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HLB Ocean Tech





HLB Ocean Tech

Representing our purpose to save a life at Sea
and bring a creative technology to the Ocean.

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HLB GROUP

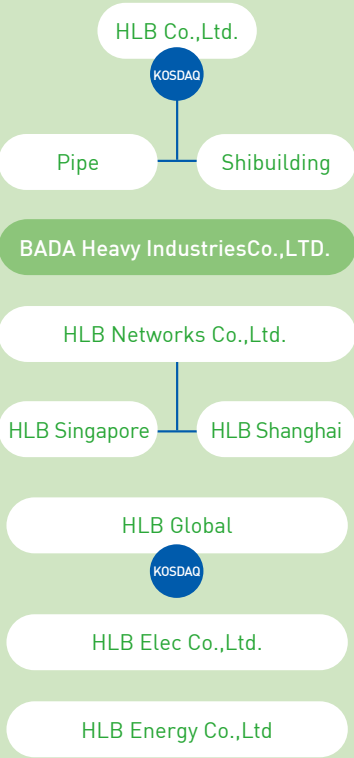
HLB Gruop's core value is 'People' and 'Challenge' , thus the failure from challenge is allowed and respected. Also authority and responsibility, achievement and compensation is always discussed and evaluated together. This is our culture and pride.



BADA



Shipbuilding & Offshore & Energy



Life & Health & Leisure

- Hyundai Yachts & Hyundai& Cosmos Yachting Co.,Ltd.
- Penguin Ocean Leisure Co.,Ltd.
- The River
- Elishacoy Co.,Ltd
- Freshico,Inc



Finance

- HLB Investment



Pharma & Bio

- Elevor Therapeutics,Inc
- HLB Life Science Co.,Ltd. , Bio KOSDAQ
- Shinhwa Advance Co.,Ltd.
- Hwajin Medical Co.,Ltd.
- HLB Pharma KOSDAQ
- HLB Cell Co.,Ltd
- HLB Science
- Immunomic Therapeutics,Inc
- Knotus KOSDAQ
- HLB Heathcare
- HLB Therapeutics KOSDAQ
- Verismo Therapeutics

GREETINGS

We Are Challenging To The Future With The Sea.

BADA Heavy Industries Co., Ltd, a company of vision, specialized in manufacturing materials and equipments for shipbuilding and offshore industries. We pursue our dream enthusiastically.

BADA Heavy Industries Co.,Ltd has been specialized in developing and manufacturing major materials and equipment for offshore, comercial and special ships including naval ships since its establishment in 1992, and is ready to create a new wave in shipbuilding and offshore industries. Through that, we will become the pillar and foundation of shipbuilding field, maritime plant and offshore industries.

We, at BADA Heavy Industries Co.,Ltd, will do our utmost to increase the satisfaction of customers and shareholders with our best efforts and enthusiasm.

I hope that you continue to show us your interest, support, and encouragement.

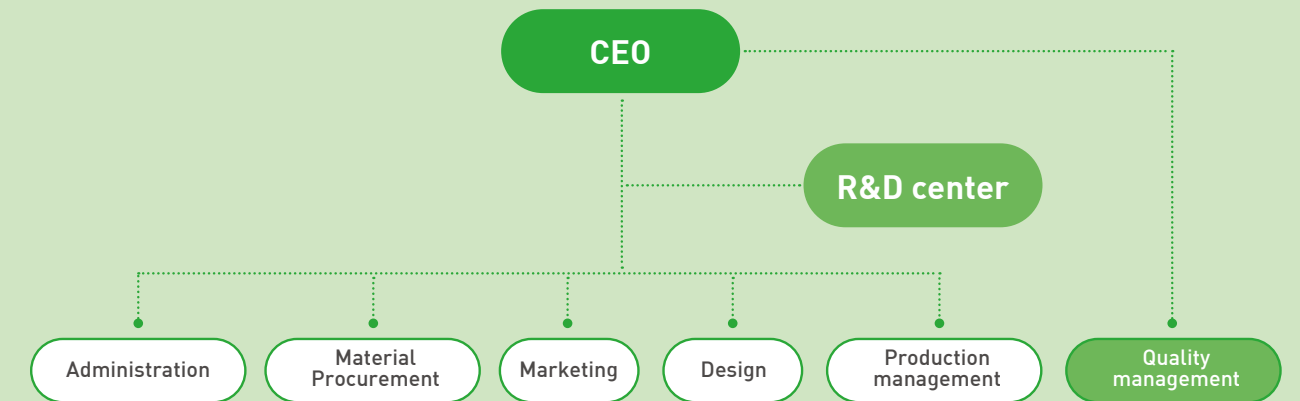
Thank you.

>> Factory



MANAGEMENT PHILOSOPHY

>> ORGANIZATION

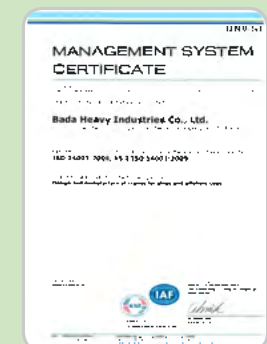


>> BUSINESS ITEM

- Special ship equipment
- Offshore equipment
- Lifeboat & Rescue boat davit
- Marine crane
- Release hook



ISO 9001: 2015
QUALITY
MANAGEMENT(DNV)



ISO 14001: 2015
Enviromental
Management (DNV)



ISO 45001:2018
Health&Safety
Management (DNV)

>> INFORMATION

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MATERIAL HANDLING EQUIPMENT (MHE)

- Most equipment can be adjusted by manual or electric type, and the shape varies depending on capacity.

