



中國驗船中心
CR Classification Society

Certificate No. 940-24-007

Date 27 February 2024

APPROVAL CERTIFICATE FOR

*Firm Engaged in survey and maintenance of Lifeboats,
Launching Appliances and On-Load Release Gears*

This is to certify that

NOVAMARINE a DIVISION of NOVATECH (PTY) LTD

96 Marine Drive, Paarden Eiland, Cape Town, South Africa

has been approved in compliance with the "GUIDELINES FOR APPROVAL OF SERVICE SUPPLIERS" issued by CR Classification Society (hereinafter referred to as "the Society"). Surveyors of the Society may rely on the services provided by this Firm to make decisions affecting classification or statutory certification and services.

This Certificate is valid until **26 February 2027**

CHIEN-HUA HUANG

Chief Surveyor,
CR Classification Society

(See Appendix for further details regarding subsidiaries/agents/operators etc.)

This Certificate may be cancelled if:

1. The service was improperly carried out, or the results were improperly reported.
2. Deficiencies are found by the Surveyor in the approval service operating system of the service supplier, and appropriate corrective actions are not taken.
3. Alterations have been made to the company's quality system relevant to the service supplier certificates, without documented notification to the Society.
4. Renewal or Occasional Assessment is not carried out in time.
5. Wilful acts or omissions are ascertained.
6. Any deliberate misrepresentation has been made by the service supplier.

Please refer to the CR website for the latest status of this approval: www.crclass.org/aw0/aw0.htm



Appendix:

List of the recognitions granted by Lifeboats, Launching Appliances and On-Load Release Gears manufacturers			
Equipment	Name of the manufacturer having authorized the service station	Type	Remarks, endorsements for addition / alteration
Lifeboats	ACEBI	Twin Fall Partially Enclosed Lifeboats: PELB Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version): TELB Series.	
	AMBAR MARINE	Single Fall Rescue Boat: AM420 Series.	
	AVON	Single Fall Rescue Boat: RB Series, SR Series.	
	BALDEN	Free Fall Totally Enclosed Lifeboats: BD-FFC Series, BD-FFT Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): BD-LB Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version): BD-LB Series.	
	BEIYANG BOATBUILDING CO. LTD	Twin Fall Totally Enclosed Lifeboats (Dry Version): 20 TECB Series.	
	BIANCHI & CHECCHI	Twin Fall Partially Enclosed Lifeboats: PE-series.	
	BROOKER	Single Fall Totally Enclosed Lifeboats: CA Series.	
	CASTOLDI S.R.L.	Single Fall Rescue Boat: JET TENDER 18 RB Series.	
	DAFER (NARWHAL)	Single Fall Fast Rescue Boat: FRB Series.	
		Single Fall Rescue Boat: FRB 700 Series, FRB 900 Series, SV Series.	
	DELTA	Single Fall Rescue Boat: COMET Series, PHANTOM Series.	
	DSB DEUTSCHE SCHLAUCHBOOTE	Single Fall Rescue Boat: IRB Series.	
DSB ENGINEERING CO LTD	Twin Fall Partially Enclosed Lifeboats: DSBP Series.		
	Single Fall Rescue Boat: DSBRB Series, DSBRFA Series.		
	Free Fall Totally Enclosed Lifeboats: DSBFC Series, DSBFF Series.		
	Twin Fall Totally Enclosed Lifeboats (Dry Version): DSBC Series.		

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Lifeboats	DSB ENGINEERING CO LTD	Twin Fall Totally Enclosed Lifeboats (Tanker Version): DSBF Series.	
	ESVAGT	Single Fall Rescue Boat: ALU 460 F Series.	
	FASSMER	Single Fall Fast Rescue Boat: FRR Series.	
		Twin Fall Partially Enclosed Lifeboats: CL-P Series, PLL Series, PLT Series, SEL Series.	
		Single Fall Rescue Boat: FRIR Series, RR Series.	
		Free Fall Totally Enclosed Lifeboats: CFL Series, GAR Series, GAR-T Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): CL Series, CLR-C Series, CLX Series, GMR Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version): CL Series, CLR-T Series, CLX Series, DRAGON Series, T-GMR Series.	
	FASSMER MARLAND	Single Fall Rescue Boat: RR Series.	
		Free Fall Totally Enclosed Lifeboats: CFL-C Series, CFL-T Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): CLR-C Series, DRAGON C Series, HH-C Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version): CLR-T Series, DRAGON F Series, HH-T Series.	
	GEPA	Single Fall Fast Rescue Boat: G-FRB Series.	
		Twin Fall Partially Enclosed Lifeboats: G-FYK Series.	
		Single Fall Rescue Boat: G-RB Series.	
Free Fall Totally Enclosed Lifeboats: G-FFF Series.			
Twin Fall Totally Enclosed Lifeboats (Dry Version): G-FK Series.			
Twin Fall Totally Enclosed Lifeboats (Tanker Version) GFK-FP Series.			

(See next page for further details regarding the approval.)

Lifeboats	GREBEN	Twin Fall Partially Enclosed Lifeboats: PEL Series.	
		Single Fall Rescue Boat: RB Series.	
		Free Fall Totally Enclosed Lifeboats: FFL Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): TEL Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) TEL-FP Series.	
	HARDING (UMO SCHAT HARDING)	Twin Fall Partially Enclosed Lifeboats: CTL Series, ML Series, MPC Series.	
		Single Fall Rescue Boat: MOB 4.5A Series.	
		Free Fall Totally Enclosed Lifeboats: FF Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): MCF Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version): MCB Series, MCM Series.	
	HARDING (UMO SCHAT HARDING) (PALFINGER)	Free Fall Totally Enclosed Lifeboats: HARDING-LBF Series.	
		Single Fall Fast Rescue Boat: STINGER 630 Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): LBT-C Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version): LBT-T Series.	
	HARDING (WATERCRAFT)	Twin Fall Partially Enclosed Lifeboats: MOB Series, MOBAC Series, PELB Series, PERB Series.	
Free Fall Totally Enclosed Lifeboats: WFF Series.			
Twin Fall Totally Enclosed Lifeboats (Tanker Version) MK 1 Series, MK 2 Series, MK 3 Series, MK 4 Series, MK 5 Series.			
HARDING BOAT BUILDING (QINGDAO) CO., LTD. (UMO SCHAT HARDING)	Twin Fall Totally Enclosed Lifeboats (Dry Version): TECB Series.		
HATECKE (ERNST HATECKE)	Single Fall Fast Rescue Boat: FRB 600 Series.		

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Lifeboats	HATECKE (ERNST HATECKE)	Twin Fall Partially Enclosed Lifeboats: PEL Series, PL Series.	
		Single Fall Rescue Boat: RB Series.	
		Free Fall Totally Enclosed Lifeboats: GFF Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): GSL-T Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version): GSL-T Series.	
	HLB (HYUNDAI LIFEBOATS)	Single Fall Fast Rescue Boat: HDFR Series.	
		Single Fall Rescue Boat: HDR Series.	
		Free Fall Totally Enclosed Lifeboats: HDF25T Series, HDFL740F Series, HDFN-F Series, HDFN-T Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): HDL Series, HLB Series, HT78 Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version): HDL Series, HDL-CF Series, HLB Series.	
	HOEI SENPAKU CO., LTD.	Twin Fall Totally Enclosed Lifeboats (Dry Version): HS Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) HS650F Series, HSF Series.	
	IHI MARINE UNITED INC	Twin Fall Open Lifeboats: G Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): GTC Series, GTC-C Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) GT-F Series, GTC-F Series, GTR-F Series.	
	JAPAN MARINE UNITED CORP	Twin Fall Totally Enclosed Lifeboats (Dry Version): GF Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) GTR Series.	

