

CERTIFICATE OF APPROVAL OF SERVICE SUPPLIER

CERTIFICATE NO. SSU018722XK

This is to certify that

Seasafe Marine Ltd.

9/F., Dorset House, Taikoo Place, 979 King's Road,
Quarry Bay HONG KONG (S.A.R.)

*Has been approved in compliance with the
RINA "RULES FOR THE CERTIFICATION OF SERVICE SUPPLIERS"
for the supply of the following services to ships and other units classed by RINA:*

**N - Maintenance, thorough examination, operational testing,
overhaul and repair of lifeboats and rescue boats, launching
appliances and release gear**

Date of the audit: **25 Jul 2022**

Issued in **HONG KONG**

on **01 Nov 2022**

This Certificate is valid from the date of the audit until

24 Jul 2025

This certificate consists of this sheet plus an attachment.



This is an electronically signed document and does not require a handwritten signature.

Fu Guo CHEN

RINA Services S.p.A.



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ATTACHMENT TO CERTIFICATE NO. SSU018722XK

VALIDITY CONDITIONS

This service supplier is certified according to the 'RINA Rules for the Certification of Service Suppliers' to carry out maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear in accordance with SOLAS Regulation III/20 for the list of makes and models/series of equipment in the attached Annex N.

Note 1: For the purpose of application of IMO Resolution MSC.402(96), including Corr.1, the service supplier is to be authorized by the Flag Administration under which the ship is registered.

For Flag Administrations which have authorized RINA as their Recognized Organization and accept RINA 'Certificate of Approval of Service Supplier' as equivalent to their authorization document to the Service Provider, according to the IMO Resolution MSC.402(96), including Corr.1, this Certificate may be accepted also for statutory purpose, in lieu of the Flag's authorization document to the Service Provider, allowing the firm to provide their services on the makes and models/series of equipment listed in the Annex N to this Certificate.

Note 2: This certificate of approval is also issued on behalf of Italian Administration according to the Italian 'Executive Decree n. 321' dated 21st April 2020 and Circular NDS n. 22/2021.

Therefore, this Service Provider is authorized to provide their services on board ships flying Italian flag for the makes and types of equipment defined according to ISO/PAS 23678, listed in the table of Annex N to this Certificate, without prejudice to the particular requirements in the aforementioned Italian official documents.

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessments
- c) RINA personnel are to be allowed to witness during the performance of activities, upon their request
- d) The activities are to be carried out in compliance with the RINA Rules and or other applicable rules
- e) RINA may revoke the approval at any moment in the case of modifications to requirements or conditions for the approval



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RINA Services S.p.A.



Annex N

List of makes and types of equipment

Attached to Certificate No. SSU018722XK

The Service Supplier is approved by RINA for performing services such as maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear, in accordance with SOLAS Reg. III/20, for the following equipment:

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
DSB Engineering	Lifeboat – Twin Fall / with or without sprinkler and air system	DSB/C, DSB/F, NPT
	Lifeboat – Freefall / with or without sprinkler and air system	DSB/FC, DSB/FF, NPT
	Lifeboat – Twin Fall / Partially Enclosed	DSB/P, NPT
	Rescue Boat – Single Fall Rescue Boat	DSB/R, DSB/R-A/B/C, DSB/RFA-B, NPT
	Rescue Boat – Fast Rescue Boat	DSB/RA, DSB/RB, NPT
	Davit – Fixed outrigger	DSB/DP, DSB/PL, DSB/DTL
	Davit – Freefall A/frame	DSB/DF, FFD
	Davit – Hydraulic / luffing gravity lowering	DSB/DL, DSB/DYL, DSB/ARH, DSB/DP-DPY, DSB/DR
	Davit – Single Arm Slewing	DSB/DR, DSB/DR-DRE, DSB/PRL
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	DSB, DRM, HW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	DSB, DRM, HW
	Release Gear - Off load / On load – lift not over centre	DSB, HK
Fassmer (Fassmer-Marland)	Lifeboat – Twin Fall / with or without sprinkler and air system	CL, CLR, CLX, Dragon, GMR
	Lifeboat – Freefall / with or without sprinkler and air system	CFL, GAR
	Lifeboat – Twin Fall / Partially Enclosed	CLR-P, PLL, PLT, SEL
	Rescue Boat – Single Fall Rescue Boat	RR, RIR
	Rescue Boat – Fast Rescue Boat	FRR, FRIR
	Release Gear - Off load / On load – lift	Duplex, Duplex E, Duplex E2



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	not over centre release gear / Forward or reverse curve to curve rotating cams	
	Release Gear – Freefall hydraulic / mechanical	FFRU
	Release Gear - Off load – lift over centre	FOH
	Davit – Fixed outrigger	FOD
	Davit – Freefall ramp	FLR
	Davit – Freefall A/frame	FFH
	Davit – Hydraulic / luffing gravity lowering	FHD, FHDY, FMPD, FPD
	Davit – Single Arm Slewing	FSAR
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	DEW, D52, DW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	DEW, FWD
Gurdesan	Winch - Single drum, Hydraulic lowering and hoisting	FFWH, FWD, FFW
	Davit – Freefall A/frame	GD-FFD
	Davit – Hydraulic / luffing gravity lowering	GD-GR
	Davit – Single Arm Slewing	GD-KHK, GD-RRS
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	GD
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	GD-FL, GD-FLW
	Winch - Single drum, Hydraulic lowering and hoisting	GD-HC, GD-KV
HLB (Hyundai Lifeboats, BADA Heavy Industries, Daeryuck, D.R.M)	Lifeboat – Twin Fall / with or without sprinkler and air system	HD, HDL, HLB, HT
	Lifeboat – Freefall / with or without sprinkler and air system	HDF, HDFL, HDFN
	Rescue Boat – Single Fall Rescue Boat	HDR,
	Rescue Boat – Fast Rescue Boat	HDFR



