

## CERTIFICATE OF APPROVAL OF SERVICE SUPPLIER

CERTIFICATE NO. SSU151322XT

*This is to certify that*

**ALTANLAR YANGIN SÖNDÜRME GÜVENLİK SİSTEMLERİ VE  
GEMİ INSAA BAKIM ONARIM TIC.LTD.**

EVLIYA CELEBI MAH. GENC OSMAN CAD., NO.36

34944 Tuzla TR TURKEY

*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:*

**E - Servicing inflatable liferafts, inflatable lifejackets, hydrostatic  
release units, inflatable rescue boats, marine evacuation systems**

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

**D - Inspection and maintenance of fire extinguishing equipment  
and systems**

**H - Inspection and maintenance of self-contained breathing  
apparatus**

*Date of the audit:* **14 Oct 2022**

*Issued in* **ISTANBUL**

*on* **03 Nov 2022**

*This Certificate is valid from the date of the audit until*

**13 Oct 2025**

*This certificate consists of this sheet plus an attachment.*



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

**Devrim KACAR**

RINA Services S.p.A.



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## ATTACHMENT TO CERTIFICATE NO. SSU151322XT

### VALIDITY CONDITIONS

Authorizations for Category E;

Maker: SURVITEC; Models: Crewsaver UK ISO TYPE1/TYPE 2(EV), Crewsaver UK Mariner, Eurovinil EV ISO 9650-1, Eurovinil EV ISO 9650-1(DM219), Eurovinil EV ISO 9650-2, Eurovinil EV ISO9650, Eurovinil EV ISO 9650(Spain), Eurovinil ST-GREEK, Eurovinil ST-INTL, Eurovinil ST-ITA DM77

Maker: EUROVINIL ;Models: EV M10 DL/TO, EV SOLAS SILVER Series TO, EV SOLAS SILVER M10 TO, Eurovinil SoLaS CE 50P TO, Eurovinil SoLaS CE TO/DL, Eurovinil SoLaS IMO, Eurovinil SoLaS MED

Maker: RFD Models: RFD Ferryman (SingleRaft), RFD Ferryman SingleRaft HSC, RFD Means of Rescue, RFD Surviva ('Mk I') DL, RFD Surviva ('Mk I') TO, RFD Surviva Mk II, RFD Surviva Mk III DL, RFD Surviva Mk III TO, RFD Surviva Mk IV DL, RFD Surviva Mk IV TO, RFD Surviva R (SR) DL, RFD Surviva R (SR) TO

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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.

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### General conditions for the approval

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



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

Devrim KACAR  
RINA Services S.p.A.

This certificate consists of 2 pages.



## Annex N

### List of makes and types of equipment

**Attached to Certificate No.**

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:

### DAVITS

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
ACTA	Free fall secondary hydraulic A Frame	HSC- series
	Single Arm Slewing	DC- series, DR-series, HSC-series, MOB-series
BADA HEAVY IND. CO., LTD (EX:DAERYUCK MACHINERY)	Free fall secondary hydraulic A Frame	BDF-series, HDFL-series
	Gravity Freefall primary	BDF-series
	Single Arm Slewing	BDR-series, BLR-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	BDTD-series, TT-series
	Twin Fall Gravity Pivoting / Luffing	BDH-series, BDMS-series, HINGED GRAVITY-series
	Twin Fall Gravity Rollertrack	BDTW-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	BDH-series
DAVIT COMPANY	Gravity single and twin fall outrigger	FFFDA-series
	Single arm Slewing	SRR-series
DAVIT INTERNATIONAL	Free fall secondary hydraulic A Frame	D-FH-series
	Gravity freefall primary	D-TF-series
	Gravity single and twin fall outrigger	D-FO-series, D-FOS-series
	Single arm Slewing	D-BR-series, D-CR.R-series, DCRH. R-series, D-CRM-series, DFOS- series, D-RC-series, D-RC.T -series, D-SR04- series, D.BC.Rseries, D.CRE.R-series
	Single or Twin Fall Lifeboat Rescue Boat /Fast Rescue Boat Telescopic Hydraulic	D-FP.R-series, D-TT-series, DTT.SP-series
	Twin Fall Gravity Pivoting / Luffing /Rollertrack	D-NP-series, D-NP.MP-series, D-RT-series, D- SP-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	D-FP.R-series, D-TT-series, DTT.SP-series