(See next page for further details regarding the approval.)

Lifeboats	JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Single Fall Rescue Boat: GJ Series.	
		Free Fall Totally Enclosed Lifeboats: JY-FF Series, JY-FN Series, JYM-FF Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): JY-QFN Series, JY-QFP Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) JY-QFN Series, JY-QFP Series.	
	JIANGYIN NEPTUNE	Twin Fall Totally Enclosed Lifeboats (Dry Version): NPT-C Series, SC Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) NPT-F Series.	
	JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Single Fall Fast Rescue Boat: NPT-RA Series.	
		Twin Fall Partially Enclosed Lifeboats: NPT-P Series, NPT-PT Series.	
		Single Fall Rescue Boat: NPT-R Series, NPT-RA Series, NPT-RB Series, NPT-RFA Series.	
		Free Fall Totally Enclosed Lifeboats: NPT-FA Series, NPT-FC Series, NPT-FCA Series, NPT-FF Series.	
	JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Twin Fall Open Lifeboats: JYK Series.	
		Twin Fall Partially Enclosed Lifeboats: JYP Series.	
		Single Fall Rescue Boat: JYDR Series, JYKR Series.	
		Free Fall Totally Enclosed Lifeboats: JYCF Series, JYFF Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): JYC Series, JYCA Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) JYF Series, JYFA Series.	
	JIANGYIN XINJIANG	Single Fall Rescue Boat: GJ Series, GJ-B Series.	
		Free Fall Totally Enclosed Lifeboats: JY-FN Series.	
	JIANGYINSHI BEIHAI	Single Fall Fast Rescue Boat: JYB-G Series, JYB-Q Series.	
		Twin Fall Open Lifeboats: JYB-K Series.	
		Twin Fall Partially Enclosed Lifeboats: JYB-B Series.	

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Lifeboats	JIANGYINSHI BEIHAI	Single Fall Rescue Boat: JY-BR Series, JYB-KR Series, SC-K Series, SC-KR Series.	
		Free Fall Totally Enclosed Lifeboats: JYB-FC Series, JYB-FF Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): JYB-C Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) JYB-F Series.	
	KANG NAM. CORPORATION	Twin Fall Totally Enclosed Lifeboats (Dry Version): GTB Series.	
	MARE SAFETY AS	Single Fall Fast Rescue Boat: GTC 700 Series.	
		Single Fall Rescue Boat: RB Series.	
	MARITIME PARTNERS	Single Fall Fast Rescue Boat: WEEDO 600 Series, SEA BEAR 23 Series, ALUSAFE 1200 DC Series, ALUSAFE 700 Series, ALUSAFE 770 Series, ALUSAFE 900 Series, WEEDO 17 SOLAS Series, WEEDO 700 Series.	
	MARITIME PARTNERS (HUKKELBERG BOATS)	Single Fall Fast Rescue Boat: SPRINGER Series.	
	MULDER EN RIJKE	Twin Fall Partially Enclosed Lifeboats: PELB Series, PTL Series.	
		Single Fall Totally Enclosed Lifeboats: TELB-S Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) TELB Series.	
	NARWHAL	Single Fall Rescue Boat: SV Series.	
NARWHAL (DAFER)	Single Fall Fast Rescue Boat: SV Series.		
NED-DECK MARINE (PALFINGER)	Single Fall Rescue Boat: NMD 4.40 RESCUE Series.		
	Twin Fall Totally Enclosed Lifeboats (Tanker Version) NPT Series, PN85F Series.		
NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Single Fall Fast Rescue Boat: YZRA Series, YZRB Series.		
	Twin Fall Open Lifeboats: BJ Series.		

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Lifeboats	NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Single Fall Rescue Boat: BJ Series, YZ Series.	
		Free Fall Totally Enclosed Lifeboats: YZFC Series, YZFF Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): YZC Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) YZF Series.	
	NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Single Fall Rescue Boat: NM43R Series, NM45R Series.	
		Free Fall Totally Enclosed Lifeboats: NM58FF Series, NM59FC Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): NM Series.	
	NISHI-F CO., LTD. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Single Fall Fast Rescue Boat: FRP Series.	
		Twin Fall Open Lifeboats: NF Series, NFA Series.	
		Twin Fall Partially Enclosed Lifeboats: PML Series.	
Free Fall Totally Enclosed Lifeboats: FF Series.			
Twin Fall Totally Enclosed Lifeboats (Dry Version): CML Series, EML Series, G-TR Series.			
Twin Fall Totally Enclosed Lifeboats (Tanker Version) CML Series, EML Series, G-FR Series.			
NOREQ	Twin Fall Partially Enclosed Lifeboats: LBP Series.		
NOREQ (PALFINGER)	Single Fall Fast Rescue Boat: FRB Series.		
	Single Fall Rescue Boat: RRB Series.		
	Free Fall Totally Enclosed Lifeboats: LBF Series.		
	Twin Fall Totally Enclosed Lifeboats (Tanker Version) LBT Series.		
NORMAR	Single Fall Fast Rescue Boat: FRC Series.		
	Single Fall Rescue Boat: RESCUE Series.		
	Free Fall Totally Enclosed Lifeboats: JY-FF 4.9 TO 8.5C Series, JY-FF 4.9 TO 8.5T Series.		
OY FISKARS AB	Twin Fall Totally Enclosed Lifeboats (Dry Version): TELB Series.		

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Lifeboats	OY FISKARS AB	Twin Fall Totally Enclosed Lifeboats (Tanker Version) TELB Series.	
	PALFINGER	Single Fall Fast Rescue Boat: FRSQ Series.	
		Twin Fall Partially Enclosed Lifeboats: CTL Series, MPC Series, NPT-T Series.	
		Single Fall Rescue Boat: RSQ Series.	
		Free Fall Totally Enclosed Lifeboats: FF Series, NPT-FC Series, NPT-FF Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): KISS-C Series, NPT-F Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) KISS-T Series, NPT-C Series.	
	PESBO S.A	Free Fall Totally Enclosed Lifeboats: BSL Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): BSC Series.	
	QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Single Fall Fast Rescue Boat: BH-HR7 Series, FRB Series.	
		Twin Fall Partially Enclosed Lifeboats: BH10 Series.	
		Single Fall Rescue Boat: BH-R Series.	
		Free Fall Totally Enclosed Lifeboats: BH-F Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): BH Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) BH Series.	
	SHIGI SHIPBUILDING CO. LTD.	Single Fall Fast Rescue Boat: FRP Series.	
Twin Fall Open Lifeboats: SZGM Series, SZGO Series.			
Twin Fall Partially Enclosed Lifeboats: SZP Series, SZPR Series.			
Single Fall Rescue Boat: SZRS Series, VOX46 Series.			
Free Fall Totally Enclosed Lifeboats: FEL Series, GARS Series.			