	<table><tr><th>Description</th><th>Operating type</th><th>Capacity (ton)</th><th>Applicable area</th></tr><tr><td>Stacker</td><td>Manual</td><td>0 ~ 2</td><td>Safety, Zone 1, Zone 2</td></tr><tr><td>Stacker</td><td>Electric</td><td>0 ~ 3</td><td>Safety, Zone 1, Zone 2</td></tr></table>	Description	Operating type	Capacity (ton)	Applicable area	Stacker	Manual	0 ~ 2	Safety, Zone 1, Zone 2	Stacker	Electric	0 ~ 3	Safety, Zone 1, Zone 2
Description	Operating type	Capacity (ton)	Applicable area										
Stacker	Manual	0 ~ 2	Safety, Zone 1, Zone 2										
Stacker	Electric	0 ~ 3	Safety, Zone 1, Zone 2										
	<table><tr><th>Description</th><th>Operating type</th><th>Capacity (ton)</th><th>Applicable area</th></tr><tr><td>Rampwayless trolley</td><td>Manual</td><td>0 ~ 2</td><td>Safety, Zone 1, Zone 2</td></tr><tr><td>Rampwayless trolley</td><td>Electric</td><td>0 ~ 3</td><td>Safety, Zone 1, Zone 2</td></tr></table>	Description	Operating type	Capacity (ton)	Applicable area	Rampwayless trolley	Manual	0 ~ 2	Safety, Zone 1, Zone 2	Rampwayless trolley	Electric	0 ~ 3	Safety, Zone 1, Zone 2
Description	Operating type	Capacity (ton)	Applicable area										
Rampwayless trolley	Manual	0 ~ 2	Safety, Zone 1, Zone 2										
Rampwayless trolley	Electric	0 ~ 3	Safety, Zone 1, Zone 2										
	<table><tr><th>Description</th><th>Operating type</th><th>Capacity (ton)</th><th>Applicable area</th></tr><tr><td>Elephant crane</td><td>Manual</td><td>0 ~ 2</td><td>Safety, Zone 1, Zone 2</td></tr><tr><td>Elephant crane</td><td>Electric</td><td>0 ~ 5</td><td>Safety, Zone 1, Zone 2</td></tr></table>	Description	Operating type	Capacity (ton)	Applicable area	Elephant crane	Manual	0 ~ 2	Safety, Zone 1, Zone 2	Elephant crane	Electric	0 ~ 5	Safety, Zone 1, Zone 2
Description	Operating type	Capacity (ton)	Applicable area										
Elephant crane	Manual	0 ~ 2	Safety, Zone 1, Zone 2										
Elephant crane	Electric	0 ~ 5	Safety, Zone 1, Zone 2										

	<table><tr><th>Description</th><th>Operating type</th><th>Capacity (ton)</th><th>Applicable area</th></tr><tr><td>A-Frame</td><td>Manual</td><td>0 ~ 5</td><td>Safety, Zone 1, Zone 2</td></tr><tr><td>A-Frame</td><td>Electric</td><td>0 ~ 5</td><td>Safety, Zone 1, Zone 2</td></tr></table>	Description	Operating type	Capacity (ton)	Applicable area	A-Frame	Manual	0 ~ 5	Safety, Zone 1, Zone 2	A-Frame	Electric	0 ~ 5	Safety, Zone 1, Zone 2
Description	Operating type	Capacity (ton)	Applicable area										
A-Frame	Manual	0 ~ 5	Safety, Zone 1, Zone 2										
A-Frame	Electric	0 ~ 5	Safety, Zone 1, Zone 2										
	<table><tr><th>Description</th><th>Operating type</th><th>Capacity (ton)</th><th>Applicable area</th></tr><tr><td>Elevating Platform</td><td>Manual</td><td>0 ~ 0.3</td><td>Safety, Zone 1, Zone 2</td></tr><tr><td>Elevating Platform</td><td>Electric</td><td>0 ~ 0.3</td><td>Safety, Zone 1, Zone 2</td></tr></table>	Description	Operating type	Capacity (ton)	Applicable area	Elevating Platform	Manual	0 ~ 0.3	Safety, Zone 1, Zone 2	Elevating Platform	Electric	0 ~ 0.3	Safety, Zone 1, Zone 2
Description	Operating type	Capacity (ton)	Applicable area										
Elevating Platform	Manual	0 ~ 0.3	Safety, Zone 1, Zone 2										
Elevating Platform	Electric	0 ~ 0.3	Safety, Zone 1, Zone 2										
	<table><tr><th>Description</th><th>Operating type</th><th>Capacity (ton)</th><th>Applicable area</th></tr><tr><td>Pallet stacker</td><td>Manual</td><td>0 ~ 2</td><td>Safety, Zone 1, Zone 2</td></tr><tr><td>Pallet stacker</td><td>Electric</td><td>0 ~ 5</td><td>Safety, Zone 1, Zone 2</td></tr></table>	Description	Operating type	Capacity (ton)	Applicable area	Pallet stacker	Manual	0 ~ 2	Safety, Zone 1, Zone 2	Pallet stacker	Electric	0 ~ 5	Safety, Zone 1, Zone 2
Description	Operating type	Capacity (ton)	Applicable area										
Pallet stacker	Manual	0 ~ 2	Safety, Zone 1, Zone 2										
Pallet stacker	Electric	0 ~ 5	Safety, Zone 1, Zone 2										