## Annex N

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DONGNAM MARINE CRANE CO.,LTD.	Single arm Slewing	DCPV-series, DNRD-series, DRseries, DRBLRD-series, DSACseries, DSAD-series
	Twin Fall Gravity Pivoting / Luffing	DHGD-series
	Twin Fall Gravity Pivoting / Luffing	DWS-series
FASSMER	Free fall secondary hydraulic A Frame	FFH-series
	Gravity freefall primary	FLR-series
	Single arm Slewing	FSARR-series
	Twin Fall Gravity Pivoting /Luffing/Hydraulic	FPD-series, FMPD-series
FASSMER MARLAND	Free fall secondary hydraulic A Frame	FFH-series
GLOBAL DAVIT	Gravity single and twin fall outrigger	GSP.O-series, RSP.O-series
	Single arm Slewing	FHS-series, FHS.L-series, FHS.Rseries, FHS.R.L-series, FHS.R.L.S-series, FHS.R.Sseries, FHS.S-series, LMES.Sseries, 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
	Twin Fall Gravity Pivoting / Luffing / Rollertrack	GLP.FP-series, GLP.MP-series, GSP.FP-series, GSP.MP-series, GLP.RT-series, GSP.RT-series, GSP.RT, GLP.RT-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	GLP.FLH-series, GLP.FPH-series, GSP.FLH-series, GSP.FPH-series, RHL-series, RHP-series
GURDESAN	Free fall secondary hydraulic A Frame	GD-FFD-series
	Single arm Slewing	GD-KHK-series, GD-RRS-series
HARDING (UMO SCHAT HARDING)	Free fall secondary hydraulic A Frame	FF-series
	Gravity freefall primary	FFB-series, LA-series
HARDING (UMO SCHAT HARDING)	Gravity single and twin fall outrigger	HD-FL-series, ORD-series
	Single arm Slewing	LAR-series, SAR-series, SPR-series, SRR-series, SA-series
	Twin Fall Gravity Pivoting / Luffing/Hydraulic	HD-SPG-series, HD-VIP-series,



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		SPG(VL)-series, GRA-series, HD-RT-series, SPD-series
	Twin Fall Gravity Pivoting / Luffing	HD-SPG-series, HD-VIP-series, SPG(VL)-series
	Twin Fall Gravity Rollertrack	GRA-series, HD-RT-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	SPD-series
HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Single arm Slewing	MOB-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack	SPG(L)-series, NT-series
	Free fall secondary hydraulic A Frame	LA-series
HARDING (WATERCRAFT)	Twin Fall Gravity Rollertrack	WRG-series
HATECKE (ERNST HATECKE)	Free fall secondary hydraulic A Frame	FFA-series
	Gravity freefall primary	FFB-series
	Gravity single and twin fall outrigger	GSP.O-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	GSP.FP-series
IHI MARINE UNITED INC	Twin Fall Gravity Pivoting / Luffing	MUL-series
IKNOW MACHINERY (EX: TSUJI)	Twin Fall Gravity Pivoting / Luffing	HD-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO.)	Free fall secondary hydraulic A Frame	JYF-series
	Gravity single and twin fall outrigger	JYP-series
	Single arm Slewing, Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	JYRCA-series, JYR-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack	JYL-series , JYGR-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Free fall secondary hydraulic A Frame	NPT-DF-series
	Gravity single and twin fall outrigger	NPT-DP-series, NPT-PL-series
	Single arm Slewing	NPT-DR-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NPT- BE-series, NPT-DR-series
	Twin Fall Gravity Pivoting / Luffing	NPT-DL-series, NPT-DP-series, NPT-DYL-series