(See next page for further details regarding the approval.)

Lifeboats	SHIGI SHIPBUILDING CO. LTD.	Twin Fall Totally Enclosed Lifeboats (Dry Version): SZBR Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) SZTR Series.	
	STOCZNIA USTKA SP. Z O.O.	Single Fall Fast Rescue Boat: FRB Series.	
		Single Fall Rescue Boat: R Series, RIB Series.	
		Free Fall Totally Enclosed Lifeboats: FFB Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): Z Series.	
	SURVITEC	Single Fall Fast Rescue Boat: SC60RA Series.	
		Free Fall Totally Enclosed Lifeboats: FF Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): SC Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) SC Series.	
	SURVIVAL SYSTEMS INT.	Single Fall Fast Rescue Boat: FRB Series.	
		Single Fall Totally Enclosed Lifeboats: CA Series.	
TSUNEISHI	Twin Fall Totally Enclosed Lifeboats (Dry Version): TL-TE Series.		
TSUNEISHI (KAMBARA RINGYO)	Twin Fall Totally Enclosed Lifeboats (Dry Version): KL-TE Series.		
	Twin Fall Totally Enclosed Lifeboats (Tanker Version) KL-FP Series.		
TSUNEISHI (SANYO WORKS)	Twin Fall Totally Enclosed Lifeboats (Dry Version): TE Series.		
	Twin Fall Totally Enclosed Lifeboats (Tanker Version) FP Series.		
VALIANT	Single Fall Rescue Boat: RB-450 Series.		
VANGUARDE	Single Fall Fast Rescue Boat: VG-FRK Series, VG-FRW Series.		
	Single Fall Rescue Boat: VG-DRS Series, VG-KR Series.		

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Lifeboats	VANGUARDE	Twin Fall Totally Enclosed Lifeboats (Dry Version): VG-C Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) VG-F Series, VG-HLB Series.	
	VEB SCHIFFSWERFT RECHLIN / MURITZ	Twin Fall Totally Enclosed Lifeboats (Dry Version): GAL Series.	
	VIKING (NORSAFE)	Single Fall Fast Rescue Boat: 470 GRP Series, MAGNUM Series, MAKO Series, MERLIN Series, MIDJET-530 MK II WATER JET Series.	
		Twin Fall Partially Enclosed Lifeboats: MINIMA Series.	
		Single Fall Rescue Boat: MAKO Series, MERLIN Series, MIDGET Series.	
		Free Fall Totally Enclosed Lifeboats: JYN-F Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): JYN-C Series, MAGGIE-C Series, MATILDA-C Series, MAUD-C Series, MAXIMA-C Series, MIRAM-C Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) JYN-MKI Series, JYN-T Series, MAGGIE-T Series, MATILDA-T Series, MAUD-T Series, MAXIMA-T Series, MIRAM-T Series.	
	VIKING (NORSAFE) (JIANGYIN)	Single Fall Rescue Boat: MATRIX Series.	
	Free Fall Totally Enclosed Lifeboats: GES Series.		
VIKING NEUVISA	Single Fall Fast Rescue Boat: RR-40 Series.		
WATERCRAFT (WATERCRAFT HELLAS)	Single Fall Rescue Boat: 4.9M-RB Series.		
	Twin Fall Totally Enclosed Lifeboats (Dry Version): MK 5 Series.		
WATERMAN OY	Twin Fall Partially Enclosed Lifeboats: 365 Series, 367 Series, 391 Series, 393 Series.		
	Twin Fall Totally Enclosed Lifeboats (Tanker Version) 351 Series, 366 Series, 366HRL Series, 368 Series, 371 Series, 371HR Series, 377 Series, 379 Series.		

(See next page for further details regarding the approval.)

Lifeboats	WHITTAKER	Single Fall Totally Enclosed Lifeboats: CA Series.	
	WUXI HAI HONG BOAT MAKING CO., LTD.	Twin Fall Open Lifeboats: BH Series, BJ Series.	
		Single Fall Rescue Boat: GJ Series.	
		Free Fall Totally Enclosed Lifeboats: HH-FC Series, HH-FF Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): HH76FC Series, HH-C Series, HH-CS Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) HH-T Series, HH-TS Series.	
	WUXI WENJIAO	Single Fall Fast Rescue Boat: WJ-RA Series, WJ-RB Series.	
		Twin Fall Open Lifeboats: BH Series, BJ Series, WJ Series.	
		Single Fall Rescue Boat: GJ Series.	
		Free Fall Totally Enclosed Lifeboats: WJFF Series, WJFFC Series, WUXI WENJIAO / WJFFC Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): WJBC Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) WJBF Series.	
	XTENDERS	Single Fall Fast Rescue Boat: 6.8M SOLAS TENDER Series.	
	ZHEJIANG HENGXIN SHIP EQUIPMENTS CO., LTD	Single Fall Rescue Boat: GJ Series.	
Free Fall Totally Enclosed Lifeboats: BCFC Series, BCFF Series, FL-C Series, FL-F Series.			
Twin Fall Totally Enclosed Lifeboats (Dry Version): BCF Series.			
Twin Fall Totally Enclosed Lifeboats (Tanker Version) BCC Series.			
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Single Fall Rescue Boat: GJ Series.		
	Free Fall Totally Enclosed Lifeboats: BCFF Series.		
ZHENJIANG JUST MARINE EQUIPMENT CO., LTD	Single Fall Rescue Boat: ZJM-4.0 Series.		
	Free Fall Totally Enclosed Lifeboats: ZJM-FF Series.		

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Lifeboats	ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Single Fall Fast Rescue Boat: YH-FRB Series.	
		Single Fall Rescue Boat: YH-FRA Series, YH-R Series.	
		Free Fall Totally Enclosed Lifeboats: YH Series.	
		Twin Fall Totally Enclosed Lifeboats (Dry Version): YH-QFP Series.	
		Twin Fall Totally Enclosed Lifeboats (Tanker Version) YH-DR Series.	
	ZODIAC (SURVITEC)	Single Fall Fast Rescue Boat: RIB Series.	
		Single Fall Rescue Boat: H472S Series, RIBO Series.	
ZODIAC HURRICANE	Single Fall Rescue Boat: H561 PROLUXE Series.		
ZODIAC MILPRO INTERNATIONAL	Single Fall Rescue Boat: RIBO Series.		
Launching Appliances	A TECH	Single Arm Slewing: AT-LRD Series.	
	ABAS	Single Arm Slewing: KDE Series, MDE Series.	
	ACEBI	Free Fall Secondary Hydraulic A Frame: TPF Series.	
		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 / Single Fall Gravity Rollertrack: GRA Series.	
		Twin Fall Gravity Pivoting / Luffing: SPG Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: TPC Series.	
		Single Drum Gravity Lowering Electric Hoisting Lifeboat / Rescue Boat / Static Brake Pad, Cone, Disk, Band / Decent Brake Centrifugal Pads: TBE Series.	

(See next page for further details regarding the approval.)

