



Certificate Number **22- 5166850-A**
Effective Date 13 March 2022
Expiry Date 12 March 2025
ABS Port Office Alexandria, Egypt
Company's Website www.dolphin-marine.net

CERTIFICATE OF Recognized Service Supplier

This is to certify that

DOLPHIN MARINE CO.

located at

66 TAWENIATE SMOUHA, ALEXANDRIA, EGYPT

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.

Maintenance, thorough Examination, Operational Testing, Overhaul and Repair of Lifeboats and Rescue Boats, Launching Appliances and Release Gear

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.


Sameh Morcos, 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. 22- 5166850-A

Scope of Approval, Limitations or Restrictions

Lifeboat

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)

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

Authorized Personnel

Authorized personnel listing (document name: **DM-IN-F28**, version 0, dated 10 March 2022) 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

Rasha ABD ELRAOUF.

Authorization(s) from Equipment Manufacturers and Flag Administrations*

Lifeboat Service Supplier OEM Authorization List is attached to this Certificate.

Authorization from Flag Administration

1. PANAMA MARITIME AUTHORITY
2. LIBERIA MARITIME AUTHORITY
3. THE BAHAMAS MARITIME AUTHORITY

Subcontractor and Scope of Subcontracting Work

Not Applicable

NOTE: This certificate evidence 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.



Appendix to ABS Certificate Number: **22- 5166850-A**

Company Name: Dolphin Marine Co.

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 service supplier 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
FASSMER	DAVITS / Lifeboats and Rescue Boats.	Davit launched totally enclosed lifeboats GMR5.9/TGMR5.9/GMR6.5/TGMR6.5/GMR 7.4/ TGMR7.4/GMR8.3/TGMR8.3/CLR- C 5.9/ CLR - T:5.9/CLR- C 6.4/ CLR- T 6.4/CLR - C 6.8/CLR - T 6.8/CLR - C 7.2/CLR - T 7.2/CLR - C 7.6/CLR - T 7.6/CLR - C 8.1/CLR - T 8.1/CLR - C 8.5/CLR - T 8.5/CL - C 8.9/CL - T 8.9/ CL - C 9.4/CL - T 9.4/CL - C 9.8/CL - T 9.8/ CL - C 10.2/CL - T 10.2/CL - C 10.7/CL - T 10.7/CL - C 11.1/CL - T 11.1/CL - C 11.5/CL - T 11.5/CL - C 11.9/CL - T 11.9/CL - C 12.4/CL - T 12.4/CL - C 12.8/CL - T 12.8/CL - C 13.2/CL - T 13.2/CLX 8.5/CLX 10.0/CLX 11.7/CLX 12.8/ Free fall lifeboat CFL 4.9/CFL - T 4.9/GAR 6.0/GAR - T 6.0/GAR 6.8/GAR - T 6.8/GAR 6.7/GAT-T 6.7/GAR 7.4/GAR-T 7.4/GAR 8.1/GAR-T 8.1/ GAR 7.7/GAR - T 7.7/GAR - 8.5/ GAR - T 8.5/ CFL- C 66/CFL - T 66/CFL - C 72/CFL - T 72 /CFL - C 77/CFL- T 77/CFL - C 83/CFL - T 83/	

