

Authorization Letter

REGISTER No:HEF20200615-01

ISSUED DATE: 15/06/2020

FIRETRACE SAFETY TEC PTE LTD.

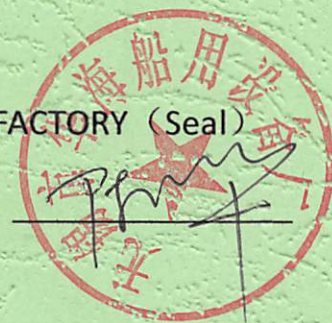
According to SOLAS Regulation III 20.3.2 and IMO/MSC.1/MSC.402 (96) , we authorize your company to service the launching appliance of lifeboat (rescue boat) by our company manufactured, Contain annual inspection / 5-yearly inspection (the next page attached list of equipment).

The above authorization is valid for a period of three years from 15/06/2020 to 14/06/2023.

No	Name	ID No	Picture
1	XIE YU	S8282246A	
2	Lee Wei Jian	S9270874H	

WUXI HUAHAI MARINE EQUIPMENT FACTORY (Seal)

Authorized person (Sign)



重力倒臂式吊艇架

Gravity Luffing Arm Davit

吊艇架型号 Type of Davit	图号 Drawing No.	最轻放艇负荷 Min. Lowering load (kN) W1	最大工作负荷 Max. working load (kN) W2	最大回收负荷 Min. recovery load (kN) W3
HML60	HML60-00	20	60	42
HML85	HML85-00	32	85	48

自由降落式救生艇降放装置

Free-fall Lifeboat Launching Appliance

艇架型号 Type of Davit	图号 Drawing No.	安全工作负荷 Safe working load (kN)	最轻降放负荷 Min. lowering load (kN)	最大回收负荷 Max. recovery Load (kN)	起艇速度 Hoisting speed (m/min)	液压系统工作压力 Working pressure of hydraulic systems (MPa)
HMD55F	HMD55F-00	55	27	42	≥3	17.5
HMD70F	HMD70F-00	70	37	50	≥3	17.5

救助艇/筏降放装置

Rescue Boats/liferafts Launching Appliances

产品型号 Model	21kN 手动 maual	21kN 电动 Electrical	25kN 电动 Electrical	21kN 电动 液压 Electrical hydraulic	25kN 电动 液压 Electrical hydraulic	32kN 电动 液压 Electrical hydraulic
图号 No. of drawing	HMD21D-00	HMD21D-00	HMD25T-00	HMD21-00	HMD25-00	HMD32-00
工作负荷 Working Load	21 kN	21 kN	25 kN	21 kN	25kN	32kN
回转负载 Slewing Load	14 kN	14 kN	14 kN	14 kN	14 kN	14kN
起升负荷 Hoisting Load	14 kN	14 kN	14 kN	14 kN	14 kN	14kN

起升速度 Hoisting Speed	/	$\geq 18\text{m/min}$	$\geq 18\text{m/min}$	$\geq 18\text{m/min}$	$\geq 18\text{m/min}$	$\geq 18\text{m/min}$
降放速度 Launching Speed	40-60m/min	40-60m/min	40-60m/min	40-60m/min	40-60m/min	40-60m/min
电能回转角度 Slewing Angle of Electric Power	/	$\leq 330^\circ$	$\leq 330^\circ$	$\leq 330^\circ$	$\leq 330^\circ$	$\leq 330^\circ$
电能回转速度 Slewing Speed of Electric Power	/	$\geq 0.8/\text{min}$	$\geq 0.25\text{r/min}$	$\geq 0.25\text{r/min}$	$\geq 0.25\text{r/min}$	$\geq 0.25\text{r/min}$
蓄能回转角度 Slewing Angle of Accumulator	/	/	/	/	$\leq 110^\circ$	$\leq 110^\circ$
蓄能回转速度 Slewing Speed of Accumulator	/	/	/	$\geq 0.5\text{r/min}$	$\geq 0.5\text{r/min}$	$\geq 0.5\text{r/min}$
允许工作倾角 Allowable Working Inclination Angle	纵倾 trim 10° 横倾 heel 20°					

电动起艇绞车

Electrical Boat Winch

绞车型号 Type of Winch	图号 Drawing No.	最大工作负载 Max. working load (kN)	起升速度 Hoisting speed (m/min)	下放速度 Launching Speed (m/min)
HMW21	HMW21-00-0	21	18	40-60
HMW25	HMW25-00-0	25	18	40-60
HMW50	HMW50-00-0	50	10,8/36	95-120
HMW75	HMW75-00-0	75	10,8/18	50-60
HMW100	HMW100-00-0	100	10,8/36	90-120
HMW110	HMW110-00-0	110	5,8/18	50-60
HMW140	HMW140-00-0	140	5	50-60
HMW185	HMW185-00-0	185	5	50-60

救助艇降放装置

Rescue Boats Launching Appliances



艇架型号 Type of Davit	图号 Drawing No.	安全工作负荷 Safe working load (kN)	起升负荷 Hoisting Load (kN)	降放速度 Launching Speed (m/min)	起艇速度 Hoisting speed (m/min)	液压系统工作压力 Working pressure of hydraulic systems (MPa)
HMD14A	HMD14A-00-0	14	14	40-60	≥18	17.5
HMD30A	HMD30A-00-0	30	30	40-60	≥18	17.5
HMD30A2	HMD30A2-00-0	30	30	48-60	≥48	17.5