Launching Appliances	ACEBI	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 w Pads: TBE Series.	
	ACOIN	Single Arm Slewing: R18700 Series.	
		Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: BE-2 Series.	
	ACTA	Free Fall Secondary Hydraulic A Frame: HSC Series.	
		Single Arm Slewing: DC Series, DR Series, HSC Series, MOB Series.	
		Single Drum Gravity Lowering Electric Hoisting Lifeboat / Rescue Boat / Static Brake Pad, Cone, Disk, Band / Decent Brake Centrifugal Pads: KNT Series.	
	ALEXANDER RYAN	Gravity Single and Twin Fall Outrigger: BH 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.	
	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)	Free Fall Secondary Hydraulic A Frame: BDF Series, HDFL Series.		
	Gravity Free Fall Primary: BDF Series.		
	Gravity Single and Twin Fall Outrigger: BFOD Series.		
	Single Arm Slewing: BDR Series, BLR Series.		
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: BDA Series, BDFA Series, BFRD Series.		
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Launching Appliances	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 / Single Fall Gravity Rollertrack: BDTW Series.	
		Twin Fall Gravity Pivoting / Luffing: BDH Series, BDMS Series, HINGED GRAVITY Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: BDH Series.	
		Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: BDF Series, BLW Series, BMW Series, BRW Series.	
		Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: HDF Series.	
		Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: BA Series, BM Series, ELEC. MOTOR DRIVEN Series, PWD Series.	
	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: BDTW Series, BMW Series, BW Series, BWR Series.		
	BADA HEAVY INDUSTRIES CO., LTD.	Free Fall Secondary Hydraulic A Frame: HDF Series, HDL Series.	
		Single Arm Slewing: BHI-RLD Series.	
Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: BDHP 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.			
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.		

(See next page for further details regarding the approval.)

Launching Appliances	BOPP TREUILS JEB	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: BHP 4200 Series.		
	BREVINI	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: PWD Series.		
	COASTAL MARINE EQUIPMENT, INC.	Single Arm Slewing: D Series.		
	GRAMM YACHTING SYSTEMS B.V	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic: CDT 7000 Series.	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: BWF1500 Series.	
	DAELIM TECHNOLOGY CO. LTD. (HYUNDAI)	Free Fall Secondary Hydraulic A Frame: FF-740 Series.		
	DAVIT COMPANY	Gravity Single and Twin Fall Outrigger: FFFDA Series.	Single Arm Slewing: SRR Series. 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 w Pads: 24EPB Series.	
		Single Arm Slewing: SRR Series.		
		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 w Pads: 24EPB Series.		
DAVIT INTERNATIONAL	Free Fall Secondary Hydraulic A Frame: D-FH Series.	Gravity Free Fall 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, D-CRH.R Series, D-CRM Series, D-FOS Series, D-RC Series, D-RC.T Series, D-SR04 Series, D.BC.R Series, D.CRE.R Series. 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, D-TT.SP Series.		
	Gravity Free Fall 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, D-CRH.R Series, D-CRM Series, D-FOS Series, D-RC Series, D-RC.T Series, D-SR04 Series, D.BC.R Series, D.CRE.R Series.			
	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, D-TT.SP Series.			

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Launching Appliances	DAVIT INTERNATIONAL	Twin / Single Fall Gravity Rollertrack: D-RT Series.	
		Twin Fall Gravity Pivoting / Luffing: D-NP Series, D-NP.MP Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: D-NP Series, D-SP Series.	
		Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: 01KN Series, 02KN Series, 03KN Series, 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 w Pads: 12 Series, 40 Series.	
	DENIZSAN	Free Fall 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, DSRB Series.	
		Single Drum Gravity Lowering Electric Hoisting Lifeboat / Rescue Boat / Static Brake Pad, Cone, Disk, Band / Decent Brake Centrifugal Pads: MTV1 Series.	
DINAMIC OIL	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: FHW Series.		
DONG NAM ENTERPRISE., CO LTD	Twin Fall Gravity Pivoting / Luffing: DLB Series.		
	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: HLW Series.		
DONGNAM MARINE CRANE CO., LTD.	Single Arm Slewing: DCPV Series, DNRD Series, DRBLRD Series, DRLD Series, DSAC Series, DSAD Series.		

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Launching Appliances	DONGNAM MARINE CRANE CO., LTD.	Twin Fall Gravity Pivoting / Luffing: DHGD Series.	
		Single Drum Gravity Lowering Electric Hoisting Lifeboat / Rescue Boat / Static Brake Pad, Cone, Disk, Band / Decent Brake Centrifugal Pads: DSAD Series.	
		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 Arm Slewing: DBD Series.	
		Twin Fall Gravity Pivoting / Luffing: DWS Series.	
		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 w Pads: LW Series.	
	DSB ENGINEERING CO LTD	Free Fall Secondary Hydraulic A Frame: DRM-FFD Series, 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, DSBDDL Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: DSBDYL Series.	
Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: DRM-HW Series.			
EO LIFESAVING	Single Arm Slewing: CH-52 Series.		
	Single Drum Gravity Lowering Electric Hoisting Lifeboat / Rescue Boat / Static Brake Pad, Cone, Disk, Band / Decent Brake Centrifugal Pads: W Series.		
FASSMER	Free Fall Secondary Hydraulic A Frame: FFH Series.		
	Gravity Free Fall Primary: FLR Series.		

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Launching Appliances	FASSMER	Single Arm Slewing: FSARR Series.		
		Twin Fall Gravity Pivoting / Luffing: FPD Series.		
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: FMPD Series.		
		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	Free Fall Secondary Hydraulic A Frame: FFH Series.		
		Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: FFWH Series.		
	FERRI	Single Arm Slewing: 1872 TN Series.		
		Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: 1702 TN Series, 1722 TN Series.		
	GILBERT & SCHMALRIEDE. GMBH & CO. KG	Single Arm Slewing: PJ1385 Series.		
Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic: PJ1386 Series.				
GLOBAL DAVIT	Gravity Single and Twin Fall Outrigger: GSP.O Series, RSP.O Series.			
	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: RHP Series, RHP.HC Series.			

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Launching Appliances	GLOBAL DAVIT	Single Arm Slewing: FHS Series, FHS.L Series, FHS.R Series, FHS.R.L Series, FHS.R.L.S Series, FHS.R.S Series, FHS.S Series, LMES.S Series, LML Series, LMS Series, LMS.S Series, R RMS Series, RHL Series, RHP Series, RHS Series, RHS.L Series, RHS.L.S Series, RHS.S Series, RMES.L.S Series, RMES.S Series, RML Series, RMS.L Series, RMS.L.S Series, RMS.S Series.	
		Twin / Single Fall Gravity Rollertrack: GLP.RT Series, GSP.RT Series, GSP.RT, GLP.RT Series.	
		Twin Fall Gravity Pivoting / Luffing: GLP.FP Series, GLP.MP Series, GSP.FP Series, GSP.MP Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: GLP.FLH Series, GLP.FPH Series, GSP.FLH Series, GSP.FPH Series, RHL Series, RHP Series.	
		Single Drum Gravity Lowering Electric Hoisting Lifteraft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: 10KN Series, W01KN Series, W02KN Series, W03KN Series, W04KN Series, W08KN Series.	
		Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: 02H.06.01 Series, W05HC Series, W08HC Series, WS Series.	
		Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: 14KN Series, 20KN Series, 26KN Series, W07KN Series, W10KN Series.	
	GREBEN	Free Fall Secondary Hydraulic A Frame: FFL-28 Series, HFF Series.	
		Gravity Single and Twin Fall Outrigger: FOD Series.	
		Single Arm Slewing: RLC Series, SAR Series.	
		Twin / Single Fall Gravity Rollertrack: GR-RTD Series.	
		Twin Fall Gravity Pivoting / Luffing: SPG Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: GD-PD Series, HD Series.	