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JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Free fall secondary hydraulic A Frame	JY-FH-series
	Gravity single and twin fall outrigger	JYPL-series
	Single arm Slewing	JYSA-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	JY-LFR-series, JY-LRHE-series, JY-PLR-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack	JYPL-series, JYHE-series
JIANGYINSHI BEIHAI	Free fall secondary hydraulic A Frame	FA-series
	Gravity single and twin fall outrigger	PD-series
	Single arm Slewing	SA-series, SAC-series, SMRseries
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	EHRD-series, FRH-series, SRHseries
	Twin Fall Gravity Pivoting / Luffing / Rollertrack/Hydraulic	BH-G-series, LA-series, LB-Hseries, HB-H-series, RB-H-series, BHGH-series
MACGREGOR (TTS) (HYDRAMARINE)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	G-TYPE-series, A-TYPE-series, HLD-series, HMC,HMD -series,
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	T-TYPE-series
MANSEI INC.	Free fall secondary hydraulic A Frame	D-FH-series, FE-series, MFHseries
	Single arm Slewing, Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	R-series, SAR-series, SR-series, HER-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack	M series, ABD-series, AH-series, AVseries,EH-series, EM-series, AT-series, GRA-series
NED-DECK MARINE (PALFINGER)	Gravity single and twin fall outrigger	FPG-series
	Single arm Slewing, Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	SCH, SCM-series, SCT series, SEC-series, PFH, PRH, PRHE-series,
	Twin Fall Gravity Pivoting / Luffing	PL-series
NMF	Single arm Slewing	BPK-series, KD.2-series
NOREQ (PALFINGER)	Gravity single and twin fall outrigger	NRD-series
	Single arm Slewing, Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	SCH, SCH-R, SCHD,SCM-L-series, SCM -R series, NPD-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	NPD-series
ORIENTAL PRECISION	Free fall secondary hydraulic A Frame	FD-series
	Single arm Slewing	RD-series, SHS-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack	DHA , DMA, HGD-series, HGK-series, RTD-series



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ORIENTAL PRECISION - SEKIGAHARA	Twin Fall Gravity Pivoting / Luffing	SHS-series
PALFINGER	Free fall secondary hydraulic A Frame	NPT-DF-series
	Gravity freefall primary	FF-series
	Gravity single and twin fall outrigger	FPG-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	SCH-R-series, SCM-L-series, SCM -R-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	NTD-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack Twin Fall Hydraulic	NPT-series, VIP-series, NPD-series, PFH-series
PELLEGRINI MARINE EQUIPMENT	Single arm Slewing	CHCD 2,507+ RLC 2.1/4.5- series, RLC-series
	Twin Fall Gravity Pivoting / Luffing	GRA-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Free fall secondary hydraulic A Frame	BD-FF-series
	Gravity single and twin fall outrigger	BD-PL-series
	Single arm Slewing	BD- SA-series, BD-SH-series
	Twin Fall Gravity Pivoting / Luffing	BD-PV-series
SEKIGAHARA	Free fall secondary hydraulic A Frame	SF-series
	Single arm Slewing	SSS-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack	SFA-series, SFB-series, SFPseries, SHS-series, AT-series, STS-series
SHIN MYUNG TECH	Single arm Slewing	SMRB&LRD-FT-series, SMRBD-SD -series, SMRBD&LRD-series, SMRBD&PV-series
STOCZNIA USTKA SP. Z O.O.	Free fall secondary hydraulic A Frame	HZ-series
	Gravity freefall primary	PZ-series
TSUJI HEAVY INDUSTRIES	Single arm Slewing	RP-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack	H-series, T83-series, TC-series
TTS (HYDRALIFT )	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	HL-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	HL9D-series



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ULSTEIN FAMA (FAMA GNIEW)	Single arm Slewing	ZO-series, ZT-series
VESTDAVIT	Single arm Slewing	L-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	P, PAP, PAPH, PL-series, PLAR-series, PLD-series, PLI-series, PLP-series, PLR-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	TBD-series
VIKING (NORSAFE)	Gravity freefall primary	SW-series
	Gravity single and twin fall outrigger	A-series, C-series, D-series, NDC-series
	Single arm Slewing	NRC-R-series
	Single Fall Rescue / Fast Rescue Boat AFrame Hydraulic	NDA-series, NRB-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack Twin Fall Hydraulic	E-series, LH-series
VIKING (NORSAFE) (JIANGYIN)	Single arm Slewing	NDSC-series, NDSC-R-series
	Free fall secondary hydraulic A Frame	HD-series
WUXI DONGWU	Free fall secondary hydraulic A Frame	F55-F70-series, NPT100F-series
	Single arm Slewing, Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	21 - 35KN-series, DCW210, A30/H35-series
	Twin Fall Gravity Pivoting / Luffing / Rollertrack	18KN-110KN-series, 25KN -30KN-series
WUXI HAIHONG BOAT MAKING CO., LTD	Single arm Slewing	23KN-series
WUXI HUAHAI	Gravity single and twin fall outrigger	PD-series
	Single arm Slewing	HMB-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	HMDA-series
	Twin Fall Gravity Pivoting / Luffing	HMD-series
WUXI SHENGOU	Free fall secondary hydraulic A Frame	SMDF-series
	Single arm Slewing	SMC-series, SMD-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	HMDA-series
	Twin Fall Gravity Pivoting / Luffing	SHMDL-series
	Twin Fall Gravity Rollertrack	SMD-series
YOUNGNAM MACHINERY CO.LTD	Twin Fall Gravity Pivoting / Luffing	YNBD-series





