch	Enclosed/Freefall/Rescue Boat Davit: R3-RRP, RRP/RAD, RB/RRP, GRB-RTP, HF, MN, GT, ROR, GRA, SPG Enclosed/Freefall/Rescue Boat Winches: THH / TEP / TH / TE / TBP / TBE / TBH / TA / TAB / TBM / TR / TR3 / TRB / TRE / AC-QFP-5.00/6, 50/7, 00/7,50 / FRB AC-GJ6,10
Iknow Machinery Co., Ltd. (JB)	DAVIT WINCH	Davit: (H, T, TC) Series Winch: (EB, TC, OAP) Series
Nishi-F Co., Ltd. (JB)	LIFEBOAT FREE FALL LIFEBOAT WITH RESCUE BOAT RELEASING GEAR MECHANISM	G-Series, ML-Series, F-Series
Sekigahara Seisakusho Co., Ltd. (JB)	DAVIT	Gravity type davit: SH, SFB, SHS, STS, SSS Free-Fall life boat davit: SFS, SFA, SFB, SFC, SFD Rescue boat davit: SJS, SJR
Davit International (JB,SR)	DAVIT WINCH HOOK RELEASE	Davit & Winch: C-F series, C-S series, D-F series, D-TF series, D-FH/FG series, D-RT series, D-FO series, D-NP series, D-BC series, D-BR series, D-CL series, D-CR series, D-NPS. SP series, D-SR series, D-RC series, D-RB series. Hook Release/Mechanism: RH series, OLH series, OLRH series, HS series, ARH and CAR series, PX series
Jiangyinshi Beihai LSA Co., Ltd. (JB, SR)	LIFEBOAT FREE FALL LIFEBOAT RESCUE BOAT FAST RESCUE BOAT RELEASING GEAR MECHANISM LA-DAVIT & WINCH	Boat: Series of SC, JYB Hook: Series of JYBHK Davit: Series of SAC,SA,FA,LA,BHGH,PD,FRH,EHRD,SRH,BHGP,RB,HB,HDC,ESAD

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<p>Boatbuilding Branch Qingdao Beihai Heavy Industry Co., Ltd. (JB)</p>	<p>LIFEBOAT FREE FALL LIFEBOAT RESCUE BOAT FAST RESCUE BOAT RELEASING GEAR MECHANISM LA-DAVIT & WINCH</p>	<p>Totally Enclosed: 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,F900A Rescue boat: BH-R4,R4S,R4SA,R5S</p> <p>Gravity Pivot Davit: BD-PV50,PV60,PV60S,PV85,PV125 Freefall launching davit: BD- FF55,55A,55R,FF80,80A,80R,80B,FF66,FF67,FF85 Single arm davit: BD- SA14,14A,14B,SA21,21A,SA23,SA30,30A,SA33,SH23 Winch: BW- H(L/R)31,50,63,75; L(L/R)75, 125; SC14;21</p> <p>Gravity lifeboat release mechanism: BG-3,3L, BG-7; BH-HOOK3,HOOK5,FS5,FS7 Freefall lifeboat release mechanism: BG-3.5F, 4F, 4.5F,4.5FL,5F,6F Rescue boat release mechanism: BG-2R, 15KNXS, 25KNXS, 35KNXS</p>
<p>Vanguard Pte Ltd (JB)</p>	<p>LIFEBOAT FREE FALL LIFEBOAT RESCUE BOAT FAST RESCUE BOAT RELEASING GEAR MECHANISM LA-DAVIT & WINCH</p>	<p>Lifeboats: VG4.9, VG5.9, VG5.7, VG7.5, VG8.5, VG9.6, VG10.5, VG11.95, VG12.05 Rescue/Fast Rescue Craft: VG4.0, VG4.5, VG6.</p> <p>Hooks: QRH35, CSAFE3.5, CSAFE5, CSAFE5 MKII, CSAFE8.5, CSAFE8.5, MKII, CSAFE10, CSAFE10 MKII, CSAFE14</p> <p>Lifeboat & Rescue boat: VG/VG- FF/FC/KR/DB/DRS/DR4/HLB/HLBLR/FRK/FRW Hook (LRRS): C- SAFE/SPEARHEAD/HK/SHF</p> <p>Davit: LVD/PL/A/PLR/SRH/LR/VA/VAE/VL/VL-G/VS Winch: DW/D / DW/S / SLR / DWP / HW / PRH / VWL / VW/S / VW/Z</p>
<p>Ningbo Asia FRP (JB)</p>	<p>LIFEBOAT FREE FALL LIFEBOAT RESCUE BOAT FAST RESCUE BOAT RELEASING GEAR MECHANISM</p>	<p>Lifeboat/Rescue Boat/FRC/Freefall Lifeboats: Y24.5, VZ4.5S, VZ4.5SA, Y245R, Y145R1, VZ60RA, Y260RB, VZ60RA1, Y260RI31, VZSOC, VZSOi=, YZ65C, VZ65F, VZ6SCS, VZ65FS, Y275C, VZ75F, VZ50CS, Y265CI, Y265CS1, VZSOFS, VZ65FI, VZ49FC, VZ49FF, Y259FC, VZ59FF, VZ60FC, Y260FF, YZ675FC, YZ675FF</p> <p>Enclosed lifeboats/Freefall lifeboat Davit & Winch: I25, LSO, VZL-55, I65, I65S, LE85-1, VZFSS, VZF70</p> <p>Rescue Boat/FRC Davit & Winch: OS25, OZ25, DS40, OS/Z40, VZD-425 VZ0-42Z, OS58, DZ58, DSOS D50, D63S, 0632, ZF21/15 OZ1.4, ZF21 DZ14, ZF25 DZ14, ZF23 DZ14 ZF33 DZ25, B21/14, B21/14-2.5, Zf25 DZ2S, Y2-A30, VZ-A30D, VR30</p> <p>Hooks: HK40, HK40B, Y2HK40, VZHK40S, FHK40, PS-1, VZ-HB15</p>

<p>Wuxi Hai Hong Boat Making Co., Ltd. (JB, SR)</p>	<p>LIFEBOAT FREE FALL LIFEBOAT RESCUE BOAT FAST RESCUE BOAT RELEASING GEAR MECHANISM</p>	<p>Totally enclosed/Rescue boat Series: HH50C/HH50T,HH53C/HH53T, HH57C/HH57T, HH65C/HH65T, HH65CS/HH65TS, HH70C/HH70T, HH75CS/HH75TS, HH75C,HH80CS/HH80TS, HH85C/HH85TS Freefall Lifeboat Series: HH59FC/HH59FF, HH76FC/HH76FF Rescue boat Series: GJ4.5B/GJ4.5B1 High Speed Rescue boat: GJ618A/GJ618B</p>
<p>Fassmer-Marland Ltd (JB)</p>	<p>DAVIT & WINCH LIFEBOAT FREE FALL LIFEBOAT RESCUE BOAT FAST RESCUE BOAT RELEASING GEAR MECHANISM</p>	<p>Lifeboat/Rescue Boat/FRC/Freefall Lifeboats: DRAGON 26C, DRAGON 26T, DRAGON 32C, DRAGON 32T, DRAGON 38C, DRAGON 38T, GMR 6.5, GMR-T6.5, GMR 7.4, GMR-T7.4, HH57C, HH57T, HH65C, HH65T, HH70C, HH70T, CLR-C5.9, CLR-T5.9, GAR 6.7, GAR-T6.7, GAR 7.4, GAR-T7.4, CFL-C49(E), CFL-T49(E), CFL-C66(E), CFL-T66(E), CFL-C72(E), CFL-T72(E), CFL-C77(E), CFL-T77(E), CFL-C83(E), CFL-T83(E), RR4.2/RR4.2-M, RRH4.2, RR4.2 ID, FRR6.1 ID, FRR6.2 ID Davits: FPD-D60, FPD-D68, FPD-DH68, SRH70, FFH49, FFH49D, FFH66, FFH66D, FFH72, FFH77, FFH83, FLR49, FLR66, FLR72, FSAR 14/3.5HS, FSARR 14/3.5HS, FSAR 4.0/3.5HS, FSAR 21/4.0HS, FSARR21/4.0HS, FSARR22/4.0HS, FMAH 22KN, FSAR 25. Winches: DEW 15-24, DEW 15-35, DEW 15-44, D52L/D52R, DW34S/DW34Z, MW50/MW50C, FW35, DEW 150, DEW 450, RZ25. Hook/Release Mechanism: Duplex 2.5, Duplex 2.5E, Duplex 25E2, Duplex 5.0, Duplex 5.0E, Duplex 50E2, HH43 Hai Hong Type</p>
<p>Japan Marine United Corporation (JMU) Ex IHI Craft, Ex IHI AMTEC, Ex IHI Marine United. (JB)</p>	<p>DAVIT & WINCH LIFEBOAT FREE FALL LIFEBOAT RESCUE BOAT</p>	<p>Lifeboat/Rescue Boat/FRC/Freefall Lifeboats: GF80B / GF80C / GF80E / GF80F / GF80G / GF80H / GTR57(C,F) / GTR57JY(C,F) / GTC60C / GTC65(C,F) / GTC70(C,F) / GTC75(C,F) / GT65F / GT70F / GT75F / MU-FN-5.8J / MU-FF-5.8J / MU-FN-6.8J / MU-FF-6.8J / S65A / S773A / S75A / 80A / G73B / G73C / G75A / G80A / MUL52 / MUF55J / MUF75J / MU-GJ4.5J / MUR21J. Davits & Winch: MUW42R, MUW42L</p>
<p>Wuxi Hua Hai Marine (JB, SR)</p>	<p>Davit, Winch</p>	<p>Lifeboat/Rescue Boat/FRC/Freefall Lifeboats: N/A Enclosed lifeboat Davit: HML 60, HML 85, HMD 60 Freefall Lifeboat Davit: HMD55F, HMD70F Rescue Boat Davit: HMD14A, HMD30A, HMD30A2 Enclosed lifeboat/Freefall lifeboat/Rescue Boat Winch: HMW 21, HMW 25, HMW 50, HMW 75, HMW 100, HMW 110, HMW 140, HMW 185</p>
<p>Zhenjiang Hengxin Ship Equipment Co. Ltd. (SR)</p>	<p>LIFEBOAT FREE FALL LIFEBOAT RESCUE BOAT FAST RESCUE BOAT RELEASING GEAR MECHANISM DAVIT & WINCH</p>	<p>Lifeboat/Rescue Boat/FRC/Freefall Lifeboats: BCC, BCF, BCFC, BCFF, GJ, FRH, RH Davits: FH, SA, HDC, LFR, LR, HE, PD, SRH, LB, KN Hook/Release Mechanism: HK</p>