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Launching Appliances	GREBEN	Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: EW-2 Series.	
		Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: HW Series.	
		Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: BE Series, CW Series, EW Series.	
	GURDESAN	Free Fall Secondary Hydraulic A Frame: GD-FFD Series.	
		Single Arm Slewing: GD-KHK Series, GD-RRS Series.	
		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 Arm Slewing: HED-PC Series, HHD-PC Series.	
		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.	
	HANYOUNG ENTERPRISE	Single Arm Slewing: RESUCE BOAT DAVIT Series.	
	HARDING (UMO SCHAT HARDING)	Free Fall Secondary Hydraulic A Frame: FF Series.	
		Gravity Free Fall Primary: FFB Series, LA Series.	
		Gravity Single and Twin Fall Outrigger: HD-FL Series, ORD Series.	
		Single Arm Slewing: LAR Series, SAR Series, SPR Series, SRR Series.	
Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: SA Series.			

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Launching Appliances	HARDING (UMO SCHAT HARDING)	Twin / Single Fall Gravity Rollertrack: GRA Series, HD-RT Series.	
		Twin Fall Gravity Pivoting / Luffing: HD-SPG Series, HD-VIP Series, SPG(VL) Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: SPD 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.	
	HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Single Arm Slewing: MOB Series.	
		Twin / Single Fall Gravity Rollertrack: NT Series.	
		Twin Fall Gravity Pivoting / Luffing: SPG(L) Series.	
		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.	
	HARDING (UMO SCHAT HARDING) (PALFINGER)	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: BE Series.	
		Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: NPDS Series.	
Free Fall Secondary Hydraulic A Frame: LA Series.			
Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic: NTD Series.			
		Twin / Single Fall Gravity Rollertrack: ND Series.	

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Launching Appliances	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 / Single Fall Gravity Rollertrack: WRG Series.	
		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)	Free Fall Secondary Hydraulic A Frame: FFA Series.	
		Gravity Free Fall Primary: FFB Series.	
		Gravity Single and Twin Fall Outrigger: GSP.O Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: GSP.FP Series.	
	HOLEN AS	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: 07.02.08 Series, FFA Series.	
		Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: KOPAS A-1000 Series.	
	HYDRALIFT	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: SP Series.	
IHI MARINE UNITED INC	Twin Fall Gravity Pivoting / Luffing: MUL Series.		
	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: MUW Series.		
IKNOW MACHINERY (TSUJI HEAVY INDUSTRIES)	Twin Fall Gravity Pivoting / Luffing: HD Series.		
	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: EB Series.		
IMT CO., LTD	Single Arm Slewing: ILR Series.		

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Launching Appliances	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 w Pads: MU Series.	
	JIANGSU JIAOYAN MARINE EQUIPMENT CO. LTD	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: FW45 Series.	
	JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANYIN XINJIANG F.R.P. CO. LTD)	Free Fall Secondary Hydraulic A Frame: JYF Series.	
		Gravity Single and Twin Fall Outrigger: JYP Series.	
		Single Arm Slewing: JYR Series, JYRCA Series.	
		Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: JYA Series.	
		Twin / Single Fall Gravity Rollertrack: JYGR Series.	
		Twin Fall Gravity Pivoting / Luffing: JYL Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: JYHG Series.	
	JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: JYRZ 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.	
		Twin Fall Gravity Pivoting / Luffing: NPT 60 DL Series, NPT-DL Series, NPT-DP Series, NPT-DYL Series.	
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.	

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Launching Appliances	JIANGYIN NEPTUNE MARINE APPLIANCE CO. LTD.	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: NPT-BE Series, NPT-DR Series.	
		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 w Pads: NPT-DS Series, NPT-DW Series.	
	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 / Single Fall Gravity Rollertrack: JYHE Series.	
		Twin Fall Gravity Pivoting / Luffing: JYPL Series.	
		Single Drum Gravity Lowering Electric Hoisting Lifter / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: JY-D 23Z Series.	
	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: JYD Series.		
JIANGYINSHI BEIHAI	Free Fall Secondary Hydraulic A Frame: FA Series.		
	Gravity Single and Twin Fall Outrigger: PD Series.		
	Single Arm Slewing: SA Series, SAC Series, SMR Series.		

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Launching Appliances	JIANGYINSHI BEIHAI	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: EHRD Series, FRH Series, SRH Series.	
		Twin / Single Fall Gravity Rollertrack: HB-H Series, RB-H Series.	
		Twin Fall Gravity Pivoting / Luffing: BH-G Series, LA Series, LB-H Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: BHG Series.	
		Single Drum Gravity Lowering Electric Hoisting Lifteraft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: YZ Series.	
		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.	
	JUNG-A-MARINE CO., LTD	Single Arm Slewing: PCRLC Series.	
		Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: PCRLC Series.	
	KGW SCHWERINER MASCHINENBAU GMBH	Single Arm Slewing: RB Series.	
	KYORITSU KIKAI	Free Fall Secondary Hydraulic A Frame: LAF-MUF68 Series.	
MACGREGOR (TTS) (HYDRAMARINE)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: G-TYPE Series, HMD A32 MK3 Series, A-TYPE Series, HLD Series, HMC Series, HMD Series.		
	Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic: T-TYPE Series.		
	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: HMW Series.		
MANSEI	Free Fall Secondary Hydraulic A Frame: D-FH Series, FE Series, MFH Series.		
	Single Arm Slewing: R Series, RD Series, SAR Series, SR Series.		

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Launching Appliances	MANSEI	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: HER Series.	
		Twin / Single Fall Gravity Rollertrack: AT Series, GRA Series.	
		Twin Fall Gravity Pivoting / Luffing: ABD Series, AH Series, AV Series, CM Series, EH Series, EM Series, M Series.	
		Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: ERW Series, MLW Series, RMW Series, SW Series.	
		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, EW Series, 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.	
	MIURA MACHINE CO., LTD (MIURA VIDER) (MANSEI)	Twin Fall Gravity Pivoting / Luffing: MVD Series, SPG(VD) Series.	
		Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: LBH Series, RBH Series.	
	NANJING DONGSHENG MARINE EQUIPMENT CO., LTD	Single Arm Slewing: AR14 Series.	
Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: DB14 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.		

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Launching Appliances	NAVIM GROUP	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: SGHD-L Series, SPHD-T Series.	
	NAVIM GROUP (TECNIMPIANTI S.P.A)	Single Arm Slewing: NHRB Series.	
		Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: RBEW Series.	
	NED-DECK MARINE (PALFINGER)	Free Fall Secondary Hydraulic A Frame: FFH Series.	
		Gravity Single and Twin Fall Outrigger: FPG Series.	
		Single Arm Slewing: SCH Series, SCM Series, SCT Series, SEC Series.	
		Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: PFH Series, PRH Series, PRHE Series.	
		Twin Fall Gravity Pivoting / Luffing: PL Series.	
		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: BREVINI BWC 050 Series, BREVINI BWF 025 Series, HWCT Series.	
	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: 15 Series.		
	NINGBO ASIA F.R.P. BOAT MANUFACTURING CO LTD	Free Fall Secondary Hydraulic A Frame: YZF Series.	
Single Arm Slewing: YZ Series, ZFDZ Series.			
Twin Fall Gravity Pivoting / Luffing: L Series.			
NINGBO NEW MARINE LIFESAVING EQUIPMENT CO. LTD	Free Fall Secondary Hydraulic A Frame: NMF55KN 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.		