	<table><tr><th>Description</th><th>Operating type</th><th>Capacity (ton)</th><th>Applicable area</th></tr><tr><td>Roller platform</td><td>Manual</td><td>0 ~ 30</td><td>Safety, Zone 1, Zone 2</td></tr></table>	Description	Operating type	Capacity (ton)	Applicable area	Roller platform	Manual	0 ~ 30	Safety, Zone 1, Zone 2				
Description	Operating type	Capacity (ton)	Applicable area										
Roller platform	Manual	0 ~ 30	Safety, Zone 1, Zone 2										
	<table><tr><th>Description</th><th>Operating type</th><th>Capacity (ton)</th><th>Applicable area</th></tr><tr><td>Cart</td><td>Manual</td><td>0 ~ 5</td><td>Safety, Zone 1, Zone 2</td></tr><tr><td>Cart</td><td>Electric</td><td>0 ~ 15</td><td>Safety, Zone 1, Zone 2</td></tr></table>	Description	Operating type	Capacity (ton)	Applicable area	Cart	Manual	0 ~ 5	Safety, Zone 1, Zone 2	Cart	Electric	0 ~ 15	Safety, Zone 1, Zone 2
Description	Operating type	Capacity (ton)	Applicable area										
Cart	Manual	0 ~ 5	Safety, Zone 1, Zone 2										
Cart	Electric	0 ~ 15	Safety, Zone 1, Zone 2										
	<table><tr><th>Description</th><th>Operating type</th><th>Capacity (ton)</th><th>Applicable area</th></tr><tr><td>Drum trolley</td><td>Manual</td><td>0 ~ 1</td><td>Safety, Zone 1, Zone 2</td></tr></table>	Description	Operating type	Capacity (ton)	Applicable area	Drum trolley	Manual	0 ~ 1	Safety, Zone 1, Zone 2				
Description	Operating type	Capacity (ton)	Applicable area										
Drum trolley	Manual	0 ~ 1	Safety, Zone 1, Zone 2										

			
Description	Operating type	Capacity (ton)	Applicable area
Scissor lift	Manual	0 ~ 1	Safety, Zone 1, Zone 2
Scissor lift	Electric	0 ~ 3	Safety, Zone 1, Zone 2

			
Description	Operating type	Capacity (ton)	Applicable area
Multi roller	Manual	0 ~ 50	Safety, Zone 1, Zone 2

			
Description	Operating type	Capacity (ton)	Applicable area
Trolley hoist	Manual	0 ~ 20	Safety, Zone 1, Zone 2
Trolley hoist	Pneumatic	0 ~ 100	Safety, Zone 1, Zone 2
Trolley hoist	Electric	0 ~ 100	Safety, Zone 1, Zone 2

			
Description	Operating type	Capacity (ton)	Applicable area
Charging station	Electric	-	Safety, Zone 1, Zone 2

			
Description	Operating type	Capacity (ton)	Applicable area
Beam clamp	Manual	0 ~ 10	Safety, Zone 1, Zone 2

			
Description	Operating type	Capacity (ton)	Applicable area
Tripod	Manual	0 ~ 1	Safety, Zone 1, Zone 2
Tripod	Electric	0 ~ 2	Safety, Zone 1, Zone 2

			
			
Description	Operating type	Capacity (ton)	Applicable area
Container lifting devices	Manual	0 ~ 20	Safety, Zone 1, Zone 2

			
Description	Operating type	Capacity (ton)	Applicable area
Pusher	Electric	0 ~ 50	Safety, Zone 1, Zone 2

			
Description	Operating type	Capacity (ton)	Applicable area
Spreader bar	Manual	0 ~ 50	Safety, Zone 1, Zone 2

MATERIAL HANDLING EQUIPMENT (MHE)



■ Electric deck trolley



■ Electric Rampway-less Trolley



■ Electric Pallet Stacker



■ Manual floor crane



■ Elephant crane



■ Battery Charging Station (Individual)



■ Manual Deck Trolley



■ Electric Forklift Truck



■ Electric Pallet Truck



■ Electric Working Platform



■ Jib crane



■ Scissors lift table



■ Manual stacker



■ Chain & Lever Block



■ Electric Floor Crane



■ Electric Platform Trolley



■ Electric Elephant Crane



■ Bridge & Over head crane



■ chainless trolley hoist



■ Lift table

- BUNKER STATION (Hose Reel)



○ SPECIFICATION

MODEL	CAPACITY (TON)	SPECIFICATION
HOSE	Diesel Oil	4" x 60M
	Potable Water	4" x 60M
	Bulk Cement	5" x 60M
FORM / WEIGHT	Overall Dimension(mm)	3,710H x 3,380W x 4,883L
	Reel size(mm)	3,250 O.D X 1,520 I.D
	Total Weight(kg)	Total : 8.0 ton
SYSTEM DRIVING	Winding Speed (3Reel)	0~3 min
	Hydraulic Test	1.5 x Working Pressure
STRUCTURAL SAFETY	Pulling Force	2.2 Ton
	Corrosion Protection	NORSOK Standard M-501, rev03
WELDING SAFETY	Frame & Platform, Reel	NORSOK Standard M-101 NDT Test



■ HPU



■ HP Panel & Remote control



■ Bulk line fitting



■ Flexible joint

- FENDER DAVIT



○ SPECIFICATION

TYPE	Elec-Hyd. Driven
SWL	16Ton
Fender size	4.5 x 9.0m
Features	- Shock absorber - Explosion proof system - Customizing design for fender size - Mechanical Auto Tension

