



Appendix to ABS External Specialist Certificate Number: 21-4878919-A

Company Name: DEL-MAR DENIZDE GUVENLIK SIS. TAS. SAN. LTD. STI

This company has obtained authorization on the following equipment to be examined, tested, repaired and overhauled as outlined in MSC.402 (96). Unless specially directed by the Administration, this external specialist certificate is not to be construed as a substitute for a flag Administration's approval for the purpose of SOLAS. Accepted according to Lifesaving equipment types under MSC.402(96) (Annex, Section 7) & IACS UR Z17 Latest Edition.

Manufacturer	Type of Equipment	Model No./ Make	Comments
SURVIVAL CRAFT	ISO/PAS 23678:2019 TYPE	Type/Model	
AVON BALDEN	Rescue boat, single fall Rescue boat, single fall	SR-series BD-series	
DSB ENGINEERING CO.	Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Fast rescue boat, single fall	420 series; 3,90 series IRB; RB; DSB; SR DSB DSB DSB DSB	
ERNST HATECKE	Totally enclosed lifeboat, twin fall Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, free fall Totally enclosed lifeboat, twin fall Fast rescue boat, single fall Partially enclosed lifeboat, twin fall	GFF; GSL RB; RB400; LB; GSL; PL; GFF GFF; FFB; FF; Ernst Hatecke F GLS; GF; GSL; PEL; GFF; GSA R FRB PEL; PL	NA
ERNST HATECKE GMBH	Rescue Boat, single fall Totally enclosed lifeboat, free fall	FRB; RB GFF	
FASSMER	Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Fast rescue boat, single fall Partially enclosed lifeboat, twin fall Totally enclosed lifeboat, twin fall	RB; RR; MOB GAR; CFL; GMR; Dragon; CL; CLR; TGMR; CLR-T; CL-T GMR; CFL; Dragon; CL; CLR; CLR-C; CL-C; GAR GAR; CFL; GAR-T; CFL-C FFB; CFL- C66E FRR; FR(I)B; FRB; RR SEL; PL; CL-P; SEL-T; SEL-R GMR	
FR. FASSMER GMBH	Totally enclosed lifeboat, free fall	GAR	
GEPA	Totally enclosed lifeboat, free fall Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Dry version	G-FFF; G-FFF-FP G-RB G-F3K; G-F4K; G-F6K	

	Totally enclosed lifeboat, twin fall, Tanker version Partially enclosed lifeboat, twin fall Open lifeboat, twin fall Fast rescue boat, single fall	G-F3K-FP; G-F4K-FP; G-F6K-FP G-F3YK; G-F3YK-T; G-F4YK; G-F6YK G-F G-FRB
GREBEN VELA LUKA CROATIA	Totally enclosed lifeboat, free fall Rescue Boat, single fall	FFL RB
GREBEN	Rescue Boat, single fall Totally enclosed lifeboat, free fall	RB; BR FLL
HARDING	Rescue Boat, single fall Totally enclosed lifeboat, free fall Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Fast rescue boat, single fall Totally enclosed lifeboat, twin fall	MOB; RRB KISS 800 MC; MCR MCM; M.C.B.C; M.C.B.R.C; LBT NPDS MCM
HARDING WATERCRAFT	Open lifeboat, twin fall	MK IV
HARDING SAFETY A/S	Totally enclosed lifeboat, free fall Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Tanker version	LBF; FF RRB MCB
HLB (Ex-HYUNDAI LIFEBOATS)	Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Rescue Boat, single fall Fast rescue boat, single fall Totally enclosed lifeboat, twin fall Partially enclosed lifeboat, twin fall	HGD; HDFL; HD; HDL; HLB HD; HDL; HLB; HDFL; HDF HDFL; HDFN FF; HDF HDR HDF R HDL; HD-HD
HYUNDAI LIFEBOATS CO.	Totally enclosed lifeboat, free fall	HDF
IHI CRAFT CO.	Totally enclosed lifeboat, twin fall, Dry version	GTC
IHI MARINE UNITED CO.	Rescue Boat, single fall Totally enclosed lifeboat, free fall Totally enclosed lifeboat, twin fall	MU-GJ MU-FF/FN GTR
ISHIHARA DOCKYARD CO.	Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, free fall Rescue Boat, single fall	G; ML; F G; ML; F G; ML; F G; ML; F
JAPAN MARINE UNITED CORP.	Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Open lifeboat, twin fall Rescue Boat, single fall	GF; GTR; GTC GF; GTR; GTC; MU-FN MU-FF S; G MU-GJ
JIANGSU JIAOYAN MARINE EQUIPMENT	Rescue Boat, single fall Totally enclosed lifeboat, free fall Totally enclosed lifeboat, twin fall, Tanker version	GJ; FRP GJ; JY-FN; JYM-FN; JY; FN; FW; JYN-FN; JY-FF; JYM-FF; SY-FN; FRP; JYM series; JY-FF JY-QFP; JY; JY-QFN; JY-QF; GJ; JY-FF; JY-QFN

	Totally enclosed lifeboat, twin fall, Dry version Fast rescue boat, single fall Totally enclosed lifeboat, twin fall	JY; JN; JY-QF; JY-QFP GJ series JYM series; JY-QFP; JY-QFN; JY-FN
JIANGYIN NEPTUNE/MARINE APPLIANCE	Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, twin fall Totally enclosed lifeboat, twin fall, Tanker version Rescue Boat, single fall Totally enclosed lifeboat, free fall	NPT NPT NPT NPT NPT
JIANGYIN NORSAFE	Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Tanker version Fast rescue boat, single fall Partially enclosed lifeboat, twin fall	JYN; GES GES MATRIX; MIDGET JYN; GES MERLIN; FRB MATHILDA
JIANGYIN WOLONG/FRP BOAT CO.	Totally enclosed lifeboat, free fall Totally enclosed lifeboat, twin fall, Dry version Fast rescue boat, single fall Totally enclosed lifeboat, twin fall, Tanker version Rescue Boat, single fall	JY; JY65F JY JY; JY65F JY JY
JIANGYIN XIN JIANG FRP CO.	Rescue Boat, single fall	GJ series
JIANGYINSHI BEIHAI LSA CO.	Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall	SC; LSA series SC45K JYB JYB; JYM JYB JYB
MARITIME PARTNER	Rescue Boat, single fall Fast rescue boat, single fall	SPRINGER series WEEDO; MP; SEABEAR; SPRINGER; ALUSAFE
	Fast rescue boat, single fall	ALUSAFE twin FRB MKII
MONTMONTAZA GREBEN	Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, free fall Rescue Boat, single fall	TEL series FFL; FFL-FP RB
NISHI-F CO.	Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Rescue Boat, single fall Totally enclosed lifeboat, twin fall	G; ML; F G; ML; F G; ML; F G; ML; F CML
NISHI NIPPON FRP SHIPBUILDING CO.	Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Rescue Boat, single fall	G; ML; F G; ML; F G; ML; F G; ML; F
NOREQ	Totally enclosed lifeboat, twin fall, Tanker version Rescue Boat, single fall	LBF; LBT RRB

	Totally enclosed lifeboat, free fall Fast rescue boat, single fall Totally enclosed lifeboat, twin fall, Dry version	LBF FRB LBT; Miriam series	
NORMAR	Totally enclosed lifeboat, twin fall, Fast rescue boat, single fall Totally enclosed lifeboat, twin fall, Tanker version Rescue Boat, single fall Totally enclosed lifeboat, free fall	TELB FRC TELB; FF GRP; FRC ;4.25 Rescue;5.25 Rescue JY-FF; FF;4.9T;5.8T	
NORSAFE/AS	Rescue Boat, single fall Totally enclosed lifeboat, twin fall Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, free fall Fast rescue boat, single fall Totally enclosed lifeboat, twin fall, Dry version Partially enclosed lifeboat, twin fall Open lifeboat, twin fall	Midget; Matrix NDC JYN; GES; TELB; JYN; GES; Mathilda; Miriam; Maud; Maggie; Midget GES; GLS; MK Merlin; Mako; Magnum; Midget Mathilda; JYN; Miriam; Maud; Maggie; Maxima; MKV Minima JYN65F	
PALFINGER	Fast rescue boat, single fall Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, free fall Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Dry version	FRSQ series MCB LBF RSQ; RRB MCB	
PALFINGER MARINE SERVICE	Rescue Boat, single fall	Harding/MOB L series	
PESBO	Totally enclosed lifeboat, twin fall, Dry version Fast rescue boat, single fall Totally enclosed lifeboat, twin fall, Tanker version	BSL BR BSC	
QINGDAO BEIHAI	Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Partially enclosed lifeboat, twin fall Rescue Boat, single fall Fast rescue boat, single fall Totally enclosed lifeboat, twin fall	BH; BH-F BH BH; BO; BH-F6.0; BH-7B BH BH; BH-F; BH-R BH BH	
SURVITEC GROUP	Rescue boat, single fall	HD720I	
SCHAT HARDING	Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall Rescue Boat, single fall Partially enclosed lifeboat, twin fall Fast rescue boat, single fall Totally enclosed lifeboat, twin fall	TECB; KISS; MCB MCD; KISS; MCB FF MOB MPC FRB MCB	
SCHAT WATERCRAFT (PALFINGER)	Totally enclosed lifeboat, free fall	NS	
SEKIGAHARA SEISAKUSHO LTD.	Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version	SH; SFB; SHS; STS; SSS SH; SFB; SHS; STS; SSS	

	Totally enclosed lifeboat, free fall Rescue Boat, single fall	SFS; SFA; SFB; SFC; SFD SJS; SJR	
SHIGI SHIPBUILDING CO.	Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Rescue Boat, single fall Open lifeboat, twin fall Totally enclosed lifeboat, free fall Totally enclosed lifeboat, twin fall	SZ; FEL; GARS SZ; FEL; GARS SZ; VOX; BOX Open series SZ; FEL; GARS SZ	
TSUNEISHI FACILITIES & CRAFT CO.	Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, twin fall, Tanker version	KL; TL-TE; TL-FP KL; TL-FP	
VANGUARD (NANTONG)	Totally enclosed lifeboat, free fall Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Dry version	VG VG VG-FC	
VIKING	Rescue Boat, single fall	GRP; 470; RB; Midget; Narwhal; MOB; 420; 470GRP; Valiant	
	Totally enclosed lifeboat, twin fall, Tanker version Partially enclosed lifeboat, twin fall	MCB LB	
WATERCRAFT HELLAS	Totally enclosed lifeboat, twin fall	MKV	
WATERCRAFT INTERNATIONAL	Totally enclosed lifeboat, twin fall, Dry version	MK II	
WUXI HAIHONG	Fast rescue boat, single fall Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall	GJ GJ HH HH HH HH	
ZHENJIANG MARINE AUXILIARY	Rescue Boat, single fall Totally enclosed lifeboat, free fall Rescue Boat, single fall Fast rescue boat, single fall	BH GES-18; YH series; YH series; YH series	
LAUNCHING APPLIANCES Make	ISO/PAS 23678:2019 TYPE	Type/Model	
ACTA	Single Arm Slewing Gravity free fall primary Gravity Single & Twin Fall Outrigger Free fall hydraulic/el secondary	DR; NDA; MDE; MOB; HSC; DC; MOB; HYO electrically HSC MOB luffing 0625 HTD	NA
ACEBI	Hydraulic/el Pivoting & Luffing Gravity Single & Twin Fall Outrigger	SPG-20-I RRP-76-RAD-01	
ARIM MACHINERY & ENGINEERING CO.	Hydraulic/el Pivoting & Luffing	ARPV series, SKH series	
A-TECH	Gravity Roller Track Single Arm Slewing Free fall hydraulic/el secondary	RLD-series Single Arm HD-series	