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ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	SRH-series
	Free fall secondary hydraulic A Frame	FH-series
	Gravity single and twin fall outrigger	PL-series
	Single arm Slewing	HDCL-series, SAFC-series, SAW30-series, ZF-series
	Twin Fall Gravity Pivoting / Luffing	L-series
ZHENJIANG WEST MARINE EQUIPMENT CO., LTD	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	WME-LRH35-series

## SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
DSB DEUTSCHE SCHLAUCHBOOTE	Rescue Boat, single fall	IRB-series
DSB ENGINEERING CO LTD	Partially enclosed lifeboat, twin fall	DSBP-series
	Rescue Boat, single fall	DSBRB-series, DSBRFA-series
	Totally enclosed lifeboat, freefall	DSBFC-series, DSBFF-series
	Totally enclosed lifeboat, twin fall, dry version	DSBC-series
	Totally enclosed lifeboat, twin fall, tanker version	DSBF-series
FASSMER	Fast Rescue Boat, single fall	FRR-series
	Partially enclosed lifeboat, twin fall	CL-P-series, PLL-series, PLTseries, SEL-series
	Rescue Boat, single fall	FRIR-series, RR-series
	Totally enclosed lifeboat, freefall	CFL-series, GAR-series, GAR-Tseries
	Totally enclosed lifeboat, twin fall, dry version	CL-series, CLR-series, CLXseries, GMR-series
	Totally enclosed lifeboat, twin fall, tanker version	CL-series, CLR-series, CLXseries, DRAGON-series, T-GMRseries
FASSMER MARLAND	Rescue Boat, single fall	RR-series
	Totally enclosed lifeboat, freefall	CFL-C-series, CFL-T-series
	Totally enclosed lifeboat, twin fall, dry version	DRAGON C-series, HH-C-series
	Totally enclosed lifeboat, twin fall, tanker version	DRAGON F-series, HH-T-series



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GEPA	Rescue Boat, single fall	G-RB-series
	Totally enclosed lifeboat, freefall	G-FFF-series
	Partially enclosed lifeboat, twin fall	G-FYK-series
	Totally enclosed lifeboat, twin fall, dry version, tanker version	G-FK-series, GFK-FP-series
GREBEN	Partially enclosed lifeboat, twin fall	PEL-series
	Rescue Boat, single fall	RB-series
	Totally enclosed lifeboat, freefall	FFL-series
GREBEN	Totally enclosed lifeboat, twin fall, dry Version, tanker version	TEL-series, TEL-FP-series
HARDING (UMO SCHAT HARDING)	Partially enclosed lifeboat, twin fall	CTL-series, ML-series, MPCseries
	Rescue Boat, single fall	MOB 4.5A-series
	Totally enclosed lifeboat, freefall	FF-series
	Totally enclosed lifeboat, twin fall, dry version	MCF-series
	Totally enclosed lifeboat, twin fall, tanker version	MCB-series, MCM-series
HARDING (WATERCRAFT)	Partially enclosed lifeboat, twin fall	MOB-series, MOBAC-series, PELB-, PERB-series
	Totally enclosed lifeboat, freefall	WFF-series
	Totally enclosed lifeboat, twin fall, tanker version	MK 1-, MK 2, MK 3-, MK 4-series, MK 5-series
HARDING BOAT BUILDING(QINGDAO) CO.,LTD.	Totally enclosed lifeboat, twin fall, dry version	TECB-series
HATECKE (ERNST HATECKE)	Partially enclosed lifeboat, twin fall	PEL-series, PL-series
	Rescue Boat, single fall	FRB-series, RB-series
	Totally enclosed lifeboat, freefall	GFF-series
	Totally enclosed lifeboat, twin fall, tanker version	GSL-series
HLB ( HYUNDAI LIFEBOATS)	Fast Rescue Boat, single fall	HDFR-series
	Rescue Boat, single fall	HDR-series
	Totally enclosed lifeboat, freefall	HDFN-F-series, HDFN-T-series
	Totally enclosed lifeboat, twin fall, dry version	HDL-series, HLB-series, HT78- series
	Totally enclosed lifeboat, twin fall, tanker version	HDL-series, HLB-series