- TELESCOPIC GANGWAY



○ FEATURES

- CCTV Monitoring
- Wireless Remote controller
- Free coupling system by Auto sensor
- Power failsafe brake and relief valve or over-load
- Rolling Compensator and shock absorb system at serious sea state

○ SPECIFICATION

Max.extended length	8,110mm
Mid.length	7,324mm
Min.retracted length	6,536mm
Luffing working angle	maximum up +10° ~minimum down -6°



○ SPECIFICATION

Full extension	40m
Min.length	25m
Indication angle	±30°
Features	- Vertical parking - CCTV Monitoring - Wireless Remote controller - Certified by DNV-ST-0358

SPECIAL SHIP EQUIPMENTS

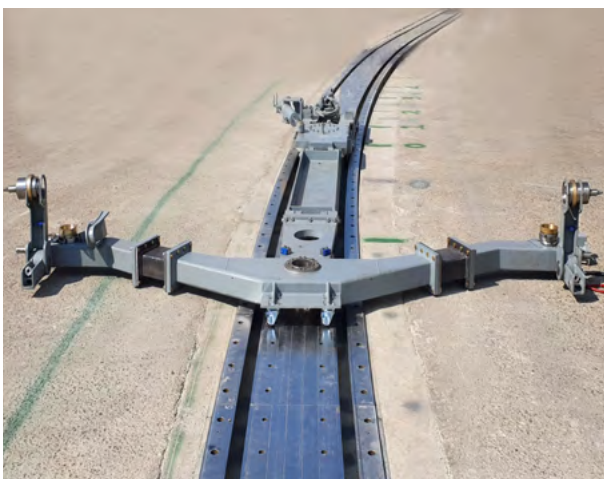
Since 1992, BADA has been supplying various types of special equipment to the navy and police ships. If you look into our records with accumulated technical information, you'll be assured how skilled we're.



■ Hangar Door (Roll Shutter type)



■ Helicopter Traversing System (3 winch 5 wire type & Rail type)



■ Helicopter Traversing System (Handler type)



■ RHIB Davit (Double Luffing Arm type)



■ RHIB Davit (Telescopic type)



■ RHIB Davit (Single arm type)



■ RHIB Davit (Single arm_Cylinder luffing type)



■ MDV(Mine Disposal Vehicle) Handling davit



■ Knuckle & Telescopic Crane (Non magnetic)



■ Anchor Windlass (Non magnetic)