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Launching Appliances	NOR DAVIT	Gravity Single and Twin Fall Outrigger: PL Series.		
		Twin Fall Gravity Pivoting / Luffing: SDP Series.		
		Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: SP Series.		
	NOREQ (PALFINGER)	Gravity Single and Twin Fall Outrigger: NRD Series.		
		Single Arm Slewing: SCH Series, SCH-R Series, SCHD Series, 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.		
		Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: NW Series.		
	NORSAFE	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: NDA Series.		
		Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: NW Series.		
	ORIENTAL PRECISION	Free Fall Secondary Hydraulic A Frame: FD Series.		
		Single Arm Slewing: RD Series, SHS Series.		
Twin / Single Fall Gravity Rollertrack: RTD Series.				
Twin Fall Gravity Pivoting / Luffing: DHA Series, DMA Series, HGD Series, HGK Series.				
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.				

(See next page for further details regarding the approval.)

Launching Appliances	ORIENTAL PRECISION	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: BWE Series, SWE Series.	
	ORIENTAL PRECISION - SEKIGAHARA	Twin Fall Gravity Pivoting / Luffing: SHS Series.	
	PALFINGER	Free Fall Secondary Hydraulic A Frame: NPT-DF Series.	
		Gravity Free Fall 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 / Single Fall Gravity Rollertrack: NPT Series.	
		Twin Fall Gravity Pivoting / Luffing: NPT Series, VIP Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: NPD Series, PFH Series.	
		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 Arm Slewing: CHCD 2,507+RLC 2.1/4.5 Series, RLC Series.	
		Twin Fall Gravity Pivoting / Luffing: GRA Series.	
		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 w Pads: VAS 45 E 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.	
		Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: BD-AR Series.	
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Launching Appliances	QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Twin Fall Gravity Pivoting / Luffing: BD-PV Series.	
		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.	
	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)	Free Fall Secondary Hydraulic A Frame: HP2 Series.	
		Single Arm Slewing: HS Series, MS Series.	
		Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: WL Series.	
	SEKIGAHARA	Free Fall Secondary Hydraulic A Frame: SF Series.	
Single Arm Slewing: SSS Series.			
Twin / Single Fall Gravity Rollertrack: AT Series, STS Series.			
Twin Fall Gravity Pivoting / Luffing: SFA Series, SFB Series, SFP Series, SHS Series.			
Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: SNW Series, SWE Series.			
SEKWANG MARINE MACHINERY CO, LTD	Single Arm Slewing: RBD Series, SINGLE ARM SLEWING Series.		

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Launching Appliances	SEKWANG MARINE MACHINERY CO, LTD	Single Drum Gravity Lowering Electric Hoisting Lifteraft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: RBW Series.	
	SERVO SHIP S.L	Free Fall Secondary Hydraulic A Frame: FFR-20 Series.	
		Single Arm Slewing: PR4M1100HR Series.	
	SERVO SHIP S.L	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: FFRW 4500KG Series.	
		Single Arm Slewing: ZZ-ZOL Series, ZZ-ZOT Series.	
	SEZAMOR	Single Arm Slewing: ZZ-ZOL Series, ZZ-ZOT Series.	
	SHANGHAI HENGYUAN MARINE EQUIPMENT CORPORATION	Free Fall Secondary Hydraulic A Frame: FH Series.	
		Single Arm Slewing: SAF Series.	
	SHEYANG VICTOR MARINE AUXILIARIES CO., LTD	Single Arm Slewing: 21KN Series.	
		Single Drum Gravity Lowering Electric Hoisting Lifeboat / Rescue Boat / Static Brake Pad, Cone, Disk, Band / Decent Brake Centrifugal Pads: 14KN Series.	
SHIN MYUNG TECH	Single Arm Slewing: SMLRD-25P Series, SMRB&LRD-FT Series, SMRBD-SD Series, SMRBD&LRD Series, SMRBD&PV Series.		
	Free Fall Secondary Hydraulic A Frame: HZ Series.		
STOCZNIA USTKA SP. Z O.O.	Gravity Free Fall Primary: PZ Series.		
	Gravity Single and Twin Fall Outrigger: PL 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.		
	Free Fall Secondary Hydraulic A Frame: 55KN Series.		
TAIZHOU HAIHAO MARINE EQUIPMENT CO., LTD	Single Arm Slewing: 21KN BOAT/RAFT DAVIT Series.		
	Single Drum Gravity Lowering Electric Hoisting Lifteraft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: 21KN Series.		
	Twin / Single Fall Gravity Rollertrack: FRB Series.		
TECHNIMPIANTI S.P.A			

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Launching Appliances	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 Arm Slewing: RP Series.	
		Twin / Single Fall Gravity Rollertrack: T83 Series, TC Series.	
		Twin Fall Gravity Pivoting / Luffing: H Series.	
		Single Drum Gravity Lowering Electric Hoisting Lifteraft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: TC Series.	
	TTS (HYDRALIFT)	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: EB Series.	
		Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: HL Series.	
	TTS MARINE AS	Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: HL9D Series.	
	ULSTEIN FAMA (FAMA GNIEW)	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: HL9D MOB3800 Series.	
Single Arm Slewing: ZO Series, ZT Series.			
Single Drum Gravity Lowering Electric Hoisting Lifteraft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: ER10B Series, ERM Series.			
VANGUARDE	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: WLZ43C-11 Series.		
	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.		

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Launching Appliances	VANGUARDE	Twin Fall Gravity Pivoting / Luffing: LE Series, VL Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: PFH Series, SRH Series.	
	VERHOEF	Free Fall Secondary Hydraulic A Frame: FL Series.	
		Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: FL 50 Series.	
	VEST DAVIT	Free Fall Secondary Hydraulic A Frame: PLA Series.	
		Single Arm Slewing: L Series.	
		Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: P Series, PAP Series, PAPH Series, PL Series, PLAR Series, PLD Series, PLI Series, PLP Series, PLR Series.	
		Single or Twin Fall Lifeboat Rescue Boat / Fast Rescue Boat Telescopic Hydraulic: TBD Series.	
	VESTVINSJ	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: A-273-7 Series, BW Series.	
	VIKING (NORSAFE)	Gravity Free Fall Primary: SW Series.	
		Gravity Single and Twin Fall Outrigger: A Series, C Series, D Series, NDC Series.	
		Single Arm Slewing: CH-52 Series, NRC 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 Lowering: LH Series.			
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 Arm Slewing: NDSC Series, NDSC-R Series.	
	Free Fall Secondary Hydraulic A Frame: HD Series.		
	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: HYD-FF Series.		

