Base Load Power Hub (BLPH)

TDS - DAVIT CRANE

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01	24/06/2024	Accepted for Contruction (AFC)	F.Mura	M.Marchetti	D.Losterzo
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Rev.	Date	Description	Prepared	Reviewed	Approved

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1	Cover	X	X						
2	Table of Contents	X	X						
3	Revision / Change Log	X	X						
4	Data Sheet	X	X						
5	Data Sheet	X	X						
6	Crane Dimensions	X	X						
7	Weight Data Sheet	X	X						

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Revision / Change Log

Rev.	Description
00	ISSUED FOR REVIEW (IFR)
01	ACCEPTED FOR CONSTRUCTION (AFC)

HOLDS LIST

No.	Description
1.	
2.	
3.	
4.	

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CROSSWIND	HOLLANDSE KUST NOORD WIND PARK Project Contract No. CW-I-WP4-2023-05	ROSETTI MARINO
Document Title:	TDS - DAVIT CRANE	Sh 4 of 7 Date 24/06/2024 Rev 01

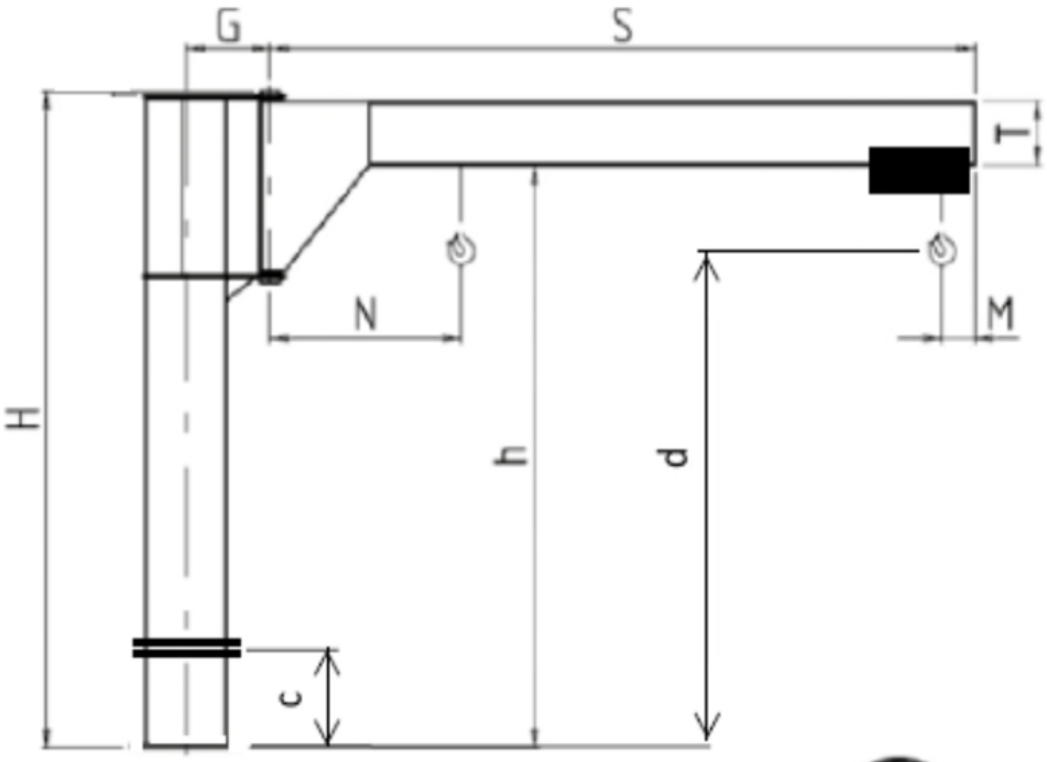
								Rev.
1	SERVICE	**Lifting davit**		ITEM				
2	MANUFACTURER	**By Supplier**		MODEL	**By Supplier**			
3	INSTALLATION	■ ON PLATFORM		☐ ON WHARF		☐ **ON FLOATING**		
4	SERVICE	■ MAINTENANCE / ERECTION		■ CHARGE/DISCHARGE				
5	TYPE	☐ LATTICE JIB		☐ TELESCOPIC BOX JIB		■ **JIB CRANE**		
6	OPERATION	☐ CONTINUOUS		■ INTERMITTENT		■ **DISCONTINUOUS**		
7	CONTROL SYSTEM	■ ELECTRICAL		☐ HYDRAULIC		☐ **MANUAL**		
	CONSTRUCTION FEATURES							
8	JIB LENGTH		m	**by Supplier**				
9	MIN / MAX WORKING RADIUS		m	**Min (by Supplier) / 5,0÷10**				
10	MIN / MAX HEIGHT HOOK		m	**See sheet 6**				
11	NORMAL CAPACITY		ton	**3,5 T @ 5m / 1T@10m**				
12	LIFT VELOCITY MIN/MAX		m/min	**by Supplier**				
13	HOOK TRAVEL		m	**to reach supply vessel, boat landing, all decks (see note c at page 6)**				
14	JIB ROTATION ANGLE		deg	**180°C (vendor to confirm max angle)**				1
15	ROTATION VELOCITY		RPM	**by Supplier**				
16	DRIVER POWER		kW	**by Supplier**				
17	SIGNIFICANT WAVE HEIGHT		m	**1,5**				1
18	MAX. WIND SPEED DURING OPERATION		km/h	**Ref. doc. CWHKN-INN-BPH-DTS-00005 and K559-2254-PM-PLN-003**				
19								
