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Absolute expertise, absolute accuracy, absolute reliability. Nothing else.

M.E.P.
PELLEGRINI®
MARINE EQUIPMENTS

OFFSHORE CRANES

OFFSHORE CRANES

M.E.P. Pellegrini Marine Equipments proposes a complete offshore crane range. All the cranes are produced under “tailor made” philosophy, in order to meet completely Customers’ requirements and are designed and manufactured in compliance with all the major worldwide naval registers and quality systems as ABS, RINA, DNV-GL, Lloyd’s Register, API 2C, etc.

The offshore cranes production range includes: Stiff boom type, Lattice boom, Knuckle boom type, Telescopic cranes. All these kind of cranes can be Electro Hydraulic or Diesel Hydraulic, self contained or with separated power pack as per Client specification and upon request can be equipped with EEx components to work in Hazardous area conditions. Optional features are also available as Constant tension, AHC (Active Heave Compensation), Wave compensator, AOPS – MOPS safety system.



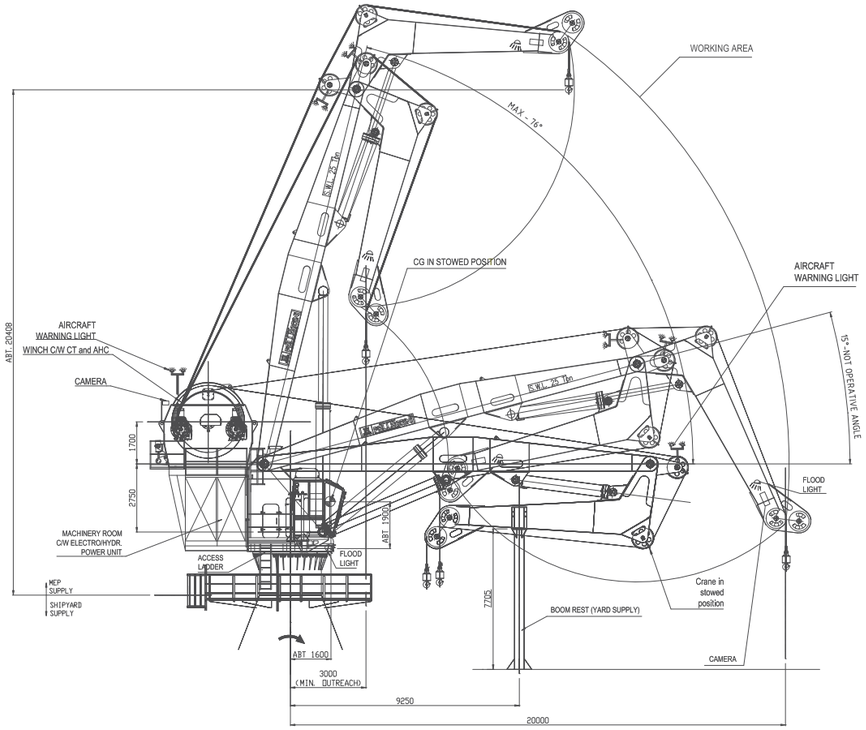
100%
CUSTOMIZED EQUIPMENT

MEP designs and manufactures customized ship equipment meeting the requirements of International Conventions and Rules of Marine Classification Societies.

MEP products can be customized to work:

- EEX AREA
- LOW TEMPERATURES (I.E. -40°C)
- SUBSEA (AHC CRANES)

KNUCKLE BOOM CRANE



GK 25-20 CHARACTERISTICS

Electro/hydraulic cranes model GK 25-20 installed on board the vessel HAI YANG SHI YOU 701 and 702 (DEEP-WATER INTEGRATED RESEARCH VESSEL). The cranes are suitable for use in marine environment, installed in safe area, and designed/manufactured in accordance with CCS Rules for Classification of Ships and DNV No. 2.22 lifting appliances June 2013.

The operational performances can be achieved in the environmental conditions where external ambient temperature range is -15 to 45°C with sea water temperature up to 32°C and up to 80% relative humidity.

The crane's winch is integrated with an Active Heave Compensation System.

The AHC system maintains the load at constant depth.