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HYUNDAI LIFEBOATS CO. LTD	Totally enclosed lifeboat, freefall	HDFL740F-series
HOEI SENPAKU CO.,LTD	Totally enclosed lifeboat, twin fall, dry version	HS-series
	Totally enclosed lifeboat, twin fall, tanker version	HS650F-series, HSF-series
IHI MARINE UNITED INC	Totally enclosed lifeboat, twin fall, dry version	GTC-series, GTC-C-series
	Totally enclosed lifeboat, twin fall, tanker version	GT-F-series, GTC-F-series, GTRF- series
JAPAN MARINE UNITED CORP	Totally enclosed lifeboat, twin fall, dry version	GF-series
	Totally enclosed lifeboat, twin fall, tanker version	GTR-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO.)	Rescue Boat, single fall	GJ-series, GJF-series, GZ-series
	Totally enclosed lifeboat, freefall	JY-FF-series, JY-FN-series, JYMFF- series
	Totally enclosed lifeboat, twin fall, dry version	JY-QFN-series, JY-QFP-series
	Totally enclosed lifeboat, twin fall, tanker version	JY-QFN-series, JY-QFP-series
JIANGYIN NEPTUNE	Totally enclosed lifeboat, twin fall, dry version	NPT-C-series, SC-series
	Totally enclosed lifeboat, twin fall, tanker version	NPT-F-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Partially enclosed lifeboat, twin fall	NPT-P-series, NPT-PT-series
	Rescue Boat, single fall	NPT-R-series, NPT-RA-series, NPT-RB-series, NPT-RFA-series
	Totally enclosed lifeboat, freefall	NPT-FA-series, NPT-FC-series, NPT-FCA-series, NPT-FF-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Partially enclosed lifeboat, twin fall	JYP-series
	Rescue Boat, single fall	JYDR-series, JYKR-series
	Totally enclosed lifeboat, freefall	JYCF-series, JYFF-series
	Totally enclosed lifeboat, twin fall, dry version	JYC-series, JYCA-series
	Totally enclosed lifeboat, twin fall, tanker version	JYF-series, JYFA-series
JIANGYIN XINJIANG	Rescue Boat, single fall	GJ-series, GJ- B-series
	Totally enclosed lifeboat, freefall	JY-FN-series
JIANGYINSHI BEIHAI	Partially enclosed lifeboat, twin fall	JYB-B-series
	Rescue Boat, single fall	JY-BR-series, JYB-KR-series, SCK- series, SC-KR- series
	Totally enclosed lifeboat, freefall	JYB-FC-series, JYB-FF-series



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	Totally enclosed lifeboat, twin fall, dry version	JYB-C-series
	Totally enclosed lifeboat, twin fall, tanker version	JYB-F-series
NED-DECK MARINE (PALFINGER)	Rescue Boat, single fall	NMD 4.40 RESCUE-series
	Totally enclosed lifeboat, twin fall, tanker version	NPT-series, PN85F-series
NISHI-F CO., LTD., (EX. ISHIHARA DOCKYARD, NISHI- NIPPON)	Fast Rescue Boat, single fall	FRP-series
	Partially enclosed lifeboat, twin fall	PML-series
	Totally enclosed lifeboat, freefall	FF-series
	Totally enclosed lifeboat, twin fall, dry version	CML-series, EML-series, G-TRseries
	Totally enclosed lifeboat, twin fall, tanker version	CML-series, EML-series, G-FRseries
NOREQ	Partially enclosed lifeboat, twin fall	LBP-series
NOREQ (PALFINGER)	Fast Rescue Boat, single fall	FRB-series
	Rescue Boat, single fall	RRB-series
	Totally enclosed lifeboat, freefall	LBF-series
	Totally enclosed lifeboat, twin fall, tanker version	LBT-series
NORMAR	Fast Rescue Boat, single fall	FRC-series
	Rescue Boat, single fall	RESCUE-series
	Totally enclosed lifeboat, freefall	JY-FF 4.9 TO 8.5C-series, JY-FF 4.9 TO 8.5T-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Rescue Boat, single fall	BH-R-series
	Totally enclosed lifeboat, freefall	BH-F-series
	Totally enclosed lifeboat, twin fall, dry version	BH-series, BH10-series
	Totally enclosed lifeboat, twin fall, tanker version	BH-series
SHIGI SHIPBUILDING CO. LTD.	Rescue Boat, single fall	SZRS-series, VOX46-series
	Totally enclosed lifeboat, freefall	FEL-series
	Totally enclosed lifeboat, twin fall, dry version	SZBR-series, SZP-series, SZPR-series
	Totally enclosed lifeboat, twin fall, tanker version	SZTR-series
STOCZNIA USTKA SP. Z O.O.	Rescue Boat, single fall	FRB-series
	Totally enclosed lifeboat, freefall	R-series, RIB-series