BADA HEAVY IND.	Hydraulic/el Pivoting & Luffing Gravity Roller Track Gravity Single & Twin Fall Outrigger Free fall hydraulic/el secondary Single Arm Slewing A-frame hydraulic / single arm / Telescopic	BDH; BDTD; BDHP; BDM BDTW; BDRW; BDH BFOD; BDH; BDHP HDFL; HDF; BDF BDR; BDL; BHI BDA; BDFA
BOLIN MACHINERY	Single Arm Slewing	BL-series
DAVIT COMPANY	Single Arm Slewing Hydraulic/el Pivoting & Luffing Gravity Roller Track	MOB; FM NOP Gravity quadrant; AMS
DAVIT INTERNATIONAL	Gravity Single & Twin Fall Outrigger Hydraulic/el Pivoting & Luffing Free fall hydraulic/el secondary Gravity free fall primary A-frame hydraulic / single arm / Telescopic Single Arm Slewing	D-HP; D-NP; D-FO D-CRC; D-CRM; D-BR; D-NPS D-FH; D-HF; D-FN; D-FH60 D-FS D-CRRC D-CR; D-CRMR; D-CRM; D-RC; D-RF; D-RT; D-FG; D-F; D-BC; D-; D-CRC; D-FH; RH20; D-CRM-R; D-RCS; D- BR; D-BCR D-RT
DAVIT INTERNATIONAL GMBH	Free fall hydraulic/el secondary	D-FH
DONGNAM MARINE	Single Arm Slewing Gravity Single & Twin Fall Outrigger Hydraulic/el Pivoting & Luffing	D-SAD; DR; DSAD; DRBD; DNRD HF36-HF38 DCPV; DSAD; DHGD; DHG; Hinged Davit; DLWB DBD; DBS; Hinged gravity davit
DONGWOO MACHINE ENGINEERING	Gravity Single & Twin Fall Outrigger Hydraulic/el Pivoting & Luffing Single Arm Slewing	DWS; Hinged gravity Life Rafts
EFFER	Single Arm Slewing	65000-5SL
ERNST HATECKE	Free fall hydraulic/el secondary Gravity free fall primary Gravity Single & Twin Fall Outrigger Single Arm Slewing Gravity Roller Track Hydraulic/el Pivoting & Luffing A-frame hydraulic / single arm / Telescopic	FFA; FFD; FFB; GFF FFB; FFA GSPFP; GSP RHS.L Free fall ramp; GSPFP GSP; GSPFP DFR
FASSMER	Free fall hydraulic/el secondary Hydraulic/el Pivoting & Luffing Single Arm Slewing A-frame hydraulic / single arm / Telescopic Gravity free fall primary Gravity Single & Twin Fall Outrigger	FFH; FFB FSARR; FMPD; FHD; FPD FSAR; FSARR FOD; FFH FLR; FFH FOD
GLOBAL DAVIT	Single Arm Slewing Hydraulic/el Pivoting & Luffing Free fall hydraulic/el secondary A-frame hydraulic / single arm / Telescopic Gravity Single & Twin Fall Outrigger Single Arm Slewing	RHS; RMS; RHD; RMD; LMS; LHS; RHS.HC; FHS; RHP; RHT; RSP; RHS.L; RMS.L; Glp.MP.170 RHP; GSP; GLP RHS FHS; RHP; RSP; HC LGP RHS

GREBEN VELA LUKA	Single Arm Slewing	PH
GURDESAN	Free fall hydraulic/el secondary Single Arm Slewing Gravity free fall primary	GD FFD; GD-FF; NFFH; GD-FFD; GD-KV GD-KHK; GD-RRS GD-FFD; GD-SK
HARDING	Free fall hydraulic/el secondary Single Arm Slewing Gravity Single & Twin Fall Outrigger Hydraulic/el Pivoting & Luffing A-frame hydraulic / single arm / Telescopic	LA SRR; FR VIP SPR; NPD; NPDS NPDS
HYDRALIFT	Single Arm Slewing A-frame hydraulic / single arm / Telescopic Hydraulic/el Pivoting & Luffing	HL6D; HL HL HL
IHI	Free fall hydraulic/el secondary	SH40, SC033
IKNOW MACHINERY CO.	Hydraulic/el Pivoting & Luffing Gravity Roller Track	H; TC T
JAPAN MARINE UNITED CORP.	Hydraulic/el Pivoting & Luffing Free fall hydraulic/el secondary Single Arm Slewing	MUL MUF MUR
JIANGSU JIOYAN MARINE EQUIPMENT	Free fall hydraulic/el secondary Gravity free fall primary Single Arm Slewing Hydraulic/el Pivoting & Luffing Gravity Single & Twin Fall Outrigger A-frame hydraulic / single arm / Telescopic	JYF 105; JY; JYM JY; FW; JYRC; JYR; JYF; FN JY; JYR JY; JY-HG JYL JYH
JIANGYINSHI BEIHAI LSA CO.	Free fall hydraulic/el secondary Hydraulic/el Pivoting & Luffing Single Arm Slewing Gravity Single & Twin Fall Outrigger	JYB; SM; FA Gravity Luffing Arm Type Davit SINGLE ARM RESCUE BOAT/RAFT DAVIT BHG 170
JIANGYIN NEPTUNE MARINE APPLIANCE	Gravity Single & Twin Fall Outrigger Single Arm Slewing Free fall hydraulic/el secondary	NPT OR; NPT NPT
JIANGYIN NORSAFE	Free fall hydraulic/el secondary Gravity free fall primary Hydraulic/el Pivoting & Luffing Single Arm Slewing	HD FRP NOSC NOSC; MOB
JIANGYIN XINJIANG	Gravity Roller Track Free fall hydraulic/el secondary Single Arm Slewing	JYL JYF JYR; JYFR
MANSEI INDUSTRY CO.	Hydraulic/el Pivoting & Luffing Gravity free fall primary Gravity Roller Track Gravity Single & Twin Fall Outrigger Single Arm Slewing Free fall hydraulic/el secondary	M; EH; E; N Gravity series N; M; EH; N; Gravity hinged type M M; EH SR; S; R; N; N DH; D-FH; M-FH; N; N
MIURA VIDER	Gravity Single & Twin Fall Outrigger Hydraulic/el. Pivoting & luffing	MVD MV

MONTMONTAZA GREBEN	Gravity Roller Track Free fall hydraulic/el secondary Gravity Single & Twin Fall Outrigger A-frame hydraulic / single arm / Telescopic Single Arm Slewing	SPG FFL; HW RC HFF; SPG(GA) EW; RID; RLC; PHA; HPRLC
NAVALIMPIANTI	Hydraulic/el Pivoting & Luffing Gravity Single & Twin Fall Outrigger	GDMP GDET; NPS
NED DECK MARINE	Hydraulic/el Pivoting & Luffing Single Arm Slewing Free fall hydraulic/el secondary A-frame hydraulic / single arm / Telescopic	PRH; SCM SCM; SCH; SCT; MS; SCHD; HS; RTD FFH PRH
NINGBO KAIRONG	Free fall hydraulic/el secondary Single Arm Slewing	FFD; HW C series
NINGBO ASIA FRP BOAT MANUFACTURING CO.	Rescue Boat, single fall Totally enclosed lifeboat, twin fall, Tanker version Totally enclosed lifeboat, twin fall, Dry version Totally enclosed lifeboat, free fall	YZ YZ YZ YZ
NOR DAVIT	Hydraulic/el Pivoting & Luffing Gravity Single & Twin Fall Outrigger	SSP - RD E21
NOREQ	A-frame hydraulic / single arm / Telescopic Hydraulic/el Pivoting & Luffing	SDP-6 NPD; NDP; LBT
NORSAFE	Free fall hydraulic/el secondary Single Arm Slewing A-frame hydraulic / single arm / Telescopic Hydraulic/el Pivoting & Luffing	HD; FFA; FF NDSC; SAFC; SAF; NDSC-R; NRC NDA TOR MK2
ORIENTAL PRECISION & ENGINEERING CO.	Free fall hydraulic/el secondary Single Arm Slewing Hydraulic/el Pivoting & Luffing Gravity Roller Track Gravity Single & Twin Fall Outrigger Gravity free fall primary	FD RD; RTD HGD; SHS; RTD; SWE; DMA; DHA; RD; RDW RTD; HGD; SHS HGK; RTD; DHA; DMA WL
PALFINGER	Gravity free fall primary Hydraulic/el Pivoting & Luffing A-frame hydraulic / single arm / Telescopic Single Arm Slewing	FF PRM; PRH; PFH NPDS SCM; SCHD
PALFINGER NED-DECK BV	Free fall hydraulic/el secondary	FFH
QINGDAO BEIHAI	Gravity Single & Twin Fall Outrigger Hydraulic/el Pivoting & Luffing Gravity free fall primary Free fall hydraulic/el secondary Single Arm Slewing	BD BD BD BD; BH BD; SA
SCHAT HARDING	Gravity free fall primary Free fall hydraulic/el secondary Hydraulic/el Pivoting & Luffing	FF; UZ; HD SA; TME; FF; LA; RSD SPG; RSD; VIP; NPD; SPG lifeboat davit; VIP 8