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	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	Talon, Talon II
	Release Gear – Freefall hydraulic / mechanical	BHA, THP
	Release Gear - Off load – lift over centre	BHR
	Release Gear - Automatic – lift over centre	BHA
	Davit – Fixed outrigger	BFOD
	Davit – Freefall A/frame	BDF, HDF, HDFL
	Davit – Roller track gravity	BDTW
	Davit – Hydraulic / luffing gravity lowering	BDA, BDFA, BDFRD, BDH, BDHP, BDM, BDTD, DRM, TT
	Davit – Single Arm Slewing	BDR, BDP, BHI, BLR, RLD
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	BAW, BDF, BDRW, BDL, BHI, BLW, BMW, BWL, BWR, DRM, DRBW, PWD, RLD
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	BHI, BDF, BDR, BDRW, BLR, BMW, BRW, RLD
IKnow (Tsuji Heavy Inds.)	Winch - Single drum, Hydraulic lowering and hoisting	HDFW, FHW, PWD
	Davit – Hydraulic / luffing gravity lowering	H, TC
	Davit – Roller track gravity	T, T83
	Davit – Single Arm Slewing	RP
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	EB, TC, OAP
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	EB-1
Jiangsu Jiaoyan Marine Equipment Co (Jiangyin Xinjiang)	Lifeboat – Twin Fall / with or without sprinkler and air system	JYM, JY-QFN, JY-QFP
	Lifeboat – Freefall / with or without sprinkler and air system	JY-FF, JY-FN, JYM-FF, JYM-FN



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	Rescue Boat – Single Fall Rescue Boat	GJ
	Rescue Boat – Fast Rescue Boat	GJ
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	HK, JX, JXN
	Release Gear – Freefall hydraulic / mechanical	JX, JXN
	Davit – Fixed outrigger	JYP
	Davit – Freefall A/frame	JYF
	Davit – Roller track gravity	JYGR
	Davit – Hydraulic / luffing gravity lowering	JYA, JYCL, JYHG, JYL, JYLG, JYLR
	Davit – Single Arm Slewing	JYR, JYRC, JYRH
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	FW, JYW, JYWP
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	JYW
	Winch - Single drum, Hydraulic lowering and hoisting	FW, FW45, JYHW
Nishi-F Co Ltd (Ishihara Dockyard Co, Dodwell Viking, Nishi Nippon)	Lifeboat – Twin Fall / with or without sprinkler and air system	CML, DML, EML, G, NF
	Lifeboat – Freefall / with or without sprinkler and air system	FF
	Lifeboat – Twin Fall / Partially Enclosed	PML
	Rescue Boat – Single Fall Rescue Boat	F
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	NS, SR, SRS
	Release Gear - Off load / On load – lift not over centre / Up and Down Pins	IHM
	Release Gear – Freefall hydraulic / mechanical	FF
Qingdao Beihai Shipbuilding Co. Ltd	Lifeboat – Twin Fall / with or without sprinkler and air system	BH, E
	Lifeboat – Freefall / with or without sprinkler and air system	BH-F



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	Rescue Boat – Single Fall Rescue Boat	BH-R, BH-R/A-SA-DWJ
	Rescue Boat – Fast Rescue Boat	BH-HR, Dolphin
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	BG, BH-Hook
	Release Gear – Freefall hydraulic / mechanical	BG, FS
	Release Gear - Off load – lift over centre	BG, KNXS
	Release Gear - Automatic – lift over centre	BG, KNXS
	Davit – Fixed outrigger	BD-PL, BH-PR, RBD
	Davit – Freefall ramp	BD-FF/R
	Davit – Freefall A/frame	BD-FF, BH-F
	Davit – Hydraulic / luffing gravity lowering	BD-AR, BD, BD-PV, BH-L, FA, SH
	Davit – Single Arm Slewing	BD-SA
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	BW-HL, BW-HR, BW-LL, BW-LR D, DW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	BW-LR, BW-SC
	Winch - Single drum, Hydraulic lowering and hoisting	IYJ
Sekigahara Seisakusho	Davit – Hydraulic / luffing gravity lowering	SFB, SH, SHS, SSS
	Davit – Freefall A/frame	FFS, SFA, SFB, SFC, SFD, SFS
	Davit – Roller track gravity	ST, STS
	Davit – Single Arm Slewing	SHS, SSS, SJS, SJR
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	SWE, SNW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	SWE, SNW



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Shigi Shipbuilding Co Ltd	Lifeboat – Twin Fall / with or without sprinkler and air system	SZ
	Lifeboat – Freefall / with or without sprinkler and air system	FEL, GARS,
	Rescue Boat – Single Fall Rescue Boat	SZ, VOX
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	SRS
	Release Gear - Off load / On load – lift not over centre / Up and Down Pins	SZK
	Release Gear – Freefall hydraulic / mechanical	FFRU, FF, WP
Shin Myung Tech	Davit – Single Arm Slewing	SMLRD, SMRBD, SMRB
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	SMLRD, SMRBD, SMRB, SMW

