

## CERTIFICATE OF APPROVAL OF SERVICE SUPPLIER

CERTIFICATE NO. SSU005723XT

*This is to certify that*

### **DELTA GEMI DONATIM LTD.STI**

AYDINLI MH. AYDINLI YOLU CAD. BEYOGLU SANAYI SITESI, E-1 BLK, No: 20,  
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:*

- N - Maintenance, thorough examination, operational testing,  
overhaul and repair of lifeboats and rescue boats, launching  
appliances and release gear**
- Z - Calibration of portable electronic gauging equipment (UTI)**
- Z - Foam concentrate analysis and service**
- Z - Servicing of immersion suits**
- Z - Surveys, servicing and testing of lifting appliances**
- D - Inspection and maintenance of fire extinguishing equipment  
and systems**
- H - Inspection and maintenance of self-contained breathing  
apparatus**
- Z - Calibration and maintenance of fixed and portable gas  
detection equipment**
- Z - Inspection of accommodation ladders and gangway**

Date of the audit: 03 Feb 2023  
Issued in ISTANBUL  
on 02 Mar 2023

*This Certificate is valid from the date of the audit until*  
**02 Feb 2026**

*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.



RINA Services S.p.A.  
Via Corsica, 12 - 16128 Genova  
Tel. +39 010 53851  
Fax +39 010 5351000

## ATTACHMENT TO CERTIFICATE NO. SSU005723XT

### 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



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

Devrim KACAR  
RINA Services S.p.A.



## Annex N

### List of makes and types of equipment

**Attached to Certificate No. SSU005723XT**

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
ABAS	Single arm Slewing	KDE-series, MDE-series
ACEBI	Freefall secondary hydraulic A Frame	TPF-series
	Gravity single and twin fall outrigger	A-series, AF-series, PF-series
	Single arm Slewing	PFR-series, RRP-series, TPU-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	TPF-series, TPU-series
	Twin Fall Gravity Pivoting / Luffing	SPG-series
	Twin Fall Gravity Rollertrack	GRA-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	TPC-series
ACQIN	Single arm Slewing	R18700-series
ACTA	Freefall secondary hydraulic A Frame	HSC-series
	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
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	ARPV-series
	Twin Fall Gravity Pivoting / Luffing	AHA-series
BADA HEAVY IND. CO., LTD (EX. DAERYUCK MACHINERY)	Freefall secondary hydraulic A Frame	BDF-series, H DFL-series
	Gravity freefall primary	BDF-series
	Single arm Slewing	BDR-series, BLR-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	BDA-series, BDFA-series, BFRD-series



## Annex N

### List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/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
	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
BADA HEAVY INDUSTRIES CO., LTD.	Single arm Slewing	BHI-RLD-series
	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
DAELIM TECHNOLOGY CO. LTD. (HYUNDAI)	Freefall secondary hydraulic A Frame	FF-740-series
DAVIT COMPANY	Gravity single and twin fall outrigger	FFFDA-series
	Single arm Slewing	SRR-series
DAVIT INTERNATIONAL	Freefall 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.Tseries, D-SR04-series, D. BC.Rseries, D.CRE. R-series
	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
	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	D-NP-series, D-NP.MP-series
	Twin Fall Gravity Rollertrack	D-RT-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	D-NP-series, D-SP-series



# Annex N

## List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
DENIZSAN	Freefall secondary hydraulic A Frame	DSFDD-series
	Single arm Slewing	DRBD-series, DRBLRD-series, DSRBD-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	DSFRB-series
DONG NAM 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
	Twin Fall Gravity Pivoting / Luffing	DHGD-series
DONGWOO MACHINERY & ENGINEERING CO., LTD.	Single arm Slewing	DBD-series
	Twin Fall Gravity Pivoting / Luffing	DWS-series
DSB ENGINEERING CO LTD	Freefall secondary hydraulic A Frame	DSBDF-series
	Single arm Slewing	DSB23DR-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	DSBARH-series, DSBDP-series, DSBDL-series
	Twin Fall Gravity Pivoting / Luffing	DSBDL-series, DSBDTL-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	DSBDYL-series
EO LIFESAVING	Single arm Slewing	CH-52-series
FASSMER	Freefall secondary hydraulic A Frame	FFH-series
	Gravity freefall primary	FLR-series
	Single arm Slewing	FSARR-series
	Twin Fall Gravity Pivoting / Luffing	FPD-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	FMPD-series
FASSMER MARLAND	Freefall secondary hydraulic A Frame	FFH-series
FERRI	Single arm Slewing	1872 TN-series
GILBERT & SCHMALRIEDE. GMBH & CO. KG	Single arm Slewing	PJ1385-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	PJ-1386-series