		Partially enclosed lifeboats CL- P 5.9/CL- P 6.4/CL- P 6.8/CL- P 7.2/CL- P 7.6/CL- P 8.1/CL- P 8.5/CL- P 8.9/CL- P 9.4/ CL- P 9.8/CL- P 10.2/CL- P 10.7/CL- P 11.1/CL- P 11.5/CL- P 11.9/CL- P 12.4/CL- P 12.8/CL- P 13.2/SEL 8.15/SEL 8.8/SEL 9.6/SEL 10.5/SEL 10.55/SEL 11.80/SEL 12.5/SEL - R 8.15/SEL 15.75/SEL - T 10.75 / Partially enclosed lifeboats – tender boats TL Limo 110/ SEL - T 11.0/ SEL- T 11.7/SEL - T 12.3/SEL - T 14.0/SEL - T 14.7 SEL - T 15.75/PLL 1099 /PLT - EVO 170/ Partially enclosed lifeboats – tender boat and rescue boat SEL- RT 7.7/SEL- RT 7.5/SEL - RT 8.5/ Partially enclosed life and crew tender boats SEL 11.0 (-T) Partially enclosed life / Rescue / work / tender – boats SEL - R 7.4/SEL – R 8.5 / High –performance tender SFB 10.1/ Fast rescue boats RR 4.2/RR 4.2 M/RR 4.5 ID/RIR 625 ID/ FR (1) R 6.1/FR (1) R 6.1 ID/FRR 6.2 ID/FRR 6.5 ID – SF/FRR 6.6 ID/ FRR 7.0 ID – SF/FRIR 6.25/FRR 7.0/ Freefall lifeboat release mechanism FFRU 6.6/ Offload rescue boat hook FOH 27 /FOH 30/ FOH 70 Onload release gear /DUPLEX 25E2/DUPLEX 2.5E/DUPLEX 50E2/DUPLEX 5.0E/ DUPLEX 60E2 /DUPLEX 6.6E/DUPLEX 10E/DUPLEX 140E2/DUPLEX14E/ DUPLEX17E/DUPLEX 180E2/DUPLEX 230 E2/DUPLEX 23E Onload release gear /DUPLEX 25E2/DUPLEX 2.5E/DUPLEX 50E2/DUPLEX 5.0E/ DUPLEX 60E2 /DUPLEX 6.6E/DUPLEX 10E/DUPLEX 140E2/DUPLEX14E/ DUPLEX17E/DUPLEX 180E2/DUPLEX 230 E2/DUPLEX 23E	
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		Fassmer hydraulic davit FHD 80/ FHD 100 / FHD 120 / FHD 130 / FHD 150 / FHD 170 / FHD 172 / FHD 280 / FHD 450 HINGED DAVIT FFH 45V FREE FALL DAVIT FFH 45 / FFH 65 PIVOT DAIT FPD 55 / FPD 60 / FPD 100 / FPD 80 / FPD 120 / FPD 150 / FPD 170 / FPD 172 / FPD 185 FREEFALL DAVIT FFH 49 / FFH 50 / FFH 60 / FFH 70 / FFH 72 / FFH 77 / FFH 80 / FFH 83 / FFH 85 FFH 90 / FLR 49 / FLR 66 Freefall Ramp FLR 8005/FLR 8006/FLR 8007 Multi pivot davit FMPD 100/FMPD 130/FMPD 150 /FMPD 160 / Outigger davit FOD 100/FOD 120/FOD 130/FOD 150/FOD 170/FOD 190/FOD 40R/FOD50/FOD55/FOD 80/ FOD LBC 300/FOD SAR 40/FOD-R 22/ FOD -R 23/FOD -R 25/FOD -R 40/FOD TC 450/ Rescue boat davit FOSV 71/FSAH 22/ Rescue boat crane FSAH 28/FASH 32/FSAR 14/FSARR 14/3.5 HS/FSAR 21/ FSARR 22/4.0HS-M/FSAR 28/FSAR 40/ FRC crane PRHE 30/	
Hyundai	Lifeboat / RELEASE MECHANISM / DAVIT/ WINCH	Hyundai / lifeboat GRAVITYTYPE (ENCLOSED) HD32T/F, HD44T/F, HD60T, HDL65~85CT/F(A), HDL85CNT/F , HDL71CTR/CFR, HDL75CTR/CFR, HLB65T/F, HLB105F FREEFALL TYPE HDL740T/F , HDF25T/F , HDF32T/F , HDFN25T/F , HDFN35T/F RESCUE BOAT	