Zhenjiang DH Marine Equipment Co., Ltd. (JB)	LA-DAVIT & WINCH	Davits & winches: HSD15, HSD23, HSD30, MSD23, MSD33, PR15, PR30, LPRH30, PRH35, LPRH90, LE90, LE120, SRH120, SRH200, SRH220, SRH260
Jiangsu Jiaoyan Marine Equipment Co., Ltd. (JB)	LB, FFLB, RB, FRB, RG, LA-D&W	Freefall 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 Rescue boat : GJ4.2/GJ4.25/GJ4.5/GJ5.0/GJ5.25/GJ6.0B-1/GJ6.10 Totally enclosed lifeboat : JY-QFP/N-5.0/JY-QFP/N-5.25/ GTR57JYC/F/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 Hook : JX-1/JX-2/JX-3/JXN-1/JXN-3 Gravity luffing arm type davit : JYL52/JYL55/JYL65/JYL85/JYL105/JYL135 Launching appliance : JYF55/JYF75/JYF90 Platform Davit : JYP65/JYP85/JYP105/JYP135 Single arm davit : JYR21/JYRC21/JYR14/JYRH14/JYRH21 Electric Boat Winch : JYW42/JYW50/JYW70/JYW100/JYWP70/JYWP100/JYWP135
TISS HOOKS (JB)	Release gear mechanism	T-ISS PX-01, PX-02, PX-03
Zhejiang West Marine (SR)	Davit, Wincg	Lifeboat/Rescue Boat/FRC/Freefall Lifeboats: N/A Enclosed lifeboats Davit & Winch: WME-MGD 185 Rescue Boat/FRC Davit & Winch: WME-SAD14, WME-SAD23, WME-SAD30, WME-LR30, WME-LRH 30, WME-LRH35, WME-LRH75, WME-HTD30

MULTIBRAND AS PER ISO/PAS 23678:2020

LIFE SAVING APPLIANCES

Make	Type	Model
A TECH	Single arm Slewing	AT-LRD-series
ABAS	Single arm Slewing	KDE-series, MDE-series
ACEBI	Free fall secondary hydraulic A Frame	TPF-series
ACEBI	Gravity single and twin fall outrigger	A-series, AF-series, PF-series
ACEBI	Single arm Slewing	PFR-series, RRP-series, TPU- series
ACEBI	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	TPF-series, TPU-series
ACEBI	Twin / Single Fall Gravity Rollertrack	GRA-series
ACEBI	Twin Fall Gravity Pivoting / Luffing	SPG-series

ACEBI	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	TPC-series
ACOIN	Single arm Slewing	R18700-series
ACTA	Free fall secondary hydraulic A Frame	HSC-series
ACTA	Single arm Slewing	DC-series, DR-series, HSC-series, MOB-series
ALEXANDER RYAN	Gravity single and twin fall outrigger	BH-series
ARIM	Single arm Slewing	AREH-series, ARPV-series
ARIM	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	ARPV-series
ARIM	Twin Fall Gravity Pivoting / Luffing	AHA-series
AUKRA MARITIME AS	Twin / Single Fall Gravity Rollertrack	HRT-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Free fall secondary hydraulic A Frame	BDF-series, HDFL-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Gravity freefall primary	BDF-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Gravity single and twin fall outrigger	BFOD-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Single arm Slewing	BDR-series, BLR-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	BDA-series, BDFA-series, BFRD- series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	BDTD-series, TT-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Twin / Single Fall Gravity Rollertrack	BDTW-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Twin Fall Gravity Pivoting / Luffing	BDH-series, BDMS-series, HINGED GRAVITY-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	BDTD-series
BADA HEAVY INDUSTRIES CO., LTD.	Free fall secondary hydraulic A Frame	HDF-series, HDL-series
BADA HEAVY INDUSTRIES CO., LTD.	Single arm Slewing	BHI-RLD-series
BADA HEAVY INDUSTRIES CO., LTD.	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	BDHP-series
BIANCHI & CHECCHI	Gravity single and twin fall outrigger	PE-series, PET-series

BOPP TREUILS JEB	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	BHD-series
COASTAL MARINE EQUIPMENT, INC.	Single arm Slewing	D-series
CRAMM YACHTING SYSTEMS B.V	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	CDT 7000-series
CSSC LUZHOU ZHENJIANG MARINE AUXILIARY MACHINERY CO., LTD	Single arm Slewing	SAF-series
DAELIM TECHNOLOGY CO. LTD. (HYUNDAI)	Free fall secondary hydraulic A Frame	FF-740-series
DAVIT INTERNATIONAL	Free fall secondary hydraulic A Frame	D-FH-series
DAVIT INTERNATIONAL	Gravity freefall primary	D-TF-series
DAVIT INTERNATIONAL	Gravity single and twin fall outrigger	D-FO-series, D-FOS-series
DAVIT INTERNATIONAL	Single arm Slewing	D-BR-series, D-CR.R-series, D- CRH.R-series, D-CRM-series, D- FOS-series, D-RC-series, D-RC.T- series, D-SR04-series, D.BC.R- series, D.CRE.R-series
DAVIT INTERNATIONAL	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	D-NPS.FR-series, D-NPS.MP-series, D-NPS.SP-series, D-TT.SP.- series
DAVIT INTERNATIONAL	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	D-FP.R-series, D-TT-series, DTT.SP-series
DAVIT INTERNATIONAL	Twin / Single Fall Gravity Rollertrack	D-RT-series
DAVIT INTERNATIONAL	Twin Fall Gravity Pivoting / Luffing	D-NP-series, D-NP.MP-series
DAVIT INTERNATIONAL	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	D-NP-series, D-SP-series
DENIZSAN	Free fall secondary hydraulic A Frame	DSFDD-series
DENIZSAN	Single arm Slewing	DRBD-series, DRBLRD-series, DSRBD-series
DENIZSAN	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	DSFRB-series, DSRB-series
DONGNAM ENTERPRISE.,CO LTD	Twin Fall Gravity Pivoting / Luffing	DLB-series
DONGNAM MARINE CRANE CO.,LTD.	Single arm Slewing	DCPV-series, DNRD-series, DRBLRD-series, DRLD-series, DSAC-series, DSAD-series
DONGNAM MARINE CRANE CO.,LTD.	Twin Fall Gravity Pivoting / Luffing	DHGD-series
DONGWOO MACHINERY & ENGINEERING CO., LTD.	Single arm Slewing	DBD-series
DONGWOO MACHINERY & ENGINEERING CO., LTD.	Twin Fall Gravity Pivoting / Luffing	DWS-series

DSB ENGINEERING CO LTD	Free fall secondary hydraulic A Frame	DRM-FFD-series, DSBDP-series
DSB ENGINEERING CO LTD	Single arm Slewing	DSB23DR-series
DSB ENGINEERING CO LTD	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	DSBARH-series, DSBDP-series, DSBDL-series
DSB ENGINEERING CO LTD	Twin Fall Gravity Pivoting / Luffing	DSBDL-series, DSBDTL-series
DSB ENGINEERING CO LTD	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	DSBDYL-series
EO LIFESAVING	Single arm Slewing	CH-52-series
FASSMER	Free fall secondary hydraulic A Frame	FFH-series
FASSMER	Gravity freefall primary	FLR-series
FASSMER	Single arm Slewing	FSARR-series
FASSMER	Twin Fall Gravity Pivoting / Luffing	FPD-series
FASSMER	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	FMPD-series
FASSMER MARLAND	Free fall secondary hydraulic A Frame	FFH-series
FERRI	Single arm Slewing	1872 TN-series
GILBERT & SCHMALRIEDE. GMBH & CO. KG	Single arm Slewing	PJ1385-series
GILBERT & SCHMALRIEDE. GMBH & CO. KG	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	PJ-1386-series
GLOBAL DAVIT	Gravity single and twin fall outrigger	GSP.O-series, RSP.O-series
GLOBAL DAVIT	Single arm Slewing	FHS-series, FHS.L-series, FHS.R- series, FHS.R.L-series, FHS.R.L.S- series, FHS.R.S-series, FHS.S-series, LMES.S-series, LML-series, LMS-series, LMS.S- series, R RMS-series, RHL-series, RHP-series, RHS-series, RHS.L- series, RHS.L.S-series, RHS.S- series, RMES.L.S-series, RMES.S- series, RML-series, RMS.L-series, RMS.L.S-series, RMS.S-series
GLOBAL DAVIT	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	RHP-series, RHP.HC-series
GLOBAL DAVIT	Twin / Single Fall Gravity Rollertrack	GLP.RT-series, GSP.RT-series, GSP.RT, GLP.RT-series
GLOBAL DAVIT	Twin Fall Gravity Pivoting / Luffing	GLP.FP-series, GLP.MP-series, GSP.FP-series, GSP.MP-series
GLOBAL DAVIT	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	GLP.FLH-series, GLP.FPH-series, GSP.FLH-series, GSP.FPH-series, RHL-series, RHP-series
GREBEN	Free fall secondary hydraulic A Frame	HFF-series
GREBEN	Gravity single and twin fall outrigger	FOD-series

GREBEN	Single arm Slewing	RLC-series, SAR-series
GREBEN	Twin / Single Fall Gravity Rollertrack	GR-RTD-series
GREBEN	Twin Fall Gravity Pivoting / Luffing	SPG-series
GREBEN	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	GD-PD-series, HD-series
GURDESAN	Free fall secondary hydraulic A Frame	GD-FFD-series
GURDESAN	Single arm Slewing	GD-KHK-series, GD-RRS-series
HAEAN MACHINERY IND. CO. LTD.	Single arm Slewing	HED-PC-series, HHD-PC-series
HANYOUNG ENTERPRISE	Single arm Slewing	RESCUE BOAT DAVIT-series
HARDING (UMO SCHAT HARDING)	Free fall secondary hydraulic A Frame	FF-series
HARDING (UMO SCHAT HARDING)	Gravity freefall primary	LA-series
HARDING (UMO SCHAT HARDING)	Gravity single and twin fall outrigger	HD-FL-series, ORD-series
HARDING (UMO SCHAT HARDING)	Single arm Slewing	LAR-series, SAR-series, SRR- series
HARDING (UMO SCHAT HARDING)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	SA-series
HARDING (UMO SCHAT HARDING)	Twin / Single Fall Gravity Rollertrack	GRA-series, HD-RT-series
HARDING (UMO SCHAT HARDING)	Twin Fall Gravity Pivoting / Luffing	HD-SPG-series, HD-VIP-series, SPG(VL)-series
HARDING (UMO SCHAT HARDING)	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	SPD-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Gravity freefall primary	FFB-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Single arm Slewing	MOB-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	SPR-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Twin / Single Fall Gravity Rollertrack	FFB-series, NT-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Twin Fall Gravity Pivoting / Luffing	NDP-series, SPG(L)-series
HARDING (UMO SCHAT HARDING)	Single Fall Rescue / Fast Rescue Boat A Frame	NPDS-series