# Annex N

## List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/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. S-series, FHS.S-series, LMES.S-series, LML-series, LMS-series, LMS.Sseries, R RMS-series, RHL-series, RHP-series, RHS-series, RHS.Lseries, RHS. L.S-series, RHS.S-series, RMES.L.S-series, RMES.Sseries, RML-series, RMS. L-series, RMS. L. S-series, RMS. S-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	RHP-series, RHP. HC-series
	Twin Fall Gravity Pivoting / Luffing	GLP. FP-series, GLP. MP-series, GSP. FP-series, GSP.MP-series
	Twin Fall Gravity Rollertrack	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
GREBEN	Freefall secondary hydraulic A Frame	HFF-series
GREBEN	Gravity single and twin fall outrigger	FOD-series
GREBEN	Single arm Slewing	SAR-series
GREBEN	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	RLC-series
GREBEN	Twin Fall Gravity Pivoting / Luffing	SPG-series
GREBEN	Twin Fall Gravity Rollertrack	GR-RTD-series
GREBEN	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	GD-PD-series, HD-series
GURDESAN	Freefall 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)	Freefall secondary hydraulic A Frame	FF-series
	Gravity freefall primary	FFB-series, LA-series
	Gravity single and twin fall outrigger	HD-FL-series, ORD-series





# Annex N

## List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
HARDING (UMO SCHAT HARDING)	Single arm Slewing	LAR-series, SAR-series, SPR-series, SRR-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	SA-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	SPG (L)-series
	Twin Fall Gravity Rollertrack	NT-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NPDS-series
	Freefall secondary hydraulic A Frame	LA-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	NTD-series
	Twin Fall Gravity Rollertrack	ND-series
HARDING (WATERCRAFT)	Twin Fall Gravity Rollertrack	WRG-series
HATECKE (ERNST HATECKE)	Freefall 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 (TSUI)	Twin Fall Gravity Pivoting / Luffing	HD-series
IMT CO., LTD	Single arm Slewing	ILR-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Freefall secondary hydraulic A Frame	JYF-series
	Gravity single and twin fall outrigger	JYP-series
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Single arm Slewing	JYRCA-series



## Annex N

### List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	JYR-series
	Twin Fall Gravity Pivoting / Luffing	JYL-series
	Twin Fall Gravity Rollertrack	JYGR-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	JYHG-series
JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Freefall 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
	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
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Freefall 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- LRH E-series, JY-PLR-series
	Twin Fall Gravity Pivoting / Luffing	JYPL-series
	Twin Fall Gravity Rollertrack	JYHE-series
JIANGYINSHI BEIHAI	Freefall secondary hydraulic A Frame	FA-series
	Gravity single and twin fall outrigger	PD-series
	Single arm Slewing	SA-series, SAC-series, SMR-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	EHRD-series, FRH-series, SRH-series
	Twin Fall Gravity Pivoting / Luffing	BH-G-series, LA-series, LB-H-series
	Twin Fall Gravity Rollertrack	HB-H-series, RB-H-series





# Annex N

## List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/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	Freefall secondary hydraulic A Frame	LAF-MUF68-series
MACGREGOR (TTS) (HYDRAMARINE)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	G-TYPE-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	A-TYPE-series, HLD-series, HMCseries, HMD-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	T-TYPE-series
MANSEI	Freefall secondary hydraulic A Frame	D-FH-series, FE-series, MFH-series
	Single arm Slewing	R-series, RD-series, SAR-series, SR-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	HER-series
	Twin Fall Gravity Pivoting / Luffing	ABD-series, AH-series, AV-series, CM-series, EH-series, EM-series, M-series
	Twin Fall Gravity Rollertrack	AT-series, GRA-series
MIURA MACHINE CO.,LTD (MIURA VIDER) (MANSEI)	Twin Fall Gravity Pivoting / Luffing	MVD-series, SPG(VD)-series
NANJING DONGSHENG MARINE EQUIPMENT CO., LTD	Single arm Slewing	AR14-series
NAVIGATIONS	Single arm Slewing	1,1-series
NAVIM GROUP	Gravity single and twin fall outrigger	FDRB-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	SPDT- L-series, SPDT-R-series, SPDT-T-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	SGHD- L-series, SPHD- T-series
NED- DECK MARINE (PALFINGER)	Gravity single and twin fall. outrigger	FPG-series
	Single arm Slewing	SCH-series, SCM-series, SCTseries, SEC-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	PFH-series, PRH-series, PRHEseries
	Twin Fall Gravity Pivoting / Luffing	PL-series



# Annex N

## List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Freefall secondary hydraulic A Frame	YZF-series
	Single arm Slewing	YZ-series, ZFDZ-series
	Twin Fall Gravity Pivoting / Luffing	L-series
	Gravity single and twin fall outrigger	NMPL-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NM-series, NMAR-series
NMF	Single arm Slewing	BPK-series, KD. 2-series
NORDAVIT	Gravity single and twin fall outrigger	PL-series
	Twin Fall Gravity Pivoting / Luffing	SDP-series
NOREQ (PALFTNGER)	Gravity single and twin fall outrigger	NRD-series
	Single arm Slewing	SCH-series, SCH-R-series, SCHDseries, SCM-L-series, SCM -R- series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NPD-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	NPD-series
NORSAFE	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NDA-series
ORIENTAL PRECISION	Freefall secondary hydraulic A Frame	FD-series
	Single arm Slewing	RD-series, SHS-series
	Twin Fall Gravity Pivoting / Luffing	DHA-series, DMA-series, HGDseries, HGK-series
	Twin Fall Gravity Rollertrack	RTD-series
ORIENTAL PRECISION - SEKIGAHARA	Twin Fall Gravity Pivoting / Luffing	SHS-series
PALFINGER	Freefall 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
	Twin Fall Gravity Pivoting / Luffing	N PT-series, VI P-series
	Twin Fall Gravity Rollertrack	NPT-series