	Single Arm Slewing Gravity Single & Twin Fall Outrigger Gravity Roller Track A-frame hydraulic / single arm / Telescopic	SPR; SSR; SRR; RSD; SPMOB; PAR; E VIP; GSP; PAR15; SPR NT; SPG lifeboat Davit NPDS	
SEKIGAHARA SEISAKUSHO LTD.	Hydraulic/el Pivoting & Luffing Free fall hydraulic/el secondary Single Arm Slewing Gravity Single & Twin Fall Outrigger Gravity free fall primary	SH; SFB; SHS; STS; SSS SFS; SFA; SFC; SFD SJS; SJR; S SHS; SHN SHS	
SEZAMOR	Hydraulic/el Pivoting & Luffing Single Arm Slewing Free Fall hydraulic/electric secondary	ZOK; ZZ-ZU; ZZ-ZU2 ZOL; ZZ; ZZ-ZOT; ZZ-ZOL; ZZ-ZOLT PB - series	
SHIGI	Gravity Single & Twin Fall Outrigger	MFH-S600	
SHEYANG SAIFUTE	Single Arm Slewing Hydraulic/el Pivoting & Luffing Free fall hydraulic/el secondary	14KN; 21KN N/A 55KN	
SORMEC	Single Arm Slewing	M330 -RB	
TSUJI HEAVY INDUSTRIES	Gravity Roller Track Hydraulic/el. Pivoting & luffing	N/A H; EB	
TTS	A-frame hydraulic / single arm / Telescopic Single Arm Slewing	HL; HP HL	
VEST DAVIT	A-frame hydraulic / single arm / Telescopic Gravity Single & Twin Fall Outrigger	PLR; C; PL; PLRS TDB	
VIKING NORSAFE	Single Arm Slewing Hydraulic/el Pivoting & Luffing	NRC NRC	
WUXI DONGWU MARINE	Hydraulic/el. Pivoting & luffing Free Fall hydraulic/electric secondary	50KN; 60KN F55; F70	
WUXI HAIDELONG MARINE	Single Arm Slewing	SA series	
WUXI HUAHAI MARINE EQUIPMENT	Single Arm Slewing Hydraulic/el. Pivoting & luffing	HMCD; HMD; HM HMD	
YOUNG NAM MACHINERY CO.	Gravity Roller Track Hydraulic/el Pivoting & Luffing	YNBD YNHD; YNBD	
ZHENJIANG MARINE AUXILIARY MACHINE WORKS	Hydraulic/el Pivoting & Luffing Free fall hydraulic/el secondary Gravity Single & Twin Fall Outrigger Gravity free fall primary A-frame hydraulic / single arm / Telescopic Single Arm Slewing Gravity Roller Track	LE; SAFC; SAF; SAPC; GL FH; F; FR LE; HDC; HDCL; PL FW SHA; LFR; PR SAFC; SA; SH; SAF; HDCL HE; RE; Gravity type Davit	
RELEASE GEAR Make	ISO/PAS 23678:2019 TYPE	Type/Model	
BADA HEAVY IND. CO. LTD.	Fast rescue boat offload Free fall hydraulic	BDR; BHR BHA	NA

BC SERVICE	Lifeboat onload lift not over center Davit launched liferaft automatic Lifeboat onload lift not over center, Flat to flat rotating cams	U-Hook U-Hook U-Hook	
CAR 35	Rescue Boat automatic	Car 35 series	
DAVIT COMPANY	Lifeboat offload release lift over center	AMS	
DAVIT INTERNATIONAL	Rescue Boat offload w. onload Capability Rescue Boat offload Free fall hydraulic	RH; RB; OLH; Offload series OHL; OLH ALH	
ERNST HATECKE	Free fall hydraulic Rescue Boat offload w. onload Capability Lifeboat onload lift not over center Rescue Boat offload Lifeboat onload lift not over center, Curve to flat rotating cams Fast rescue boat offload	F; FF; GFF; Free fall hydraulic SIMPLEX; DUPLEX Duplex SIMPLEX; DUPLEX Off load with onload capability Simplex 2.0; Simplex	
ERNST HATECKE/SIMPLAX	Fast rescue boat offload	Ernst Hatecke/SIMPLAX series	
FASSMER	Lifeboat onload lift not over center Lifeboat onload lift not over center, Curve to flat rotating cams Lifeboat onload lift not over center, Curve to curve rotating cams Lifeboat offload release lift over center Free fall hydraulic	DUPLEX; Duplex 2,5 DUPLEX DUPLEX; FSAR FF F; Gar	
GLOBAL DAVIT	Rescue Boat offload Rescue Boat offload w. onload Capability Davit launched liferaft automatic Rescue Boat automatic	HRN; HRL HR HRL Automatic series; HRL	
HARDING	Rescue Boat offload Lifeboat onload lift not over center Rescue Boat offload w. onload Capability Fast rescue boat offload Lifeboat offload release lift over Center	ARH; Harding series; RRH15 RRH25 RRHIS; ARH Combined automatic/offload series Offload twin hooks series; LHR9M2	
HARDING BJORKE	Lifeboat onload lift over center	Offload twin hooks	
HARDING SAFETY A/S	Painter line	Painter series	
HATECKE	Free fall hydraulic Lifeboat onload lift over center Lifeboat onload lift not over center, Curve to flat rotating cams Lifeboat onload lift not over center, Curve to curve rotating cams Rescue Boat offload Lifeboat onload lift not over center	Hydraulic series; SIMPLEX; Hydraulic release series Rafti series DUPLEX series DUPLEX series Simplex; SIMPLEX Cylinder type	
HENRIKSEN	Fast rescue boat offload Rescue Boat offload Rescue Boat automatic	HMK; HCH; HMKST HMK; HMKST HMK; HCH HCH	
HLB (Ex-Hyundai Lifeboats)		Talon II; Talon	

	Lifeboat onload lift not over center, Curve to flat rotating cams Free fall hydraulic Lifeboat onload lift not over center, Flat to flat rotating cams Lifeboat onload lift not over center Lifeboat offload release lift over center	THP; Talon Talon BD; HD; BH; BF; Talon; Talon II Offload release hydrostatic; Talon II
HYUNDAI		BH; BF
HYUNDAI LIFEBOATS CO.	Lifeboat onload lift not over center	Talon series
IHI CRAFT CO.	Lifeboat onload lift not over center, Flat to flat rotating cams Lifeboat onload lift not over center, Curve to flat rotating cams	Mark series
INDUSTRIA FERRI		1448 TN 2500 series
JIANGSU JIOYAN MARINE EQUIPMENT	Rescue Boat automatic Free fall hydraulic Fast rescue boat offload	JXN-3; JX-5; JX-2; Talon FF; JXN; HK; JX; JX-4; free fall; JX-2; Hydraulic release Hook
	Lifeboat onload lift not over center Free fall hydraulic Lifeboat onload lift not over center, Up & down pins Lifeboat onload lift not over center, Flat to flat rotating cams Lifeboat onload lift not over center, Curve to flat rotating cams Rescue Boat offload w. onload Capability Lifeboat offload release lift over Center Lifeboat onload lift over center	JXN; JX-1; JX; JX JXN; 3XN-1C; JXN-JC JY Offload hooks; JXN-3; JXN-3 JX; JX-3 JX-1
JIANGYIN NEPTUNE MARINE APPLIANCE	Free fall hydraulic Lifeboat onload lift not over center, Up & down pins Rescue Boat offload w. onload Capability	NPT; free fall hydraulic; Hydraulic NPT
JIANGYIN NORSAFE	Lifeboat onload lift not over center, Flat to flat rotating cams Free fall hydraulic	K4 series HK56 GES; Hydraulic series; NFFH
JIANGYINSHI BEIHAI LSA CO.	Free fall hydraulic Rescue Boat offload w. onload Capability Davit launched liferaft automatic Lifeboat onload lift not over center, Flat to flat rotating cams Fast rescue boat offload Lifeboat offload release lift over Center Lifeboat onload lift over center	JYB HK; JYBHK; JYBHKF JYBHK HK JYBHK; HK JYB HK JYBHK HK56
MANSEI INDUSTRY CO.	Rescue Boat offload w. onload Capability	RH
MILLS	Davit launched liferaft automatic	TITAN
NADIRO	Lifeboat onload lift over center	DIB; DIB 32
NAVALIMPIANTI	Fast rescue boat offload	RH 3000
NED DECK MARINE	Davit launched liferaft automatic Rescue Boat offload w. onload Capability Rescue Boat automatic	CAR; CAR 35 CAR CAR

NPT	Free fall hydraulic	HK336
NOREQ	Free fall hydraulic	LBF series
NISHI-F	Free fall hydraulic	IHM12; CML; NS
NORSAFE	Lifeboat onload lift not over center Free fall hydraulic Rescue Boat offload Lifeboat onload lift not over center, Curve to flat rotating cams Lifeboat onload lift not over center, Flat to flat rotating cams Fast rescue boat offload Rescue Boat offload w. onload Capability Lifeboat offload release lift over center	Tor; Tor MK; K4 FM; Tor MK2; 7T GES; FF; Sim; NFH KD; K4-FM; HK MK; NFH MK-; MK-2; CN4495/CN4494 K4-D; K-4-FM; K4D RRH 15 Tor VK2; K4
NORSAFE AS.	Fast rescue boat offload Lifeboat onload lift over center	K-4-FM Hydraulic series
PALFINGER	Davit launched liferaft automatic Lifeboat offload release lift over Center Free fall hydraulic Rescue Boat automatic Rescue Boat offload w. onload Capability Rescue Boat offload Fast rescue boat offload	CAR; CAR 35; combined Automatic/offload series FFH CAR CAR; CAR 35 CAR; RRH MOB CAR 35F; Fast RSQ; CAR F 35
PALFINGER NED DECK CAR 35	Rescue Boat automatic	CAR series
QINGDAO BEIHAI	Lifeboat onload lift not over center Lifeboat onload lift not over center, Flat to flat rotating cams Lifeboat onload lift not over center, Up & down pins Lifeboat onload lift over center Lifeboat offload release lift over Center Free fall hydraulic Rescue Boat offload Rescue Boat offload w. onload Capability Lifeboat onload lift not over center, Curve to flat rotating cams	BG; BHH; BH; FS BG; BHH BHH; BG-3 BG-3 BG BG-3F BG BG-3 BG-3F
SCHAT HARDING	Rescue Boat offload w. onload Capability Lifeboat onload lift not over center, Flat to flat rotating cams Lifeboat onload lift not over center, Curve to curve rotating cams Free fall hydraulic Lifeboat onload lift not over center, Up & down pins Lifeboat offload release lift over Center Fast rescue boat offload Rescue Boat automatic Lifeboat onload lift not over center Rescue Boat, single fall Davit launched liferaft automatic	RRH; ARH; MOB; SSR; RRH 15 FFH LHR ARH; H86 50-85 series H-36-M; FFH RH; RRH ARH; CAR 35 KH; LHR9M2 RRH 25 ARH
SCHAT WATERCRAFT(PALFINGER)	Free fall hydraulic	Free fall hydraulic