(PALFINGER)	Hydraulic	
HARDING (UMO SCHAT HARDING) (PALFINGER)	Free fall secondary hydraulic A Frame	LA-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	NTD-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Twin / Single Fall Gravity Rollertrack	ND-series
HARDING (WATERCRAFT)	Twin / Single Fall Gravity Rollertrack	WRG-series
HATECKE (ERNST HATECKE)	Free fall secondary hydraulic A Frame	FFA-series
HATECKE (ERNST HATECKE)	Gravity freefall primary	FFB-series
HATECKE (ERNST HATECKE)	Gravity single and twin fall outrigger	GSP.O-series
HATECKE (ERNST HATECKE)	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	GSP.FP-series
HAVØYSUND PATENTSLIPP AS	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	POLARDAVIT-series
HOLEN AS	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	KOPAS A-1000-series
HYDRAMASKIN	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	A-15-series
IHI MARINE UNITED INC	Twin Fall Gravity Pivoting / Luffing	MUL-series
IKNOW MACHINERY (TSUJI HEAVY INDUSTRIES)	Twin Fall Gravity Pivoting / Luffing	HD-series
IMT CO., LTD	Single arm Slewing	ILR-series
JAPAN MARINE UNITED CORP.	Free fall secondary hydraulic A Frame	MUFJ-series
JAPAN MARINE UNITED CORP.	Single arm Slewing	MUR21J-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Free fall secondary hydraulic A Frame	JYF-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Gravity single and twin fall outrigger	JYP-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Single arm Slewing	JYR-series, JYRCA-series
JIANGSU JIAOYAN MARINE	Single Fall Rescue / Fast Rescue Boat A Frame	

EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Hydraulic	JYA-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Twin / Single Fall Gravity Rollertrack	JYGR-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Twin Fall Gravity Pivoting / Luffing	JYL-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	JYHG-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO. LTD.	Twin Fall Gravity Pivoting / Luffing	NPT 60 DL-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Free fall secondary hydraulic A Frame	NPT-DF-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Gravity single and twin fall outrigger	NPT-DP-series, NPT-PL-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Single arm Slewing	NPT-DR-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NPT- BE-series, NPT-ARH-series, NPT-DR-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Twin Fall Gravity Pivoting / Luffing	NPT-DL-series, NPT-DP-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	NPT-DYL-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Free fall secondary hydraulic A Frame	JY-FH-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Gravity single and twin fall outrigger	JYPL-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Single arm Slewing	JYSA-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	JY-LFR-series, JY-LRHE-series, JY-PLR-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Twin / Single Fall Gravity Rollertrack	JYHE-series

JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Twin Fall Gravity Pivoting / Luffing	JYPL-series
JIANGYINSHI BEIHAI	Free fall secondary hydraulic A Frame	FA-series
JIANGYINSHI BEIHAI	Gravity single and twin fall outrigger	PD-series
JIANGYINSHI BEIHAI	Single arm Slewing	SA-series, SMR-series
JIANGYINSHI BEIHAI	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	EHRD-series, FRH-series, SRH- series
JIANGYINSHI BEIHAI	Twin / Single Fall Gravity Rollertrack	HB-H-series, RB-H-series
JIANGYINSHI BEIHAI	Twin Fall Gravity Pivoting / Luffing	BH-G-series, LA-series, LB-H- series
JIANGYINSHI BEIHAI	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	BHGH-series
JUNG-A-MARINE CO., LTD	Single arm Slewing	PCRLC-series
KGW SCHWERINER MASCHINENBAU GMBH	Single arm Slewing	RB-series
KYORITSU KIKAI	Free fall secondary hydraulic A Frame	LAF-MUF68-series
MACGREGOR (TTS) (HYDRAMARINE)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	G-TYPE-series, HMD A32 MK3-series
MACGREGOR (TTS) (HYDRAMARINE)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	A-TYPE-series, HLD-series, HMC- series, HMD-series
MACGREGOR (TTS) HYDRAMARINE)	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	T-TYPE-series
MANSEI	Free fall secondary hydraulic A Frame	D-FH-series, FE-series, MFH- series
MANSEI	Single arm Slewing	R-series, RD-series, SAR-series, SR-series
MANSEI	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	HER-series
MANSEI	Twin / Single Fall Gravity Rollertrack	AT-series, GRA-series
MANSEI	Twin Fall Gravity Pivoting / Luffing	ABD-series, AH-series, AV-series, CM-series, EH-series, EM-series, M-series
MENAROM SA	Single arm Slewing	CMPS 21-series
MIURA MACHINE CO.,LTD (MIURA VIDER) (MANSEI)	Twin Fall Gravity Pivoting / Luffing	MVD-series, SPG(VD)-series
MJØSUND BÅT & HYDRAULIK	Single arm Slewing	MOB-series
NANJING DONGSHENG MARINE EQUIPMENT CO., LTD	Single arm Slewing	AR14-series
NANJING DONGSHENG MARINE	Single arm Slewing	ARL21-series

EQUIPMENT CO.,LTD		
NAVIGATION'S	Single arm Slewing	1,1-series, 1.2 LL-series
NAVIM GROUP	Gravity single and twin fall outrigger	FDRB-series
NAVIM GROUP	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	SPDT-L-series, SPDT-R-series, SPDT-T-series
NAVIM GROUP	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	SGHD- L-series, SPHD- T-series
NAVIM GROUP (TECNIMPIANTI S.P.A)	Single arm Slewing	NHRB-series
NED-DECK MARINE (PALFINGER)	Free fall secondary hydraulic A Frame	FFH-series
NED-DECK MARINE (PALFINGER)	Gravity single and twin fall outrigger	FPG-series
NED-DECK MARINE (PALFINGER)	Single arm Slewing	SCH-series, SCM-series, SCT- series, SEC-series
NED-DECK MARINE (PALFINGER)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	PFH-series, PRH-series, PRHE- series
NED-DECK MARINE (PALFINGER)	Twin Fall Gravity Pivoting / Luffing	PL-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Free fall secondary hydraulic A Frame	YZF-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Single arm Slewing	YZ-series, ZFDZ-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Twin Fall Gravity Pivoting / Luffing	L-series
NINGBO KAIRONG SHIP MACHINERY CO LTD	Free fall secondary hydraulic A Frame	FH-series
NINGBO KAIRONG SHIP MACHINERY CO LTD	Single arm Slewing	KR-1-series
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Free fall secondary hydraulic A Frame	NMF55KN-series
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Gravity single and twin fall outrigger	NMPL-series
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NM-series, NMAR-series
NMF	Single arm Slewing	BPK-series, KD.2-series
NOR DAVIT	Gravity single and twin fall outrigger	PL-series
NOR DAVIT	Twin Fall Gravity Pivoting / Luffing	SDP-series
NOREQ (PALFINGER)	Gravity single and twin fall outrigger	NRD-series
NOREQ (PALFINGER)	Single arm Slewing	SCH-series, SCH-R-series, SCHD- series, SCM-L-series, SCM -R-

		series
NOREQ (PALFINGER)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NPD-series
NOREQ (PALFINGER)	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	NPD-series
NORSAFE	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NDA-series
ORIENTAL PRECISION	Free fall secondary hydraulic A Frame	FD-series
ORIENTAL PRECISION	Single arm Slewing	RD-series, SHS-series
ORIENTAL PRECISION	Twin / Single Fall Gravity Rollertrack	RTD-series
ORIENTAL PRECISION	Twin Fall Gravity Pivoting / Luffing	DHA-series, DMA-series, HGD- series, HGK-series
ORIENTAL PRECISION - SEKIGAHARA	Twin Fall Gravity Pivoting / Luffing	SHS-series
PALFINGER	Free fall secondary hydraulic A Frame	NPT-DF-series
PALFINGER	Gravity freefall primary	FF-series
PALFINGER	Gravity single and twin fall outrigger	FPG-series
PALFINGER	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	PFHS-series, SCH-R-series, SCM- L-series, SCM -R-series
PALFINGER	Twin / Single Fall Gravity Rollertrack	NPT-series
PALFINGER	Twin Fall Gravity Pivoting / Luffing	NPT-series
PALFINGER	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	NPD-series, PFH-series
PALFINGER (UMO SCHAT HARDING)	Twin Fall Gravity Pivoting / Luffing	VIP-series
PELLEGRINI MARINE EQUIPMENT	Single arm Slewing	CHCD 2,507+ RLC 2.1/4.5-series, RLC-series
PELLEGRINI MARINE EQUIPMENT	Twin Fall Gravity Pivoting / Luffing	GRA-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Free fall secondary hydraulic A Frame	BD-FF-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Gravity single and twin fall outrigger	BD-PL-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Single arm Slewing	BD- SA-series, BD-SH-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	BD-AR-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Twin Fall Gravity Pivoting / Luffing	BD-PV-series

REDROCK	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	RDA-series
REDROCK	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	RDT-series
SCAHT DAVIT COMPANY	Gravity single and twin fall outrigger	FFFDA-series
SCHAT DAVIT COMPANY	Single arm Slewing	SPR-series
SCHAT HARDING	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	FR.P.SP-series
SEC (SHIPS EQUIPMENT CENTRE)	Free fall secondary hydraulic A Frame	HP2-series
SEC (SHIPS EQUIPMENT CENTRE)	Single arm Slewing	HS-series, MS-series
SEC (SHIPS EQUIPMENT CENTRE)	Twin / Single Fall Gravity Rollertrack	SP3-series
SEKIGAHARA	Free fall secondary hydraulic A Frame	SF-series
SEKIGAHARA	Single arm Slewing	SJS-series
SEKIGAHARA	Twin / Single Fall Gravity Rollertrack	AT-series, STS-series
SEKIGAHARA	Twin Fall Gravity Pivoting / Luffing	SFA-series, SFB-series, SFP-series, SHS-series
SEKIGAHARA SEISKUSHO LTD	Twin / Single Fall Gravity Rollertrack	ST-series
SEKWANG MARINE MACHINERY CO, LTD	Single arm Slewing	RBD-series, SINGLE ARM SLEWING-series
SERVO SHIP S.L	Free fall secondary hydraulic A Frame	FFR-20-series
SERVO SHIP S.L	Single arm Slewing	PR4M1100HR-series
SEZAMOR	Single arm Slewing	ZZ-ZOL-series, ZZ-ZOT-series
SHANGHAI HENGYUAN MARINE EQUIPMENT CORPORATION	Free fall secondary hydraulic A Frame	FH-series
SHANGHAI HENGYUAN MARINE EQUIPMENT CORPORATION	Single arm Slewing	SAFC-series
SHEYANG VICTOR MARINE AUXILIARIES CO., LTD	Single arm Slewing	21 KN-series
SHIN MYUNG TECH	Single arm Slewing	SMLRD-25P-series, SMRB&LRD- FT-series, SMRBD-SD-series, SMRBD&LRD-series, SMRBD&PV- series
SPP SHIPBUILDING CO LTD.	Twin Fall Gravity Pivoting / Luffing	SBD-5800-series
STOCZNIA USTKA SP. Z O.O.	Free fall secondary hydraulic A Frame	HZ-series
STOCZNIA USTKA SP. Z O.O.	Gravity freefall primary	PZ-series
SURVIVAL SYSTEMS INT	Gravity single and twin fall outrigger	PL-series