By in-house training program as per ISO/PAS 23678

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
Acebi	Davit – Fixed outrigger	A, AF, PF
	Davit – Freefall A/frame	TPF
	Davit – Roller track gravity	GRA
	Davit – Hydraulic / luffing gravity lowering	SPG, TPC
	Davit – Single Arm Slewing	PFR, RRP, TPU
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks or friction pads / centrifugal brakes with friction pads	TBE, TBP, TR III
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	TBE, TBP, TR III
Arim Engineering	Davit – Hydraulic / luffing gravity lowering	AHA, ARLD
	Davit – Single Arm Slewing	AREH, ARLD
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	ABW



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	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	AREH, ABW, ARW
A-Tech	Davit – Single Arm Slewing	Single Arm
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	Electric, Hydraulic
Balden Denizcilik	Lifeboat – Freefall / with or without sprinkler and air system	BD-FF
	Lifeboat – Twin Fall / with or without sprinkler and air system	BD-LB
	Rescue Boat – Single Fall	BD-R
	Release Gear - Off load / On load – lift not over centre release gear / Flat to flat rotating cams /	BD-LBHR
	Release Gear - Automatic – lift over centre	BD-HR
	Release Gear – Freefall hydraulic / mechanical	BD-FFT
BC Service (Bianchi & Cecchi)	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve rotating cams	U-Hook
	Release Gear - Automatic – lift over centre	U-ARH
Davit International (Davit International-Hische)	Release Gear - Off load / On load – lift not over centre	HR, RH
	Release Gear - Automatic – lift over centre	ALH,
	Release Gear - Off load – lift over centre	OLH
	Davit – Fixed outrigger	D-FO, D-FOS D-FG
	Davit – Freefall ramp	D-TF
	Davit – Freefall A/frame	D-FH
	Davit – Roller track gravity	D-RT
	Davit – Hydraulic / luffing gravity lowering	D-BR, D-NP, D-NPS, D-RB, D-TT
	Davit – Single Arm Slewing	C-S, C-SH, C-SE, C-FS, D-BC, D-CRM, D-CR, D-CRC, D-CRH, D-RC
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple	02, 03, 04, 07, 12, 18, 40



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	disks & friction pads / centrifugal brakes with friction pads	
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	01, 02, 03, 04, 06, 07
	Winch - Single drum, Hydraulic lowering and hoisting	06, FFWH
Deyuan Marine	Release Gear - Off load / On load – lift not over centre	WHK
	Release Gear - Automatic – lift over centre	15kN, 21kN, 23kN, 25kN, 35kN, 37kN,
	Release Gear - Off load – lift over centre	15kN
Dongnam Marine (Sangsangin Inds. Co)	Davit – Freefall A/frame	FF, HDF
	Davit – Hydraulic / luffing gravity lowering	DHG, DHGD, HGD, HGW
	Davit – Single Arm Slewing	DCHH, DHRL, DLRD, DNRD, DRBD, DRLD, DSAD, DSAC, DPR, PV, HLW
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	DHG, HGW, FM
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	DSAD, DRBLRW, DHG, HGW, FM
Dongwoo Machinery	Davit – Freefall A/frame	
	Davit – Hydraulic / luffing gravity lowering	DWS, DXW, DBD DRBD DRLD, DSAD, DSAC, DHGD
	Davit – Single Arm Slewing	PV, LRDP, LRDS, RBDS
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	DWS, DXW, A, AL, ARP, LRDS, LW, RW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	LRCH, LRDW, RDBS, RBDW,
Ferri	Release Gear - Automatic – lift over centre	TN
	Davit – Hydraulic / luffing gravity lowering	1878, TN



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	Davit – Single Arm Slewing	R
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	1722, MMI, TN
Gepa Fibreglass	Lifeboat – Twin Fall / with or without sprinkler and air system	G-FK, G-FK-FP,
	Lifeboat – Freefall / with or without sprinkler and air system	G-FFF, G-FFF-FP (1,2,3)
	Lifeboat – Twin Fall / Partially Enclosed	G-FYK, G-FYK-T
	Rescue Boat – Single Fall Rescue Boat	G-RB (1,2, DE)
	Rescue Boat – Fast Rescue Boat	G-FRB (1,2)
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve rotating cams	On-Load
	Release Gear – Freefall hydraulic / mechanical	G-FFF, G-FFRM/01
	Release Gear - Automatic – lift over centre	G-K
Global Davit GmbH	Release Gear - Off load / On load – lift not over centre	HRN
	Release Gear - Off load – lift over centre	HR,
	Release Gear - Automatic – lift over centre	HRL,
	Davit – Fixed outrigger	Gsp, Rsp
	Davit – Roller track gravity	Gsp.RT, Glp.RT
	Davit – Hydraulic / luffing gravity lowering	Glp, Gsp, Lgp, Rhl, Rhp,
	Davit – Single Arm Slewing	Ces, Chs, Fhs, Lms, Lmes, Lml, Rhs, Rhp, Rms, Rmes, Rml
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	W.L, W.R, W02-W50
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	W.HC, W02-W14
Hatecke	Winch - Single drum, Hydraulic lowering and hoisting	W.H W02-W50
	Lifeboat – Twin Fall / with or without	GSL, GSL-T, PL