## Annex N

### List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
PALFINGER	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	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.	Freefall 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
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	BD-AR-series
	Twin Fall Gravity Pivoting / Luffing	BD-PV-series
REDROCK	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	RDA-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	RDT-series
SCHAT HARDING	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	FR. P.SP-series
SEC (SHIPS EQUIPMENT CENTRE)	Freefall secondary hydraulic A Frame	HP2-series
	Single arm Slewing	MS-series
SEKIGAHARA	Freefall secondary hydraulic A Frame	SF-series
	Single arm Slewing	SSS-series
	Twin Fall Gravity Pivoting / Luffing	SFA-series, SFB-series, SFPseries, SHS-series
	Twin Fall Gravity Rollertrack	AT-series, STS-series
SEKWANG MARINE MACHINERIES	Single arm Slewing	RBD-series
SERVO SHIP S.L	Freefall secondary hydraulic A Frame	FFR-20-series
	Single arm Slewing	PR4MJ 100HR-series
SEZAMOR	Single arm Slewing	ZZ -ZOL-series, ZZ-ZOT-series
SHANGHAI HENGYUAN MARINE EQUIPMENT CORPORATION	Freefall secondary hydraulic A Frame	FH-series
	Single arm Slewing	SAF-series



# Annex N

## List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
SHIN MYUNG TECH	Single arm Slewing	SMRBD&LRD-FT-series, SMRBD-SDseries, SMRBD&LRD-series, SMRBD&PV-series
STOCZNIA USTKA SP. Z O.O.	Freefall 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 HATHAO MARINE EQUIPMENT CO.,LTD	Freefall secondary hydraulic A Frame	55KN-series
	Single arm Slewing	21 KN BOAT/RAFT DAVIT-series
TECHNIMPIANTI S.P.A	Twin Fall Gravity Rollertrack	FRB-series
TSUJI HEAVY INDUSTRIES	Single arm Slewing	RP-series
	Twin Fall Gravity Pivoting / Luffing	H-series
	Twin Fall Gravity Rollertrack	T83-series, TC-series
TTS (HYDRALTFT)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	HL-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	HL9D-series
ULSTETN FAMA (FAMA GNTEW)	Single arm Slewing	ZO-series, ZT-series
VANGUARDE	Gravity single and twin fall outrigger	PL-series
	Single arm Slewing	HS-series, MS-series, VS-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	DH-series, PR-series, PRH-series
	Twin Fall Gravity Pivoting / Luffing	LE-series, VL-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering	PFH-series, SRH-series
VERHOEF	Freefall secondary hydraulic A Frame	FL-series
VESTDAVIT	Single arm Slewing	L-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	P-series, PAP-series, PAPHseries, PL-series, PLAR-series, PLD-series, PLI-series, PLPseries, PLR-series
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic	TBD-series



# Annex N

## List of makes and types of equipment

DAVITS		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/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	CH-52-series, NRC-R-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	NDA-series, NRB-series
	Twin Fall Gravity Pivoting / Luffing	E-series
	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowcrin	LH-series
VIKING (NORSAFE) (JIANGYIN)	Single arm Slewing	NDSC-series, NDSC-R-series
	Freefall secondary hydraulic A Frame	HD-series
WELIN LAMBIE	Single arm Slewing	LRW-series, SARBE-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	PIV.1 .0A-series
WUXI DONGWU	Freefall secondary hydraulic A Frame	F55- F70-series, NPT1 00F-series
	Single arm Slewing	21 - 35KN-series, DCW210-series
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic	A30/H35-series
	Twin Fall Gravity Pivoting / Luffing	18KN-110KN-series
	Twin Fall Gravity Rollertrack	25KN -30KN-series
WUXI HAIHONG BOATMAKING 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 JIANG NAN MARINE EQUIPMENT CO., LTD	Single arm Slewing	ZFQ-series
WUXI SHENGOU	Freefall secondary hydraulic A Frame	SMDF-series
	Single arm Slewing	SMC-series, SMD-series

### List of makes and types of equipment

Page 12 of 36





## Annex N

### List of makes and types of equipment

### SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
ACEBI	Partially enclosed lifeboat, twin fall	PELB-series
	Totally enclosed lifeboat, twin fall, tanker version	PELB-series, TELB-series
AMBAR MARINE	Rescue Boat, single fall	AM420-series
AVON	Rescue Boat, single fall	RB-series, 5R-series
BALDEN	Totally enclosed lifeboat, Freefall	BD-FFC -series, BD- FFT-series
	Totally enclosed lifeboat, twin fall, dry version	BD-LB-series
	Totally enclosed lifeboat, twin fall, tanker version	BD-LB-series
BEIYANG BOATBUILDING CO.LTD	Totally enclosed lifeboat, twin fall, dry version	20 TECB-series
BIANCHI & CHECCHI	Totally 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
DAFER (NARWHAL)	Fast Rescue Boat, single fall	FRB-series
	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
	Rescue Boat, Single fall	DSBRB-series, DSBRA-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
ESVAGT	Rescue Boat, single fall	ALU 460 F-series
FASSMER	Fast Rescue Boat, single fall	FRR-series
	Partially enclosed lifeboat, twin fall	CL-P-series, PII-series, PLTseries, SEL-series