TAIZHOU HAIHAO MARINE EQUIPMENT CO.,LTD	Free fall secondary hydraulic A Frame	55KN-series
TAIZHOU HAIHAO MARINE EQUIPMENT CO.,LTD	Single arm Slewing	21KN BOAT/RAFT DAVIT-series
TECH FLOWER CO., LTD.	Single arm Slewing	H1PC-series
TECHNIMPIANTI S.P.A	Twin / Single Fall Gravity Rollertrack	FRB-series
TSUJI HEAVY INDUSTRIES	Single arm Slewing	RP-series
TSUJI HEAVY INDUSTRIES	Twin / Single Fall Gravity Rollertrack	T83-series, TC-series
TSUJI HEAVY INDUSTRIES	Twin Fall Gravity Pivoting / Luffing	H-series
TTS (HYDRALIFT)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	HL-series
TTS (HYDRALIFT)	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	HL9D-series
ULSTEIN FAMA (FAMA GNIEW)	Single arm Slewing	ZO-series, ZT-series
VANGUARDE	Gravity single and twin fall outrigger	PL-series
VANGUARDE	Single arm Slewing	HSD-series, MSD-series, VSD- series
VANGUARDE	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	DH-series, PR-series, PRH-series
VANGUARDE	Twin Fall Gravity Pivoting / Luffing	LE-series, VL-series
VANGUARDE	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	PFH-series, SRH-series
VERHOEF	Free fall secondary hydraulic A Frame	FL-series
VESTDAVIT	Free fall secondary hydraulic A Frame	PLA-series
VESTDAVIT	Single arm Slewing	L-series
VESTDAVIT	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	P-series, PAP-series, PAPH- series, PL-series, PLAR-series, PLD-series, PLI-series, PLP- series, PLR-series
VESTDAVIT	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	TBD-series
VIKING (NORSAFE)	Gravity freefall primary	SW-series
VIKING (NORSAFE)	Gravity single and twin fall outrigger	A-series, C-series, D-series, NDC- series
VIKING (NORSAFE)	Single arm Slewing	CH-52-series, NRC-series, NRC-R- series
VIKING (NORSAFE)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NDA-series, NRB-series
VIKING (NORSAFE)	Twin Fall Gravity Pivoting / Luffing	E-series

VIKING (NORSAFE)	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	LH-series
VIKING (NORSAFE) (JIANGYIN)	Single arm Slewing	NDSC-series, NDSC-R-series
VIKING (NORSAFE) (JIANGYIN)	Free fall secondary hydraulic A Frame	HD-series
WELIN LAMBIE	Single arm Slewing	LRW-series, SARBE-series
WELIN LAMBIE	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	PIV.1.0A-series
WUXI DONGWU	Free fall secondary hydraulic A Frame	F55-F70-series, NPT100F-series
WUXI DONGWU	Single arm Slewing	21 - 35KN-series, DCW210-series
WUXI DONGWU	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	A30/H35-series
WUXI DONGWU	Twin / Single Fall Gravity Rollertrack	25KN -30KN-series
WUXI DONGWU	Twin Fall Gravity Pivoting / Luffing	18KN-110KN-series
WUXI HAIHONG BOAT MAKING CO., LTD	Single arm Slewing	23KN-series
WUXI HUAHAI	Gravity single and twin fall outrigger	PD-series
WUXI HUAHAI	Single arm Slewing	HMD 21_32_M-series
WUXI HUAHAI	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	HMDA-series
WUXI HUAHAI	Twin Fall Gravity Pivoting / Luffing	HMD60-85-110-series
WUXI JIANGNAN MARINE EQUIPMENT CO., LTD	Single arm Slewing	ZFQ-series
WUXI SHENGOU	Free fall secondary hydraulic A Frame	SMDF-series
WUXI SHENGOU	Single arm Slewing	SMC-series, SMD-series
WUXI SHENGOU	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	HMDA-series
WUXI SHENGOU	Twin / Single Fall Gravity Rollertrack	SMD-series
WUXI SHENGOU	Twin Fall Gravity Pivoting / Luffing	SHMDL-series
YILMAZ DENIZCILIK	Single arm Slewing	YDGS-series
YOUNGNAM MACHINERY CO.LTD	Twin Fall Gravity Pivoting / Luffing	YNBD-series
ZHEJIANG HENGXIN SHIP EQUIPMENTS CO.,LTD	Single arm Slewing	SA23-1-series
ZHEJIANG HENGXIN SHIP EQUIPMENTS CO.,LTD	Twin Fall Gravity Pivoting / Luffing	LB-series

ZHEJIANG TAIZHOU WANTONG MARINE MACHINERY CO LTD	Twin Fall Gravity Pivoting / Luffing	YSJ-series
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Free fall secondary hydraulic A Frame	FH-series
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Single arm Slewing	SA23-1-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Single arm Slewing	SAF-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	SRH-series
ZHENJIANG DH MARINE EQUIPMENT CO., LTD	Single arm Slewing	MSD-series
ZHENJIANG JUST MARINE EQUIPMENT CO., LTD	Free fall secondary hydraulic A Frame	FH-series
ZHENJIANG JUST MARINE EQUIPMENT CO., LTD	Twin Fall Gravity Pivoting / Luffing	L-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Free fall secondary hydraulic A Frame	FH-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Gravity single and twin fall outrigger	PL-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Single arm Slewing	HDCL-series, SAFC-series, SAW30-series, ZF-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Twin Fall Gravity Pivoting / Luffing	LE-series
ZHENJIANG WEST MARINE EQUIPMENT CO., LTD	Single arm Slewing	WME-SAD-series
ZHENJIANG WEST MARINE EQUIPMENT CO., LTD	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	WME-LRH35-series

PROPULSION

Make	Type	Model
MERCURY	Outboard	10604522ED-series

RELEASE GEAR

Make	Type	Model
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Devices For Activating Release: Central Release Unit	BD-LH-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Devices for activating release: Free Fall Hydraulic Primary and Secondary	BHA-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Freefall Hydraulic / mechanical	BHA-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	BHA-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Rescue boat offload w. Onload capability	BHR25S-series
BALDEN	Lifeboat on load lift not over centre, Curve to flat rotating cams	BD-LBH-series
BALDEN	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	BDHR-series
BC SERVICE	Devices For Activating Release: Central Release Unit	U HOOK-series
BC SERVICE	Devices For Activating Release: Hydrostatic Unit with Diaphragm	U HOOK-series
BC SERVICE	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	U HOOK-series
BC SERVICE	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	U-ARH 3.5T-series
BC SERVICE	Rescue boat offload lift over center	U HOOK-series
CHANG SHENG	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	35KN-series
CRANSTON EAGLE	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	APR-356- CB/CBH-series
DAE JIN CO. LTD	Freefall Hydraulic / mechanical	THP-1B-series
DAVIT INTERNATIONAL	Rescue boat offload lift over center	OLH-series
DAVIT INTERNATIONAL	Rescue boat offload w. Onload capability	RH-series
FASSMER	Devices For Activating Release: Central Release Unit	DUPLEX < 6.6T-series, DUPLEX > 6T-series
FASSMER	Devices for activating release: Free Fall Hydraulic Primary and Secondary	FFH-series

FASSMER	Devices For Activating Release: Hydrostatic Unit with Float	DUPLEX < 6.6T-series, DUPLEX > 6T-series
FASSMER	Freefall Hydraulic / mechanical	F-series
FASSMER	Lifeboat on load lift not over centre, Curve to flat rotating cams	DUPLEX>6T-series
FASSMER	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	DUPLEX<6.6T-series
FERRI	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	1488-series
GEPA	Devices for activating release: Free Fall Hydraulic Primary and Secondary	G-FFRM-01-series
GEPA	Freefall Hydraulic / mechanical	G-FFRM-01-series
GEPA	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	G-K-series
GLOBAL DAVIT	Lifeboat on load lift not over centre	HRL-series
GLOBAL DAVIT	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	HRL.26-series
GLOBAL DAVIT	Rescue boat offload lift over center	HRN-series
GLOBAL DAVIT	Rescue boat offload w. Onload capability	HR-series
GREBEN	Devices For Activating Release: Central Release Unit	NLH-series
GREBEN	Devices For Activating Release: Electronic Sensor	NLH-series
GREBEN	Lifeboat on load lift not over centre, up and down pins / collars	NLH-series
HARDING (UMO SCHAT HARDING)	Devices for activating release: Free Fall Hydraulic Primary and Secondary	FFH-series
HARDING (UMO SCHAT HARDING)	Freefall Hydraulic / mechanical	FFH-series
HARDING (UMO SCHAT HARDING)	Rescue boat offload w. Onload capability	RRH-series

HARDING (UMO SCHAT HARDING) (FAST RSQ)	Fast rescue boat offload / Manual or automatic	CAR-35F-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Devices For Activating Release: Central Release Unit	KH6.5M2-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Devices For Activating Release: Hydrostatic Unit with Diaphragm	KH6.5M2-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	KH6.5M2-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	LH3.5M2-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	ARH-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Devices For Activating Release: Central Release Unit	LHR-series, LHR M2-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Devices For Activating Release: Hydrostatic Unit with Diaphragm	LHR-series, LHR M2-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	LHR-series, LHR M2-series
HATECKE	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	SIMPLEX 2.0I OFF LOAD-series
HATECKE (ERNST HATECKE)	Devices For Activating Release: Central Release Unit	DUPLEX < 6T-series, DUPLEX > 6T-series
HATECKE (ERNST HATECKE)	Devices for activating release: Free Fall Hydraulic Primary and Secondary	GFF-series
HATECKE (ERNST HATECKE)	Devices For Activating Release: Hydrostatic Unit with Float	DUPLEX < 6T-series, DUPLEX > 6T-series
HATECKE (ERNST HATECKE)	Fast Rescue Boat Offload with On-Load Capability	SIMPLEX 1,85-series
HATECKE (ERNST HATECKE)	Freefall Hydraulic / mechanical	GFF-series