SEZAMOR	Davit launched liferaft automatic Lifeboat onload lift over center Rescue Boat offload w. onload Capability	ARH HS HLR	
SHIGI SHIPBUILDING CO.	Davit launched liferaft automatic Lifeboat onload lift not over center, Up & down pins Lifeboat onload lift not over center, Flat to flat rotating cams Lifeboat onload lift not over center	DUPLEX SZK; SZ SRS; SZK	
SIMPLEX	Rescue Boat offload	2.0i series	
SURVITEC	Davit launched liferaft automatic Rescue Boat offload w. onload Capability	SLA Safelaunch SLA 3.5 series	
SURVITEC SURVIVAL CRAFT	Lifeboat onload lift not over center Rescue Boat automatic	Safelaunch 4.5T series Safelaunch SLA	
SURVITEC CRAFT INSPECTORATE	Lifeboat onload lift not over center	Safelaunch series	
SURVIVAL SYSTEMS INTERNATIONAL	Lifeboat onload lift over center Lifeboat onload lift not over center	TRIPLE 5 LX TFLX	
TSUNEISHI FACILITIES & CRAFT	Lifeboat onload lift over center Lifeboat onload lift not over center	43GS-1	
VANGUARD	Lifeboat onload lift not over center, Up & down pins Rescue Boat offload w. onload Capability	SH Spearhead series	
VEST DAVIT AS.	Fast rescue boat offload	Offload TH 5478 series	
VIKING	Rescue Boat automatic Rescue Boat offload w. onload Capability Fast rescue boat offload	CAR HR Viking 1.8 series	
VIKING NADIRO	Lifeboat onload lift over center	DIB	
WATERCRAFT	Lifeboat onload lift over center	TITAN	
WUXI HAI HONG	Lifeboat onload lift over center	HH43, HH65C	
WUXI MINGZI MACHINERY	Lifeboat onload lift not over center, Up & down pins Lifeboat onload lift not over center, Curve to flat rotating cams Lifeboat onload lift not over center Rescue Boat offload w. onload Capability Rescue Boat offload Fast rescue Boat offload	WHK WHK WHK 150-T15 series Offload hooks 250 T series	
ZHENJIANG MARINE AUXILIARY MACHINERY CO. LTD	Hook	HK25/HK/25B/HK40/HK40C/HK65/S H70/SH85	
WINCH Make	ISO/PAS 23678:2019 TYPE	Type/Model	
ABAS	Single drum/gravity lowering/Hydraulic hoisting	MDE	
ACEBI		SPG-20-I; RRP-76-RAD-01	

<p>ACTA</p>	<p>Single drum/gravity lowering/Hydraulic hoisting</p>	<p>KMER</p>	<p>NA</p>
<p>BADA HEAVY INDUSTRY CO.</p>	<p>Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.</p> <p>Single drum</p> <p>Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads</p> <p>Twin drums</p> <p>Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.</p> <p>Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads</p> <p>Single drum</p> <p>Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads</p>	<p>KMER</p> <p>KMER; Single arm</p> <p>Twin drum series</p> <p>BAW; BDF; BLW; BMW; BRW</p> <p>BWL; BWR</p> <p>FHW; PWD</p> <p>BWL</p>	
<p>DAVIT COMPANY</p>	<p>Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads</p> <p>Twin drums</p> <p>Single drum</p> <p>Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads</p> <p>Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads</p>	<p>FB</p> <p>FB; Gravity type series</p> <p>FM</p> <p>Gravity lowering series; AR/V/E series</p> <p>Electric driven series; Manual series</p>	
<p>DAVIT INTERNATIONAL</p>	<p>Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads</p> <p>Single drum/gravity lowering/Hydraulic hoisting</p> <p>Single drum</p> <p>Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads</p>	<p>03.07.02 series</p> <p>06.17.01; 02.09.15;06.05.02 series</p> <p>D-FH; 03.04.04; 06.05.11;06.21.01; 02.11.02;02.13.05; 04.10.05 series; Single drum series D-CRC series</p>	

DONGNAM MARINE	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	04.23.02; 06.05.02; 02.09.15;06.05.11; 03.0404; D-CRM; D-BC; 04.17.02
	Twin drums	D-FH
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	DHGD; HGW; DLBW, HF38
DONWGOO MACHINERY & ENGINEERING CO.	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	DSAD; DRLD; LHRD; DRDB; DSND
	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	DRLD
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads	DBS; DWS; LW; RW
	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	DWS; DWS-10A; Electric driven series
	Single drum/gravity lowering/Hydraulic hoisting	Manual series
ERNST HATECKE	Single drum/gravity lowering/Hydraulic hoisting	BBK
	Single drum	FFA
	Twin drums/gravity lowering/Hydraulic hoisting	FFA
FASSMER	Single drum	DEW--FOD80, FPD80, FHD80, FHD175, FSAR 14, FSAR 21
	Twin drums	DEW; Hydraulic series
	Twin drums/gravity lowering/electric. Hoisting/hydraulic pump lowering brakes	DEW
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	FSARR
FERRI	Single drum	MMI series
GLOBAL DAVIT	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	W02; W04; W07; W08; RMS.L; Single drum gravity series
	Single drum/gravity lowering/Hydraulic hoisting	FHS.S
	Single drum	RMS; FHS.S; RMS.L; Rescue Boat winch series

GREBEN	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	Lifeboat winch series
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	Global series; W02; O2E; RMS.L; RHS.L; Single drum series
	Twin drums	EW; HW SAR
	Single drum	SAR
GURDESAN	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	EW 2; SAR
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	KHK; GD-RRS; Davit winch series
	Single drum/gravity lowering/Hydraulic hoisting	GD-FLW; winch series; single drum series; Free Fall hydraulic Series
	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	GD-FLW
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	GD-PR; GD-RRS
	Twin drums	GD
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes/Multiple disks hydraulically operated Twin drums/gravity lowering/Hydraulic hoisting	Electric driven series Electro-hydraulic series
HARDING	Single drum	Winch series
	Single drum/gravity lowering/Hydraulic hoisting	EW8PL HS
HARDING SAFETY A/S	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	EWO2 PL
HLB (Ex Hyundai Lifeboats)	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	LWO
	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	BA; BM; BW; BL
IHI	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	BR
		MUW 42

HYDRALIFT	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	HL	
	Single drum	SP7-V-2174-2A2 series;3622 series	
HYDRAULIK & MACHINENBAU	Single drum/gravity lowering/Hydraulic hoisting	B series	
HYUNDAI LIFEBOATS CO.	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	HDF	
INI HYDRAULIC	Single drum/gravity lowering/Hydraulic hoisting	Free fall hydraulic series	
	Single drum	ZHP	
	Twin drums	INI hydraulic winch series	
JIANGSU JIOYAN MARINE EQUIPMENT	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes/Multiple disks hydraulically operated	JYFW27 series	
	Single drum/gravity lowering/Hydraulic hoisting	JYW; JYWN	
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	JYRZ; Electro-hydraulic Series; JYR; JYF; FW;Single drum series; N/A series; RZ	
	Single drum	Hydraulic series; FW; single drum series; JYRZ	
	Single drum/gravity lowering/Hydraulic hoisting	JYR; JY; JYRZ	
	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	JY series	
JIANGYINSHI BEIHAI LSA CO.	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	JYB; SM; FA; BHGH170	
JIANGYIN NEPTUNE MARINE APPLIANCE CO.	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	NPT-DW series	
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	NPT	
	Single drum/gravity lowering/Hydraulic hoisting	Single drum series	
JIANGYIN NORSAFE	Single drum		

JIANGYIN XINJIANG	Single drum/gravity lowering/Hydraulic hoisting	FHD	
MACGREGOR	Single drum/gravity lowering/Hydraulic hoisting	JYW70	
MANSEI INDUSTRY CO.	Single drum/gravity lowering/Hydraulic hoisting	MAC series	
	Single drum	M; MW; single drum Series	
	Twin drums	M; EH; MW; SW	
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	EW; MW; SW; N EH; EELF	
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads	M-7S	
	Single drum/gravity lowering/Hydraulic hoisting	Single drum series	
	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	MW; N-716	
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	N-995	
MONTMONTAZA GREBEN	Single drum/gravity lowering/Hydraulic hoisting	Brevini series	
MIURA VIDER CO.	Single drum/gravity lowering/Hydraulic hoisting	RBH-LBH	
NAVALIMPIANTI & TECHNIMPIANTI	Single drum/gravity lowering/Hydraulic hoisting	EW; REW; RBEW; RMW	
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	EWR; DG-EHW	
NED DECK MARINE	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads	WL; 04.03 E QR; 04.03 E	
	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	04.03 E QR	
	Single drum/gravity lowering/Hydraulic hoisting	04.04 E; 04.04.M; Palfinger series	
	Single drum	04.04 E; 04.03 M; 04.03 E	
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads		
	Twin drums	SCH 10-5.2R; SCM	

NINGBO ASIA FRP BOAT MANUFACTURING CO.	Twin drums/gravity lowering/Hydraulic hoisting	04.03 E
	Single drum Twin drums	DS; DZ; Z; YZD; D DS; DZ; Z; YZD; D
NINGBO NEW MARINE LIFESAVING EQUIPMENT	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	NMW
NOREQ	Twin drums	NOREQ series
NORSAFE	Twin drums	DW; HD; hydraulic series
	Single drum	DW; HD; Davit series
ORIENTAL PRECISION & ENGINEERING CO.	Single drum/gravity lowering/Hydraulic hoisting	NWE, LH
	Twin drums/gravity lowering/electric. Hoisting/hydraulic pump lowering brakes	N/A
	Single drum	RDW; WL; SWE; FD; OP
	Twin drums	BWE; SWE; FD
	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	BWE; SWE; RDW
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	BWE; SWE; WL
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	WL; FD; RD; BWE; SWE; RDW; RDW- 23; electrical series
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes/Multiple disks hydraulically operated	BWE; SWE
PALFINGER	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	N series
	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	W, BWF1500,08-02
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes/Multiple disks hydraulically operated	Twin drums series
QINGDAO BEIHAI	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads	BD; BW
		BD; BW

SCHAT COMPANY	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	BD
	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	BD; YSB
	Single drum/gravity lowering/Hydraulic hoisting	BE; BW
	Single drum	BW-LL
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	BW-SC
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	BHA
	Twin drums/gravity lowering/Hydraulic hoisting	N/A
SCHAT DAVIT COMPANY	Single drum	FME 194
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	Manual series; FME; PAR21
	Single drum	BE
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads	FME; FME 194; MOB
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	BE
	Twin drums	BE
	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	2; 3 series; BE series
SCHAT HARDING	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads	BE; W; FME 2.7; WH; FME
	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	BE; W120; FME;08-02; SRR; W120
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	BE; EWO8
	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	
	Single drum/gravity lowering/Hydraulic hoisting	