20	DRIVER FOR	■ HOOK LIFTING		■ TROLLEY OF HOIST		■ ROTATION		
21								
22	MOTOR TYPE			**Asinchronous Motor**				
23	ELECTRICAL MOTOR							
24	POWER FOR (A)		kW	**by Supplier**				
25	N. POLES FOR			**by Supplier**				
26	VOLT/PHASES/CYCLES			**400 VAC/3/50**				
27	EXECUTION/MEC. PROTECTION			**Safe Area**	**IP56 Protection F**			1
28	MANUFACTURER			**by Supplier**				
29	**Note** Vendor to install space heater (230V-1PH-PE 50 Hz) if necessary according to Enviromental conditions (ref IOGP S-703 par 11.3.6.1)							
30	☐ ELECTRIC MOTOR FOR HYDRAULIC TRASMISSION			**N/A**				
31		MANUFACTURER						
32		VOLT/PHASES/CYCLES			**POWER**		**kW**	
33		EXECUTION						
34								
35	TOTAL WEIGHT OF HOIST				Ton	**By Supplier**		
36	MAX. VERTICAL FORCE				Ton	**By Supplier**		
37	MAX. VERTICAL MOMENT				Ton*m	**By Supplier**		
38	MAX. TORSION MOMENT				Ton*m	**By Supplier**		
39	MAX. DOWNWARD FORCE AT ONE SIDE OF RING				Ton	**By Supplier**		
40	MAX. UPWARD FORCE AT OPPOSITE SIDE OF RING				Ton	**By Supplier**		
	STANDARDS & CONSTRUCTION RULES							
41	FEM 1.001 or equivalent	EQUIPMENT DESIGN CLASS	**A4**		MECHANISM DESIGN CLASS	**M4**		
42	EN 13001 or equivalent							
43	ISO/TR 25599:2005 or equivalent							
	NOTES							
44	The design of the new offshore davit crane on the new platforms shall be :							
45								
46	1- Equipped by manual load release mechanism in case of emergency,sling manual descending to safe area [boat landing] is required as an option							
47	2- Horizontal and rotation movement (though gear and endless screw cranck driven) of the davit crane is required to reduce muscular tension and							
48	pulling forces to eliminate the risk of falling from heights during lifting operation							
49	3- Supplier to ensure that lifting overload protection is in place, that load movement remains locked in case of failure of power supply from boat							
50	power cut-off from local switch board, and sling manual descending to safe area [boat landing] is required as an option							
51	4- Davit beam to be certified							
52	5- No gas pressurized cylinders lifting shall be allowed							