# Annex N

## List of makes and types of equipment

SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
FASSMER	Rescue Boat, single fall	FRIR-series, RR-series
	Totally enclosed lifeboat, Freefall	CFL-series, GAR-series, GAR-T- series
	Totally enclosed lifeboat, twin fall, dry version	CL-series, CIR-series, CLXseries, GMR-series
	Totally enclosed lifeboat, twin fall, tanker version	CL-series, CLR-series, CLX- series, 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
GEPA	Fast Rescue Boat, single fall	G-FRB-series
	Partially enclosed lifeboat, twin fall	G-FYK-series
	Rescue Boat, single fall	G-RB-series
	Totally enclosed lifeboat, Freefall	G-FFF-series
	Totally enclosed lifeboat, twin fall, dry version	G-FK-series
	Totally enclosed lifeboat, twin fall, tanker version	GFK-FP-series
GREBEN	Partially enclosed lifeboat, twin fall	PEL-series
	Rescue Boat, single fall	RB-series
	Totally enclosed lifeboat, Freefall	FFL-series
	Totally enclosed lifeboat, twin fall, dry version	TEL-series
	Totally enclosed lifeboat, twin fall, tanker version	TEL-FP-series
HARDING (UMO SCHAT HARDING)	Partially enclosed lifeboat, twin fall	CTL-series, ML-series, MPC- series
	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



# Annex N

## List of makes and types of equipment

SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
HARDING (UMO SCHAT HARDING) (PALFINGER)	Totally enclosed lifeboat, Freefall	HARDING-LBF-series
	Totally enclosed lifeboat, twin fall, dry version	LBT-C-series
	Totally enclosed lifeboat, twin fall, tanker version	LBT-T-series
HARDING (WATERCRAFT)	Partially enclosed lifeboat, twin fall	MOB-series, MOBAC-series, PELBseries, PERB-series
	Totally enclosed lifeboat, Freefall	WFF-series
	Totally enclosed lifeboat, twin fall, tanker version	MK 1-series, MK 2-series, MK 3series, 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 (HUNDAI 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
HOI SENPAKU CO LTD	Totally enclosed lifeboat, twin fall, dry version	HS-series
	Totally enclosed lifeboat, twin fall, tanker version	H5650F-series, HSF-series
HYUNDAI LIFEBOATS CO.LTD	Totally enclosed lifeboat, Freefall	HDFL740F-series
IHI MARINE UNITED INC	Open lifeboat, twin fall	G-series
	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



# Annex N

## List of makes and types of equipment

SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Rescue Boat, single fall	GJ-series, GJF-series, GZ-series
	Totally enclosed lifeboat, Freefall	JY-FF-series, JY-FN-series, JYM-FF-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.	Fast Rescue Boat, single fall	NPT-RA-series
	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.	Open lifeboat, twin fall	JYK-series
	Partially enclosed lifeboat, twin fall	JYP-series
	Rescue Boat, single fall	JYDR-series, JYKR-series
	Totally enclosed lifeboat, Freefall	JYC F-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	Fast Rescue Boat, single fall	JYB-G-series, JYB-Q-series
	Open lifeboat, twin fall	JYB-K-series
	Partially enclosed lifeboat, twin fall	JYB-B-series
	Rescue Boat, single fall	JY-BR-series, JYB-KR-series, SCK-series, 5C-KR-series
	Totally enclosed lifeboat, Freefall	JYB-FC-series, JYB-FF-series
	Totally enclosed lifeboat, twin fall, dry version	JYB-C-series
	Totally enclosed lifeboat, twin fall, tanker version	JYB-F-series



## Annex N

### List of makes and types of equipment

SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
KANG NAM. CORPORATION	Totally enclosed lifeboat, twin fall, dry version	GTB-series
MARE SAFETY AS	Fast Rescue Boat, single fall	GTC 700-series
	Rescue Boat, single fall	RB-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, WEEDO 17 SOLAS-series, WEEDO 600-series, WEEDO 700-series
MARITIME PARTNERS (HUKKELBERG BOATS)	Fast Rescue Boat, single fall	SPRINGER-series
MULDER EN RIJKE	Partially enclosed lifeboat, twin fall	PELB-series, PTL-series
	Totally enclosed lifeboat, single fall	TELB-S-series
	Totally enclosed lifeboat, twin fall, tanker version	TELB-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
	Totally enclosed lifeboat, twin fall, tanker version	NPT-series, PN85F-series
NINGBO ASIA F.R.P BOAT MANUFACTURING CO LTD.	Fast Rescue Boat, single fall	YZRA-series, YZ RB-series
	Open lifeboat, twin fall	BJ-series
	Rescue Boat, single fall	BJ-series, YZ-series
	Totally enclosed lifeboat, Freefall	YZFC-series, YZFF-series
	Totally enclosed lifeboat, twin fall, dry version	YZC-series
	Totally enclosed lifeboat, twin fall, tanker version	YZF-series
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Rescue Boat, single fall	NM45R-series
	Totally enclosed lifeboat, Freefall	NM58FF-series
	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
	Open lifeboat, twin fall	NF-series, NFA-series