HATECKE (ERNST HATECKE)	Lifeboat on load lift not over centre, Curve to flat rotating cams	DUPLEX>6T-series
HATECKE (ERNST HATECKE)	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	DUPLEX<6.6 T-series
HATECKE (ERNST HATECKE)	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	RAFTI 2.5-series
HATECKE (ERNST HATECKE)	Rescue boat offload w. Onload capability	SIMPLEX-series
HENRIKSEN	Fast rescue boat offload / Manual or automatic	HCH-series, HMK-series
HLB (HYUNDAI LIFEBOATS)	Devices For Activating Release: Central Release Unit	TALON II-series, TALON MK 1-series
HLB (HYUNDAI LIFEBOATS)	Devices For Activating Release: Hydrostatic Unit with Diaphragm	TALON II-series, TALON MK 1-series
HLB (HYUNDAI LIFEBOATS)	Freefall Hydraulic / mechanical	TALON 4.6T-series
HLB (HYUNDAI LIFEBOATS)	Lifeboat on load lift not over centre, flat to flat rotating cams	TALON MK 1-series
HLB (HYUNDAI LIFEBOATS)	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	TALON II-series
HOEI SENPAKU CO.,LTD	Devices For Activating Release: Central Release Unit	HS-series, HS520 96-series, HS650 96-series
HOEI SENPAKU CO.,LTD	Devices For Activating Release: Hydrostatic Unit with Diaphragm	HS-series, HS 520 96-series, HS650 96-series
HOEI SENPAKU CO.,LTD	Lifeboat on load lift not over centre, Curve to flat rotating cams	HS520 96-series, HS650 96-series
HOEI SENPAKU CO.,LTD	Lifeboat on load lift not over centre, flat to flat rotating cams	HS-series
HOEI SENPAKU CO.,LTD	Lifeboat on load lift not over centre, up and down pins / collars	HS520 83-series, HS650 83-series
HYUNDAI LIFEBOAT CO., LTD	Devices for activating release: Free Fall Hydraulic Primary and Secondary	TALON 4.6T-series
IHI MARINE UNITED INC	Devices For Activating Release: Central Release Unit	JX-1-series

IHI MARINE UNITED INC	Devices For Activating Release: Hydrostatic Unit with Diaphragm	JX-1-series
IHI MARINE UNITED INC	Lifeboat on load lift not over centre, up and down pins / collars	JX-1-series
JAPAN MARINE UNITED CORP.	Fast Rescue Boat Offload with On-Load Capability	JX-3-series
JAPAN MARINE UNITED CORP.	Freefall Hydraulic / mechanical	JX-2-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Devices For Activating Release: Central Release Unit	JX-1-series, JX-1B-series, JX-4- series, JXN-1B-series, JXN-1C- series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Devices for activating release: Free Fall Hydraulic Primary and Secondary	JX-2-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Devices For Activating Release: Hydrostatic Unit with Diaphragm	JX-1-series, JX-1B-series, JXN-1B-series, JXN-1C-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Fast Rescue Boat Offload with On-Load Capability	JXN-3-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Freefall Hydraulic / mechanical	JX-2-series, JX-4-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Lifeboat on load lift not over centre, up and down pins / collars	JX-1-series, JX-1B-series, JXN- series, JXN- 1B-series, JXN-1C- series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD.	Lifeboat on load lift not over centre, up and down pins / collars	JX-1-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Devices For Activating Release: Central Release Unit	NPT-50-series, NPT-HAN-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Devices For Activating Release: Hydrostatic Unit with Float	NPT-50-series, NPT-HAN-series

JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Fast Rescue boat offload	NPT-30 HK-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Freefall Hydraulic / mechanical	NPT70HKF-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Lifeboat on load lift not over centre, Curve to flat rotating cams	NPT-HK-series, NPT 50-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	NPT-HKC-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	NPT-HK25F-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Rescue boat offload w. Onload capability	NPT-HK25R-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD. (PALFINGER)	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	PN-HKC-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Devices For Activating Release: Central Release Unit	HK-series, JX-1-series, LB80MR- series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Devices For Activating Release: Hydrostatic Unit with Diaphragm	JX-1-series, LB80MR-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Fast Rescue Boat Offload with On-Load Capability	HK-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Freefall Hydraulic / mechanical	FHK-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Lifeboat on load lift not over centre, Curve to flat rotating cams	HK-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	LB80MR-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Lifeboat on load lift not over centre, up and down pins / collars	JX-1-series
JIANGYINSHI BEIHAI	Devices For Activating Release: Central Release Unit	JYB-HK-series
JIANGYINSHI BEIHAI	Devices For Activating Release: Hydrostatic Unit with Diaphragm	JYB-HK-series

JIANGYINSHI BEIHAI	Fast Rescue Boat Offload with On-Load Capability	JYB-HK-series
JIANGYINSHI BEIHAI	Freefall Hydraulic / mechanical	JYB-HKF-series
JIANGYINSHI BEIHAI	Lifeboat on load lift not over centre, Curve to flat rotating cams	JYB-HK-series
KCL (KOLBERG CASPERY LAUTOM A/S)	Lifeboat on load lift over centre	NOA LRRS-series
LALIZAS	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	LAR 36-series
LSA SERVICE GMBH	Rescue boat offload lift over center	LSA-H2,1-series
MADROCK	Devices For Activating Release: Central Release Unit	ROCLOC-series
MADROCK	Devices For Activating Release: Hydrostatic Unit with Float	ROCLOC-series
MADROCK	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	ROCLOC-series
MANSEI	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	RH-series, RH3-series
NED-DECK MARINE (PALFINGER)	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	CAR 35-series
NINGBO ASIA F.R.P. BOAT	Devices For Activating Release: Central Release Unit	HK-series
MANUFACTURING CO LTD		
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Lifeboat on load lift not over centre, Curve to flat rotating cams	HK-series
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Freefall Hydraulic / mechanical	JX-2-series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Devices For Activating Release: Central Release Unit	IHM 12-series, IHM 13-series, NS- series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Devices for activating release: Free Fall Hydraulic Primary and Secondary	F-series, ML-series

NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Devices For Activating Release: Hydrostatic Unit with Float	IHM 12-series, IHM 13-series, NS- series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Freefall Hydraulic / mechanical	F-series, ML-series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Lifeboat on load lift not over centre, Curve to flat rotating cams	NS-series, SR-series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Lifeboat on load lift not over centre, flat to flat rotating cams	IHM 12-series, IHM 13-series
NOREQ (PALFINGER)	Fast Rescue Boat Offload with On-Load Capability	JXN-3-series
NORMAR (NORWEGIAN MARINE EQUIPMENT)	Devices For Activating Release: Central Release Unit	JX-4-series
NORMAR (NORWEGIAN MARINE EQUIPMENT)	Freefall Hydraulic / mechanical	JX-2-series, JX-4-series
NORSAFE	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	TOR MK 2-5/6 TON-series
OPTIMUM MARINE	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	31-37KN-series
PALFINGER	Devices for activating release: Free Fall Hydraulic Primary and Secondary	FFH-series, NPT-series
PALFINGER	Fast rescue boat offload / Manual or automatic	CAR-35F-series
PALFINGER	Freefall Hydraulic / mechanical	FFH-series
PALFINGER	Rescue boat offload w. Onload capability	RRH-series
PESBO S.A	Freefall Hydraulic / mechanical	BSL-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Devices For Activating Release: Central Release Unit	BG-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Devices For Activating Release: Hydrostatic Unit with Diaphragm	BG-series

QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Freefall Hydraulic / mechanical	BG-F-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Lifeboat on load lift not over centre, flat to flat rotating cams	BG-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Rescue boat offload w. Onload capability	BG-2R-series
SERVO SHIP S.L	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	200-series
SEZAMOR	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	HS-series
SEZAMOR	Rescue boat offload lift over center	HLR-series
SHIGI SHIPBUILDING CO. LTD.	Devices For Activating Release: Central Release Unit	SRS-series, SZK-30-series, SZK-5- series
SHIGI SHIPBUILDING CO. LTD.	Devices for activating release: Free Fall Hydraulic Primary and Secondary	WP39-series
SHIGI SHIPBUILDING CO. LTD.	Devices For Activating Release: Hydrostatic Unit with Float	SRS-series, SZK-30-series, SZK-5- series
SHIGI SHIPBUILDING CO. LTD.	Freefall Hydraulic / mechanical	WP39-series
SHIGI SHIPBUILDING CO. LTD.	Lifeboat on load lift not over centre, Curve to flat rotating cams	SRS-series
SHIGI SHIPBUILDING CO. LTD.	Lifeboat on load lift not over centre, up and down pins / collars	SZK-series, SZK-25M-series, SZK-30-series, SZK5-series
SURVITEC (SCI)	Devices For Activating Release: Central Release Unit	SAFELAUNCH-series
SURVITEC (SCI)	Devices For Activating Release: Hydrostatic Unit with Diaphragm	SAFELAUNCH-series
SURVITEC (SCI)	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	SAFELAUNCH-series
SURVITEC (SCI)	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	SLA 3.5-series
SURVIVAL SYSTEMS INT.	Devices For Activating Release: Central Release Unit	SURESAFE-series, TRIPLE 5- series, TRIPLE 5 LX-series

SURVIVAL SYSTEMS INT.	Lifeboat on load lift over centre	SURESAFE-series, TRIPLE 5-series, TRIPLE 5 LX-series
T-ISS	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	21-25 KN-series, 31-37 KN-series
T-ISS BV	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	PX02-series, PX01-series
T-ISS BV	Rescue boat offload w. Onload capability	PX03-series
TSUNEISHI	Devices For Activating Release: Central Release Unit	43GS-1-series
TSUNEISHI	Devices For Activating Release: Hydrostatic Unit with Diaphragm	43GS-1-series
TSUNEISHI	Lifeboat on load lift not over centre, up and down pins / collars	43GS-1-series
VANGUARDE	Devices For Activating Release: Central Release Unit	C-SAFE-series, SH-series
VANGUARDE	Devices For Activating Release: Hydrostatic Unit with Diaphragm	C-SAFE-series, SH-series
VANGUARDE	Lifeboat on load lift not over centre, Curve to flat rotating cams	C-SAFE-series, SH-series
VERHOEF	Devices for activating release: Free Fall Hydraulic Primary and Secondary	TWISTLOCK-series
VERHOEF	Freefall Hydraulic / mechanical	TWISTLOCK-series
VESTDAVIT	Rescue boat offload lift over center	LB-series
VIKING NORSAFE	Rescue boat offload lift over center	VIKING 1.6-series
VIKING (NADIRO)	Lifeboat on load lift over centre	DIB-series
VIKING (NORSAFE)	Devices For Activating Release: Central Release Unit	NADIRO D.I.B-series, TOR MK 1-series, TOR MK 2-series
VIKING (NORSAFE)	Devices For Activating Release: Electronic Sensor	NADIRO D.I.B-series
VIKING (NORSAFE)	Devices for activating release: Free Fall Hydraulic Primary and	GES-series, HRS-series, NFFH- series