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Launching Appliances	WELIN LAMBIE	Single Arm Slewing: LRW Series, SARBE Series.			
		Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: PIV.1.0A Series.			
		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 / Pads / Band / Decent Brake Centrifugal w Pads: 53 Series, 55 Series, 97 Series.			
	WUXI DONGWU	Free Fall Secondary Hydraulic A Frame: F55-F70 Series, NPT100F Series.			
		Single Arm Slewing: 21-35KN Series, DCW210 Series.			
		Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: A30/H35 Series.			
		Twin / Single Fall Gravity Rollertrack: 25KN-30KN Series.			
		Twin Fall Gravity Pivoting / Luffing: 18KN-110KN Series.			
		Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: DS/Z Series, DZ Series.			
	WUXI 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.					
Twin Fall Gravity Pivoting / Luffing: HMD Series.					
Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: HMW Series.					

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Launching Appliances	WUXI HUAHAI	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: HMDA Series.	
	WUXI HUAHAI MARINE EQUIPMENT LIMITED CO. LTD	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Holding Static Brakes with Mechanically Operated Multiple Disks Friction Pads / Decent Brake Centrifugal w Pads: MW Series.	
	WUXI JIANGNAN MARINE EQUIPMENT CO., LTD	Single Arm Slewing: ZFQ 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 / Single Fall Gravity Rollertrack: SMD Series.	
	YILMAZ DENIZCILIK	Twin Fall Gravity Pivoting / Luffing: SHMDL Series.	
		Single Arm Slewing: YDGS Series.	
	YOUNGNAM MACHINERY CO. LTD	Single Drum Gravity Lowering Electric Hoisting Lifteraft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: YDGS 10 Series.	
Twin Fall Gravity Pivoting / Luffing: YNBD Series.			
ZHEJIANG HENGXIN SHIP EQUIPMENTS CO., LTD	Twin Drum, Gravity-Lowering / Electrically Hoisting w / Static Brake Cone / Disk / Pads / Band / Decent Brake Centrifugal w Pads: YNBW Series.		
	Single Arm Slewing: SA23-1 Series.		
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Single Drum Gravity Lowering Electric Hoisting Lifteraft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: DZ Series.		
	Twin Fall Gravity Pivoting / Luffing: YSJ Series.		
ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Free Fall Secondary Hydraulic A Frame: FH Series.		
	Single Drum Gravity Lowering Electric Hoisting Lifteraft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: DZ Series.		

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Launching Appliances	ZHEJIANG WANTONG HEAVY INDUSTRY CO., LTD	Single Arm Slewing: SA23-1 Series. Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: IY J4-50-120-20-ZP Series.	
	ZHENJIANG DH MARINE EQUIPMENT CO., LTD	Single Arm Slewing: MSD Series. Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: DW Series.	
	ZHENJIANG JUST MARINE EQUIPMENT CO., LTD	Free Fall Secondary Hydraulic A Frame: FH Series.	
	ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Free Fall Secondary Hydraulic A Frame: FH Series.	
		Gravity Single and Twin Fall Outrigger: PL Series.	
		Single Arm Slewing: HDCL Series, SAF Series, SAFC Series, SAW30 Series, ZF Series.	
		Twin Fall Gravity Pivoting / Luffing: LE Series.	
		Twin Fall Hydraulic / Pivoting / Luffing Gravity Lowering: SRH Series.	
		Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: SAF Series.	
	ZHENJIANG WEST MARINE EQUIPMENT CO., LTD	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.			
ZHENJIANG WEST MARINE EQUIPMENT CO., LTD	Single Arm Slewing: WME-SAD Series.		
	Single Drum Gravity Lowering Electric Hoisting Liferaft / Rescue Boat / Static Brake Pad, Cone, Disk, Eccentric Cam / Decent Brake Centrifugal Pads: WME-SAD 14 Series.		

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Launching Appliances	ZHENJIANG WEST MARINE EQUIPMENT CO., LTD	Single Fall Rescue / Fast Rescue Boat A Frame Hydraulic: WME-LRH35 Series.	
		Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: WME-LRH35 Series.	
	ZOLLERN	Single Drum, Hydraulic-Lowering / Hydraulic Hoisting: A2FM45-61A Series, ZHP Series, ZR Series.	
On-Load Release Gear	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.	
		Free Fall 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: BHR25S 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.	
	BC SERVICE	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	Free Fall Hydraulic / Mechanical: THP-1B Series.		

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On-Load Release Gear	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: Free Fall Hydraulic Primary and Secondary: FFH Series.	
		Devices For Activating Release: Hydrostatic Unit with Float: DUPLEX<6.6T Series, DUPLEX>6T Series.	
		Free Fall Hydraulic / Mechanical: F 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<6.6T Series.		
	FERRI	Rescue Boat / Davit Launched Liferaft / Lift Over Centre Automatic: 1448 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: Free Fall Hydraulic Primary and Secondary: FFH Series.		

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On-Load Release Gear	HARDING (UMO SCHAT HARDING)	Free Fall Hydraulic / Mechanical: FFH Series.	
		Rescue Boat Offload w. Onload Capability: RRH Series.	
	HARDING (UMO SCHAT HARDING) (FAST RSQ)	Fast Rescue Boat Offload / Manual or Automatic: CAR-35F Series.	
	HARDING (UMO SCHAT HARDING) (PALFINGER)	Devices For Activating Release: Central Release Unit: KH6.5M2 Series, LHR Series, LHR M2 Series.	
		Devices For Activating Release: Hydrostatic Unit with Diaphragm: KH6.5M2 Series, LHR Series, LHR M2 Series.	
		Lifeboat On Load Lift Not Over Centre, Forward or Reverse Curve to Curve Rotating Cams: KH6.5M2 Series, LHR Series, LHR M2 Series.	
		Rescue Boat / Davit Launched Liferaft / Lift Over Centre Automatic: ARH 23 Series.	
	HARDING (UMO SCHAT HARDING) (SCHAT DAVIT COMPANY) (PALFINGER)	Lifeboat On Load Lift Not Over Centre, Forward or Reverse Curve to Curve Rotating Cams: LH3.5M2 Series.	
HATECKE	Rescue Boat / Davit Launched Liferaft / Lift Over Centre Automatic: SIMPLEX 2.0I OFF LOAD Series.		
HATECKE (ERNST HATECKE)	Devices For Activating Release: Central Release Unit: DUPLEX<6T Series, DUPLEX>6T Series.		
	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.		
	Fast Rescue Boat Offload with Onload Capability: SIMPLEX 1,85 Series.		
	Free Fall 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<6.6T Series.		

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On-Load Release Gear	HATECKE (ERNST HATECKE)	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, HMK ST3,5 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, HS520 96 Series, HS650 96 Series.	
		Devices For Activating Release: Hydrostatic Unit with Diaphragm: HS Series, HS520 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.	
IHI MARINE 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.		