## Annex N

### List of makes and types of equipment

SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
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
OY FISKARS AB	Totally enclosed lifeboat, twin fall, dry version	TELB-series
	Totally enclosed lifeboat, twin fall, tanker version	TELB-series
PALFINGER	Fast Rescue Boat, single fall	FRSQ-series
	Partially enclosed lifeboat, twin fall	CTL-series, MPC-series, NPT-T-series
	Rescue Boat, single fall	RSQ-series
	Totally enclosed lifeboat, Freefall	FF-series, NPT-FC-series, NPTFF-series
	Totally enclosed lifeboat, twin fall, dry version	KISS-C-series, NPT-F-series
	Totally enclosed lifeboat, twin fall, tanker version	KISS-T-series, NPT-C-series
PESBO S.A	Totally enclosed lifeboat, Freefall	B5L-series
	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
	Partially enclosed lifeboat, twin fall	BH 10-series
	Rescue Boat, single fall	BH-R-series
	Totally enclosed lifeboat, Freefall	BH-F-series
	Totally enclosed lifeboat, twin fall, dry version	BH-series
	Totally enclosed lifeboat, twin fall, tanker version	BH-series
SHIGI SHIPBUILDING CO. LTD.	Fast Rescue Boat, single fall	FRP-series





## Annex N

### List of makes and types of equipment

SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
SHIGI SHIPBUILDING CO. LTD.	Open lifeboat, twin fall	SZGM-series, SZGO-series
	Partially enclosed lifeboat, twin fall	SZP-series, SZPR-series
	Rescue Boat, single fall	SZRS-series, VOX46-series
	Totally enclosed lifeboat, Freefall	FEL-series
	Totally enclosed lifeboat, twin fall, dry version	SZBR-series
	Totally enclosed lifeboat, twin fall, tanker version	SZTR-series
STOCZNIA USTKA SP. Z O.O.	Fast Rescue Boat, single fall	FRB-series
	Rescue Boat, single fall	R-series, RIB-series
	Totally enclosed lifeboat, Freefall	FFB-series
	Totally enclosed lifeboat, twin fall, dry version	Z-series
SURVITEC	Fast Rescue Boat, single fall	SC60RA-series
	Totally enclosed lifeboat, Freefall	FF-series
	Totally enclosed lifeboat, twin fall, dry version	5C-series
	Totally enclosed lifeboat, twin fall, tanker version	SC-series
SURVIVAL SYSTEMS INT	Fast Rescue Boat, single fall	FRB-series
	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
	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
VALIANT	Rescue Boat, single fall	RB-450-series
VANGUARDE	Fast Rescue Boat, single fall	VG-FRK-series, VG-FRW-series
	Rescue Boat, single fall	VG-DR5-series, VG-KR-series
	Totally enclosed lifeboat, twin fall, dry version	VG-C-series



## Annex N

### List of makes and types of equipment

SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
VANGUARDE	Totally enclosed lifeboat, twin fall, tanker version	VG-F-series, VG-HLB-series
VIKING (NORSAFE)	Fast Rescue Boat, single fall	MAGN UM-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-F-series
	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
	Totally enclosed lifeboat, twin fall, tanker version	JYN-T-series, MAGGIE-T-series, MATILDA-T-series, MAUD-T-series, MAXIMA-T-series, MIRAM - T-series
VIKING (NORSAFE)(JIANGYIN)	Rescue Boat, single fall	MATRIX-series
	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
	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
		351-series, 366-series, 366HRL-series, 368-series, 371-series, 371 HR-series, 377-series, 379-series
	Totally enclosed lifeboat, twin fall, tanker version	
WHITTAKER	Totally enclosed lifeboat, single fall	CA-series
WUX HAIHONG BOATMAKING CO., LTD	Open lifeboat, twin fall	BH-series, BJ-series
	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-C5-series
	Totally enclosed lifeboat, twin fall, tanker version	HH-T-series, HH-TS-series
WUXIWENJIAO	Fast Rescue Boat, single fall	WJ-RA-series, WJ-RB-series
	Open lifeboat, twin fall	BH-series, BJ-series, WJ-series
	Rescue Boat, single fall	WJ-series
	Totally enclosed lifeboat, Freefall	WJFF-series, WJFFC-series, WUXI WENJIAO / WJFFC-series

## Annex N

## SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)



## Annex N

### List of makes and types of equipment

#### 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: Freefall 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	BHR255-series
BALDEN	Lifeboat on load lift not over centre, flat to flat rotating cams	BD-LBH-series
	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	BDHR-series
BCSERVICE	Devices For Activating Release: Central Release Unit	U HOOK-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	U HOOK-series
	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	U HOOK-series
	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-18-series
DAVIT INTERNATIONAL	Rescue boat offload lift over center	OLH-series
	Rescue boat offload w. Onload capability	RH-series
FASSMER	Devices For Activating Release: Central Release Unit	DUPLEX < 6.6T-series, DUPLEX > 6T-series
	Devices for activating release: Freefall 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
	Lifeboat on load lift not over centre, Curve to flat rotating cams	DUPLEX>6T-series