	Secondary	
VIKING (NORSAFE)	Devices For Activating Release: Hydrostatic Unit with Diaphragm	TOR MK 1-series, TOR MK 2-series
VIKING (NORSAFE)	Fast Rescue boat offload	K4-series
VIKING (NORSAFE)	Freefall Hydraulic / mechanical	HRS-series, NFFH-series
VIKING (NORSAFE)	Lifeboat on load lift not over centre, flat to flat rotating cams	TOR MK 1-series, TOR MK 2-series
VIKING (NORSAFE)	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	RCH 36-series
WILLIAM MILLS	Devices For Activating Release: Central Release Unit	TITAN-series
WILLIAM MILLS	Devices For Activating Release: Hydrostatic Unit with Diaphragm	TITAN-series
WILLIAM MILLS	Lifeboat Offload release lift over centre	EMPRESS-series
WILLIAM MILLS	Lifeboat on load lift not over centre, flat to flat rotating cams	TITAN-series
WUXI HAIHONG BOAT MAKING CO., LTD	Devices For Activating Release: Central Release Unit	HH43-series
WUXI HAIHONG BOAT MAKING CO., LTD	Devices For Activating Release: Hydrostatic Unit with Diaphragm	HH43-series
WUXI HAIHONG BOAT MAKING CO., LTD	Lifeboat on load lift not over centre, up and down pins / collars	HH43-series
WUXI MINGZI MACHINERY MANUFACTURING CO., LTD	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	21-37KN-series, 250T 25-series
WUXI MINGZI MACHINERY MANUFACTURING CO., LTD	Rescue boat offload w. Onload capability	15KN-series
WUXI WENJIAO	Fast Rescue Boat Offload with On-Load Capability	HK-series
WUXI XINGSHENG	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	21KN_23KN_25KN_35KN-series, XS-series

WUXI XINGSHENG	Rescue boat offload w. Onload capability	15KN-series, XS15-series
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Fast Rescue Boat Offload with On-Load Capability	HK-series
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Freefall Hydraulic / mechanical	HK-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Freefall Hydraulic / mechanical	SH-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Fast Rescue Boat Offload with On-Load Capability	HK40-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Lifeboat on load lift not over centre, Curve to flat rotating cams	HK-series

SURVIVAL CRAFT, RESCUE BOAT (INC.FAST RESCUE BOATS)

Make	Type	Model
ACEBI	Partially enclosed lifeboat, twin fall	PELB-series
AMBAR MARINE	Rescue Boat, single fall	AM420-series
AVON	Rescue Boat, single fall	RB-series, SR-series
BALDEN	Totally enclosed lifeboat, freefall	BD-FFC-series, BD-FFT-series
BALDEN	Totally enclosed lifeboat, twin fall, dry version	BD-LB-series
BEIYANG BOATBULDING CO.LTD	Totally enclosed lifeboat, twin fall, dry version	20 TECB-series
BIANCHI & CHECCHI	Partially enclosed lifeboat, twin fall	PE-series
BROOKER	Totally enclosed lifeboat, single fall	CA-series
CASTOLDI S.R.L.	Rescue Boat, single fall	JET TENDER 18 RB-series
CSSC LUZHOU ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Totally enclosed lifeboat, freefall	YHFP-series
DAFER (NARWHAL)	Fast Rescue Boat, single fall	FRB-series
DAFER (NARWHAL)	Rescue Boat, single fall	FRB 700-series, FRB 900-series, SV-series
DELTA	Rescue Boat, single fall	COMET-series, PHANTOM-series
DSB DEUTSCHE SCHLAUCHBOOTE	Rescue Boat, single fall	IRB-series
DSB ENGINEERING CO LTD	Partially enclosed lifeboat, twin fall	DSBP-series

DSB ENGINEERING CO LTD	Rescue Boat, single fall	DSBRB-series, DSBRFA-series, NPT-R-series
DSB ENGINEERING CO LTD	Totally enclosed lifeboat, freefall	DSBFC-series, DSBFF-series
DSB ENGINEERING CO LTD	Totally enclosed lifeboat, twin fall, dry version	DSBC-series
ESVAGT	Rescue Boat, single fall	ALU 460 F-series
FASSMER	Fast Rescue Boat, single fall	FRR-series
FASSMER	Partially enclosed lifeboat, twin fall	CL-P-series, PLL-series, PLT- series, SEL-series
FASSMER	Rescue Boat, single fall	FRIR-series, RR-series
FASSMER	Totally enclosed lifeboat, freefall	CFL-series, GAR-series, GAR-T- series
FASSMER	Totally enclosed lifeboat, twin fall, dry version	CL-series, CLR-C-series, CLX- series, GMR-series
FASSMER MARLAND	Rescue Boat, single fall	RR-series
FASSMER MARLAND	Totally enclosed lifeboat, freefall	CFL-C-series, CFL-T-series
FASSMER MARLAND	Totally enclosed lifeboat, twin fall, dry version	CLR-C-series, DRAGON C-series, HH-C-series
FUKAYA MANUFACTORY THE HAKODATE DOCK CO.,LTD	Open lifeboat, twin fall	HL 73-series
GEPA	Fast Rescue Boat, single fall	G-FRB-series
GEPA	Partially enclosed lifeboat, twin fall	G-FYK-series
GEPA	Rescue Boat, single fall	G-RB1-series
GEPA	Totally enclosed lifeboat, freefall	G-FFF-series
GEPA	Totally enclosed lifeboat, twin fall, dry version	G-FK-series
GREBEN	Partially enclosed lifeboat, twin fall	PEL-series
GREBEN	Rescue Boat, single fall	RB-series
GREBEN	Totally enclosed lifeboat, freefall	FFL-series
GREBEN	Totally enclosed lifeboat, twin fall, dry version	TEL-series
HARDING (UMO SCHAT HARDING)	Partially enclosed lifeboat, twin fall	CTL-series, ML-series, MPC- series
HARDING (UMO SCHAT HARDING)	Rescue Boat, single fall	MOB 4.5A-series
HARDING (UMO SCHAT HARDING)	Totally enclosed lifeboat, freefall	FF-series
HARDING (UMO SCHAT HARDING)	Totally enclosed lifeboat, twin fall, dry version	MCF-series
HARDING (UMO SCHAT HARDING)	Totally enclosed lifeboat, freefall	HARDING-LBF-series

(PALFINGER)		
HARDING (UMO SCHAT HARDING) (PALFINGER)	Fast Rescue Boat, single fall	STINGER 630-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Rescue Boat, single fall	MOB 17-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Totally enclosed lifeboat, twin fall, dry version	LBT-C-series
HARDING (WATERCRAFT)	Partially enclosed lifeboat, twin fall	MOB-series, MOBAC-series, PELB- series, PERB-series
HARDING (WATERCRAFT)	Totally enclosed lifeboat, freefall	WFF-series
HARDING BOAT BUILDING (QINGDAO) CO., LTD.(UMO SCHAT HARDING)	Totally enclosed lifeboat, twin fall, dry version	TECB-series
HATECKE (ERNST HATECKE)	Fast Rescue Boat, single fall	FRB 600-series
HATECKE (ERNST HATECKE)	Partially enclosed lifeboat, twin fall	PEL-series, PL-series
HATECKE (ERNST HATECKE)	Rescue Boat, single fall	RB-series
HATECKE (ERNST HATECKE)	Totally enclosed lifeboat, freefall	GFF-series
HATECKE (ERNST HATECKE)	Totally enclosed lifeboat, twin fall, dry version	GSL-T-series
HLB (HYUNDAI LIFEBOATS)	Fast Rescue Boat, single fall	HDFR-series
HLB (HYUNDAI LIFEBOATS)	Rescue Boat, single fall	HDR-series
HLB (HYUNDAI LIFEBOATS)	Totally enclosed lifeboat, freefall	HDF25T-series, HDFL740F-series, HDFN-F- series, HDFN-T-series
HLB (HYUNDAI LIFEBOATS)	Totally enclosed lifeboat, twin fall, dry version	HDL-series, HLB-series, HT78- series
HOEI SENPAKU CO.,LTD	Totally enclosed lifeboat, twin fall, dry version	HS-series
IHI MARINE UNITED INC	Open lifeboat, twin fall	G-series
IHI MARINE UNITED INC	Totally enclosed lifeboat, twin fall, dry version	GTC-series, GTC-C-series
JAPAN MARINE UNITED CORP.	Rescue Boat, single fall	MU-GJ-series
JAPAN MARINE UNITED CORP.	Totally enclosed lifeboat, freefall	MU-FN-series
JAPAN MARINE UNITED CORP.	Totally enclosed lifeboat, twin fall, dry version	GF-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Partially enclosed lifeboat, twin fall	JY-BF-series

JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Rescue Boat, single fall	GJ-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Totally enclosed lifeboat, freefall	JY-FF-series, JYM-FF-series, JYM- FN-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Totally enclosed lifeboat, twin fall, dry version	JY-QFN-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Fast Rescue Boat, single fall	NPT-RA-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Partially enclosed lifeboat, twin fall	NPT-P-series, NPT-PT-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Rescue Boat, single fall	NPT-R-series, NPT-RA-series, NPT-RB-series, NPT-RFA-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Totally enclosed lifeboat, freefall	NPT-FA-series, NPT-FC-series, NPT-FCA-series, NPT-FF-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Totally enclosed lifeboat, twin fall, dry version	NPT-C-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Open lifeboat, twin fall	JYK-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Partially enclosed lifeboat, twin fall	JYP-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Rescue Boat, single fall	JYDR-series, JYKR-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Totally enclosed lifeboat, freefall	JYCF-series, JYFF-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Totally enclosed lifeboat, twin fall, dry version	JYC-series, JYCA-series, JYCB- series
JIANGYIN XINJIANG	Rescue Boat, single fall	GJ-series, GJ- B-series
JIANGYIN XINJIANG	Totally enclosed lifeboat, freefall	JY-FN-series
JIANGYINSHI BEIHAI	Fast Rescue Boat, single fall	JYB-G-series, JYB-Q-series
JIANGYINSHI BEIHAI	Open lifeboat, twin fall	JYB-K-series
JIANGYINSHI BEIHAI	Partially enclosed lifeboat, twin fall	JYB-B-series

JIANGYINSHI BEIHAI	Rescue Boat, single fall	JY-BR-series, JYB-KR-series, SC- K-series, SC-KR-series
JIANGYINSHI BEIHAI	Totally enclosed lifeboat, freefall	JYB-FC-series, JYB-FF-series
JIANGYINSHI BEIHAI	Totally enclosed lifeboat, twin fall, dry version	JYB-C-series
KANG NAM. CORPORATION	Totally enclosed lifeboat, twin fall, dry version	GTB-series
MARE SAFETY AS	Fast Rescue Boat, single fall	GTC 700-series, MS FRB-series
MARE SAFETY AS	Rescue Boat, single fall	RB-series
MARITIME PARTNERS	Fast Rescue Boat, single fall	WEEDO 600-series, WEEDO 700-series
MARITIME PARTNERS	Fast Rescue Boat, single fall	ALUSAFE 1200 DC-series, ALUSAFE 700-series, ALUSAFE 770-series, ALUSAFE 900-series, SEA BEAR 23-series
MARITIME PARTNERS (HUKKELBERG BOATS)	Fast Rescue Boat, single fall	SPRINGER-series
MARTIME PARTNERS	Rescue Boat, single fall	WEEDO 17 SOLAS-series
MULDER EN RIJKE	Partially enclosed lifeboat, twin fall	PELB-series, PTL-series
MULDER EN RIJKE	Totally enclosed lifeboat, single fall	TELB-S-series
NARWHAL	Rescue Boat, single fall	SV-series
NARWHAL (DAFER)	Fast Rescue Boat, single fall	SV-series
NED-DECK MARINE (PALFINGER)	Rescue Boat, single fall	NMD 4.40 RESCUE-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Fast Rescue Boat, single fall	YZRA-series, YZRB-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Open lifeboat, twin fall	BJ-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Rescue Boat, single fall	BJ-series, YZ-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Totally enclosed lifeboat, freefall	YZFC-series, YZFF-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Totally enclosed lifeboat, twin fall, dry version	YZC-series
NINGBO NEW MARINE LIFESAVING	Rescue Boat, single fall	NM43R-series, NM45R-series