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	Totally enclosed lifeboat, twin fall, dry version	FFB-series
SURVITEC	Rescue Boat, single fall	FF-series
	Totally enclosed lifeboat, freefall	SC-series
	Totally enclosed lifeboat, twin fall, dry version	SC-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
	Totally enclosed lifeboat, twin fall, tanker version	KL-FP-series
TSUNEISHI (SANYO WORKS)	Totally enclosed lifeboat, twin fall, dry version	TE-series
	Totally enclosed lifeboat, twin fall, tanker version	FP-series
VANGUARDE	Rescue Boat, single fall	VG-DRS-series, VG-KR-series
	Totally enclosed lifeboat, twin fall, dry version, tanker version	VG-C-series, VG-F-series, VG-HLB-series
VIKING (NORSAFE)	Fast Rescue Boat, single fall	MAGNUM-series, MAKO-series, MERLIN-series
	Partially enclosed lifeboat, twin fall	MINIMA-series
	Rescue Boat, single fall	MAKO-series, MERLIN-series, MIDGET-series
	Totally enclosed lifeboat, freefall	JYN-series
	Totally enclosed lifeboat, twin fall, dry version	JYN-C-series, MAGGIE-C-series, MATILDA-C-series, MAUDCseries, MAXIMA-C-series, MIRAM-C series
	Totally enclosed lifeboat, twin fall, tanker version	JYN-T-series, MAGGIE-T-series, MATILDA-T-series, MAUD-Tseries, MAXIMA-T- series, MIRAMT-series
VIKING (NORSAFE) (JIANGYIN)	Rescue Boat, single fall	MATRIX-series
	Totally enclosed lifeboat, freefall	GES-series
WATERCRAFT (WATERCRAFT HELLAS)	Rescue Boat, single fall	4.9M-RB-series
WATERCRAFT INTERNATIONAL	Totally enclosed lifeboat, twin fall, dry version	MKV-series
WUXI HAIHONG BOAT MAKING CO., LTD	Rescue Boat, single fall	JG-series
	Totally enclosed lifeboat, freefall	HH-FC-series, HH-FF-series
	Totally enclosed lifeboat, twin fall, dry version	HH-C-series, HH-CS-series



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### List of makes and types of equipment

WUXI HAIHONG BOAT MAKING CO., LTD	Totally enclosed lifeboat, twin fall, tanker version	HH-T-series, HH-TS-series
WUXI WENJIAO	Rescue Boat, single fall	WJ-series
	Totally enclosed lifeboat, freefall	WJFF-series, WJFFC-series, WUXI WENJIAO / WJFFC-series
	Totally enclosed lifeboat, twin fall, dry version	WJBC-series
	Totally enclosed lifeboat, twin fall, tanker version	WJBF-series
ZHEJIANG HENGXIN SHIP EQUIPEMENTS CO.,LTD	Rescue Boat, single fall	GJ-series
	Totally enclosed lifeboat, freefall	BCFC-series, BCFF-series, FL-Cseries,FL-F-series
	Totally enclosed lifeboat, twin fall, dry Version, tanker version	BCF-series, BCC-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Rescue Boat, single fall	YH-FRA-series, YH-R-series
	Totally enclosed lifeboat, freefall	YH-series
	Totally enclosed lifeboat, twin fall, dry Version, tanker version	YH-QFP-series, YH-DR-series
ZODIAC (SURVITEC)	Rescue Boat, single fall	H472S-series, RIBO-series
	Fast Rescue Boat, single fall	RIB-series

## RELEASE GEAR

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
BADA HEAVY IND. CO., LTD (EX.DAERYUCK MACHINERY)	Devices For Activating Release: Central Release Unit	BD-LH-series
	Devices for activating release: Free Fall Hydraulic Primary and Secondary	BHA-series
	Freefall Hydraulic / mechanical	BHA-series
	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	BHA-series
	Rescue boat offload lift over center	BHR-series
	Rescue boat offload w. Onload capability	BHR 255-series
BALDEN	Rescue boat automatic	BD-H-series
	Lifeboat on load lift not over centre, flat to flat rotating cams	BD-LBH-series
DAVIT INTERNATIONAL	Rescue boat offload w. onload capability	RH-series
	Rescue boat offload lift over center	OLH-series