	Single drum	BE; TW; 08-02; WHO2-LD; FME; HD
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	LW; TW
	Twin drums	TW
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes/Multiple disks hydraulically operated	BE 4,5 series
	Twin drums/gravity lowering/electric. Hoisting/hydraulic pump lowering brakes	BE 4,5 series
	Twin drums/gravity lowering/Hydraulic hoisting	W80L
SCHAT HARDING (PALFINGER)	Single drum	Electrical series
SEKIGAHARA SEISAKUSHO LTD.	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	SWE
	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	SWE
SHIGI	Twin drums	SWE; MSWE
	Single drum	FW-30
TTS MARINE CRANE AS DAVIT	Twin drums	WLT
	Single drum	RL
TSUJI HEAVY INDUSTRIES	Single drum	H-622
	Twin drums	WLZ30; ER1
VEST DAVIT	Single drum/gravity lowering/Hydraulic hoisting	C; PL2000
	Single drum	C
VEST DAVIT AS.	Single drum/gravity lowering/Hydraulic hoisting	C-394-3-V-S series
WUXI DONGWU MARINE EQUIPMENT CO.	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	W series
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	Electric series
WUXI HUAHAI MARINE EQUIPMENT	Single drum	HMCD 20108 series
	Twin drums	

ZHENJIANG MARINE AUXILIARY MACHINE WORKS	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	Electric driven series HM
	Single drum	HYO; winch series;
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	SAFC
	Twin drums/gravity lowering/electric. Hoisting w/holding static brakes with Mechanically operated multiple disks Friction pads	D; DP; 0482; 0482;63Z
	Single drum/gravity lowering/Hydraulic hoisting	Electrically driven; OW
	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	BH-6A; LE65
	Twin drums/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	DP-100S series
ZOLLEM	Twin drums	D48Z; D; twin drums series
	Single drum/gravity lowering/electric. Hoisting w/centrifugal brakes with Friction pads	ZR
	Single drum/gravity lowering/Hydraulic hoisting	SZK
	Single drum	ZHP
	Single drum/gravity lowering/electric. Hoisting w/holding static brakes with Friction pads.	ZR



Certificate Number 21-4878919-B
Effective Date 15-09-2021
Expiry Date 14-09-2024
ABS Port Office ISTANBUL
Company's Website www.delmarsafety.com

CERTIFICATE OF Recognized Service Supplier

This is to certify that

Del-Mar Denizde Guvenlik Sistemleri Tasimacilik Sanayi ve Ticaret Ltd.Sti.

located at

Aydinli Mah.Beyoglu San.Sitesi E2 Blok No.30, 34953 Tuzla-Istanbul / Turkey

having been audited by ABS and having given a satisfactory practical demonstration of the service listed below, is recognized by ABS as a Service Supplier to provide services which ABS Surveyors may rely on to make decisions affecting classification or statutory surveys.

Fire Extinguishing Systems Inspection/Maintenance

Attached Certificate Appendix provides specific scope of approval, authorized personnel, manufacturer authorizations, and subcontractors.

It is the responsibility of the Service Supplier to employ, train and qualify persons in the service provided. If the service requires approval from manufacturers, the Service Supplier is responsible to maintain contact with the manufacturer and maintain any service manuals up to date. Where required by the category of service, the Service Supplier shall provide valid evidence that it is authorized or licensed by the equipment manufacturer to service the makes and models of equipment for which approval is sought. If approval from the manufacturer is not attained, a surveyor must be present at time of survey to continue work. Alternatively, current written instructions from the flag state are to be obtained to continue work without the surveyor present. Service Suppliers must present photo identification, evidence of qualification and authorizations from manufacturers, as applicable, at the time of service.

The ABS office issuing this certificate is to be kept updated with changes to the management of the company, employees, equipment and models on the authorization list and any changes made.



EVREN ERDIR, Surveyor



TERMS AND CONDITIONS

The issuance and interpretation of this Certificate of Service Recognition (hereinafter referred to as "certificate") is subject to the following terms and conditions.

1. REPRESENTATIONS AS TO SERVICE RECOGNITION

The Certificate is a representation only that the specified Company has been audited by ABS and has given a satisfactory practical demonstration of the listed services which ABS Surveyors may rely on to make decisions affecting classification or statutory surveys and is issued solely for the use of ABS and its committees. The validity, applicability and interpretation of this certificate are governed by the Rules, Guides, or standards of ABS who shall remain the sole judge thereof.

2. RESPONSIBILITY AND LIABILITY

The Company is not a subcontractor of ABS and is not an agent of ABS for any purpose. The Company remains solely responsible for its equipment, the qualifications and competency of its personnel, the supervision of its personnel, and the safety of its personnel while performing its services. Nothing contained in this certificate or any letter or report issued in contemplation of this certificate shall be deemed to relieve Company or any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied nor to create any interest, right, claim or benefit in any third party. It is understood and agreed that nothing expressed herein is intended or shall be construed to give any person, firm or corporation, other than the parties hereto, any right, remedy or claim hereunder; all provisions hereof are for the sole and exclusive benefit of the parties hereto.

3. LIMITATION

ABS makes no representations beyond those contained herein regarding its reports, letters, audits, certificates or other services.

4. HOLD HARMLESS

The party to whom this certificate is issued, and his assignee and successor in interest, agree to indemnify and hold harmless ABS from and against any and all claims, demands, lawsuits, or actions for damages, including legal fees, to persons and property, tangible, intangible, or otherwise which may be brought against ABS incidental to, arising out of or in connection with the work done, services performed or material to be furnished under this certificate, except for those claims caused solely and completely by the negligence of ABS, its agents, employees, officers, directors or subcontractors.

Company shall defend, indemnify, and hold harmless ABS and its affiliates from and against any and all third party claims and

liabilities (including, without limitation, reasonable attorneys' fees and costs), regardless of the form of action, arising out of or in connection with a claim that the service(s) offered by Company for which Company has sought recognition from ABS, infringes, violates, or misappropriates a valid third party patent, copyright, or other proprietary right, provided that Company is promptly notified in writing of such claim, and ABS has not reached any compromise or settlement in such action or made any admissions in respect of the same.

5. ARBITRATION

Any and all differences and disputes of whatsoever nature arising out of or relating to this certificate shall be put to arbitration in the City of New York pursuant to the laws relating to arbitration there in force, before a board of three persons, consisting of one arbitrator to be appointed by ABS, one by Company, and one by the two so chosen. The decision of any two of the three on any point or points shall be final. Until such time as the arbitrators finally close the hearings either party shall have the right by written notice served on the arbitrators and on an officer of the other party to specify further disputes or difference under this Agreement for hearing and determination. The arbitration is to be conducted in accordance with the rules of the Society of Maritime Arbitrators, Inc. The arbitrators may grant any relief, other than punitive damages which they, or a majority of them, deem just and equitable and within the scope of the agreement of the parties, including, but not limited to, specific performance. Awards made in pursuance to this clause may include costs including a reasonable allowance for attorney's fees and judgment may be entered upon any award made hereunder in any court having jurisdiction. ABS and Company hereby mutually waive any and all claims to punitive damages in any forum. Company shall be required to notify ABS within thirty (30) days of the commencement of any arbitration between it and third parties which may concern ABS' work in connection with this certificate and shall afford ABS an opportunity, at ABS' sole option, to participate in the arbitration.

6. TIME BAR TO LEGAL ACTION

Any statutes of limitation notwithstanding, Company expressly agrees for itself and its affiliated companies that its right to bring or to assert against ABS any and all claims, demands or proceedings whether in arbitration or otherwise shall be waived unless (a) notice is received by ABS within thirty (30) days after Company or its affiliates had notice of or should reasonably have been expected to have had notice of the basis for such claims; and (b) arbitration or legal proceedings, if any, based on such claims or

demands of whatever nature are commenced within one year of the date of such notice to ABS.

7. LIMITATION OF LIABILITY

The combined liability of American Bureau of Shipping, its officers, employees, agents or subcontractors for any loss, claim, or damage arising from negligent performance or non-performance of any services under this Agreement, or from breach of any implied or express warranty of workmanlike performance in connection with the services, or from any other reason, to any person, corporation, partnership, business entity, sovereign, country or nation, shall be limited to the greater of a) \$100,000 or b) an amount equal to ten times the sum actually paid for the services alleged to be deficient. The limitation of liability may be increased up to an amount twenty-five times that sum paid for services upon receipt of Company's written request at or before the time of performance of service and upon payment by Company of an additional fee of \$10 for every \$1,000.00 increase in the limitation.

8. ETHICS AND COMPLIANCE

Falsification of this certificate, including any alterations by an entity other than ABS, may result in actions against the culpable entity up to and including legal proceedings for the misrepresentation of this document. Measures may include but are not limited to the immediate and indefinite suspension of the certificate in question, delisting of the entity from ABS online certification database, and immediate restriction of use of the authorized ABS service logos. Upon investigation by ABS, ABS reserves the right to permanently disqualify the implicated entity or its Principals from holding any service certifications from ABS.

This certificate is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited.



APPENDIX TO ABS SERVICE SUPPLIER CERTIFICATION NO. 21-4878919-B

Scope of Approval, Limitations or Restrictions

The service recognition is for

- 1) Fixed fire extinguishing systems
 - Gas/CO2 systems
 - Pressure water-spraying and water-mist systems
 - Foam systems
 - Automatic sprinkler systems
- 2) Portable fire extinguishers
- 3) Fire/smoke detection & alarm systems

Authorized Personnel

ARDA AKYUZ,EMIN DEGER, NEDİM ERGUN, MEHMET KAYA, HASAN CANCA, IRFAN HIRDURMAZ, KENAN KILCI,UMIT SAHIN, ENDERCAN YILDIZ, BIROL CENGIZ,SULEYMAN ASAL, HUSEYIN ALPER KIRAN, ALI GULUM

Authorized personnel listing (Document Name : , Version:04, Date: 22.04.2021) was reviewed and verified at the time the audit was carried out. Upon request, the firm is to provide the latest authorized personnel listing.

Quality Manager

Kayhan Aytug

Authorization(s) from Equipment Manufacturers and Flag Administrations*

TURKISH FLAG, GLOBAL , JOHNSON CONTROLS

Subcontractor and Scope of Subcontracting Work

MOGOLSAN

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau. This certificate is a representation only that the Company has been assessed in accordance with ABS procedures and found capable of providing the listed service as limited by the associated recognition letter. This certificate is governed by the Terms and Conditions on the above page hereof and by the Rules, Guides or Standards of the American Bureau of Shipping, who shall remain the sole judge thereof.

* For statutory related activities, unless specially directed by the Administration, this approval is not to be construed as a substitute or a Flag Administration's approval for the purpose of SOLAS (2020 Consolidated Edition), as amended.