EQUIPMENT CO. LTD		
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Totally enclosed lifeboat, freefall	NM58FF-series, NM59FC-series
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Totally enclosed lifeboat, twin fall, dry version	NM-series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Fast Rescue Boat, single fall	FRP-series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Open lifeboat, twin fall	NF-series, NFA-series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Partially enclosed lifeboat, twin fall	PML-series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Totally enclosed lifeboat, freefall	FF-series
NISHI-F CO., LTD,. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Totally enclosed lifeboat, twin fall, dry version	CML-series, EML-series, G-TR- series
NOREQ	Partially enclosed lifeboat, twin fall	LBP-series
NOREQ (PALFINGER)	Fast Rescue Boat, single fall	FRB-series
NOREQ (PALFINGER)	Rescue Boat, single fall	RRB-series
NOREQ (PALFINGER)	Totally enclosed lifeboat, freefall	LBF-series
NORMAR (NORWEGIAN MARINE EQUIPMENT)	Fast Rescue Boat, single fall	FRC-series
NORMAR (NORWEGIAN MARINE EQUIPMENT)	Rescue Boat, single fall	NORMAR-RESCUE 425-series, RESCUE 425 / 500-series
NORMAR (NORWEGIAN MARINE EQUIPMENT)	Totally enclosed lifeboat, freefall	FREE FALL 4.9 TO 8.5T-series
OY FISKARS AB	Totally enclosed lifeboat, twin fall, dry version	TELB-series
PALFINGER	Fast Rescue Boat, single fall	FRSQ-series
PALFINGER	Partially enclosed lifeboat, twin fall	CTL-series, MPC-series, NPT-T- series
PALFINGER	Rescue Boat, single fall	RSQ-series
PALFINGER	Totally enclosed lifeboat, freefall	FF-series, NPT-FC-series, NPT- FF-series
PALFINGER	Totally enclosed lifeboat, twin fall, dry version	KISS-C-series, NPT-F-series
PESBO S.A	Totally enclosed lifeboat, freefall	BSL-series

PESBO S.A	Totally enclosed lifeboat, twin fall, dry version	BSC-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Fast Rescue Boat, single fall	BH-HR7-series, FRB-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Partially enclosed lifeboat, twin fall	BH10-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Rescue Boat, single fall	BH-R-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Totally enclosed lifeboat, freefall	BH-F-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Totally enclosed lifeboat, twin fall, dry version	BH-series
SHANGHAI JIANGNAN	Totally enclosed lifeboat, freefall	JN-FC-series
SHIGI SHIPBUILDING CO. LTD.	Fast Rescue Boat, single fall	FRP-series
SHIGI SHIPBUILDING CO. LTD.	Open lifeboat, twin fall	SZGM-series, SZGO-series
SHIGI SHIPBUILDING CO. LTD.	Partially enclosed lifeboat, twin fall	SZP-series, SZPR-series
SHIGI SHIPBUILDING CO. LTD.	Rescue Boat, single fall	SZRS-series, VOX46-series
SHIGI SHIPBUILDING CO. LTD.	Totally enclosed lifeboat, freefall	FEL-series, GARS-series
SHIGI SHIPBUILDING CO. LTD.	Totally enclosed lifeboat, twin fall, dry version	SZBR-series
STOCZNIA USTKA SP. Z O.O.	Fast Rescue Boat, single fall	FRB-series
STOCZNIA USTKA SP. Z O.O.	Rescue Boat, single fall	R-series, RIB-series
STOCZNIA USTKA SP. Z O.O.	Totally enclosed lifeboat, freefall	FFB-series
STOCZNIA USTKA SP. Z O.O.	Totally enclosed lifeboat, twin fall, dry version	Z-series
SURVITEC (SCI)	Fast Rescue Boat, single fall	SC60RA-series
SURVITEC (SCI)	Totally enclosed lifeboat, freefall	FF-series
SURVITEC (SCI)	Totally enclosed lifeboat, twin fall, dry version	SCFA-series
SURVIVAL SYSTEMS INT	Fast Rescue Boat, single fall	FRB-series
SURVIVAL SYSTEMS INT.	Totally enclosed lifeboat, single fall	CA-series
TSUNEISHI	Totally enclosed lifeboat, twin fall, dry version	TL-TE-series
TSUNEISHI (KAMBARA RINGYO)	Totally enclosed lifeboat, twin fall, dry version	KL-TE-series
TSUNEISHI (SANYO WORKS)	Totally enclosed lifeboat, twin fall, dry version	TE-series

VALIANT	Rescue Boat, single fall	RB-450-series
VANGUARDE	Fast Rescue Boat, single fall	VG-FRK-series, VG-FRW-series
VANGUARDE	Rescue Boat, single fall	VG-DRS-series, VG-KR-series
VANGUARDE	Totally enclosed lifeboat, twin fall, dry version	VG-C-series
VEB SCHIFFSWERFT RECHLIN/MURITZ	Totally enclosed lifeboat, twin fall, dry version	GAL-series
VIKING (NORSAFE)	Fast Rescue Boat, single fall	470 GRP-series, MAGNUM-series, MAKO-series, MERLIN-series
VIKING (NORSAFE)	Partially enclosed lifeboat, twin fall	MINIMA-series
VIKING (NORSAFE)	Rescue Boat, single fall	MAKO-series, MERLIN-series, MIDGET-series
VIKING (NORSAFE)	Totally enclosed lifeboat, freefall	JYN-F-series
VIKING (NORSAFE)	Totally enclosed lifeboat, twin fall, dry version	JYN-C-series, MAGGIE-C-series, MATILDA-C-series, MAUD-C-series, MAXIMA-C-series, MIRAM-C-series
VIKING (NORSAFE) (JIANGYIN)	Rescue Boat, single fall	MATRIX-series
VIKING (NORSAFE) (JIANGYIN)	Totally enclosed lifeboat, freefall	GES-series
VIKING NEUVISA	Fast Rescue Boat, single fall	RR-40-series
WATERCRAFT (WATERCRAFT HELLAS)	Rescue Boat, single fall	4.9M-RB-series
WATERCRAFT (WATERCRAFT HELLAS)	Totally enclosed lifeboat, twin fall, dry version	MK 5-series
WATERMAN OY	Partially enclosed lifeboat, twin fall	365-series, 367-series, 391-series, 393-series
WHITTAKER	Totally enclosed lifeboat, single fall	CA-series
WORKRIBS HOLLAND BV	Fast Rescue Boat, single fall	WRH 635 FRB-series
WUXI HAIHONG BOAT MAKING CO., LTD	Open lifeboat, twin fall	BH-series, BJ-series
WUXI HAIHONG BOAT MAKING CO., LTD	Rescue Boat, single fall	GJ-series
WUXI HAIHONG BOAT MAKING CO., LTD	Totally enclosed lifeboat, freefall	HH-FC-series, HH-FF-series
WUXI HAIHONG BOAT MAKING CO., LTD	Totally enclosed lifeboat, twin fall, dry version	HH-C-series, HH-CS-series
WUXI WENJIAO	Fast Rescue Boat, single fall	WJ-RA-series, WJ-RB-series

WUXI WENJIAO	Open lifeboat, twin fall	BH-series, BJ-series, WJ-series
WUXI WENJIAO	Rescue Boat, single fall	GJ-series
WUXI WENJIAO	Totally enclosed lifeboat, freefall	WJFF-series, WJFFC-series, WUXI WENJIAO / WJFFC-series
WUXI WENJIAO	Totally enclosed lifeboat, twin fall, dry version	WJBC-series
XTENDERS	Fast Rescue Boat, single fall	6.8M SOLAS TENDER-series
ZHEJIANG HENGXIN SHIP EQUIPMENTS CO.,LTD	Rescue Boat, single fall	GJ-series
ZHEJIANG HENGXIN SHIP EQUIPMENTS CO.,LTD	Totally enclosed lifeboat, freefall	BCFC-series, BCFF-series, FL-C- series, FL-F- series
ZHEJIANG HENGXIN SHIP EQUIPMENTS CO.,LTD	Totally enclosed lifeboat, twin fall, dry version	BCC-series
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Rescue Boat, single fall	GJ-series
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Totally enclosed lifeboat, freefall	BCFF-series
ZHENJIANG JUST MARINE EQUIPMENT CO., LTD	Rescue Boat, single fall	ZJM-4.0-series
ZHENJIANG JUST MARINE EQUIPMENT CO., LTD	Totally enclosed lifeboat, freefall	ZJM-FF-series
ZHENJIANG MARINE AUXILIARY	Fast Rescue Boat, single fall	YH-FRB-series
MACHINERY WORKS		
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Rescue Boat, single fall	YH-FRA-series, YH-R-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Totally enclosed lifeboat, freefall	YHFP-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Totally enclosed lifeboat, twin fall, dry version	YH-QFP-series
ZODIAC (SURVITEC)	Fast Rescue Boat, single fall	RIB-series
ZODIAC (SURVITEC)	Rescue Boat, single fall	H472S-series, RIBO-series
ZODIAC HURRICANE	Rescue Boat, single fall	H561 PROLUXE-series
ZODIAC MILPRO INTERNATIONAL	Rescue Boat, single fall	RIBO-series