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### List of makes and types of equipment

FASSMER	Devices For Activating Release: Central Release Unit	DUPLEX < 6.6T-series, DUPLEX > 6T-series
	Devices for activating release: Free Fall Hydraulic Primary and Secondary	FFH-series
	Devices For Activating Release: Hydrostatic Unit with Float	DUPLEX < 6.6T-series, DUPLEX > 6T-series
	Freefall Hydraulic / mechanical	F-series
GLOBAL DAVIT	Lifeboat on load lift not over centre	HRL-series
	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	HRL.26-series
	Rescue boat offload lift over center	HRN-series
	Rescue boat offload w. Onload capability	HR-series
GEPA	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	G-K-series
HARDING (UMO SCHAT HARDING)	Devices for activating release: Free Fall Hydraulic Primary and Secondary	FFH-series
	Fast rescue boat offload / Manual or automatic	CAR-35F-series
	Freefall Hydraulic / mechanical	FFH-series
	Rescue boat offload w. Onload capability	RRH-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	ARH 23-series
HATECKE (ERNST HATECKE)	Devices for activating release: Free Fall Hydraulic Primary and Secondary	GFF-series
	Devices For Activating Release: Hydrostatic Unit with Float	DUPLEX < 6T-series, DUPLEX > 6T-series
	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	RAFTI 2.5-series
HATECKE (ERNST HATECKE)	Rescue boat offload lift over center	SIMPLEX OFFLOAD-series
	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 MK 1-series, TALON MK 2-series
	Lifeboat on load lift not over centre, flat to flat rotating cams	TALON MK 1-series
	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	TALON MK 2-series
IHI MARINE UNITED INC	Devices For Activating Release: Central Release Unit	JX-1-series



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### List of makes and types of equipment

JIANGSU JIAOYAN MARINE EQUIPMENT CO. LTD	Fast rescue boat offload	JXN-series, JXN-3-series
	Lifeboat on load lift not over center	JX-series, JXN-series
	Freefall Hydraulic / mechanical	JX-2-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	JX-1-series, JX-1B-series, JXN-1B-series, JXN-1C-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Devices For Activating Release: Central Release Unit	NPT-50-series, NPT-HAN-series, NPT-HKC-series, PN-HCK-series, PN-HKC-series
	Freefall Hydraulic / mechanical	NPT 70HKF-series
	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	NPT-HK25F-series
	Rescue boat offload w. Onload capability	NPT-HK25R-series
JIANGYINSHI BEIHAI	Devices For Activating Release: Central Release Unit	JYB-HK-series
	Freefall Hydraulic / mechanical	JYB-HKF-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Devices For Activating Release: Central Release Unit	HK-series, JX-1-series
	Freefall Hydraulic / mechanical	FHK-series
MANSEI	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	RH-series, RH3-series
NED DECK MARINE	Davit launched life raft automatic, Rescue boat automatic	CAR-series
NISHI-F CO., LTD., (EX ISHIHARA DOCKYARD, NISHI-NIPPON)	Devices for activating release: Free Fall Hydraulic Primary and Secondary	F-series, ML-series
	Lifeboat on load lift not over centre, Curve to flat rotating cams	NS-series, SR-3-series
	Lifeboat on load lift not over centre, up and down pins / collars	IHM 12-series, IHM 13-series
NOREQ (PALFINGER)	Fast Rescue Boat Offload with On-Load Capability	JXN-3-series
NORSAFE	Lifeboat on load lift not over center	TOR-series, TOR MK-series
	Freefall hydraulic	GES-series
	Rescue boat offload	KD-series
PALFINGER	Davit launched life raft automatic	CAR-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Lifeboat on load lift not over center	BG-series
	Freefall Hydraulic / mechanical	BG-F-series
	Rescue boat offload w. Onload capability	BG-2R-series





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### List of makes and types of equipment