		HDR420 , HDR475 , HDR475 , HDR570 FAST RESCUE BOAT HDFS600, HDFS680 HYUNDAI RELEASE MECHANISM FOR GRAVITY LIFEBOAT TALON II4.0/6.0T , TALON 9.0T FOR FREEFALL LIFEBOAT THP , TALON 4.6T FOR RESCUE BOAT & LIFERAFT BHR25S , BHA25S FOR FAST RESCUE BOAT BHR35F , BHR60F , BHR80F HYUNDAI DAVIT GRAVITY TYPE BDH58S , BDH70S , BDH90S , BDH125S , BDTD60P , BDHP95S , BDTW25S , BDRW100S , BDM70S , BDM130S , BDM170S , BFOD90S FREEFALL TYPE HDFS740 , HDFS25/32T , BDFS25S , BDFS35S RESCUE BOAT BHI-RLD25 , BHI-RD42M , BDR6P , BDR25S , BDR25U , BDR25F , BDR35S , BDA16S , BDA20S , BDA25S , BDA35S LIFERAFT BDL25/35S BHI-LRD15/20M , BLR20S HYUNDAI WINCH BAW25RG , BLW25M , BMW82L , BRW25F/S/U , BWL40S/U/50S/8S/66S , BWR40S/U/50S/58S/66S , FHW045 ON LOADRELEASE GEAR/ LIFEBOAT RELEASE & RETRIEVAL SYSTEM DUPLX 2.5/DUPLX 2.5E/DUPLX 25 E2/DUPLX 5.0/DUPLX 5.0 E/DUPLX 50 E2/HH43 (Hai Hong Type)/ DAVITS / CRANES FPD-D60/FPD-D60/FPD-DH68/SRH70/ FFH49/FF49D/FFH66/FFH66D/FFH72/FFH77/ FFH83/FLR 49/FLR 66/FLR 72/ FSAR 14/3.5HS/FSARR 14/3.5HS/FSAR 4.0/3.5HS/FSAR 21/4.0HS/FSARR 21/4.0HS/FSARR 22/4.0HS/FMAH 22KN/FSAR 25/ WINCHES DEW 15-24/DEW 15-35/DEW15-44/D52L/D52R/ DW34S/DW34Z/MW50/MW50C for davitFPD-D60/FW35/DEW 150/DEW 450/ RZ25 LIFEBOATS DRAGON 26C/DRAGON 26T Tanker Version /DRAGON 32C/DRAGON 32T Tanker Version/DRAGON 38C/DRAGON 38T Tanker Version/GMR 6.5/ GMR- T6.5 Tanker Version/GMR 7.4/GMR- T7.4 Tanker Version/HH57C (Hai Hong Type)/HH57T (Hai hong Type) Tanker Version/HH65C (Hai Hong Type)/ HH65T (Hai Hong Type) Tanker Version/HH70C (Hai Hong Type)/HH70T (Hai Hong Type) Tanker Version/CLR-C5.9/CLR-T5.9 Tanker Version/	
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Fassmer
Marland Ltd

		FREEFALL GAR 6.7/ GAR -T6.7 Tanker Version/ GAR 7.4/GAR-T7.4 Tanker Version/CFL-C49 (E)/CFL-T49(E) Tanker Version/ CFL-C66(E)/CFL-T66 (E) Tanker Version/CFL-C72 (E)/CFL-T72 (E) Tanker Version/CFL – C77 (E)/CFL-T77 (E) Tanker Version/ CFL- C83 (E)/ CFL – T83 (E) Tanker Version RESCUE BOATS / FAST RESCUE BOATS RR4.2 / RR 4.2-M/RRH4.2/RR4.2 ID/FRR6.1 ID/FRR6.2 ID/	
Global Gmbh Survival & Deck Equipment	Davit – Lifeboat Davits, Recue Boat Davits.	FHS / RMS / RHS / RHP / RHT/ RSP / LMS / LHS / LGP / RHP.HC / RHS.HC / GSP / GLP	
Hatecke Service Gmbh	Lifeboats & Rescue Boats	DUPLEX 2.6/DUPLEX 3.0/DUPLEX 3.5/ DUPLEX 4.3 / 4.6/DUPLEX 6.0/GFF-R-10/ GFF-R-11/GFF-R-8/RAFTI 2.5/SIMPLEX 2.0 Off-Load/SIMPLEX 2.0 to/SIMPLEX 2.0i// SIMPLEX3.0/SIMPLEX 4.3/SIMPLEX6.0/	
Nishi – F Co., Ltd	Lifeboat, Rescue Boat,	G-series, ML-series, F series	
Oriental Inspection & Service Co., Ltd.	DAVIT, WINCH, / RESCUE / LIFERAFT DAVIT, WINCH	TOTAL ENCLOSED BH-5,5A,5S,5SA,E500,E585,6,6A,6S,E670,7A,7B,8 FREEFALL BH-F6.0,F7.0A,F7.8,F8.1,F5.8,F6.8,F660,F670,F750 RESCUE BH-R4,R4S,R4SA,R5S GRAVITY PIVOT BD-PV50,PV60,PV60S,PV85,PV125 FREEFALL LAUNCHING BD-FF55,55A,55R,FF80,80A,80R,80B,FF66,FF67,FF85 SINGLE ARM BD-SA14,14A,14B,SA21,21A,SA23,SA30,30A,SA33,SH23 GRAVITY LIFEBOAT BG-3,3L,BG-7,BH-HOOK3,HOOK5,FS5,FS7 FREEFALL LIFEBOAT BG-3,5F,4F,4,5F,4,5FL,5F,6F RESCUE BOAT BG-2R,15KNXS,25KNXS,35KNXS CRANE FOR FREEFALL BOAT C-F, C-L CRANE FOR BOAT HANDLING C-S FREEFALL DAVIT ONLY D-F FREEFALL DAVIT D-TF, D-FH/FG ROLLER TRACK DAVIT D-RT FIXED OFFSHORE DAVIT D-FO	
Davit international	FREEFALL BOAT / FREEFALL DAVIT / RESCUE BOAT DAVIT RESCUE BOAT HOOK / FAST RESCUE BOAT DAVIT		