Certificate Number 21-4878919-C
Effective Date 15-09-2021
Expiry Date 14-09-2024
ABS Port Office ISTANBUL
Company's Website www.delmarsafety.com

CERTIFICATE OF Recognized Service Supplier

This is to certify that

Del-Mar Denizde Guvenlik Sistemleri Tasimacilik Sanayi ve Ticaret Ltd.Sti.

located at

Aydinli Mah.Beyoglu San.Sitesi E2 Blok No.30, 34953 Tuzla-Istanbul / Turkey

having been audited by ABS and having given a satisfactory practical demonstration of the service listed below, is recognized by ABS as a Service Supplier to provide services which ABS Surveyors may rely on to make decisions affecting classification or statutory surveys.

Inflatable Liferafts, Inflatable Lifejackets, Hydrostatic Release Units, Inflatable Rescue Boats and Marine Evacuation Systems

Attached Certificate Appendix provides specific scope of approval, authorized personnel, manufacturer authorizations, and subcontractors.

It is the responsibility of the Service Supplier to employ, train and qualify persons in the service provided. If the service requires approval from manufacturers, the Service Supplier is responsible to maintain contact with the manufacturer and maintain any service manuals up to date. Where required by the category of service, the Service Supplier shall provide valid evidence that it is authorized or licensed by the equipment manufacturer to service the makes and models of equipment for which approval is sought. If approval from the manufacturer is not attained, a surveyor must be present at time of survey to continue work. Alternatively, current written instructions from the flag state are to be obtained to continue work without the surveyor present. Service Suppliers must present photo identification, evidence of qualification and authorizations from manufacturers, as applicable, at the time of service.

The ABS office issuing this certificate is to be kept updated with changes to the management of the company, employees, equipment and models on the authorization list and any changes made.



EVREN ERDIR, Surveyor



TERMS AND CONDITIONS

The issuance and interpretation of this Certificate of Service Recognition (hereinafter referred to as "certificate") is subject to the following terms and conditions.

1. REPRESENTATIONS AS TO SERVICE RECOGNITION

The Certificate is a representation only that the specified Company has been audited by ABS and has given a satisfactory practical demonstration of the listed services which ABS Surveyors may rely on to make decisions affecting classification or statutory surveys and is issued solely for the use of ABS and its committees. The validity, applicability and interpretation of this certificate are governed by the Rules, Guides, or standards of ABS who shall remain the sole judge thereof.

2. RESPONSIBILITY AND LIABILITY

The Company is not a subcontractor of ABS and is not an agent of ABS for any purpose. The Company remains solely responsible for its equipment, the qualifications and competency of its personnel, the supervision of its personnel, and the safety of its personnel while performing its services. Nothing contained in this certificate or any letter or report issued in contemplation of this certificate shall be deemed to relieve Company or any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied nor to create any interest, right, claim or benefit in any third party. It is understood and agreed that nothing expressed herein is intended or shall be construed to give any person, firm or corporation, other than the parties hereto, any right, remedy or claim hereunder; all provisions hereof are for the sole and exclusive benefit of the parties hereto.

3. LIMITATION

ABS makes no representations beyond those contained herein regarding its reports, letters, audits, certificates or other services.

4. HOLD HARMLESS

The party to whom this certificate is issued, and his assignee and successor in interest, agree to indemnify and hold harmless ABS from and against any and all claims, demands, lawsuits, or actions for damages, including legal fees, to persons and property, tangible, intangible, or otherwise which may be brought against ABS incidental to, arising out of or in connection with the work done, services performed or material to be furnished under this certificate, except for those claims caused solely and completely by the negligence of ABS, its agents, employees, officers, directors or subcontractors.

Company shall defend, indemnify, and hold harmless ABS and its affiliates from and against any and all third party claims and

liabilities (including, without limitation, reasonable attorneys' fees and costs), regardless of the form of action, arising out of or in connection with a claim that the service(s) offered by Company for which Company has sought recognition from ABS, infringes, violates, or misappropriates a valid third party patent, copyright, or other proprietary right, provided that Company is promptly notified in writing of such claim, and ABS has not reached any compromise or settlement in such action or made any admissions in respect of the same.

5. ARBITRATION

Any and all differences and disputes of whatsoever nature arising out of or relating to this certificate shall be put to arbitration in the City of New York pursuant to the laws relating to arbitration there in force, before a board of three persons, consisting of one arbitrator to be appointed by ABS, one by Company, and one by the two so chosen. The decision of any two of the three on any point or points shall be final. Until such time as the arbitrators finally close the hearings either party shall have the right by written notice served on the arbitrators and on an officer of the other party to specify further disputes or difference under this Agreement for hearing and determination. The arbitration is to be conducted in accordance with the rules of the Society of Maritime Arbitrators, Inc. The arbitrators may grant any relief, other than punitive damages which they, or a majority of them, deem just and equitable and within the scope of the agreement of the parties, including, but not limited to, specific performance. Awards made in pursuance to this clause may include costs including a reasonable allowance for attorney's fees and judgment may be entered upon any award made hereunder in any court having jurisdiction. ABS and Company hereby mutually waive any and all claims to punitive damages in any forum. Company shall be required to notify ABS within thirty (30) days of the commencement of any arbitration between it and third parties which may concern ABS' work in connection with this certificate and shall afford ABS an opportunity, at ABS' sole option, to participate in the arbitration.

6. TIME BAR TO LEGAL ACTION

Any statutes of limitation notwithstanding, Company expressly agrees for itself and its affiliated companies that its right to bring or to assert against ABS any and all claims, demands or proceedings whether in arbitration or otherwise shall be waived unless (a) notice is received by ABS within thirty (30) days after Company or its affiliates had notice of or should reasonably have been expected to have had notice of the basis for such claims; and (b) arbitration or legal proceedings, if any, based on such claims or

demands of whatever nature are commenced within one year of the date of such notice to ABS.

7. LIMITATION OF LIABILITY

The combined liability of American Bureau of Shipping, its officers, employees, agents or subcontractors for any loss, claim, or damage arising from negligent performance or non-performance of any services under this Agreement, or from breach of any implied or express warranty of workmanlike performance in connection with the services, or from any other reason, to any person, corporation, partnership, business entity, sovereign, country or nation, shall be limited to the greater of a) \$100,000 or b) an amount equal to ten times the sum actually paid for the services alleged to be deficient. The limitation of liability may be increased up to an amount twenty-five times that sum paid for services upon receipt of Company's written request at or before the time of performance of service and upon payment by Company of an additional fee of \$10 for every \$1,000.00 increase in the limitation.

8. ETHICS AND COMPLIANCE

Falsification of this certificate, including any alterations by an entity other than ABS, may result in actions against the culpable entity up to and including legal proceedings for the misrepresentation of this document. Measures may include but are not limited to the immediate and indefinite suspension of the certificate in question, delisting of the entity from ABS online certification database, and immediate restriction of use of the authorized ABS service logos. Upon investigation by ABS, ABS reserves the right to permanently disqualify the implicated entity or its Principals from holding any service certifications from ABS.

This certificate is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited.



APPENDIX TO ABS SERVICE SUPPLIER CERTIFICATION NO. 21-4878919-C

Scope of Approval, Limitations or Restrictions

The service recognition is for:

- Inflatable Liferafts
- Inflatable Lifejackets
- Hydrostatic Release Units
- Inflatable Rescue Boats .

Authorized Personnel

ARDA AKYUZ,
EMIN DEGER,

Authorized personnel listing (Document Name : , Version:04, Date: 22.04.2021) was reviewed and verified at the time the audit was carried out. Upon request, the firm is to provide the latest authorized personnel listing.

Quality Manager

KAYHAN AYTUG

Authorization(s) from Equipment Manufacturers and Flag Administrations*

TURKISH FLAG, CSM

Subcontractor and Scope of Subcontracting Work

NA

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau. This certificate is a representation only that the Company has been assessed in accordance with ABS procedures and found capable of providing the listed service as limited by the associated recognition letter. This certificate is governed by the Terms and Conditions on the above page hereof and by the Rules, Guides or Standards of the American Bureau of Shipping, who shall remain the sole judge thereof.

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Certificate Number 21-4878919-A
Effective Date 15-September-2021
Expiry Date 14-September-2024
ABS Port Office ISTANBUL
Company's Website www.delmarsafety.com

CERTIFICATE OF Recognized Service Supplier

This is to certify that

DEL-MAR DENIZDE GUVENLIK SIST.TAS. SAN. LTD. STI.

located at

Aydinli Mah.Beyoglu Sanayi Sitesi E2 Blok No 29 Tuzla-Istanbul/ Turkey

having been audited by ABS and having given a satisfactory practical demonstration of the service listed below, is recognized by ABS as a Service Supplier to provide services which ABS Surveyors may rely on to make decisions affecting classification or statutory surveys.

Servicing and Maintenance of Lifeboats, Launching Appliances, On-Load Release Gears and Davit-Launched Liferaft Release Hooks

Attached Certificate Appendix provides specific scope of approval, authorized personnel, manufacturer authorizations, and subcontractors.

It is the responsibility of the Service Supplier to employ, train and qualify persons in the service provided. If the service requires approval from manufacturers, the Service Supplier is responsible to maintain contact with the manufacturer and maintain any service manuals up to date. Where required by the category of service, the Service Supplier shall provide valid evidence that it is authorized or licensed by the equipment manufacturer to service the makes and models of equipment for which approval is sought. If approval from the manufacturer is not attained, a surveyor must be present at time of survey to continue work. Alternatively, current written instructions from the flag state are to be obtained to continue work without the surveyor present. Service Suppliers must present photo identification, evidence of qualification and authorizations from manufacturers, as applicable, at the time of service.

The ABS office issuing this certificate is to be kept updated with changes to the management of the company, employees, equipment and models on the authorization list and any changes made.



EVREN ERDIR, Surveyor



TERMS AND CONDITIONS

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2. RESPONSIBILITY AND LIABILITY

The Company is not a subcontractor of ABS and is not an agent of ABS for any purpose. The Company remains solely responsible for its equipment, the qualifications and competency of its personnel, the supervision of its personnel, and the safety of its personnel while performing its services. Nothing contained in this certificate or any letter or report issued in contemplation of this certificate shall be deemed to relieve Company or any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied nor to create any interest, right, claim or benefit in any third party. It is understood and agreed that nothing expressed herein is intended or shall be construed to give any person, firm or corporation, other than the parties hereto, any right, remedy or claim hereunder; all provisions hereof are for the sole and exclusive benefit of the parties hereto.

3. LIMITATION

ABS makes no representations beyond those contained herein regarding its reports, letters, audits, certificates or other services.