# Annex N

## List of makes and types of equipment

RELEASE GEAR		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/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	1448 TN-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
	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
GREBEN	Devices For Activating Release: Central Release Unit	NLH-series
	Devices For Activating Release: Electronic Sensor	NLH-series
	Lifeboat on load lift not over centre, up and down pins / collars	NLH-series
HARDING (UMO SCHAT HARDING)	Devices for activating release: Freefall Hydraulic Primary and Secondary	FFH-series
	Freefall Hydraulic / mechanical	FFH-series
	Rescue boat offload w. Onload capability	RRH-series
HARDTNG (UMO SCHAT HARDTNG) (FAST RSQ)	Fast rescue boat offload / Manual or automatic	CAR-35F-series
HARDTNG (UMO SCHAT HARDTNG) (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 23-series
	Devices For Activating Release: Central Release Unit	LHR-series, LHR M2-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	LHR-series, LHR M2-series
	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 2.01 OFF LOAD-series
HATECKE (ERNST HATECKE)	Devices For Activating Release: Central Release Unit	DUPLEX < 6T-series, DUPLEX, 6T-series
	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



## Annex N

### List of makes and types of equipment

RELEASE GEAR		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
HATECKE (ERNST HATECKE)	Fast Rescue Boat Offload with On-Load Capability	SIMPLEX '1,85-series
	Freefall Hydraulic / mechanical	GFF-series
	Lifeboat on load lift not over centre, Curve to flat rotating cams	DUPLEX>6T-series
	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	DUPLEX<6.6 T-series
	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	RAFTI 2.5-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
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	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
HOEI SENPAKU CO.,LTD	Devices For Activating Release: Central Release Unit	HS-series, HS 520 96-series, HS650 96-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	HS-series, HS 520 96-series, HS650 96-series
	Lifeboat on load lift not over centre, Curve to flat rotating cams	HS520 96-series, HS650 96-series
	Lifeboat on load lift not over centre, flat to flat rotating cams	HS-series
	Lifeboat on load lift not over centre, up and down pins / collars	HS520 83-series, HS650 83-series
IHIMARINE UNITED INC	Devices For Activating Release: Central Release Unit	JX- 1-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	JX-1-series
	Lifeboat on load lift not over centre, up and down pins / collars	JX-1-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-1 B-series, JXN-1 B-series, JXN-1 C-series
	Devices for activating release: Freefall Hydraulic Primary and Secondary	JX-2-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	JX- 1-series, JX- 1 B-series, JXN-1 B-series, JXN-1 C-series
	Fast Rescue Boat Offload with On-Load Capability	JXN-3-series





## Annex N

### List of makes and types of equipment

RELEASE GEAR		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Freefall Hydraulic / mechanical	JX-2-series
	Lifeboat on load lift not over centre, up and down pins / collars	JX-1 -series, JX-1 B-series, JXNseries, JXN-1 B-series, JXN-1 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, NPT-HKC-series, PN-HKC-series, PN-HKC-series
	Devices For Activating Release: Hydrostatic Unit with Float	NPT-50-series, NPT-HAN-series, NPT-HKC-series, PN-HKC-series
	Fast Rescue boat offload	NPT-HK-series
	Freefall Hydraulic / mechanical	NPT 70HKF-series
	Lifeboat on load lift not over centre, Curve to flat rotating cams	NPT-HK-series, NPT 50-series
	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cams	NPT-HKC-series, PN-HKC-series
	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	NPT-H K25 F-series
	Rescue boat offload w. Onload capability	N PT-HK25 R-series
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Devices For Activating Release: Central Release Unit	HK-series, JX-1 -series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	JX-1 -series
	Fast Rescue Boat Offload with On-Load Capability	HK-series
	Freefall Hydraulic / mechanical	FHK-series
	Lifeboat on load lift not over centre, Curve to flat rotating cams	HK-series
	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
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	JYB-HK-series
	Fast Rescue Boat Offload with On-Load Capability	JYB-HK-series
	Freefall Hydraulic / mechanical	JYB-HKF-series
	Lifeboat on load lift not over centre, Curve to flat rotating cams	JYB-HK-series



# Annex N

## List of makes and types of equipment

RELEASE GEAR		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
MADROCK	Devices For Activating Release: Central Release Unit	ROCLOC-series
	Devices For Activating Release: Hydrostatic Unit with Float	ROCLOC-series
	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 MARTNE (PALFINGER)	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	CAR 35-series
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Devices For Activating Release: Central Release Unit	HK-series
	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-NTPPON)	Devices For Activating Release: Central Release Unit	IHM 12-series, IHM 13-series, NS-series
	Devices for activating release: Freefall Hydraulic Primary and Secondary	F-series, ML-series
	Devices For Activating Release: Hydrostatic Unit with Float	IHM 12-series, IHM 13-series, NS-series
	Freefall Hydraulic / mechanical	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
OPTIMUN MARINE	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	31 -37KN-series
PALFINGER	Devices For Activating Release: Central Release Unit	NADIRO D. I. B. SERIES-series
	Devices for activating release: Freefall Hydraulic Primary and Secondary	FFH-series, NPT-series
	Fast rescue boat offload / Manual or automatic	CAR-35F-series
	Freefall Hydraulic / mechanical	FFH-series
	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	CAR 35-series
	Rescue boat offload w. Onload capability	RRH-series
PESBO S.A	Freefall Hydraulic / mechanical	BSL-series