LIFEBOAT OR RESCUE BOAT DAVIT		
HOI SENPAKU – JAPAN	lifeboats	NORMAL PIVOT DAVIT D-NP, D-NP.MP, D-NP.SP BOAT DAVIT D-BC, D-BR RESCUE BOAT DAVIT D-CL, D-CR, D-NPS.SP, D-SR, D-NPS.MP, D-RTT RAFT HANDLING DAVIT D-RC, D-RB RESCUE BOAT HOOK RH, OLH LIFERAFT HOOK OLRH, HS LIFERAFT/RESCUE BOAT HOOK ARH, PX FAST RESCUE BOAT DAVIT D-CRM.FR, D-CRM.MOR, D-CRM.R.FR, D-NPS.FR LIFEBOAT DAVIT D-NP.MP, D-NP.SP, D-WP, D-FP, D-ND LIFEBOAT OR RESCUE BOAT DAVIT D-TT HS650, HS650F, HS520, HS520F, SO, SM, FO, FM
IHI – JAPAN /JMU	lifeboat, davit, winch	GRAVITY & FREE FALL LIFE BOAT GF, GT, GTR, GTC, S, G, MU, FN, MU – FF GRAVITY & FREE FALL DAVIT MUL, MUF WINCH MUW RESCUE BOAT MU – GI RESCUE DAVIT MUR
IKNOW - JAPAN	davit, winch	Series of davit : H,T,TC WHNICH : FB,TC, OAP
Sangsangin Industry Co., Ltd. (Ex. Dongnam Marine Crane Co., Ltd)	davit, winch	GRAVITY DHG-57-FM, HGW-40-FM, DHG-70-FM, HGW52-FM, HGW-50-FM, DHG-73-FM, HGW-61-DM SINGLE ARM DLRD, DRLD, DSAD, BV COMBLEND, DCHH, DPR, DNR, DRBD, DSAC FREEFALL DAVIT FF, HDF
JIANGYINSHI	lifeboat, davit	ANNEX REG.2.4-2.7 AND RESOLUTION MSC 152 (78) . LIFEBOAT HOOK MODIFICATION A CCORDING TO MSC .1/CIRC.1392 & MSCCIRCULAR 1206 REV .1 / MSC .402 (96)
DONGWOO	davit, winch	DWS SERIES/LRDS SERIES/RBDS SERIES/ HINGED GRAVITY BOAT DAVIT AND FREEFALL DAVIT RESCUEDAVIT AND LIFE RAFT DAVIT/