■ STERN LARS

SPECIAL SHIP EQUIPMENTS

- FAST RESCUE BOAT DAVIT

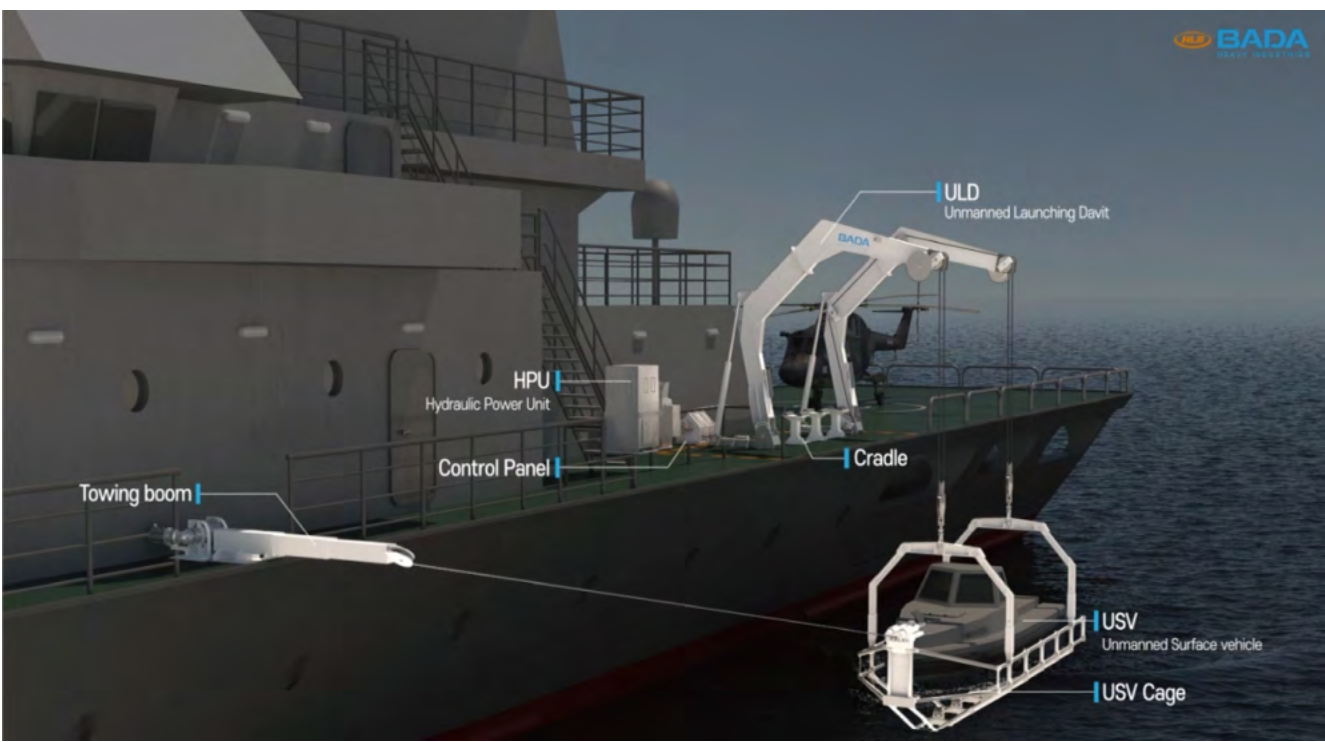
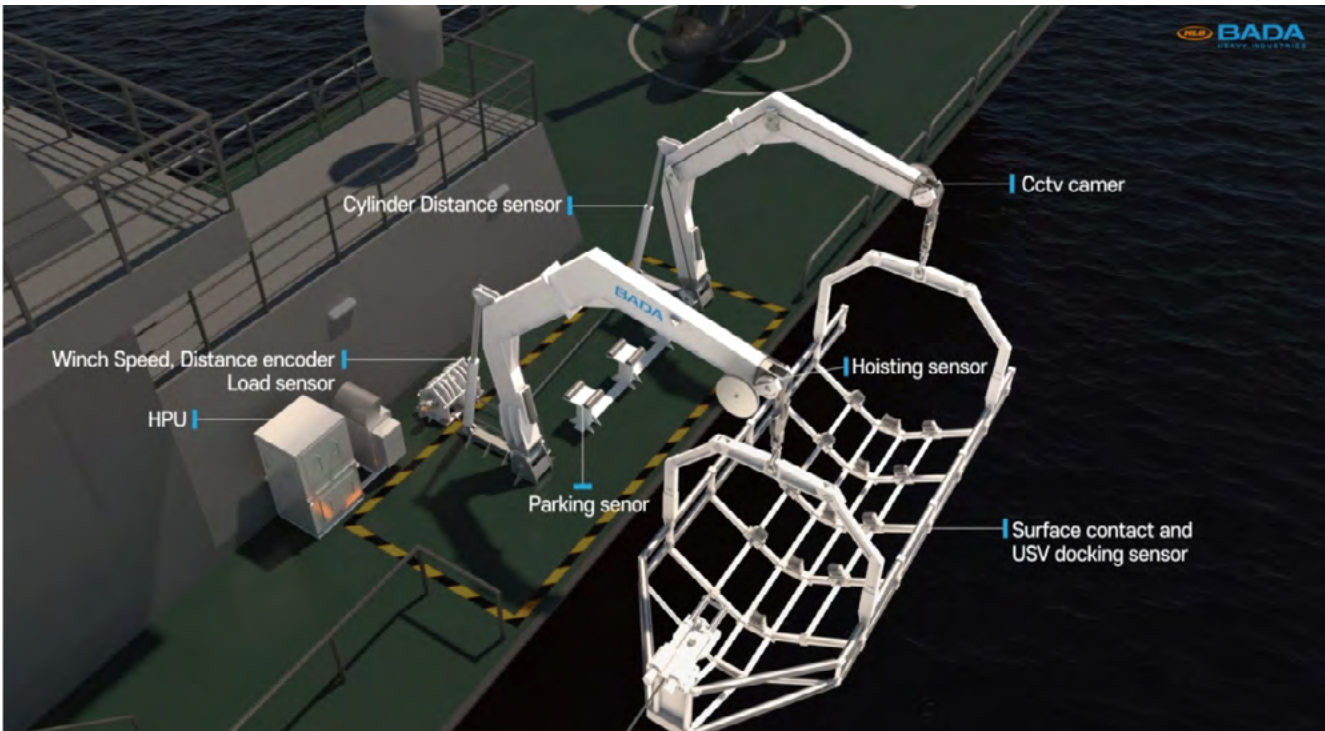


○ SPECIFICATION

TYPE	Single Arm Docking Head	FEATURE	<ul style="list-style-type: none">- Safety arm (to prevent swing until the anti-pendulation grabs the boat)- Auto-tension- Shock absorber- Anti-pendulation- Remote controller
MODEL	BFRD040~85		
SWL	Min. 3,500kg ~ 9,000kg		
Outreach	Min. 3.1M to Center line of Fast rescue boat		
Operation Speed	: abt. 35m/min.		



-USV Launching & Recovery System



SPECIAL SHIP EQUIPMENTS

- SIDE LARS (Launch And Recovery System)

FEATURES

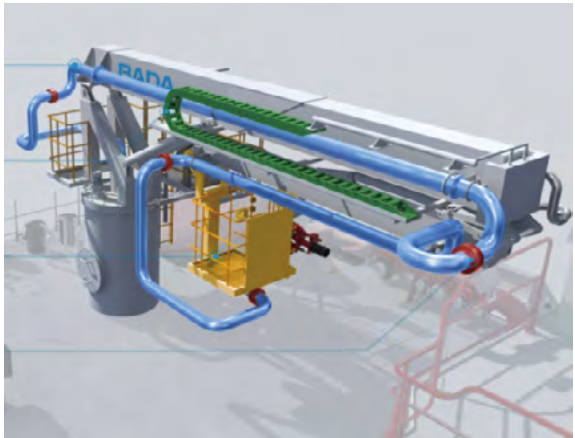
TYPE	Elec. Hoist, Lowering, Slewing, Traveling	<ul style="list-style-type: none"> - Safety device for each function - DNV Certification
CAPACITY	6ton/set x 2sets = 12tons	
Outreach	abt. 5.2m	
Traversing length	abt. 12.6m	
Lifting height	abt. 15m	



