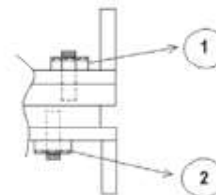
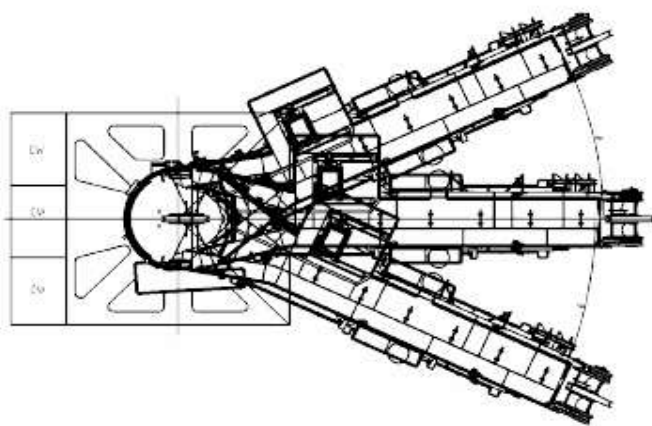
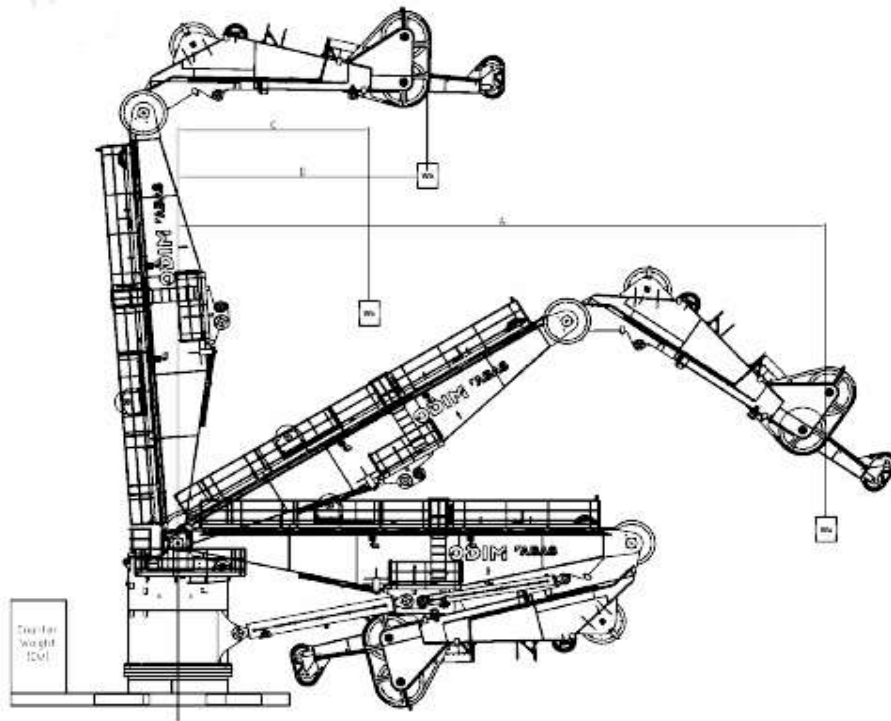


## IMR Larissa – SX 130 Offshore Crane Specification

General Description	<p>The crane is a knuckle boom design with the main hook rated at 150T SWL (DAF 1.3) and a 10 T SWL rated auxiliary hook. The main line is designed to deploy subsea loads to 2500m (single fall). And features Active Heave Compensation rated @ 2.0 m/s up to the full 150 Te load. Constant Tension is available on both hooks.</p> <p>The crane is installed at Starboard Side, located centrally along the length of the aft deck providing access to approx. 80% of the deck @ 75 Te SWL and almost the whole deck at 50 Te SWL. Two x 5 Te SWL Constant Tension tugger winches are installed on the front the crane slewing column.</p> <p>The operator cabin is equipped with controls and communication like VHF, UHF and Clearcom</p>
Manufacturer / Model	ODIM – OCS2100/150T-12M/10T-25M
Design Basis	DNV Lifting Appliances 1994 Design temperature -20° C - +40° C
Minimum / Maximum radius	7m / 23,5m (Main Hook)
Dynamic Amplifying Factor (DAF)	1.3 (2.0 on pedestal / slew system)
Maximum dynamic load	195 Te
Slew sector / Speed	360° / 0 – 0.8rpm
Operating Limits	Max List : 5°, Wind Speed: 25m/s
Main Hook Constant Tension Main Wire Wire installed Hook travel length Wire drum diameter (on Lebus) Wire diameter Weight in air	150 Te SWL Ramshorn Swivel, (Bullhorn hook), Weight in air 4.5T According to Load Charts 0 – 150T. Available from 20m Safety Depth 20m 2418m x Ø 76mm galvanized non-rotating. Last cut-back 03.03.2017 2327m (based on min 10 turns / 91m left on inner layer on wire drum) 2896mm Ø 76 mm 28.4 kg /m
Main Winch: Hoisting speed (load dependent)	SWL       0 – 30m / min Light load 0 – 120m/min
AHC Performance Max acceleration Max compensation speed Nominell displacement	1.26 m/s <sup>2</sup> 2.0 m/s (75 Te, 7 <sup>th</sup> layer) 1.0 m/s (150 Te, 7 <sup>th</sup> layer) Heave period: 10 sec +/- 3.2m (6.4m total motion)
Auxilliary Hook / Whip Line Wire Hook Travel Dynamic Factor Maximum radius Lifting capacity Max wire length Constant Tension	150m x Ø28mm galvanized non-rotating, 3, 91 kg /m 100m DAF= 1.3 25m SWL 10 Te, all layers, certified for personnel transfer / man-riding 1.2T Drum capacity 135m, max total length 150m No
Tugger winches General Description Wire installed Performance	2 x 5.0T on tiltable foundations, remotely operated from crane cabin 75m x Ø18mm Constant Tension setting from approx 300kg to 4T, Speed 0 – 60m/min