SHIGI	lifeboat	SZ Series /FEL Series /VOX Series /GARS Series /
BEIHAI	lifeboat, winch, davit, release mechanism	TOTAL ENCLOSED BH-5.5A,5S,5SA,E500,E585,6,6A,6S,E670,7A,7B,8 FREEFALL BH-F6.0,F7.0A,F7.8,F8.1,F5.8,F6.8,F660,F670,F750 RESCUE BH-R4,R4S,R4SA,R5S GRAVITY PIVOT BD-PV50,PV60,PV60S,PV85,PV125 FREEFALL LAUNCHING BD-FF55,55A,55R,FF80,80A,80R,80B,FF66,FF67,FF85 SINGLE ARM BD-SA14,14A,14B,SA21,21A,SA23,SA30,30A,SA33,SH23 GRAVITY LIFEBOAT BG-3,3L,BG-7,BH-HOOK3,HOOK5,FS5,FS7 FREEFALL LIFEBOAT BG-3.5F,4F,4.5F,4.5FL,5F,6F RESCUE BOAT BG-2R,15KNXS,25KNXS,35KNXS Free fall lifeboat JY-FN-4.9/JY-FF-4.9/JY-FN-5.8/JY-FF-5.8 JYM-FN-6.65/JYM-FF-6.65/JY-FN-6.8/JY-FF-6.8 JY-FN-7.5/JY-FF-7.5/JY-FN-8.5/JY-FF-8.5 Rescue boat GJ4.2/ GJ4.25/ GJ4.5/GJS.OG/ JS.25/ GJ6.0B-1/ GJ6.10 GJ7 .50/GJ8.0Q-2/ GJ8.SQ-2 Totally enclosed lifeboat JY-QFP/N-5.0/JY-QFP/N-5.25/GTR57JYC/F/JY-QFP/N-6.0A JY-QFP/N-6.50/JY-QFP/N-7.0/JY-QFP/N-7.5/JY-QFP /N-7.SOA JY-QFP/N-B.00/JY-QFP/N-B.50/JY-QFP/N-B.SOX JY-Q FP/ N-9.35/ JY-QF P/ N-10.90A Hook JX AND JXN Series Gravity luffing arm type davit JYL52/JYLS/JYL68/JYL85/JYL105/JYL135 Launching appliance JYFSS/JYF 75/JYF75-B/JYF90 Platform Davit JYPP65/JYPP85/JYPP105/JYPP135 Single arm davit JYR21/JYR21S-A/ JYRC 21/JYR23/JYR 14/ JYRH14/ JYRH21 Electric Boat Winch FW45/JYW42/JYWSO/JYW70/JYW100/JYWP70/JYWP100 JYWP135/JYW35/JYRZ21 GRAVITY DAVIT LE55 / LE65/ LE85/ LE100/ LE138/LE170/ HE85/HE100 LAUNCHING APPLIANCE DAVIT HF55/FH70/FH75/FH85/FH100/ SINGLE ARM DAVIT AND CRANE SAF14/ SAFC21/ SAFC25/SA32/HDCL2-6.5/HDCL3-6/HDCL3-10 OFF-SHORE DAVIT PL65/PL85/PL100/PL110/PL138/ FASTRESCUE BOAT DAVIT LFR30/LFR35/LFRH30/
JIANGSU JIAOYAN MARINE	Free fall lifeboat / Rescue boat Totally enclosed lifeboat, Hook, Gravity luffing arm / type davit Launching appliance Platform Davit, Single arm davit Electric Boat Winch	
Zhenjiang Marine Auxiliary Machinery	lifeboat, davit	

MARESCAPE	Lifeboat - Rescue Boat Launching Appliance: - Release Gear: - Winch	Acta
(Acta, BIZNCHI CECCHI, & Davit international FASSMER, GLOBAL DAVIT, Hyundai, JIANGSU JIAOYAN JIANGYIN JIAOYAN MADROCK, NARDIRO / NARDIRO, VIKING NORSAFE, ORIENTAL SEKIGAHARA PALFINGER / HARDING PALFINGER / NED - DECK SCHAT - DAVIT Harding / SCHAT - HARDING Survitec survival craft (UMOE) SCAHT - HARDING ZHEJIANG HENGXIN ZOLLERN		Single arm slewing (and luffing) crane, Gravity lowering, electric hoisting, Gravity lowering , electric hoisting ,single drum BIZNCHI & CECCHI ON -LOAD (life not over center) Davit international Gravity lowering , electric hoisting , gravity lowering ,manual hoisting FASSMER ON -LOAD (life not over center) FREEFALL MECHANIC GLOBAL DAVIT Gravity lowering , electric hoisting , gravity lowering ,manual hoisting , conventional hydraulic pivoting Hyundai ON -LOAD (life not over center) JIANGSU JIAOYAN ON -LOAD (life not over center) JIANGYIN JIAOYAN FREEFALL MECHANIC MADROCK ON -LOAD (life not over center) NARDIRO / VIKING NARDIRO ON -LOAD (life over center) NORSAFE ON -LOAD (life not over center) ORIENTAL SEKIGAHARA Gravity lowering, electric hoisting PALFINGER / HARDING AUTOMATIC RELEASE PALFINGER / NED - DECK AUTOMATIC RELEASE PALFINGER / NED - DECK SINGLE ARM SLEWING (AND LUFFING) CRANE Gravity lowering, electric hoisting SCHAT - DAVIT SINGLE ARM SLEWING (AND LUFFING) CRANE Gravity lowering, electric hoisting Harding / SCHAT -HARDING ON -LOAD (life not over center) Survitec survival craft ON -LOAD (life not over center) (UMOE) SCAHT -HARDING Gravity lowering, electric hoisting ZHEJIANG HENGXIN ON -LOAD (life not over center) ZOLLERN Hydraulic hoisting and lowering, gravity lowering
PALFINGER	Free Fall lifeboat - Lifeboat (Fast) Rescue boat, Davits, Winches Onload - Offload release	ACTA / Mulder & Rijke / Schat Davits Beiyang Boabuilding Co / Ned-Deck Marine / Schat-Davit Company Björke Båbyggger / Neptune / Schat-Harding Davit Company / Noreq Schat / London Edgewater Machine & Fabricators / Palfinger / Schat-Watercraft