- FIRE FIGHTING CRANE

FEATURES

TYPE	Elec.-Hyd. Cylinder Luffing, Telescopic with Articulated	<ul style="list-style-type: none"> - CCTV Monitoring & Wireless Remote controller with Screen - Auto Leveling system Basket and Auto deployment. - Man-riding system (2persons) - Power failsafe brake and relief valve - KR Certification
CAPACITY	0.3ton x 20m (Vertical), 16.5m (Horizontal)	
Rotation	360° continuous for water / foam service	



SPECIAL SHIP EQUIPMENTS

- FULLY ELECTRIC WATERTIGHT SLIDING DOOR

ELECTRIC DRIVEN TYPE

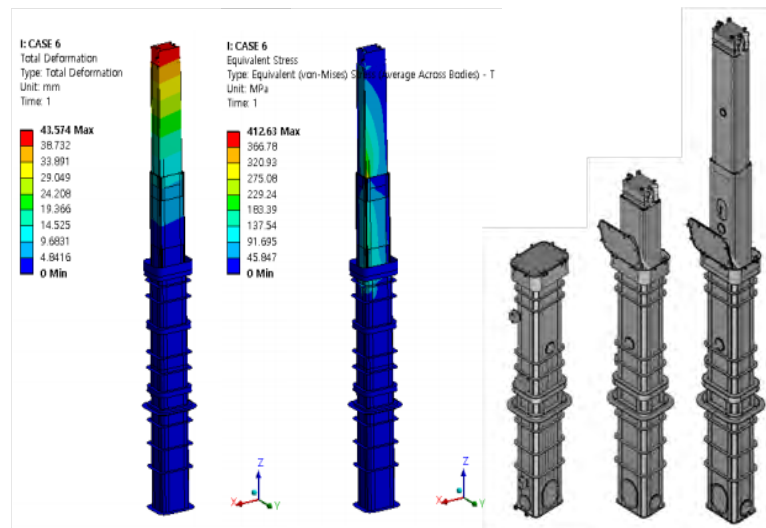
This electric type water tight sliding door is supplied with Compact size and light weight according to SOLAS regulation, This enables vessel can save many spaces and provides easy and cost effective maintainance for shipowner.



FEATURES

- Clear Opening(mm) : abt. 900 (W) x 1900 (H)
- Water Head : abt. 0.35~0.63 bar
- Door Operation condition : List $\pm 15^\circ$
- Operating time (open & close)
 - * Main Electrical power : abt. 35~43 sec.
 - * Emergency Generator : 70 ~85 sec.
- Emergency Operation
 - * Local Hand Generator with Hand crank & Battery

- RETRACTABLE SLIDING PADEYE



SPECIFICATION

- Telescopic retractable type (Hyd. Driven)
- Size : 1,348 x 1,122 x 6,248 mm (WDH) / customizing
- SWL : 6,000lb (2,725kg)
- Operation time : abt. 12m/min
- Up to Sea State 5



- A-FRAME



SPECIFICATION

SWL Max.60Ton
Folding angle -22.4° In ~ 56° Out



SPECIFICATION

- Clear opening : 12,200 x 5,800 (Max.)
- Operating time : within 40sec.
- Wind speed : Max. 20m/s
- Wind Load : 1.4 kPa (for structure)
- Weight : abt. 800kg/st

- CANVAS TYPE ROLL SHUTTER DOOR



Wind test (Max. 30m/sec)

- CANVAS TYPE RCS MASK

- Clear Size : 6.6m(W) x 3.2m(H)
- Mat'l : Canvas Fabric w/ Shield sheet
- Driven : Elec. Motor
- Time : Max. 20 sec
- Trans. coefficient : 1/100 이하
- Frequency band(range) : 4 to 18 GHz
- Self-weight : abt. 0.8 ton

RCS Shilding performance

- Radio wave transmission recovery rate : avg. under 1/100
(Transmitted Power Loss : reduced to more than 30dB)



RCS Screen (Canvas type)

LNG BUNKERING LOADING ARM



SPECIFICATION

- SWL : 2 of 3ton x Max. 18m
- Max. Moment on the slewing ring : 150Ton-m
- Out reach : Min.10.2m ~ Max.18m
- Features :
 - Hammer Head system for pipe (8" & 6") connection
 - ERS(Emergency Release System)
 - QC/DC(Quick Connect/Disconnect Coupler)