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	sprinkler and air system	
	Lifeboat – Freefall / with or without sprinkler and air system	GFF, GFF-T
	Lifeboat – Twin Fall / Partially Enclosed	PEL
	Rescue Boat – Single Fall Rescue Boat	RB
	Rescue Boat – Fast Rescue Boat	FRB
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	Duplex
	Release Gear – Freefall hydraulic / mechanical	GFF-R
	Release Gear - Off load / On load – lift not over centre	Simplex
	Release Gear - Off load – lift over centre	Simplex
	Release Gear - Automatic – lift over centre	Rafti
	Davit – Fixed outrigger	GSP.O
	Davit – Freefall ramp	FFB
	Davit – Freefall A/frame	FFA
	Davit – Hydraulic / luffing gravity lowering	DFR, GSP.FP
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	W
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	W
	Winch - Single drum, Hydraulic lowering and hoisting	W, 07
Haeen Machinery	Davit – Single Arm Slewing	HED, HERL, HHD, RL, PC
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	HED, HERL, HHD, RL, PC
Henriksen	Release Gear - Off load – lift over centre	HCH, HCHT, HLR, HMK, HMKG, HMKST, HRH
	Release Gear - Automatic – lift over centre	HLH, HMKR



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Hoei Senpaku	Lifeboat – Twin Fall / with or without sprinkler and air system	HS, HS-F
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	SOLAS 520/650/96
Japan Marine Utd (IHI Craft, IHI AMTEC, IHI Marine, JMU)	Lifeboat – Twin Fall / with or without sprinkler and air system	FN, G, GF, GT, GTC, GTR, S
	Lifeboat – Freefall / with or without sprinkler and air system	MU-FF, MU-FN
	Rescue Boat – Single Fall Rescue Boat	GJ, MU, MU-GJ
	Rescue Boat – Fast Rescue Boat	GJ, MU, MU-GJ
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	HK, JX, JXN MkII,
	Release Gear - Off load – lift over centre	Off-Load,
	Release Gear – Freefall hydraulic / mechanical	JX, JXN, Hydraulic Ram
	Davit – Freefall A/frame	MU, MUF
	Davit – Hydraulic / luffing gravity lowering	MUL
	Davit – Single Arm Slewing	MUR
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	MU, MUR, MUW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	MU, MUR, MUW
	Winch - Single drum, Hydraulic lowering and hoisting	MU, MUF
INI Hydraulic	Winch - Single drum, Hydraulic lowering and hoisting	IY, IYJ
Jiangsu Huaiyin Marine	Davit – Freefall A/frame	FH
	Davit – Hydraulic / luffing gravity lowering	15-100kN, 10-100kN
	Davit – Single Arm Slewing	JY-SAF
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple	10-100kN



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	disks & friction pads / centrifugal brakes with friction pads	
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	10-100kN
Jiangyin Neptune Marine Appliance Co Ltd	Lifeboat – Twin Fall / with or without sprinkler and air system	NPT, NPTF / C,
	Lifeboat – Freefall / with or without sprinkler and air system	NPT-FF, NPT-FA, NPT-FC
	Lifeboat – Twin Fall / Partially Enclosed	NPT-P
	Rescue Boat – Single Fall Rescue Boat	NPT-R, NPT-RA, NPT-RB
	Rescue Boat – Fast Rescue Boat	NPT-RA, NPT-RB
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	NPT, HK
	Release Gear – Freefall hydraulic / mechanical	NPT, HK
	Davit – Fixed outrigger	NPT-DP, NPT-PL, NPT-BE
	Davit – Freefall A/frame	NPT-DF
	Davit – Roller track gravity	NPT
	Davit – Hydraulic / luffing gravity lowering	NPT-DL, NPT-DYL
	Davit – Single Arm Slewing	NPT-DR, NPT-AD
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	NPT, DW, DWA
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	NPT, DW, DWA
	Winch - Single drum, Hydraulic lowering and hoisting	NPT-DF, DW, A
Jiangyin Wolong FRP Boat Co	Lifeboat – Twin Fall / with or without sprinkler and air system	JY, JY-C,
	Lifeboat – Freefall / with or without sprinkler and air system	JY-F, JY-FF
	Lifeboat – Twin Fall / Partially Enclosed	JY-P
	Rescue Boat – Single Fall Rescue Boat	JY, JY-DR, JY-KR
	Rescue Boat – Fast Rescue Boat	JY, JY-KR



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	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	HK, LBMR
	Release Gear – Freefall hydraulic / mechanical	FHK
	Davit – Fixed outrigger	JY-PL
	Davit – Freefall A/frame	JY-FH
	Davit – Roller track gravity	JY-HE
	Davit – Hydraulic / luffing gravity lowering	JY-LE, JY-PLR, JY-LF, JY-LR, JY-GL, JY-RE, JY-TBD
	Davit – Single Arm Slewing	JY-SA, JY-SAF, JY-HSR
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	JY-D
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	JY-D
Jiangyinshi Beihai LSA Co Ltd	Lifeboat – Twin Fall / with or without sprinkler and air system	JYB-C/F, JYB-FF/FC, JYB-G
	Lifeboat – Freefall / with or without sprinkler and air system	
	Lifeboat – Twin Fall / Partially Enclosed	JYB-B
	Rescue Boat – Single Fall Rescue Boat	JYB-KR, SC45, SC-KR
	Rescue Boat – Fast Rescue Boat	JYB-KR, SC45, JYB-G, JYB-Q
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	JYBHK, JX
	Release Gear – Freefall hydraulic / mechanical	JYBHK-F, JX
	Davit – Fixed outrigger	PD
	Davit – Freefall A/frame	FA
	Davit – Roller track gravity	RBH, HBH
	Davit – Hydraulic / luffing gravity lowering	BHGH, BHGP, EHRD, FRH, JYB, LA, LB/-H, SA, SRH
	Davit – Single Arm Slewing	SA, SAC, SMR
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple	D, JYB, JYBW,