Jiangyin Wolong F.R.P. Boat Co., Ltd	Lifeboat, davit and winch Release mechanism of lifeboat / rescue boat	Fiskars Palfinger / Ned-Deck / SEC Davits Harding / Palfinger Marine / Umoe-Schat Harding LAR Launch and Rescue / Palfinger Neptune / Viking Marine Maseco / RSQ / Watercraft Mills / Schat / Wateman Survival Craft -Lifeboat Open, TELB, PELB, Tender, Hyperbaric, Capsule -Free Fall lifeboat FFLB -(Fast) Rescue boat Rigid, Semi-rigid Hooks / Release Gear -Conventional hook Off-load, Camshaft, locking plate, Intermediate, Rotating cup, Drop-In-Ball -Free Fall hook Camshaft, Hydraulic jack, Rotating cup -(Fast) Rescue boat hook Fixed, Fall wire suspended -Raft hook Fall wire suspended -Combi RB/Raft hook Fixed, Fall wire suspended Davits - Gravity Davit Normal Deck Pivot, Roller Track, Multi Pivot, Slewing, Fixed Arm (Outrigger), Telescopic - Free Fall Davit FF A-frame, FF Combi-crane, FF Fixed frame - Hydraulic Davit A-Frame Pivoting, Telescopic, Slewing, Deck Pivot, Fixed Arm (Outrigger) Winches - Mechanical winch Threaded sleeve, Band brake, Knott brake, Eccentric brake, Electro-magnetic brake, Torque set brake - Hydraulic winch Hydraulic brake, Combi mechanical/hydraulic brake ACTA (KNT / DC / DR / HSC / MOB-B / MOB-L Total y Enclosed Lifeboat JY 50C/F, JY50CA / FA, JY57C/F, JY60C / E/F, JY6 5C/F, JY70C /F, JY80C / F, JY80CA/FA JY85C/F, JY85CA /FA, JY85CB/FB, JY93C /F, JY102/F, JY117C/F	
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Zhejiang hengxin	lifeboat, rescue boat, release mechanism, davit, davit and winch	Free Fall Lifeboat JY49CF/FF, JY59CF/FF, JY67CF/FF, JY85CF/FF, JY109CF/FF Rescue Boat JY40KR, JY42KR, JY45DR, JY45KR, JY50R, JY54 KR, JY60KR, JY65KR, JY75KR, JY85KR Partially Enclosed Lifeboat JY70P, JY80P, JY85P Open Type Lifeboat JY45KR, JY55K, JY65K, JY70K, JY75K, JY80K, JY85K Gravity Luffing Arm Type Davit JY-LE65, JY-L E85, JY-LE100, JY- LE150 - Launching Appliance of Free- Fall Lifeboat JY-FH55, JY-FH70, JY - FH90, JY-FH155 JY-SAP14, JY- D23Z, JY-D23 /16Z, JY-SAFC23, JY- D33/ 23Z, JY-SAF33, JY-LRHE30, JY- PLR21, JY-LFR27, JY-LRHE70 WINCH JY-D50S / Z, JY- D70S/ Z, JY-D85S / Z, JY-D110S/ Z, JY-DW1255, JY-DP1105 / Z, JY-DP150/Z, JY-DP185, JY- DP215 Release Mechanism of Lifeboat/ Rescue Boat HK40, HK40A, HK50B, HK50A, FHK70, HK70, HK115, LB60MR, LB80MR, LB120MR, FHK80, FHK 90, LB35MRS, LB70MRS Lifeboat series : BCC, BCF, BCFC, BCFF Rescue boat series : GJ, FRH, RH Release mechanism : HK Davit series : FH, SA, HDC, LFR, LR, HE, PD, DRH, LB, KN Winch series : DZB, D, DW
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