MARINE CRANE



Provision crane



Hose handling crane



Articulated Grab Crane



Knuckle Crane



Telescopic & Knuckle crane



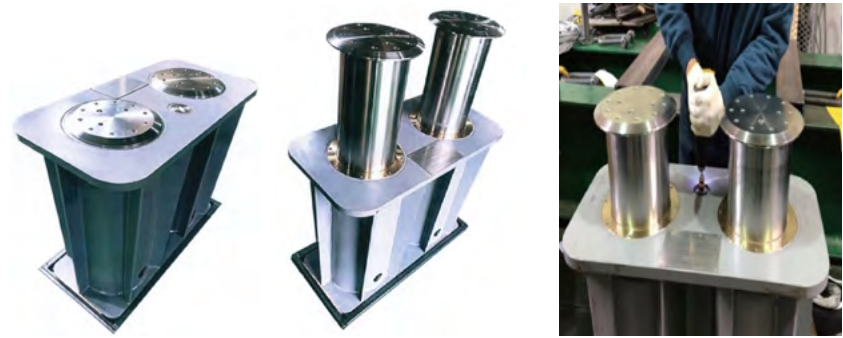
Provision & Rescue boat combined crane

OFFSHORE WIND FARM CRANE

- MECHANICAL POWERED RETRACTABLE BITT

○ SPECIFICATION

Breaking Strength	abt. 36Ton
Material	Duplex & SUS316L



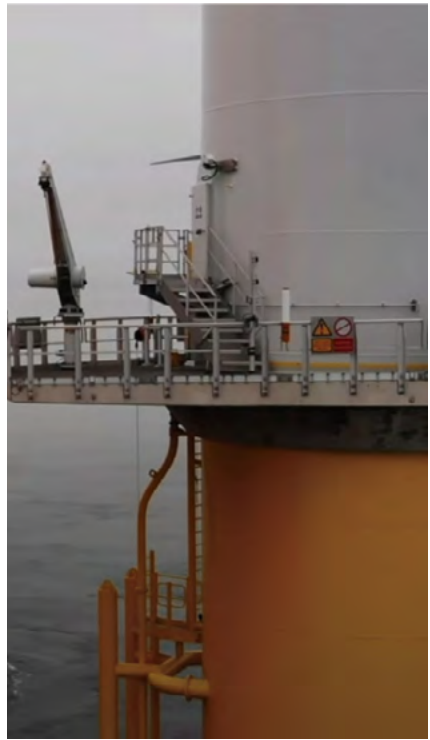
- Capacity : SWL 1.0 – 3.0 ton @ Max. 10M
- KOSHA(Korea Occupational Safety and Health Agency) Certified (한국산업안전공단 인증)
- Reference : Doosan_Jeju Hanlim offshore wind farm (18ea)
Samhae_Yeonggwang Nakwol offshore wind farm (64ea)



- MECHANICAL MANUAL RETRACTABLE CROSS BITT

○ SPECIFICATION

Mooring and Towing for JLOTS (Joint Logistics Over The Shore)
 Breaking Strength - 25Ton
 ISO 13797:2012(E) Standard



POLAR SAFETY

Bada has decades of experience when it comes to Polar safety

As an industry pioneer in winterization technologies for davits and crane, we hold years of experience in developing equipment specifications and standards for Polar conditions.

- PROPOSAL OF ITEM UNDER THE POLAR CODE

- 1. Lifeboat davit
- 2. Rescue boat davit
- 3. Lifteraft davit
- 4. Deck crane
- 5. Small davits



Bada supplies Polar Code compliant lifeboat davit, rescue boat davit , life raft davit and crane solutions for all types of demanding maritime applications.



■ Arctic type(-52°C)_Lifteraft Handling davit



■ Lifeboat Davit Chamber Test under Extremely low temperature(-62°C)

LIFEBOAT DAVIT / RESCUE BOAT DAVIT

- FREEFALL TYPE



MODEL	PERSON OF CAPACITY	M.W.L(Kg)	REMARKS
BDF25S	Max. 25P	7,200	1. Free fall launching type 2. SOLAS rule as amended 3. Hyd. Winch operation 4. M.E.D. Type approved.
BDF35S	Max. 35P	8,001.5	
BDF90S	Max. 43P	9,748	
BDF120S	Max. 60P	15,750	
BDF150S	Max. 80P	21,600	

- HINGE GRAVITY TYPE



MODEL	PERSON OF CAPACITY	M.W.L(Kg)	REMARKS
BDH58S	Max. 32	5,800	1. Gravity lowering type 2. SOLAS as amended 3. Elec. Winch driven 4. M.E.D. Type approved.
BDH70S	Max. 40	7,000	
BDH90S	Max.61	9,600	
BDH125S	Max. 90	12,500	
BDH200S	Max. 150	20,000	

- OUT RIGGER-FIXED PLATFORM TYPE



○SPEC

MODEL	PERSON OF CAPACITY	M.W.L(Kg)	TYPE	REMARKS
BFOD90S	Max. 60	10,000	Elec.Motor driven	- Gravity lowering - SOLAS as amended - M.E.D. Type approved

- ROLLER TRACK WAY TYPE



○SPEC

MODEL	PERSON OF CAPACITY	M.W.L(Kg)	TYPE	REMARKS
BDTW25S	Max. 25	4,800	Elec.Motor driven	- Gravity lowering - Roller track way sliding - SOLAS as amended
BDTW100S	Max. 100	13,600		