WINCHES

Make	Type	Model
A TECH	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	AT10-LRD-series
ACEBI	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	TBE-series
ACEBI	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	TR-series
ACEBI	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	TBE-series
ACOIN	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	BE-2-series
ACTA	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	KNT-series
ALEXANDER WELIN	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	AIW-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	BDF-series, BLW-series, BRW- series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Single Drum, hydraulic-lowering/hydraulic hoisting	HDF-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	BA-series, BM-series, ELEC. MOTOR DRIVEN-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction	BDTW-series, BMW-series, BW- series, BWR-series

	pads / decent brake centrifugal w pads	
BADA HEAVY INDUSTRIES CO., LTD.	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	BHI-EHW-series, BLW-series
BOPP TREUILS JEB	Single Drum, hydraulic-lowering/hydraulic hoisting	BHP 4200-series
BREVINI	Single Drum, hydraulic-lowering/hydraulic hoisting	BWC 050-series, BWF 025-series, PWD-series, W381-series
BRYNE MEKANIKK AS	Single Drum, hydraulic-lowering/hydraulic hoisting	H02D1D-series
CRAMM YACHTING SYSTEMS B.V	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	BWF1500-series
DAVIT COMPANY	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	16 EV-series
DAVIT COMPANY	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	24EPB-series
DAVIT INTERNATIONAL	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	01KN-series, 02KN-series, 03 KN- series, 04KN-series, 07KN-series
DAVIT INTERNATIONAL	Single Drum, hydraulic-lowering/hydraulic hoisting	06KN-series
DAVIT INTERNATIONAL	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	12-series, 40-series
DENIZSAN	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	MTV1-series
DINAMIC OIL	Single Drum, hydraulic-lowering/hydraulic hoisting	FHW-series
DONGNAM ENTERPRISE.,CO LTD	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	HLW-series
DONGNAM MARINE CRANE CO.,LTD.	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	DSAD-series

DONGNAM MARINE CRANE CO.,LTD.	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	DRBD-series, DRBLRW-series
DONGWOO MACHINERY & ENGINEERING CO., LTD.	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	DBD-series
DONGWOO MACHINERY & ENGINEERING CO., LTD.	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	LW-series
DSB ENGINEERING CO LTD	Single Drum, hydraulic-lowering/hydraulic hoisting	DRM-HW-series
EO LIFESAVING	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	W-series
FASSMER	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	DEW-series
FASSMER	Single Drum, hydraulic-lowering/hydraulic hoisting	FFWH-series
FASSMER	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake hydraulic pump	FDW-series
FASSMER	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes, multiple disks, hydraulically operated / decent brake hydraulic pump	FDW-series
FASSMER MARLAND	Single Drum, hydraulic-lowering/hydraulic hoisting	FFWH-series
FERRI	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	1702 TN-series
GLOBAL DAVIT	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	W01KN-series, W02KN-series, W03KN-series, W04KN-series, W08KN-series
GLOBAL DAVIT	Single Drum, hydraulic-lowering/hydraulic hoisting	02H.06.01-series, W05HC-series, W08HC-series, WS-series
GLOBAL DAVIT	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	04KN-series, 14KN-series, 20KN-series, 26KN-series, W07KN-series, W10KN-series

GREBEN	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	EW-2-series
GREBEN	Single Drum, hydraulic-lowering/hydraulic hoisting	HW-series
GREBEN	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	CW-series, EW-series
GURDESAN	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	GD-FLW-series
GURDESAN	Single Drum, hydraulic-lowering/hydraulic hoisting	GD-HC-A-series, GD-KV 35-series
HAEAN MACHINERY IND. CO. LTD.	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	HMI-series
HAEAN MACHINERY IND. CO. LTD.	Single Drum, hydraulic-lowering/hydraulic hoisting	HHD-PC-series
HARDING (UMO SCHAT HARDING)	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	HD-series, MW-series
HARDING (UMO SCHAT HARDING)	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes, multiple disks, hydraulically operated / decent brake hydraulic pump	CW-series
HARDING (UMO SCHAT HARDING) (DAVIT COMPANY) (SCHAT DAVIT COMPANY) (PALFINGER)	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	16EB / EBR-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	BE 7.5-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	08-02-series, FM 194-series, FME-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Single Drum, hydraulic-lowering/hydraulic hoisting	EW-02-PL-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	2-22-13-series

HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER) (WATERCRAFT)	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	BE-series
HATECKE (ERNST HATECKE)	Single Drum, hydraulic-lowering/hydraulic hoisting	07.02.08-series, FFA-series
HYDRALIFT	Single Drum, hydraulic-lowering/hydraulic hoisting	SP-series
HYDRAMARINE	Single Drum, hydraulic-lowering/hydraulic hoisting	23B35T22-series
IHI MARINE UNITED INC	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	MUW-series
IKNOW MACHINERY (TSUJI HEAVY INDUSTRIES)	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	EB-series
IMT CO., LTD	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	ILR-W-series
INI HYDRAULIC	Single Drum, hydraulic-lowering/hydraulic hoisting	IYJ2.53-39—57-16-ZPN-series
JAPAN MARINE UNITED CORP.	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	JYR-21-series
JAPAN MARINE UNITED CORP.	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	MU-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO. LTD	Single Drum, hydraulic-lowering/hydraulic hoisting	FW45-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	JYA30-series, JYRZ-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	JYW-series, JYWP-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	NPT-DW-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Single Drum, hydraulic-lowering/hydraulic hoisting	NPT-DW-B-series, NPT-HW-series

JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	NPT-DS-series, NPT-DW-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	JY-D 23Z-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	JYD-series
JIANGYINSHI BEIHAI	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	DZ-series
JIANGYINSHI BEIHAI	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	DS-series, DW-series, JYBW- series
JUNG-A-MARINE CO., LTD	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	PCRLC-series
MACGREGOR (TTS) (HYDRAMARINE)	Single Drum, hydraulic-lowering/hydraulic hoisting	HMW-series
MANSEI	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	ERW-series, MLW-series, RMW- series, SW- series
MANSEI	Single Drum, hydraulic-lowering/hydraulic hoisting	06KN-series, FW-series
MANSEI	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	AW-series, CMW-series, EW- series, MW- series
MANSEI	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	ABW-series, FBW-series, MW- series
MENAROM SA	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	CMPS 21-series
MIURA MACHINE CO.,LTD (MIURA VIDER) (MANSEI)	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	LBH-series, RBH-series

MJØSUND BÅT & HYDRAULIK	Single Drum, hydraulic-lowering/hydraulic hoisting	MV-series
NANJING DONGSHENG MARINE EQUIPMENT CO., LTD	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	DB14-series
NANJING DONGSHENG MARINE EQUIPMENT CO.,LTD	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	ARL21-series
NAVIGATION'S	Single Drum, hydraulic-lowering/hydraulic hoisting	HWRB 1.2-series
NAVIM GROUP (TECNIMPIANTI S.P.A)	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	RBEW-series
NED-DECK MARINE (PALFINGER)	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	04-series
NED-DECK MARINE (PALFINGER)	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	HWCT-series
NED-DECK MARINE (PALFINGER)	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	15-series
NOR DAVIT	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	SP-series
NOREQ (PALFINGER)	Single Drum, hydraulic-lowering/hydraulic hoisting	NW-series
ORIENTAL PRECISION	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	RDW-series
ORIENTAL PRECISION	Single Drum, hydraulic-lowering/hydraulic hoisting	WL-series
ORIENTAL PRECISION	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	BWE-series, SWE-series
PALFINGER	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes, multiple disks, hydraulically operated / decent brake hydraulic pump	CW-series, W-series
	Single drum Gravity lowering electric hoisting liferaft / rescue	

PELLEGRINI MARINE EQUIPMENT	boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	RLC-series
PELLEGRINI MARINE EQUIPMENT	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	VAS 45 E-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	BW-SC-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	BW-HL-series, BW-HR-series, BW- LL-series
SEC (SHIPS EQUIPMENT CENTRE)	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	WL-series
SEKIGAHARA	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	SNW-series, SWE-series
SEKWANG MARINE MACHINERY CO, LTD	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	RBW-series
SERVO SHIP S.L	Single Drum, hydraulic-lowering/hydraulic hoisting	FFRW 4500KG-series
SHEYANG VICTOR MARINE AUXILIARIES CO., LTD	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	14 KN-series
SPP SHIPBUILDING CO LTD.	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	W-5800A-series
SURVIVAL SYSTEMS INT.	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	W-series
TAIZHOU HAIHAO MARINE EQUIPMENT CO.,LTD	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	21KN-series
TECHNIMPIANTI S.P.A	Single Drum, hydraulic-lowering/hydraulic hoisting	HW-series
TMA	Single Drum, hydraulic-lowering/hydraulic hoisting	TN/MW-series

TSUJI HEAVY INDUSTRIES	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	TC-series
TSUJI HEAVY INDUSTRIES	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	EB-series
ULSTEIN FAMA (FAMA GNIEW)	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	ER10B-series, ERM-series
ULSTEIN FAMA (FAMA GNIEW)	Single Drum, hydraulic-lowering/hydraulic hoisting	WLZ43C-11-series
VERHOEF	Single Drum, hydraulic-lowering/hydraulic hoisting	FL 50-series
VESTVINSJ	Single Drum, hydraulic-lowering/hydraulic hoisting	A-273-7-series, BW-series
VIKING (NORSAFE)	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	W-series
VIKING (NORSAFE)	Single Drum, hydraulic-lowering/hydraulic hoisting	NW-series
VIKING (NORSAFE) (JIANGYIN)	Single Drum, hydraulic-lowering/hydraulic hoisting	HYD-FF-series
VIKING (NORSAFE) (JIANGYIN)	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	NW-series
VIKING (NORSAFE) (JIANGYIN)	Single Drum, hydraulic-lowering/hydraulic hoisting	HYD-FF-series
WELIN LAMBIE	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	5619-series, 9502-series, PIV.1.0A-series, RBW-series
WELIN LAMBIE	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	53-series, 55-series, 97-series
WUXI DONGWU	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	DS/Z-series, DZ-series
WUXI HUAHAI	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	HMW-series
WUXI HUAHAI MARINE EQUIPMENT LIMITED CO. LTD	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction	MW-series

	pads / decent brake centrifugal w pads	
YILMAZ DENIZCILIK	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	YDGS 10-series
YOUNGNAM MACHINERY CO.LTD	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	YNBW-series
ZHEJIANG HENGXIN SHIP EQUIPMENT CO.,LTD	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	D-series
ZHEJIANG HENGXIN SHIP EQUIPMENTS CO.,LTD	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	DZ-series
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	DZ-series
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Single Drum, hydraulic-lowering/hydraulic hoisting	IYJ4-50-120-20-ZP-series
ZHENJIANG DH MARINE EQUIPMENT CO., LTD	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	DW-series
ZHENJIANG DH MARINE EQUIPMENT CO., LTD	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	DW-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	D-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Single Drum, hydraulic-lowering/hydraulic hoisting	SAW30-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal w pads	D-series, DP-series
ZHENJIANG WEST MARINE EQUIPMENT CO., LTD	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	WME-SAD 14-series

ZHENJIANG WEST MARINE EQUIPMENT CO., LTD	Single Drum, hydraulic-lowering/hydraulic hoisting	WME-LRH35-series
ZOLLERN	Single Drum, hydraulic-lowering/hydraulic hoisting	A2FM45-61A-series, ZHP-series, ZR-series

This Appendix shall be attached to the Service Supplier Approval Certificate LR2584109AS and no signature required as it is issued electronically.

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a member of the Lloyd's Register group.