4. HOLD HARMLESS

The party to whom this certificate is issued, and his assignee and successor in interest, agree to indemnify and hold harmless ABS from and against any and all claims, demands, lawsuits, or actions for damages, including legal fees, to persons and property, tangible, intangible, or otherwise which may be brought against ABS incidental to, arising out of or in connection with the work done, services performed or material to be furnished under this certificate, except for those claims caused solely and completely by the negligence of ABS, its agents, employees, officers, directors or subcontractors.

Company shall defend, indemnify, and hold harmless ABS and its affiliates from and against any and all third party claims and

liabilities (including, without limitation, reasonable attorneys' fees and costs), regardless of the form of action, arising out of or in connection with a claim that the service(s) offered by Company for which Company has sought recognition from ABS, infringes, violates, or misappropriates a valid third party patent, copyright, or other proprietary right, provided that Company is promptly notified in writing of such claim, and ABS has not reached any compromise or settlement in such action or made any admissions in respect of the same.

5. ARBITRATION

Any and all differences and disputes of whatsoever nature arising out of or relating to this certificate shall be put to arbitration in the City of New York pursuant to the laws relating to arbitration there in force, before a board of three persons, consisting of one arbitrator to be appointed by ABS, one by Company, and one by the two so chosen. The decision of any two of the three on any point or points shall be final. Until such time as the arbitrators finally close the hearings either party shall have the right by written notice served on the arbitrators and on an officer of the other party to specify further disputes or difference under this Agreement for hearing and determination. The arbitration is to be conducted in accordance with the rules of the Society of Maritime Arbitrators, Inc. The arbitrators may grant any relief, other than punitive damages which they, or a majority of them, deem just and equitable and within the scope of the agreement of the parties, including, but not limited to, specific performance. Awards made in pursuance to this clause may include costs including a reasonable allowance for attorney's fees and judgment may be entered upon any award made hereunder in any court having jurisdiction. ABS and Company hereby mutually waive any and all claims to punitive damages in any forum. Company shall be required to notify ABS within thirty (30) days of the commencement of any arbitration between it and third parties which may concern ABS' work in connection with this certificate and shall afford ABS an opportunity, at ABS' sole option, to participate in the arbitration.

6. TIME BAR TO LEGAL ACTION

Any statutes of limitation notwithstanding, Company expressly agrees for itself and its affiliated companies that its right to bring or to assert against ABS any and all claims, demands or proceedings whether in arbitration or otherwise shall be waived unless (a) notice is received by ABS within thirty (30) days after Company or its affiliates had notice of or should reasonably have been expected to have had notice of the basis for such claims; and (b) arbitration or legal proceedings, if any, based on such claims or

demands of whatever nature are commenced within one year of the date of such notice to ABS.

7. LIMITATION OF LIABILITY

The combined liability of American Bureau of Shipping, its officers, employees, agents or subcontractors for any loss, claim, or damage arising from negligent performance or non-performance of any services under this Agreement, or from breach of any implied or express warranty of workmanlike performance in connection with the services, or from any other reason, to any person, corporation, partnership, business entity, sovereign, country or nation, shall be limited to the greater of a) \$100,000 or b) an amount equal to ten times the sum actually paid for the services alleged to be deficient. The limitation of liability may be increased up to an amount twenty-five times that sum paid for services upon receipt of Company's written request at or before the time of performance of service and upon payment by Company of an additional fee of \$10 for every \$1,000.00 increase in the limitation.

8. ETHICS AND COMPLIANCE

Falsification of this certificate, including any alterations by an entity other than ABS, may result in actions against the culpable entity up to and including legal proceedings for the misrepresentation of this document. Measures may include but are not limited to the immediate and indefinite suspension of the certificate in question, delisting of the entity from ABS online certification database, and immediate restriction of use of the authorized ABS service logos. Upon investigation by ABS, ABS reserves the right to permanently disqualify the implicated entity or its Principals from holding any service certifications from ABS.

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APPENDIX TO ABS SERVICE SUPPLIER CERTIFICATION NO. 21-4878919-A

Scope of Approval, Limitations or Restrictions

The service recognition is for maintenance, thorough examination, operational testing, overhaul and repair of:

- Lifeboat (including free-fall lifeboats), rescue boats and fast rescue boats
- Launching appliances
- On-load and off-load release gears for lifeboats (including primary and secondary means of launching appliances for free-fall lifeboats)
- Davit-launched liferaft

The recognition is in accordance with Resolution MSC.402(96) Annex, Section 7 & 8 and IACS UR Z17 (Rev.14 Mar 2019).

Authorized Personnel

Emin Deger (Maker Authorized)

Nedim Ergun (Maker Authorized)

Mehmet Kaya (Maker Authorized)

Hasan Canca (Maker Authorized)

Irfan Hirdurmaz (Maker Authorized)

Kenan Kilci (Maker Authorized)

Umit Sahin (Maker Authorized)

Egemen Cevni (Maker Authorized)

Kerem Koray Demir (Maker Authorized)

Ozan Ozakyol (Maker Authorized)

Mucahit Bereket Akgun (Authorized through International Standard as per MSC.402(96)/7.1.1 (ISO/PAS23678)

Altug Firat Akbayir (Authorized through International Standard as per MSC.402(96)/7.1.1 (ISO/PAS23678)

Fuat Arda Akyüz (Maker Authorized)

Authorized personnel listing (Document name: Organization Chart,DD-MNGT-1002 , Version: 007, Date: 01 June 2021) was reviewed and verified at the time the audit was carried out. Upon request, the firm is to provide the latest authorized personnel listing.

Quality Manager

Kayhan Aytug

Authorization(s) from Equipment Manufacturers and Flag Administrations*

Turkish Flag

Panama Flag

Liberia Flag



MAKER APPROVALS:

OPCO (ORIENTAL INSPECTION)

HYUNDAI (HLB)

BADA HI

GURDESAN

ARIM

JIANGYINSHI BEIHAI

TISS

ISO/PAS 23678 APPROVALS

LIFEBOAT & RESCUE BOAT

AVON, BALDEN, DSB ENGINEERING CO, ERNST HATECKE, ERNST HATECKE GMBH, FASSMER, FR. FASSMER GMBH, GEPA, GREBEN VELA LUKA CROATIA, GREBEN, HARDING, HARDING WATERCRAFT, HARDING SAFETY A/S, HLB (Ex-HYUNDAI LIFEBOATS), HYUNDAI LIFEBOATS CO, IHI CRAFT CO, IHI MARINE UNITED CO, ISHIHARA DOCKYARD CO, JAPAN MARINE UNITED CORP, JIANGSU JIAOYAN MARINE EQUIPMENT, JIANGYIN NEPTUNE/MARINE APPLIANCE, JIANGYIN NORSAFE, JIANGYIN WOLONG/FRP BOAT CO, JIANGYIN XIN JIANG FRP CO, JIANGYINSHI BEIHAI LSA CO, MARITIME PARTNER, MARITIME PARTNER AS, MONTMONTAZA GREBEN, NISHI-F CO, NISHI NIPPON FRP SHIPBUILDING CO, NOREQ, NORMAR, NORSAFE/AS, PALFINGER, PALFINGER MARINE SERVICE, PESBO, QINGDAO BEIHAI, SURVITEC GROUP, SCHAT HARDING, SCHAT WATERCRAFT (PALFINGER), SEKIGAHARA SEISAKUSHO LTD, SHIGI SHIPBUILDING CO, TSUNEISHI FACILITIES & CRAFT CO, VANGUARD (NANTONG), VIKING, WATERCRAFT HELLAS, WATERCRAFT INTERNATIONAL, WUXI HAIHONG, ZHENJIANG MARINE AUXILIARY

LAUNCHING APPLIANCES

ACTA, ACEBI, ARIM MACHINERY & ENGINEERING CO, A-TECH, BADA HEAVY IND, BOLIN MACHINERY, DAVIT COMPANY, DAVIT INTERNATIONAL, DAVIT INTERNATIONAL GMBH, DONGNAM MARINE, DONGWOO MACHINE ENGINEERING, EFFER, ERNST HATECKE, FASSMER, GLOBAL DAVIT, GREBEN VELA LUKA, GURDESAN, HARDING, HYDRALIFT, IHI, IKNOW MACHINERY CO, JAPAN MARINE UNITED CORP, JIANGSU JIOYAN MARINE EQUIPMENT, JIANGYINSHI BEIHAI LSA CO, JIANGYIN NEPTUNE MARINE APPLIANCE, JIANGYIN NORSAFE, JIANGYIN XINJIANG, MANSEI INDUSTRY CO, MIURA VIDER, MONTMONTAZA GREBEN, NAVALIMPIANTI, NED DECK MARINE, NINGBO KAIRONG, NINGBO ASIA FRP BOAT MANUFACTURING CO, NOR DAVIT, NOREQ, NORSAFE, ORIENTAL PRECISION & ENGINEERING CO, PALFINGER, PALFINGER NED-DECK BV, QINGDAO BEIHAI, SCHAT HARDING, SEKIGAHARA SEISAKUSHO LTD, SEZAMOR, SHIGI, SHEYANG SAIFUTE, SORMEC, TSUJI HEAVY INDUSTRIES, TTS, VEST DAVIT, VIKING NORSAFE, WUXI DONGWU MARINE, WUXI HAIDELONG MARINE, WUXI HUAHAI MARINE EQUIPMENT, YOUNG NAM MACHINERY CO, ZHENJIANG MARINE AUXILIARY MACHINE WORKS.,

RELEASE GEAR

BADA HEAVY IND. CO. LTD, BC SERVICE, CAR 35, DAVIT COMPANY, DAVIT INTERNATIONAL, ERNST HATECKE, ERNST HATECKE/SIMPLAX, FASSMER, GLOBAL DAVIT, HARDING, HARDING BJORKE, HARDING SAFETY A/S, HATECKE, HENRIKSEN, HLB (Ex-Hyundai Lifeboats), HYUNDAI, HYUNDAI LIFEBOATS CO, IHI CRAFT CO, INDUSTRIA FERRI, JIANGSU JIOYAN MARINE EQUIPMENT, JIANGYIN NEPTUNE MARINE APPLIANCE, JIANGYIN NORSAFE, JIANGYINSHI BEIHAI LSA CO, MANSEI INDUSTRY