LIFEBOAT DAVIT / RESCUE BOAT DAVIT

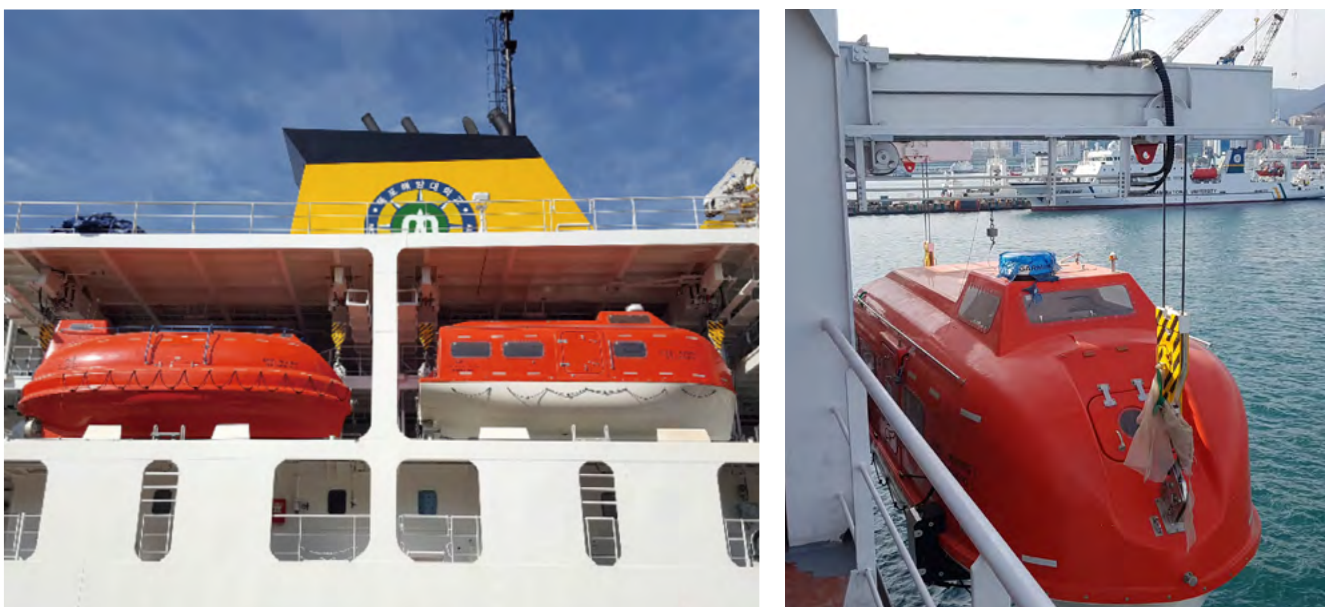
- HYDRAULIC PIVOT TYPE(Semi gravity)



○ Reference technical data

- * Model : BDTD60P
- SWL : 9,600 kg (Boat self weight + Full complements)

- TELESCOPIC TYPE



○ Reference technical data

- * Model : BDTD60P
- SWL : 9,900 kg (Boat self weight + Full complements)

- MULTI PIVOT TYPE



○ SPEC

MODEL	PERSON OF CAPACITY	M.W.L(Kg)	REMARKS
BDM70S	Max. 45	7,000	1. Gravity lowering 2. Stepless type 3. SOLAS as amended 4. Elec. Winch driven 5. M.E.D. Type approved.
BDM130S	Max. 84	13,000	
BDM170S	Max. 100	17,000	

- RESCUE BOAT & LIFERAFT DAVIT(Single arm, A-Frame type)



MODEL	MAX. WORKING LOAD		REMARKS
	RESCUE BOAT	LIFE RAFT	
BDR25S	1,100 Kg	2,350 Kg	1. Elec Motor hoisting 2. Hyd. Slewing 3. Hoisting speed : 18m/min 4. According to SOLAS regulation 5. MED Type approved (CE Mark)
BDR25U	1,550 kg	2,350 kg	
BDR25F	1,800 kg	2,350 kg	
BDR35S	1,100 Kg	3,300 Kg	

FAST RESCUE BOAT DAVIT(A-FRAME PIVOT HINGE TYPE)

○ SPEC

MODEL	HOISTING SPEED	LOWERING SPEED	MAX. WORKING LOAD
BDA16S	18~ 48m/min	avg. 60 m/min	1,600 kg
BDA20S	18~ 48m/min	avg. 60 m/min	2,000 kg
BDFA33S	18~ 48m/min	avg. 60 m/min	3,500 kg

- RELEASE MECHANISM

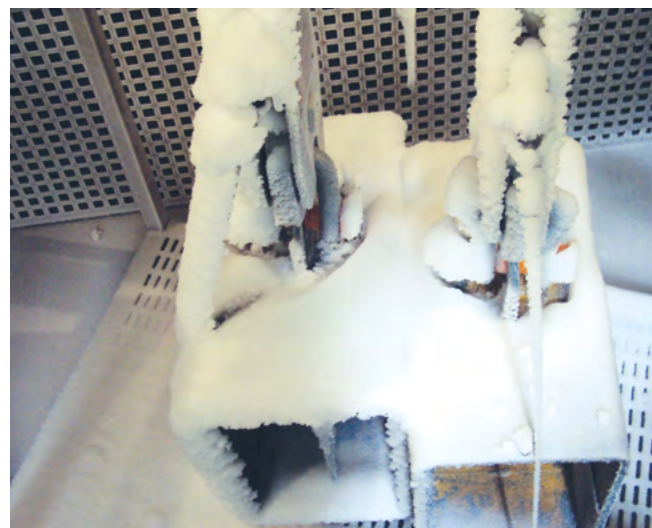
The BADA HI Release hook is designed to carry out and launch rescue boats and similar crafts in compliance with the latest regulation of SOLAS. BADA HI Release hooks are manufactured in complicated and strict tests.

○ SPEC

MODEL	S.W.L	USE	REMARKS
BHR25S	2.5 Ton	For rescue boat	M.E.D Type Approved
BHA25S	2.5 Ton	For liferaft	
BHA40S	4.0 Ton	For liferaft	
BHR35F	3.5 Ton	For fast rescue boat	
BHR60F	6.0 Ton	For fast rescue boat	
BHR80F	8.0 Ton	For fast rescue boat	



○ HOOK SIMULATION TEST LAB



Bada Heavy Industries has world wide service networks including HLB Networks & HLB Singapore & HLB Shanghai to offer best lifeboat davit service anywhere and anytime with well trained and qualified service technicians



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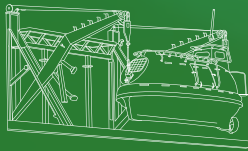
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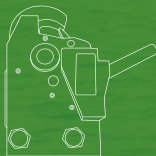
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