# Annex N

## List of makes and types of equipment

RELEASE GEAR		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
PEWAG	Rescue boat offload lift over center	HK-series, HSK-series, HSWI-series
QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Devices For Activating Release: Central Release Unit	BG-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	BG-series
	Freefall Hydraulic / mechanical	BG-F-series
	Lifeboat on load lift not over centre, flat to flat rotating cams	BG-series
	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
	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
	Devices For Activating Release: Hydrostatic Unit with Float	SRS-series, SZK-30-series, SZK-5-series
	Lifeboat on load lift not over centre, Curve to flat rotating cams	SRS-series
	Lifeboat on load lift not over centre, up and down pins / collars	SZK-25M-series, SZK-30-series, SZK5-series
SURVITEC	Devices For Activating Release: Central Release Unit	SAFELAUNCH-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	SAFELAUNCH-series
	Lifeboat on load lift not over centre, forward or reverse curve to curve rotating cam	SAFELAU NCH-series
	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 5series, TRIPLE 5 LX-series
	Lifeboat on load lift over centre	SURESAFE-series, TRIPLE 5series, TRIPLE 5 LX-series
T-ISS	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	31 -37 KN-series
T-ISS BV	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	PX02-series, PX01 -series
	Rescue boat offload w. Onload capability	PX03 -series



## Annex N

### List of makes and types of equipment

RELEASE GEAR		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
TSUNEISHI	Devices For Activating Release: Central Release Unit	43GS-1-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	43GS-1-series
	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
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	C-SAFE-series, SH-series
	Lifeboat on load lift not over centre, Curve to flat rotating cams	C-SAFE-series, SH-series
VERHOEF	Devices for activating release: Freefall Hydraulic Primary and Secondary	TWISTLOCK-series
	Freefall Hydraulic / mechanical	TWISTLOCK-series
VIKING	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	RCH 36-series
VIKING NORSAFE	Fast Rescue boat offload	VIKING 1.6-series
VIKING (NADTRO)	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
	Devices For Activating Release: Electronic Sensor	NADIRO D.I.B-series
	Devices for activating release: Freefall Hydraulic Primary and Secondary	GES-series, HRS-series, NFFH-series
	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
	Lifeboat on load lift not over centre, flat to flat rotating cams	TOR MK 1-series, TOR MK 2-series
WILLIAM MILLS	Devices For Activating Release: Central Release Unit	TITAN-series
	Devices For Activating Release: Hydrostatic Unit with Diaphragm	TITAN-series
	Lifeboat Offload release lift over centre	EMPRESS-series
	Lifeboat on load lift not over centre, flat to flat rotating cams	TITAN-series
WUXI MINGZI MACHINERY MANUFACTURING CO., LTD	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	15KN-series, 25KN-series, 31-37KN-series



## Annex N

### List of makes and types of equipment

RELEASE GEAR		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
WUXIWENJIAO	Fast Rescue Boat Offload with On-Load Capability	HK-series
WUXI XINGSHENG	Rescue boat / Davit Launched Liferaft / Lift over centre automatic	XS-series
	Rescue boat offload w. Onload capability	XS15-series
ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Fast Rescue Boat Offload with On-Load Capability	HK40-series
	Lifeboat on load lift not over centre, Curve to flat rotating cams	HK-series





## Annex N

## List of makes and types of equipment

## WINCHES

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
ACEBI	Single Drum Gravity lowering electric hoisting lifeboat / rescue boat / static brake pad, cone, disk, band / decent brake centrifugal pads	TBE-series
	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	TR-series
	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal pads	TBE-series
ACORN	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
BADAHEAVY 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, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal pads	BA-series, BM-series, ELEC. MOTOR DRIVEN-series, PWDseries
	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal pads	BDTW-series, BMW-series, BWseries, BWR-series
	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
CRAMM YACHTING SYSTEMS B.V	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads/ band / decent brake centrifugal pads	BWFI 500-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, SRR-series
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal 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 KNseries, 04KN-series, 07KN-series
	Single Drum, hydraulic-lowering/ hydraulic hoisting	06KN-series
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal pads	12-series, 40-series
DONG NAM ENTERPRISE.,CO LTD	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal 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





## Annex N

### List of makes and types of equipment

WINCHES		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/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
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone / disk / pads / band / decent brake centrifugal pads	LW-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
	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
	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	01 KN-series, 02KN-series, 03KNseries, 04KN-series, 08KN-series
	Single Drum, hydraulic-lowering/ hydraulic hoisting	W05HC-series, W0SHC-series, WS- series
	Twin Drum, gravity-lowering/electricalty hoisting w / static brake cone / disk / pads / band / decent brake centrifugal pads	10KN-series, 14KN-series, 20KNseries, 26KN-series
GREBEN	Single Drum, hydraulic-lowering/hydraulic hoisting	HW-series
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone / disk / pads / band / decent brake centrifugal 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
	Single Drum, hydraulic-lowering/ hydraulic hoisting	GD-HC-A-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
	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 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