Annex N

List of makes and types of equipment

	disks & friction pads / centrifugal brakes with friction pads	
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	YZ
	Winch - Single drum, Hydraulic lowering and hoisting	IY-J3, ZPW
Kyuritsu Kikai	Davit – Freefall A/frame	LAF
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	DBZ
Lifeguard	Rescue Boat – Single Fall Rescue Boat	IR
MacGregor	Davit – Hydraulic / luffing gravity lowering	A-type, G-type, HMD, T-type
	Davit – Single Arm Slewing	GP, HMD
	Winch - Single drum, Hydraulic lowering and hoisting	HMW
Manabe Zoki	Davit – Hydraulic / luffing gravity lowering	BDC, BDW, R/L
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	BDW, R/L
Mansei Inc (Miura Machine)	Release Gear - Automatic – lift over centre	RH
	Davit – Freefall A/frame	D-FH, DE-FH, MFE, MFH, FE, FH, H
	Davit – Roller track gravity	AT, GRA, RT
	Davit – Hydraulic / luffing gravity lowering	ABD, AH, AV, BD, CM, EBD, EH, ET, EV, EM, H, M, MVD, SPG, T, V, H, HR, MHR,
	Davit – Single Arm Slewing	HER, HR, MFH, MHR, R, RD, S, SAR, SP, SR
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	ABW, AW, BA, BE, BH, BW, CMW, DFH, EW FBW, LBH, LW, MW, RBH, RW, W
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	ERW, MLW, RMW, SW,
	Winch - Single drum, Hydraulic	06, FW, D-FH



Annex N

List of makes and types of equipment

	lowering and hoisting	
Maritime Partner (Alusafe, Seabear, Weedo)	Rescue Boat – Fast Rescue Boat	MOB, 17, 25, 600, 700, 770, 900, MkII, MkIII
M.E.P Pellegrini	Davit – Hydraulic / luffing gravity lowering	GNTD, RCL, SAR, SPR
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	VL, VAS
	Winch - Single drum, Hydraulic lowering and hoisting	EW
Montmontaza Greben	Lifeboat – Twin Fall / with or without sprinkler and air system	TEL
	Lifeboat – Freefall / with or without sprinkler and air system	FFL
	Lifeboat – Twin Fall / Partially Enclosed	PEL
	Rescue Boat – Single Fall Rescue Boat	RB
	Release Gear - Off load / On load – lift not over centre / Up and Down Pins	NLH
	Launching Appliance Davit	HFFL, HFEL, HRLC, NT, RLC, SAR, SPG,
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	BE, EW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	BE, EW
Neuvisa (Viking Neuvisa)	Rescue Boat – Single Fall Rescue Boat	RR
Nils S. Hansen	Rescue Boat – Fast Rescue Boat	MP, Springer
Ningbo Asia FRP Boat Manuf. Co	Lifeboat – Twin Fall / with or without sprinkler and air system	YZ-C, YZ-CS, YZ-F
	Lifeboat – Freefall / with or without sprinkler and air system	YZ-FC, YZ-FF
	Rescue Boat – Single Fall Rescue Boat	BJ, YZ, YZ-R, YZ-RA, YZ-RB, YZ-SA
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	YZHK
	Release Gear – Freefall hydraulic / mechanical	PS
	Release Gear - Off load – lift over	YZ-HB



Annex N

List of makes and types of equipment

	centre	
	Release Gear - Automatic – lift over centre	YZ-HB
	Davit – Freefall A/frame	YZF
	Davit – Hydraulic / luffing gravity lowering	L, LE, L-S, YZL, YZ-AD
	Davit – Single Arm Slewing	B, DZ, YZF, ZF,
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	D, DS, DZ, YZD, Z, ZF
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	D, DS, DZ, YZD, Z, ZF
Ningbo Kairong	Davit – Freefall A/frame	A, C, FFD
	Davit – Hydraulic / luffing gravity lowering	A, C
	Davit – Single Arm Slewing	A, C, KNX
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	A, C
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	A, C
	Winch - Single drum, Hydraulic lowering and hoisting	IYJ
Ningbo New Marine	Lifeboat – Twin Fall / with or without sprinkler and air system	NM-C, NM-F
	Lifeboat – Freefall / with or without sprinkler and air system	NM-FC, NM-FF
	Rescue Boat – Single Fall Rescue Boat	NM-R, NM-RB
	Rescue Boat – Fast Rescue Boat	NM-R
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	HK
	Release Gear – Freefall hydraulic / mechanical	HKF
	Release Gear - Off load – lift over	JX, SK