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On-Load Release Gear	JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD (JIANGYIN XINJIANG F.R.P. CO. LTD)	Devices For Activating Release: Central Release Unit: JX-1 Series, JX-1B Series, JXN-1B Series, JXN-1C Series.	
		Devices For Activating Release: Free Fall Hydraulic Primary and Secondary: JX-2 Series.	
		Devices For Activating Release: Hydrostatic Unit with Diaphragm: JX-1 Series, JX-1B Series, JXN-1B Series, JXN-1C Series.	
		Fast Rescue Boat Offload with Onload Capability: JXN-3 Series.	
		Free Fall Hydraulic / Mechanical: JX-2 Series.	
		Lifeboat On Load Lift Not Over Centre, Up and Down Pins / Collars: JX-1 Series, JX-1B Series, JXN Series, JXN-1B Series, JXN-1C Series.	
	JIANGSU JIAOYAN MARINE EQUIPMENT CO., LTD	Lifeboat On Load Lift Not Over Centre, Up and Down Pins / Collars: JX-1 Series.	
	JIANGYIN NEPTUNE MARINE APPLIANCE CO., LTD.	Devices For Activating Release: Central Release Unit: NPT-50 Series, NPT-HAN Series, 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-30 HK Series.	
Free Fall 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-HK25F Series.			
Rescue Boat Offload w. Onload Capability: NPT-HK25R Series.			
JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Devices For Activating Release: Central Release Unit: HK Series, JX-1 Series, LB80MR Series.		

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On-Load Release Gear	JIANGYIN WOLONG F.R.P. BOAT CO. LTD.	Devices For Activating Release: Hydrostatic Unit with Diaphragm: JX-1 Series, LB80MR Series.	
		Fast Rescue Boat Offload with Onload Capability: HK Series.	
		Free Fall 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, Forward or Reverse Curve to Curve Rotating Cams: LB80MR Series.	
		Lifeboat On Load Lift Not Over Centre, Up and Down Pins / Collars: JX-1 Series.	
		Devices For Activating Release: Central Release Unit: JYB-HK Series.	
	JIANGYINSHI BEIHAI	Devices For Activating Release: Hydrostatic Unit with Diaphragm: JYB-HK Series.	
		Fast Rescue Boat Offload with Onload Capability: JYB-HK Series.	
		Free Fall Hydraulic / Mechanical: JYB-HKF Series.	
LALIZAS	Lifeboat On Load Lift Not Over Centre, Curve to Flat Rotating Cams: JYB-HK Series.		
	Rescue Boat / Davit Launched Liferaft / Lift Over Centre Automatic: LAR 36 Series.		
	Rescue Boat Offload Lift Over Center: LSA-H2,1 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.		

(See next page for further details regarding the approval.)

On-Load Release Gear	NED-DECK MARINE (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	Free Fall Hydraulic / Mechanical: JX-2 Series.	
	NISHI-F CO., LTD. (EX. ISHIHARA DOCKYARD, NISHI-NIPPON)	Devices For Activating Release: Central Release Unit: IHM 12 Series, IHM 13 Series, NS Series.	
		Devices For Activating Release: Free Fall Hydraulic Primary and Secondary: F Series, ML Series.	
		Devices For Activating Release: Hydrostatic Unit with Float: IHM 12 Series, IHM 13 Series, NS Series.	
		Free Fall 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 Onload Capability: JXN-3 Series.		
NORMAR	Free Fall Hydraulic / Mechanical: JX-2 Series.		
NORSAFE	Lifeboat On Load Lift Not Over Centre, Forward or Reverse Curve to Curve Rotating Cams: TOR MK 2-S/6 TON Series.		
OPTIMUM 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.		
	Devices For Activating Release: Free Fall Hydraulic Primary and Secondary: FFH Series, NPT Series.		
	Fast Rescue Boat Offload / Manual or Automatic: CAR-35F Series.		
	Free Fall Hydraulic / Mechanical: FFH Series.		

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On-Load Release Gear	PALFINGER	Rescue Boat / Davit Launched Liferaft / Lift Over Centre Automatic: CAR-35 Series.	
		Rescue Boat Offload w. Onload Capability: RRH Series.	
	PESBO S.A	Free Fall Hydraulic / Mechanical: BSL Series.	
		Devices For Activating Release: Central Release Unit: BG Series.	
	QINGDAO BEIHAI SHIPBUILDING HEAVY INDUSTRY CO. LTD.	Devices For Activating Release: Hydrostatic Unit with Diaphragm: BG Series.	
		Free Fall 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 Series, SZK-25M Series, SZK-30 Series, SZK-5 Series.		
SURVITEC	Devices For Activating Release: Central Release Unit: SAFELAUNCH Series.		
	Devices For Activating Release: Hydrostatic Unit with Diaphragm: SAFELAUNCH Series.		

(See next page for further details regarding the approval.)

On-Load Release Gear	SURVITEC	Lifeboat On Load Lift Not Over Centre, Forward or Reverse Curve to Curve Rotating Cams: SAFELAUNCH Series.	
		Rescue Boat / Davit Launched Liferaft / Lift Over Centre Automatic: SLA 3.5 Series.	
	SURVIVAL SYSTEM INT.	Devices For Activating Release: Central Release Unit: SURESAFE Series, TRIPLE 5 Series, TRIPLE 5 LX Series.	
		Lifeboat On Load Lift Over Centre: SURESAFE Series, TRIPLE 5 Series, TRIPLE 5 LX Series.	
	T-ISS	Rescue Boat / Davit Launched Liferaft / Lift Over Centre Automatic: 31-37KN 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.	
	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: Free Fall Hydraulic Primary and Secondary: TWISTLOCK Series.		
	Free Fall 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.		

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On-Load Release Gear	VIKING (NADIRO)	Lifeboat On Load Lift Over Centre: DIB Series.	
	VIKING (NORSAFE)	Devices For Activating Release: Central Release Unit: NADIRO D.I.B Series, TOR MK 1 Series, TOR MK 2 Series.	
		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, NFFH Series.	
		Devices For Activating Release: Hydrostatic Unit with Diaphragm: TOR MK 1 Series, TOR MK 2 Series.	
		Fast Rescue Boat Offload: K4 Series.	
		Free Fall 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: 25KN-30KN Series, 31KN-37KN Series.		
	Rescue Boat Offload w. Onload Capability: 15KN Series.		
WUXI WENJIAO	Fast Rescue Boat Offload with Onload Capability: HK Series.		
WUXI XINGSHEG	Rescue Boat / Davit Launched Liferaft / Lift Over Centre Automatic: XS Series.		
	Rescue Boat Offload Lift Over Center: XS15 Series.		

(See next page for further details regarding the approval.)

On-Load Release Gear	ZHENJIANG WANTONG HEAVY INDUSTRY CO., LTD	Fast Rescue Boat Offload with Onload Capability: HK Series.	
		Free Fall Hydraulic / Mechanical: HK Series.	
	ZHENJIANG MARINE AUXILIARY MACHINERY WORKS	Fast Rescue Boat Offload with Onload Capability: HK40 Series.	
		Lifeboat On Load Lift Not Over Centre, Curve to Flat Rotating Cams: HK Series.	

Application/Limitation:

1. Any change of facilities or deficiency in operating system of the service supplier having effect on quality of the service may render this Certificate invalid.
2. Periodical audit will be carried out by the Society to ensure the performance of service provider.
3. This certificate is valid until subject to the licenses issued by each manufacturer as listed in the appendix remaining valid.

This certificate means that the company has been assessed in accordance with CR Guidelines and found capable of providing the listed service. It is the Service Supplier's responsibility to employ, train and qualify persons in the provided service. If the service requires approval from manufacturers, the Service Supplier is responsible to maintain contact with the manufacturer and maintain any servicing manuals or work procedures up to date.