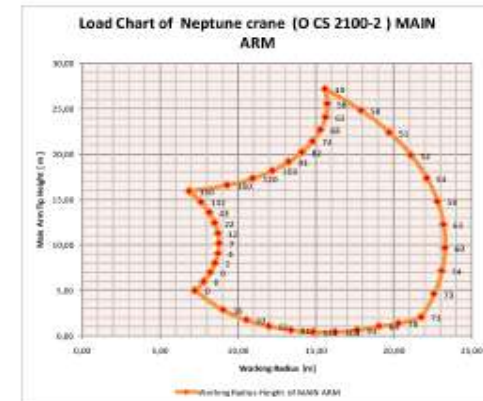
# IMR Larissa – SX 130 Offshore Crane Specification



Position	Bolt on Slewing Ring	Tensile Force (kN)
1	M50	195
2	M50	120

NO.	DATE	SECTION/REVISION	NO.	DATE	SECTION/REVISION

S.No	Test Procedure
1	Control all bolt Torque
2	Control Counter Weight
3	Check all movements of crane without load
4	Start with small weight and check for oil leakages
5	Test the different loads at different positions with specified Load values
6	Heave compensation to be tested only for 10T load
7	Swing test to be done with no load at minimum radius
8	Test of winch to be done at 185 T
9	Check with no load at minimum arm position rotating about 360°



Weights:  
 Crane w/o pedestal: 149 T  
 Test stand: 30 T  
 Test Stand Dwg No: S-12511  
 Gen. Arrangement Dwg No: G-11859

Parameters	Attributes	Units	Value
Maximum Arm position	A	m	25.3
Arm at Maximum Height	B	m	15.6
Minimum Arm position	C	m	6.87
Slew Ring rotating Angle	α	Degrees	30°
Counter Weight	CW	Tonnes	28

Parameters	Attributes	Load Value (T)	Test Load Value (T)	Work Radius (m)
Load at Radius A	Wa	50	75	25.3
Load at Radius B	Wb	10	12.5	15.6
Load at Radius C	Wc	150	75	6.87

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Notations and symbols

DATE	DESIGNED BY	PROJECTION	SCALE
09/09/2008	AMK		1:120
DATE	CHECKED BY		

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Measure sketch	Drawn Number	Revision
Test-HAT	A-12554	0
OCS 2100-2 Neptune		
REFERENCE	CALCULATION	FILE No
		A-12554-Test-HAT.dwg
GENERAL TOLERANCES	GENERAL SURFACE	MECH (TC)
		N/A
		PAGE 01
		SHEET 001



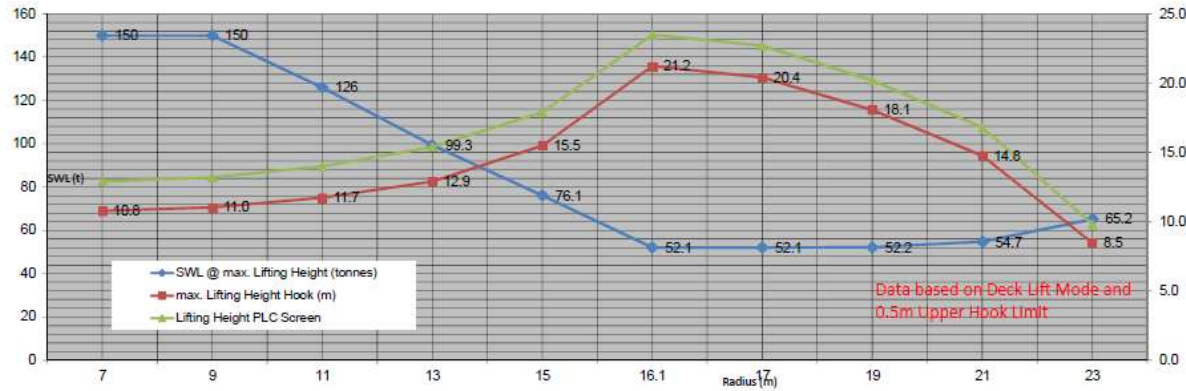


# IMR Larissa – SX 130 Offshore Crane Specification

Load Curve (SWL)	
Radius (m)	SWL @ max. Lifting Height (tonnes)
7	150
9	150
11	126
13	99.3
15	76.1
16.1	52.1
17	52.1
19	52.2
21	54.7
23	65.2

Lifting Height (LH)	
Radius (m)	max. Lifting Height Hook (m)
7	10.8
9	11.0
11	11.7
13	12.9
15	15.5
16.1	21.2
17	20.4
19	18.1
21	14.8
23	8.5

Lifting Height PLC Screen	
Radius (m)	max. Lifting Height (m)
7	12.9
9	13.2
11	14
13	15.4
15	17.9
16.1	23.5
17	22.7
19	20.2
21	16.8
23	9.8



NOTES	
1 TRANSVERSE CENTRE OF THE CRANE TO THE CRANE CENTRELINE	6100 MM
2 TRANSVERSE DISTANCE OF THE CRANE CENTRELINE TO THE SHIP SIDE (mid)	3400 MM
3 FREEBOARD (MAIN DECK TO WATERLINE)	1400 MM
4 DEPTH TO MAIN DECK	8000 MM
5 MAXIMUM DRAFT	6600 MM