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List of makes and types of equipment

	centre	
	Davit – Fixed outrigger	NMPL, NMPSR, PD,
	Davit – Freefall A/frame	NMF, 55-90KN
	Davit – Hydraulic / luffing gravity lowering	NMD, NMGD, L, HLA, NM, NMAR, 18-120KN
	Davit – Single Arm Slewing	NMD, NMSD, NMSC NMC
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	D, NMW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	D, NMW
	Winch - Single drum, Hydraulic lowering and hoisting	IYJ, NMW
NMF	Davit – Single Arm Slewing	BPK, BPK2, KD
NorDavit	Davit – Fixed outrigger	ORD, OPD
	Davit – Roller track gravity	RD
	Davit – Hydraulic / luffing gravity lowering	SDP, DVSE, E, SP
	Davit – Single Arm Slewing	DVSE, E, LRD, SP
	Winch – Twin drum, Gravity-lowering / Electric hoisting, Holding / static brakes with mechanically operated multiple disks & friction pads, centrifugal brakes with friction pads	DVSE, E, NDV, L, SP
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	E, LRW, SP
Ocean Key Deck Machinery	Rescue Boat – Single Fall Rescue Boat	IRB
	Release Gear - Automatic – lift over centre	15kN, 22kN, 35kN
	Davit – Single Arm Slewing	Single Arm Slewing
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	Mechanical
Oriental Precision (OPCO, Oriental-Sekigahara)	Davit – Roller track gravity	RTD
	Davit – Freefall A/frame	FF, FD
	Davit – Hydraulic / luffing gravity	DHA, DMA, HGD, HGK, RD, SHS



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List of makes and types of equipment

	lowering	
	Davit – Single Arm Slewing	DLB, HPC, LD, RBD, RBDS, RD, RDS
	Winch – Twin drum, Gravity-lowering / Electric hoisting, Holding / static brakes with mechanically operated multiple disks & friction pads, centrifugal brakes with friction pads	BWE, SWE
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	RDW, WL
	Winch - Single drum, Hydraulic lowering and hoisting	WL
Palfinger Marine (Acta, Beiyang, Davit Co., Fast RSQ, Fiskars, Harding, Harding Safety, Mulder & Rijke, Ned-Deck, Noreq, Schat-Davit, Schat-Harding, Schat-Watercraft, Watercraft, Waterman)	Lifeboat – Twin Fall / with or without sprinkler and air system	CTL, EL, KISS, MC, MCB, MCH, MKIV-V, MP, NPT, Spurt, TECB, TELB, VLET, WH, 300
	Lifeboat – Freefall / with or without sprinkler and air system	FF, WFF
	Lifeboat – Twin Fall / Partially Enclosed	CRV, MPC, PE, PELB, 300
	Rescue Boat – Single Fall Rescue Boat	MOB, NPT, R, RB, RSQ, WH, 300
	Rescue Boat – Fast Rescue Boat	FRB, FRSQ, HRB, NPT, Spurt, Stinger
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	H86, KH, KHR, LHR, LHR MkII, Palhook, Titan
	Release Gear - Automatic – lift over centre	ARH, CAR
	Release Gear – Freefall hydraulic / mechanical	FFH, H86MFF, WFF
	Release Gear - Off load – lift over centre	RH, RRH
	Davit – Fixed outrigger	FAD, ORD, WOD
	Davit – Freefall ramp	RA
	Davit – Freefall A/frame	FF, FFD, FSS, HF, HFFS, LA-DA, LA-DH
	Davit – Roller track gravity	GRA, HD-RT, LT, MRT, ND, NT, NTP, NTSD, SAT
	Davit – Hydraulic / luffing gravity lowering	FPG, FRP, FSP, GES, HD, LAR, MOB, MP, MRD, NDP, NP, NW, PAR, PBR, PFH, PHA, PRH, RPSP, SA, SAP, SC, SPD, SPG, SPLC, SPR, UDR, UDSP, UNIC, VIP, WRG, WP
	Davit – Single Arm Slewing	DR, D-CR, GES, MOB, RSD, SA, SAC, SAR, SCH, SCM, SP, SPMOB, SR, SRR



Annex N

List of makes and types of equipment

	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks or friction pads / centrifugal brakes with friction pads	0, 1, 10, 12, 14, 16, 18, 2, 20, 22, 24, 3, 30, 38, 58, BE, DEW, EW, GES, LW, MW
	Winch – Twin drum, Gravity-lowering / Electric hoisting / Holding / static brakes, multiple disks, hydraulically operated / Hydraulic pump lowering brake	CW, W,
	Winch – Single drum, Gravity-lowering / Electric hoisting / Holding / static brakes, multiple disks, hydraulically operated / Hydraulic pump lowering brake	CW, W,
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	EW, FM, FME, GES LA, RSD, 0, 08, 1, 2, 3
	Winch - Single drum, Hydraulic lowering and hoisting	Bo, RSD, RWH, WH
Pesbo	Lifeboat – Twin Fall / with or without sprinkler and air system	BSC, BS-TD
	Lifeboat – Freefall / with or without sprinkler and air system	BSL
	Lifeboat – Twin Fall / Partially Enclosed	BS
	Rescue Boat – Single Fall Rescue Boat	BR
	Rescue Boat – Fast Rescue Boat	BR
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	BSC, BSL
	Release Gear – Freefall hydraulic / mechanical	BSC, BSL
Sezamor	Release Gear - Automatic – lift over centre	HS
	Release Gear - Off load – lift over centre	HL, HLR,
	Davit – Hydraulic / luffing gravity lowering	ZLJ, ZZ, ZZLJ
	Davit – Single Arm Slewing	ZOL, ZOLP, ZOLT, ZOP, ZOT, ZOTPA, ZOW, ZUZW, ZZ, ZZW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	E, ER, WL, WLT, WT, WTR, ZZ