SCHAT HARDING	Rescue boat offload w. onload capability	RRH-series
	Rescue boat automatic	RRH 15-series
SHIGI SHIPBUILDING CO. LTD	Lifeboat on load lift not over center	SZK-series
SURVITEC	Davit launched life raft automatic	SLA-series
SURVIVAL CRAFT INSPECTORATE LTD	Lifeboat on load lift not over center	SAFELUNCH-series
TSUNEISHI	Devices For Activating Release: Central Release Unit	43GS-1-series
VIKING (NORSAFE)	Devices For Activating Release: Central Release Unit	NADIRO D.I.B-series, TOR MK 1-series, TOR MK 2-series
	Devices For Activating Release: Electronic Sensor	NADIRO D.I.B-series
	Devices for activating release: Free Fall Hydraulic Primary and Secondary	GES-series, HRS-series, NFFHseries
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	TOR MK 1-series, TOR MK 2-series
	Fast Rescue boat offload	K4-series
	Freefall Hydraulic / mechanical	HRS-series, NFFH-series
VIKING NADIRO	Lifeboat on load lift not over center	DIB-series
WUXI MINGZI MACHINERY MANUFACTURING CO., LTD	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	15KN-series, 25KN-series, 31-37KN-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Lifeboat on load lift not over centre, Curve to flat rotating cams	HK-series

## WINCHES

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/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, BMWseries, BRW-series
	Single Drum, hydraulic-lowering/hydraulic hoisting	HDF-series, PWD-series
	Twin Drum, gravit lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	BA-series, BM-series, ELEC. MOTOR DRIVEN-series, PWDseries
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, SRR-series
	Twin Drum, gravity-lowering/electrically hoisting w / static brake con /disc/ pads / band / decent brake centrifugal w pads	24EPB-series



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### List of makes and types of equipment

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, 07KNseries
	Single Drum, hydraulic lowering/hydraulic hoisting	06KN-series
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	12-series, 40-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.	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	LW-series
FASSMER	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	DEW-series
	Single Drum, hydraulic lowering/hydraulic hoisting	FFWH-series
	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake hydraulic pump	FDW-series
FASSMER MARLAND	Single Drum, hydraulic-lowering/hydraulic hoisting	FFWH-series
GLOBAL DAVIT	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	01KN-series, 02KN-series, 03KNseries,04KN-series, 08KN-series
	Single Drum, hydraulic-lowering/hydraulic hoisting	W05HC-series, W08HC-series, WS-series
	Twin Drum, gravity lowering/electrically hoisting w / static brake cone /disk /pads / band / decent brake centrifugal w pads	10KN-series, 14KN-series, 20KNseries, 26KN-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
	Single Drum, hydraulic-lowering/hydraulic hoisting	GD-HC-A-series
HARDING (UMO SCHAT HARDING)	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	16 EBR-series
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	HD-series, MW-series
	Twin Drum, gravity lowering/electrically hoisting w/holding static brakes, multiple disks, hydraulically operated / decent brake hydraulic pump	CW-series, W-series



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### List of makes and types of equipment

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, FME-series
	Single Drum, hydraulic-lowering/hydraulic hoisting	EW-02-PL-series
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	BE-series
HARDING (WATERCRAFT)	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	MW-series, NW-series
HATECKE (ERNST HATECKE)	Single Drum, hydraulic-lowering/hydraulic hoisting	FFA-series
IHI MARINE UNITED INC	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brak centrifugal w pads	MUW-series
IKNOW MACHINARY	Twin Drum, gravity lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	EB-series
JAPAN MARINE UNTIED 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 (JIANGYIN XINJIANG F.R.P. CO. LTD)	Single Drum, hydraulic-lowering/hydraulic hoisting	FW-series
	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
	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	JYRZ-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brak centrifugal pads	NPT-DW-series
	Single Drum, hydraulic-lowering/hydraulic hoisting	NPT-DF-series
	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
JIANGYINSHI BEIHAI	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	YZ-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, DZ-series, JYBW-series



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### List of makes and types of equipment

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, RMWseries, SW-series
	Single Drum, hydraulic-lowering/hydraulic hoisting	06KN-series, FW-series
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	AW-series, CMW-series, EWseries, MW-series
	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
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
	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam /decent brake centrifugal pads	HWCT-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
	Single Drum, hydraulic-lowering/hydraulic hoisting	WL-series
	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
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
	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
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
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal w pads	EB-series
VIKING (NORSAFE) (JIANGYIN)	Single Drum, hydraulic-lowering/hydraulic hoisting	HYD-FF-series
WUXI DONGWU	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with	DS/Z-series, DZ-series



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### List of makes and types of equipment

	mechanically operated multiple disks friction pads / decent brake centrifugal w pads	
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
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Single Drum, hydraulic-lowering/hydraulic hoisting	SAW30-series
	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
	Single Drum, hydraulic-lowering/hydraulic hoisting	WME-LRH35-series