ABS

CO, MILLS, NADIRO, NAVALIMPIANTI, NED DECK MARINE, NPT, NOREQ, NISHI-F, NORSAFE, NORSAFE AS, PALFINGER, PALFINGER NED DECK CAR 35, QINGDAO BEIHAI, SCHAT HARDING, SCHAT WATERCRAFT(PALFINGER), SEZAMOR, SHIGI SHIPBUILDING CO, SIMPLEX, SURVITEC, SURVITEC SURVIVAL CRAFT, SURVITEC CRAFT INSPECTORATE, SURVIVAL SYSTEMS INTERNATIONAL, TSUNEISHI FACILITIES & CRAFT, VANGUARD, VEST DAVIT AS, VIKING, VIKING NADIRO, WATERCRAFT, WUXI HAI HONG, WUXI MINGZI MACHINERY, ZHENJIANG MARINE AUXILIARY MACHINERY CO. LTD

WINCHES

ABAS, ACEBI, ACTA, BADA HEAVY INDUSTRY CO, DAVIT COMPANY, DAVIT INTERNATIONAL, DONGNAM MARINE, DONWGOO MACHINERY & ENGINEERING CO, ERNST HATECKE, FASSMER, FERRI, GLOBAL DAVIT, GREBEN, GURDESAN, HARDING, HARDING SAFETY A/S, HLB (Ex Hyundai Lifeboats), IHI, HYDRALIFT, HYDRAULIK & MACHINENBAU, HYUNDAI LIFEBOATS CO, INI HYDRAULIC, JIANGSU JIOYAN MARINE EQUIPMENT, JIANGYINSHI BEIHAI LSA CO, JIANGYIN NEPTUNE MARINE APPLIANCE CO, JIANGYIN NORSAFE, JIANGYIN XINJIANG, MACGREGOR, MANSEI INDUSTRY CO, MONTMONTAZA GREBEN, MIURA VIDER CO, NAVALIMPIANTI & TECHNIMPIANTI, NED DECK MARINE, NINGBO ASIA FRP BOAT MANUFACTURING CO, NINGBO NEW MARINE LIFESAVING EQUIPMENT, NOREQ, NORSAFE, ORIENTAL PRECISION & ENGINEERING CO, PALFINGER, QINGDAO BEIHAI, SCHAT DAVIT COMPANY, SCHAT HARDING, SCHAT HARDING (PALFINGER), SEKIGAHARA SEISAKUSHO LTD, SHIGI, TTS MARINE CRANE AS DAVIT, TSUJI HEAVY INDUSTRIES, VEST DAVIT, VEST DAVIT AS, WUXI DONGWU MARINE EQUIPMENT CO, WUXI HUAHAI MARINE EQUIPMENT, ZHENJIANG MARINE AUXILIARY MACHINE WORKS..

Subcontractor and Scope of Subcontracting Work

NA

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau. This certificate is a representation only that the Company has been assessed in accordance with ABS procedures and found capable of providing the listed service as limited by the associated recognition letter. This certificate is governed by the Terms and Conditions on the above page hereof and by the Rules, Guides or Standards of the American Bureau of Shipping, who shall remain the sole judge thereof.

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Certificate Number 21-4878919-D
Effective Date 15-09-2021
Expiry Date 14-09-2024
ABS Port Office ISTANBUL
Company's Website www.delmarsafety.com

CERTIFICATE OF Recognized Service Supplier

This is to certify that

Del-Mar Denizde Guvenlik Sistemleri Tasimacilik Sanayi ve Ticaret Ltd.Sti.

located at

Aydinli Mah.Beyoglu San.Sitesi E2 Blok No.30, 34953 Tuzla-Istanbul / Turkey

having been audited by ABS and having given a satisfactory practical demonstration of the service listed below, is recognized by ABS as a Service Supplier to provide services which ABS Surveyors may rely on to make decisions affecting classification or statutory surveys.

Self Contained Breathing Apparatus Maintenance

Attached Certificate Appendix provides specific scope of approval, authorized personnel, manufacturer authorizations, and subcontractors.

It is the responsibility of the Service Supplier to employ, train and qualify persons in the service provided. If the service requires approval from manufacturers, the Service Supplier is responsible to maintain contact with the manufacturer and maintain any service manuals up to date. Where required by the category of service, the Service Supplier shall provide valid evidence that it is authorized or licensed by the equipment manufacturer to service the makes and models of equipment for which approval is sought. If approval from the manufacturer is not attained, a surveyor must be present at time of survey to continue work. Alternatively, current written instructions from the flag state are to be obtained to continue work without the surveyor present. Service Suppliers must present photo identification, evidence of qualification and authorizations from manufacturers, as applicable, at the time of service.

The ABS office issuing this certificate is to be kept updated with changes to the management of the company, employees, equipment and models on the authorization list and any changes made.



EVREN ERDIR, Surveyor



TERMS AND CONDITIONS

The issuance and interpretation of this Certificate of Service Recognition (hereinafter referred to as "certificate") is subject to the following terms and conditions.

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2. RESPONSIBILITY AND LIABILITY

The Company is not a subcontractor of ABS and is not an agent of ABS for any purpose. The Company remains solely responsible for its equipment, the qualifications and competency of its personnel, the supervision of its personnel, and the safety of its personnel while performing its services. Nothing contained in this certificate or any letter or report issued in contemplation of this certificate shall be deemed to relieve Company or any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied nor to create any interest, right, claim or benefit in any third party. It is understood and agreed that nothing expressed herein is intended or shall be construed to give any person, firm or corporation, other than the parties hereto, any right, remedy or claim hereunder; all provisions hereof are for the sole and exclusive benefit of the parties hereto.

3. LIMITATION

ABS makes no representations beyond those contained herein regarding its reports, letters, audits, certificates or other services.

4. HOLD HARMLESS

The party to whom this certificate is issued, and his assignee and successor in interest, agree to indemnify and hold harmless ABS from and against any and all claims, demands, lawsuits, or actions for damages, including legal fees, to persons and property, tangible, intangible, or otherwise which may be brought against ABS incidental to, arising out of or in connection with the work done, services performed or material to be furnished under this certificate, except for those claims caused solely and completely by the negligence of ABS, its agents, employees, officers, directors or subcontractors.

Company shall defend, indemnify, and hold harmless ABS and its affiliates from and against any and all third party claims and

liabilities (including, without limitation, reasonable attorneys' fees and costs), regardless of the form of action, arising out of or in connection with a claim that the service(s) offered by Company for which Company has sought recognition from ABS, infringes, violates, or misappropriates a valid third party patent, copyright, or other proprietary right, provided that Company is promptly notified in writing of such claim, and ABS has not reached any compromise or settlement in such action or made any admissions in respect of the same.

5. ARBITRATION

Any and all differences and disputes of whatsoever nature arising out of or relating to this certificate shall be put to arbitration in the City of New York pursuant to the laws relating to arbitration there in force, before a board of three persons, consisting of one arbitrator to be appointed by ABS, one by Company, and one by the two so chosen. The decision of any two of the three on any point or points shall be final. Until such time as the arbitrators finally close the hearings either party shall have the right by written notice served on the arbitrators and on an officer of the other party to specify further disputes or difference under this Agreement for hearing and determination. The arbitration is to be conducted in accordance with the rules of the Society of Maritime Arbitrators, Inc. The arbitrators may grant any relief, other than punitive damages which they, or a majority of them, deem just and equitable and within the scope of the agreement of the parties, including, but not limited to, specific performance. Awards made in pursuance to this clause may include costs including a reasonable allowance for attorney's fees and judgment may be entered upon any award made hereunder in any court having jurisdiction. ABS and Company hereby mutually waive any and all claims to punitive damages in any forum. Company shall be required to notify ABS within thirty (30) days of the commencement of any arbitration between it and third parties which may concern ABS' work in connection with this certificate and shall afford ABS an opportunity, at ABS' sole option, to participate in the arbitration.

6. TIME BAR TO LEGAL ACTION

Any statutes of limitation notwithstanding, Company expressly agrees for itself and its affiliated companies that its right to bring or to assert against ABS any and all claims, demands or proceedings whether in arbitration or otherwise shall be waived unless (a) notice is received by ABS within thirty (30) days after Company or its affiliates had notice of or should reasonably have been expected to have had notice of the basis for such claims; and (b) arbitration or legal proceedings, if any, based on such claims or

demands of whatever nature are commenced within one year of the date of such notice to ABS.

7. LIMITATION OF LIABILITY

The combined liability of American Bureau of Shipping, its officers, employees, agents or subcontractors for any loss, claim, or damage arising from negligent performance or non-performance of any services under this Agreement, or from breach of any implied or express warranty of workmanlike performance in connection with the services, or from any other reason, to any person, corporation, partnership, business entity, sovereign, country or nation, shall be limited to the greater of a) \$100,000 or b) an amount equal to ten times the sum actually paid for the services alleged to be deficient. The limitation of liability may be increased up to an amount twenty-five times that sum paid for services upon receipt of Company's written request at or before the time of performance of service and upon payment by Company of an additional fee of \$10 for every \$1,000.00 increase in the limitation.

8. ETHICS AND COMPLIANCE

Falsification of this certificate, including any alterations by an entity other than ABS, may result in actions against the culpable entity up to and including legal proceedings for the misrepresentation of this document. Measures may include but are not limited to the immediate and indefinite suspension of the certificate in question, delisting of the entity from ABS online certification database, and immediate restriction of use of the authorized ABS service logos. Upon investigation by ABS, ABS reserves the right to permanently disqualify the implicated entity or its Principals from holding any service certifications from ABS.

This certificate is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited.



APPENDIX TO ABS SERVICE SUPPLIER CERTIFICATION NO. 21-4878919-D

Scope of Approval, Limitations or Restrictions

The service recognition is for inspection and maintenance of self-contained breathing apparatus and emergency escape breathing devices.

Authorized Personnel

ARDA AKYUZ,EMIN DEGER, NEDİM ERGUN, MEHMET KAYA, HASAN CANCA, IRFAN HIRDURMAZ, KENAN KILCI,UMIT SAHIN, ENDERCAN YILDIZ, BIROL CENGIZ,SULEYMAN ASAL, HUSEYIN ALPER KIRAN, ALI GULUM

Authorized personnel listing (Document Name : , Version:04, Date: 22.04.2021) was reviewed and verified at the time the audit was carried out. Upon request, the firm is to provide the latest authorized personnel listing.

Quality Manager

KAYHAN AYTUG

Authorization(s) from Equipment Manufacturers and Flag Administrations*

SCOTT, NEARGUARD

Subcontractor and Scope of Subcontracting Work

NA

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau. This certificate is a representation only that the Company has been assessed in accordance with ABS procedures and found capable of providing the listed service as limited by the associated recognition letter. This certificate is governed by the Terms and Conditions on the above page hereof and by the Rules, Guides or Standards of the American Bureau of Shipping, who shall remain the sole judge thereof.

* For statutory related activities, unless specially directed by the Administration, this approval is not to be construed as a substitute or a Flag Administration's approval for the purpose of SOLAS (2020 Consolidated Edition), as amended.