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List of makes and types of equipment

Shanghai Jiangnan Boatbuilding	Lifeboat – Twin Fall / with or without sprinkler and air system	JN
	Rescue Boat – Single Fall Rescue Boat	JN
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	JN, HK, FF
Shin Nippon Koki	Davit – Single Arm Slewing	SND
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	SND, SNW
SPP Machine Tech	Davit – Single Arm Slewing	SBD
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	LW / RW
Stocznia Ustka	Lifeboat – Twin Fall / with or without sprinkler and air system	LRT, T, TELB, Z
	Lifeboat – Freefall / with or without sprinkler and air system	FFB
	Lifeboat – Twin Fall / Partially Enclosed	P
	Rescue Boat – Single Fall Rescue Boat	R, RB, RIB
	Rescue Boat – Fast Rescue Boat	FRB, RF
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	On-Load,
	Release Gear – Freefall hydraulic / mechanical	Hydr Ram
	Davit – Freefall ramp	PZ
	Davit – Freefall A/frame	HUZ, HZ, UZ
	Winch - Single drum, Hydraulic lowering and hoisting	IYJ
Survitec (Survival Craft Inspectorate, DSB, Zodiac)	Lifeboat – Twin Fall / with or without sprinkler and air system	SC, SCF
	Rescue Boat – Single Fall Rescue Boat	SC, FRB, IRB, RIBO
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	RocLoc, Safelaunch,
	Release Gear - Automatic – lift over centre	SLA



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List of makes and types of equipment

Survival Systems International (SSI)	Release Gear - Off load / On load – lift over centre release gear	Triple 5, T5LX, TFLX, Triple5/Suresafe, Triple5LX, Triple5/JXN
T-ISS	Release Gear - Automatic – lift over centre	PX, 15kN, 21-25kN, 31-37kN
TTS	Davit – Single Arm Slewing	HL-D, HTL
	Winch - Single drum, Hydraulic lowering and hoisting	Hydraulic
Towimor	Davit – Single Arm Slewing	PSB, P/10-100
	Winch - Single drum, Hydraulic lowering and hoisting	Hydraulic
Tsuneishi (Tsunesihi Forestry Co, Kambara Ringyo, Sanyo Works)	Lifeboat – Twin Fall / with or without sprinkler and air system	KL, TL
	Release Gear - Off load / On load – lift not over centre / Up and Down Pins	43GS-1 (A,B,C,D), Fixed Type (off-load)
Ulstein Fama	Davit – Single Arm Slewing	ZO, ZT
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	ERM, WTR
Vanguard (Nantong Vanguard, Vanguard Composite Eng)	Lifeboat – Twin Fall / with or without sprinkler and air system	VG-C, VG-F
	Lifeboat – Freefall / with or without sprinkler and air system	VG-FF
	Rescue Boat – Single Fall Rescue Boat	VG-DRS, VG-KR
	Rescue Boat – Fast Rescue Boat	VG-FRK, VG-FRW
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	C-Safe, C-Safe MkII, Spearhead
	Release Gear – Freefall hydraulic / mechanical	VG
	Release Gear - Off load – lift over centre	C-Safe
Vestdavit	Release Gear - Off load – lift over centre	LB
	Davit – Hydraulic / luffing gravity lowering	H, HN, L, P, PAP, PAPH, PLAR, PLD, PLi, TBD
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks & friction pads / centrifugal brakes with friction pads	A, C, CL



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List of makes and types of equipment

	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	A, C, CL
	Winch - Single drum, Hydraulic lowering and hoisting	A, C, CL
Viking Life-Saving Equipment (Norsafe, Norsafe Hellas, Jiangyin Norsafe, Viking Norsafe, Watercraft Hellas, Jorgensen & Vik, Nadiro)	Lifeboat – Twin Fall / with or without sprinkler and air system	JYN, Maggie, Maria, Mathilda, Maud, Maxima, Mina, Miriam, Mistral
	Lifeboat – Twin Fall / Partially Enclosed	Minima
	Lifeboat – Freefall / with or without sprinkler and air system	GES
	Rescue Boat – Single Fall Rescue Boat	Matrix, Mako, Merlin, Midget, MOB,
	Rescue Boat – Fast Rescue Boat	Magnum, Mako, Merlin, WHFRB
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	HK, TOR, NLH,
	Release Gear - Off load / On load – lift over centre release gear	DIB
	Release Gear – Freefall hydraulic / mechanical	DIB, HRS, NFFH,
	Release Gear - Off load – lift over centre	K4
	Release Gear - Automatic – lift over centre	RCH
	Davit – Fixed outrigger	C, D, NDC
	Davit – Freefall ramp	
	Davit – Freefall A/frame	H, HD, SW,
	Davit – Roller track gravity	GRA
	Davit – Hydraulic / luffing gravity lowering	E, LH, LHD, NDA, NDC, NRB, ND-SPG, SPGL
	Davit – Single Arm Slewing	NDSC, NDSC-R, NRC, VNLD
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks or friction pads / centrifugal brakes with friction pads	NW, NWR, NW-NO
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	DW



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List of makes and types of equipment

