IMR Despina – SX 130 Offshore Crane Specification

General Description	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 150T load. Constant Tension is available on both hooks. The crane is installed at Starboard Side, located centrally along the length of the aft deck providing access to approx. 80% of the deck @ 75T SWL and almost the whole deck at 50T SWL. Two 5T SWL Constant Tension tugger winches are installed on the front the crane slewing column. The operator cabin is equipped with controls and communication like VHF, UHF and Clearcom
Manufacturer / Model	ODIM – OCS2100/150T-12M/10T-25M
Design Basis	DNV Lifting Appliances 1994 Design temperature -20° C - +40° C
Minimum / Maximum radiua	7m / 23,5m (Main Hook)
Dynamic Amplifying Factor (DAF)	1.3 (2.0 on pedestal / slew system)
Slew sector / Speed	360° / 0 – 0.8rpm
Operating Limits	Max List : 5°, Wind Speed: 25m/s
Main Hook Main Wire Wire installed Hook travel length Wire diameter Weight in air	150T SWL Ramshorn Swivel, (Bullhorn hook), Weight in air 4.5T 2500m x Ø 76mm galvanized non-rotating 2500m (nominal) Ø 76 mm 28.4 kg /m
Main Winch: Hoisting speed (load dependent)	SWL 0 – 30m / min Light load 0 – 120m/min
AHC Peformance Max acceleration Max compensation speed Nominell displacement	 1.26 m/s^2 2.0 m/s Heave period: 10 sec +/- 3.2m (6.4m total motion)
Auxilliary Hook / Whip Line Wire Hook Travel Dynamic Factor Maximum radius Lifting capacity	 100m x Ø28mm galvanized non-rotating, 3, 91 kg /m 100m DAF= 1.3 25m SWL 10T, certified for man-riding 1.2T
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

GOLDEN ENERGY OFFSHORE

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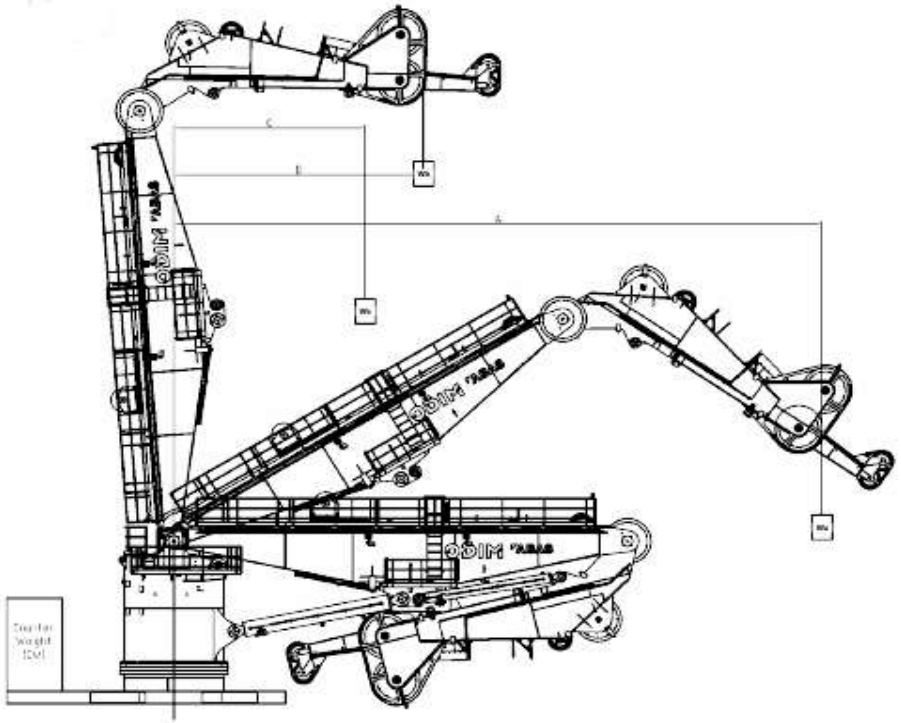
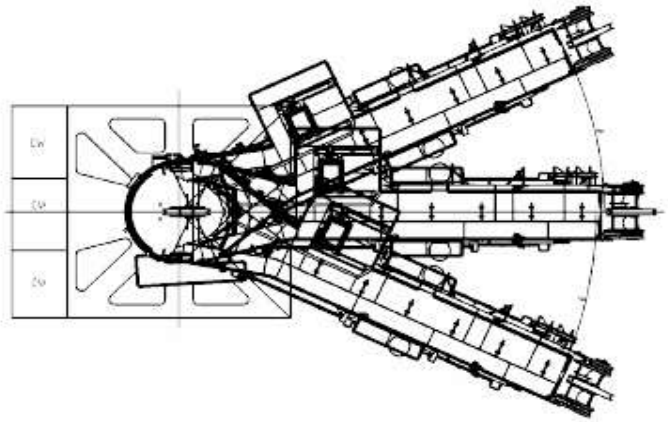
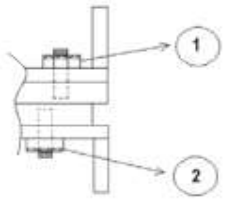
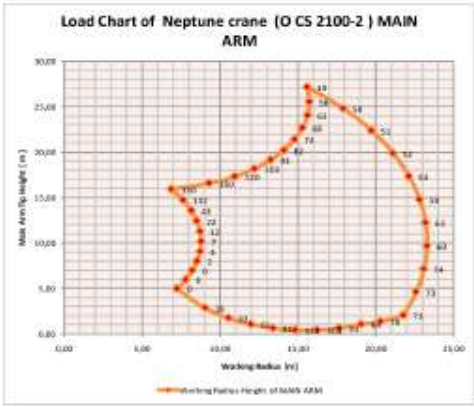






Position	Bolt on Slew Ring	Tensile Force (kN)
1	M56	155
2	M56	120

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 165 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	23.3
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	60	75	23.3
Load at Radius B	Wb	10	12.5	15.6
Load at Radius C	Wc	150	165	6.87

DATE 10.09.2009 | DESIGNED BY ABM | CHECKED BY | PROJECTION | SCALE 1:120

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Measure sketch
Test-HAT
OCS 2100-2 Neptune

DRAWING NUMBER A-12554 | REVISION 0

REFERENCE | CALCULATION | FILE No | FILENAME A-12554-Test-HAT.dwg

GENERAL TOLERANCES | GENERAL SURFACE | WEIGHT (KG) N/A | PAGE 1 | SHEET SIZE A2

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