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							Rev.
1	**EXTENT OF SUPPLY**						
2	■ SAFETY HOOK WITH ANTI-RELEASE DEVICE						
3	☐ OVERLOAD ACUSTIC SIGNAL				■ MOPS		1
4	■ SPARE PARTS FOR COMMISSIONING AND START-UP				■ AOPS		1
5	■ SPARE PARTS FOR 2 YEARS OPERATION						1
6	■ J.B.						
7	■ LUBRICANTS						
8	■ PAINTING						
9	■ TEST & CERTIFICATES	According To	**123A90-DDL-MAC-SP-50034**	Technical Specification for DAVIT CRANE			
10	■ DOCUMENTATION	According To	**123A90-DDL-MAC-SP-50034**	Technical Specification for DAVIT CRANE			
11	■ TROLLEY						
12	☐ HYDRAULIC GEARCASE						
13	■ ELECTRIC PANEL (POWER AND CONTROL)						
14							
15	- CONTROL SYSTEM	**YES**		■ FROM LOCAL CONSOLE			1
16				☐ FROM REMOTE CONTROL			
17							
18	- BATTERY LIMITS	MECHANICS	■ COUPLING FLANGE/PLATE TO THE SUPPORT BASE + ADAPTER TO BE				
19			WELDED TO PLATFORM STRUCTURE				
20							
21		ELECTRICS	■ JUNCTION BOX				
22							
23	**TO BE INCLUDED IN THE SUPPLY THE FOLLOWING:**						
24	- ROTATION LIMITATOR						
25	- ALL THE SYSTEM CHAINS + TROLLEY + PULLEY + HOOK SHALL BE MADE IN ANTI-SPARKING MATERIALS						
26	- BASE FLANGE, COUNTERFLANGE AND ADAPTER (INCLUDING CERTIFIED BOLTS)						
27	- CERTIFICATES 3.1 FOR STRUCTURES						
28	- CERTIFICATES 3.2 FOR ROPES/CHAINS, PULLEY AND HOOK						
29	- TESTING BY CONTRACTOR / COMPANY						
30							
31	REFERENCE DOCUMENTATION according to :						
32	123A90-DDL-MAC-MR-50033	MR - DAVIT CRANE					
33							
34	The supply shall be according to applicable EN or DNV Standards						
35							
36							
37							
38							
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41							
42							
43							
44							
45							
	Additional Notes						
46							
47							
48							
49							
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52							
53							
54							

Rev.

PRELIMINARY SKETCH; DETAILS AND ALSO ROTATION AXIS POSITION TO BE DEFINED BY SUPPLIER.



Column-mounted jib crane - Rotation α°



H = by supplier
h = by Supplier
d = 4000
T = by Supplier
N = by Supplier as minimum as possible
M = by Supplier as minimum as possible
G = by Supplier
S = by Supplier
c = 500 (preliminary)

α = 180° (Note d)
G+S-M = 10000 mm

1

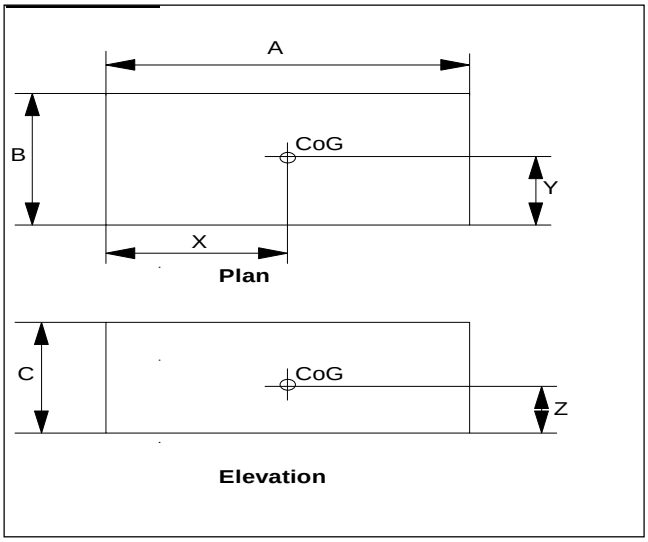
NOTES:

a) All dimensions are in mm.
b) Dimension shall be finalized according to Supplier data.
c) The lifting davit will be installed on the platform upper deck + 30.310 T.O.S
d) Exact rotation angle defined according to operating requirements and to be finalizaed.
e) SWH 1,5 m

WEIGHT DATA (kg)

		Areas for input by Supplier	
Dry Weight	(I)		kg
Content	(II)		kg
Operating Weight	(I+II)		kg
Auxiliaries' weight, included in I (specify under Notes)			kg
Test weight, i.e. filled with water			kg
Transport weight			kg

CENTRE OF GRAVITY (CoG) DATA FOR INSTALLED DRY CONDITION



Overall dimensions	
A =	mm
B =	mm
C =	mm

CoG location (mm)	
X =	mm
Y =	mm
Z =	mm

NOTES

WEIGHT AND CoG STATUS (TICK OFF AS APPROPRIATE)

☐ Estimated	☐ Calculated
☐ Catalogue data	☐ Weighed