Woo iL Heavy Machinery	Davit – Hydraulic / luffing gravity lowering	DMA, NK
	Davit – Single Arm Slewing	DMA, NK
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks or friction pads / centrifugal brakes with friction pads	DMA, NK
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	DMA, NK
Wuxi Dongwu Marine Equipment Co	Lifeboat	WJB
	Release Gear	On-Load
	Davit – Freefall A/frame	F55, F70, NPT
	Davit – Roller track gravity	25kN, 30kN, W
	Davit – Hydraulic / luffing gravity lowering	A, D, H, Sk50, T2.5, 18kN – 100kN,
	Davit – Single Arm Slewing	DWC, 21kN-35kN
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks or friction pads / centrifugal brakes with friction pads	D, DS, DZ, DZY, 80kN
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	10, D, DS, DZ, DZY
Wuxi Hai Hong Boat Making Factory	Lifeboat – Twin Fall / with or without sprinkler and air system	HH-C/T, HH-CS/TS, QFN, QFP
	Lifeboat – Freefall / with or without sprinkler and air system	HH-FC, HH-FF
	Rescue Boat – Single Fall Rescue Boat	GJ, GJ-B
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	HH20, HH30, HH43, HH76,
	Release Gear – Freefall hydraulic / mechanical	HH-FF
Wuxi Hongsheng Marine FRP Co Ltd	Lifeboat – Twin Fall / with or without sprinkler and air system	HS-C, HS-F
	Rescue Boat – Single Fall Rescue Boat	GJ
	Rescue Boat – Fast Rescue Boat	HS, HSG, HSG-R, HSJ



Annex N

List of makes and types of equipment

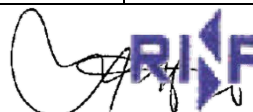
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	HK, HK(A), WHK
	Release Gear - Off load – lift over centre	HK, HK(A),
Wuxi Huahai Marine Equipment	Davit – Freefall A/frame	HMD-F
	Davit – Fixed outrigger	PD
	Davit – Hydraulic / luffing gravity lowering	HMC, HMD, HMD-A,
	Davit – Single Arm Slewing	HMCD, HMD, HMDT,
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks or friction pads / centrifugal brakes with friction pads	HMW, MW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	HMW, MW
	Winch - Single drum, Hydraulic lowering and hoisting	IYJ
Wuxi City Mingzi	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	HK, HK(B), WHK
	Release Gear – Freefall hydraulic / mechanical	HK, HK(A)
	Release Gear - Off load – lift over centre	150-T, 21-25kN, T
	Release Gear - Automatic – lift over centre	250-T, 370-T, 31-37kN, T
Wuxi Wenjiao GFRP Factory	Lifeboat – Twin Fall / with or without sprinkler and air system	WJ, WJ-C, WJ-F, WJB, WJB-C, WJB-F
	Lifeboat – Freefall / with or without sprinkler and air system	WJFC-FF, WJFF
	Rescue Boat – Single Fall Rescue Boat	WJD, WJKR, WJR
	Rescue Boat – Fast Rescue Boat	WJRB, WJRA
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	WJHK, NPT-HKC
	Release Gear – Freefall hydraulic / mechanical	WJFF, WJHKF



Annex N

List of makes and types of equipment

	Release Gear - Off load – lift over centre	WJHK
Wuxi Xingsheng Gearbox Factory Co Ltd	Release Gear - Off load – lift over centre	XS, 15kN, 21kN, 23kN, 25kN, 35kN
	Release Gear - Automatic – lift over centre	XS, 15kN, 21kN, 23kN, 25kN, 35kN
Yilmaz Denizcilik	Release Gear - Automatic – lift over centre	15kN, 22kN, 35kN, YDGS
Youngnam Marine	Davit – Hydraulic / luffing gravity lowering	YDHA, YN, YNHD, YNBD, YNLW, YNRW
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks or friction pads / centrifugal brakes with friction pads	YN, YNBW, YNLW, YNRW
CSSC Luzhou Zhenjiang Marine Auxiliary Machinery Works	Lifeboat – Twin Fall / with or without sprinkler and air system	YH, YH-QFN, YH-QFP,
	Lifeboat – Freefall / with or without sprinkler and air system	YH, YH-FN, YH-FP
	Rescue Boat – Single Fall Rescue Boat	YH-DR, YH-R
	Rescue Boat – Fast Rescue Boat	YH-FRA, YH-FRB
	Davit – Fixed outrigger	PL
	Davit – Roller track gravity	FH
	Davit – Freefall A/frame	HE
	Davit – Hydraulic / luffing gravity lowering	GL, LA, LE, LFR, LFRH, RE, SRH
	Davit – Single Arm Slewing	HDCL, SA, SAF, SAFC
	Release Gear - Off load / On load – lift not over centre release gear / Forward or reverse curve to curve / curve to flat rotating cams	HK, SH
	Winch – Twin drum, Gravity-lowering / Electric hoisting / holding static brakes with mechanically operated multiple disks or friction pads / centrifugal brakes with friction pads	DS, DPS, DPZ, DZ, HMD, MW
	Winch - Single drum, Gravity lowering / Electric hoisting / static brake pads, cone, disk, band / Centrifugal brakes with friction pads	DS, DPS, DPZ, DZ, HMD, MW
Zollern	Winch - Single drum, Hydraulic lowering and hoisting	ZHB, ZHP, ZR


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