## Annex N

### List of makes and types of equipment

WINCHES		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/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	16 EBR-series
	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
	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 pads	BE-series
HARDING (UMO SCHAT HARDING) (PALFINGER)	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes, multiple disks, hydraulically operated / decent brake hydraulic pump	W-series
HARDING (WATERCRAFT)	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone / disk / pads / band / decent brake centrifugal pads	MW-series, NW-series
HATECKE (ERNST HATECKE)	Single Drum, hydraulic-lowering/ hydraulic hoisting	07.02.08-series
HYDRALIFT	Single Drum, hydraulic-lowering/ hydraulic hoisting	SP-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 pads	MUW-series
IKNOW MACHINERY	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone / disk / pads / band / decent brake centrifugal 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
JAPAN MARINE UNITED CORP.	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal pads	MU-series
JIANGSU JOYAN 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	JYRZ-series
	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 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
	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 pads	NPT-DS-series, NPT-DW-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 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	YZ-series



## Annex N

### List of makes and types of equipment

WINCHES		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
JIANGYINSHI BEIHAI	Twin Drum, gravity-lowering/electrically hoisting w/holding static brakes with mechanically operated multiple disks friction pads / decent brake centrifugal pads	DS-series, DW-series, DZ-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 pads	PCRLC-series
MACGREGOR (TTS) (HYDRAMARTNE)	Single Drum, hydraulic-lowering/hydraulic hoisting	HMW-series
MANSEI	Single drum Gravity lowering electric hoisting Lifteraft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	ERW-series, MIW-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 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 pads	ABW-series, FBW-series
MIURA MACHINE CO.LTD (MIURA VIDER) (MANSEI)	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal pads	LBH-series, RBH-series
NANJING DONGSHENG MARINE EQUIPMENT CO.LTD	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal pads	DB14-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
	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal pads	15-series
NORDAVIT	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal pads	SP-series
NOREQ (PALFINGER)	Single Drum, hydraulic-lowering/ hydraulic hoisting	NW-series
ORIENTAL PRECISION	Single drum Gravity lowering electric hoisting Lifteraft / 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 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
PELLEGRINI MARINE EQUIPMENT	Single drum Gravity lowering electric hoisting liferaft / rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	RLC-series
	Twin Drum, gravity-lowering / electrically hoisting w / static brake cone /disk / pads / band / decent brake centrifugal pads	VAS 45 E-series



## Annex N

### List of makes and types of equipment

WINCHES		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/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 pads	BW-HI-series, BW-HR-series, BWLL- 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 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
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
	Twin .Drum, gravity-lowering/electrically hoisting w / static brake cone / disk / pids / band / decent brake centrifugal 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
VERHOEF	Single Drum, hydraulic-lowering/ hydraulic hoisting	FL 50-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) (JIANGYIN)	Single Drum, hydraulic-lowering/hydraulic hoisting	HYD-FF-series
	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
	Twin .Drum, gravity-lowering/electrically hoisting w / static brake cone / disk / pids / band / decent brake centrifugal	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 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 pads	HMW-series





## Annex N

### List of makes and types of equipment

WINCHES		
MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
YOUNGNAM MACHINERY CO. LTD	Twin Drum, gravity-lowering/electrically hoisting w / static brake cone / disk / pads / band / decent brake centrifugal pads	YNBW-series
ZHEJIANG HENGXIN SHIP EQUIPMENTS CO. LTD	Single drum Gravity lowering electric hoisting Lifteraft / Rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal pads	YZ-series
ZHENJIANG DH MARINE EQUIPMENT CO	Single drum Gravity lowering electric hoisting Lifteraft / Rescue boat / static brake pad, cone, disk, eccentric cam / decent brake centrifugal 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	SAF-series
	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 pads	D-series, DP-series
ZHENJIANG WEST MARTNE EQUIPMENT CO.	Single Drum, hydraulic-lowering/ hydraulic hoisting	WME-LRH35-series
ZOLLERN	Single Drum, hydraulic-lowering/ hydraulic hoisting	A2FM45-61 A-series, ZHP-series, ZR-series



## Annex N

### List of makes and types of equipment

#### DAVITS

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
VADYAR	DAVIT AND WINCHES	VB10
	SINGLE ARM DAVIT AND WINCHES	VB1

#### SURVIVAL CRAFTS (LIFEBOAT&RESCUE BOAT)

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
VADYAR	TOTALLY ENCLOSED FIRE PROTECTED LIFEBOAT	VB 9,2 MTR
	TOTALLY ENCLOSED LIFEBOAT	VB 8,5 MTR – VB 7,5 MTR
	FAST RESCUE BOAT	VB 4,7 MTR
	RESCUE BOAT /SERVICE BOAT	VB 4,5 MTR

#### RELEASE GEAR

MAKE	TYPE acc. to ISO/PAS 23678	MODEL/SERIES
VADYAR	LIFEBOAT ON-LOAD RELEASE GEAR	VB SWL 6
	RESCUE BOAT ON-LOAD RELEASE MECHANISM	VB SWL 1,3