Extreme data AHC mode:

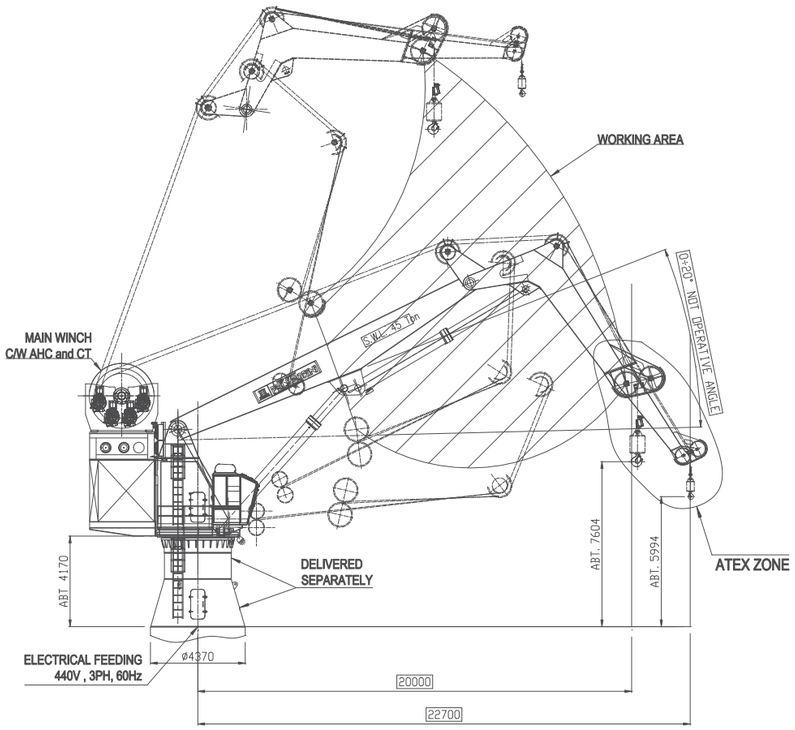
- Max. load = 25 ton included wire rope weight Period= 8,5 sec.
- Heave amplitude = ± 2,5m (5m tot. motion) (Boom tip nominal displacement)
- Max. speed in AHC mode = 2 m/s (120 m/min.)
- Reference system = MRU's signal
- Crane jib tip amplitude = +/- 2,5m period = 8,5s (sinusoidal)

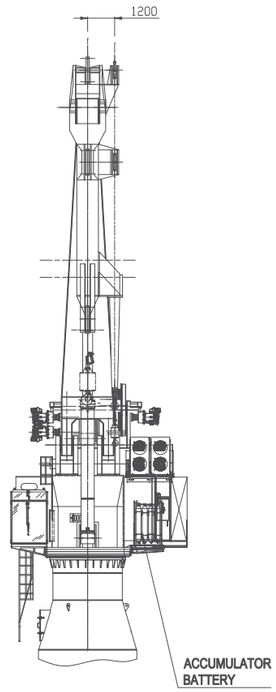
CRAIN DATA		
CARGO	Hook speed (full load)	0 ÷ 20 m/min
	Hook speed (without load)	0 ÷ 80 m/min
AHC MODE	Max hook speed (full load)	120 m/min
	Hook travel	1000 m
	Slewing speed	0 ÷ 1 rpm
	Slewing angle	360° (unlimited)
	Luffing speed	80 s
	SEA STATE Working condition	Sig. Sea wave = 1.5 m height 8-12 s cycle
	Crane classification	A3
	Mechanisms classification	M4
Min. temperature for structure design		-15°C ÷ +45° C

LOADS AND PERFORMANCE TABLE		
BOOM ANGLE DEGREE	SWL	RADIUS (m)
0° ÷ 15°	Not operative angle	
15° ÷ 76°	25 t Onboard	3.0 ÷ 20 m
15° ÷ 76°	25 t Offboard Hsig = 1,5 m	3.0 ÷ 20 m
15° ÷ 76°	25 t Offboard Hsig = 2 m	3.0 ÷ 20 m
15° ÷ 76°	25 t Subsea (AHC) Hsig = 1,5 m	3.0 ÷ 20 m
15° ÷ 76°	25 t Subsea (AHC) Hsig = 2 m	3.0 ÷ 20 m
15° ÷ 76°	5 t (Man-riding)	3.0 ÷ 20 m



KNUCKLE BOOM CRANE





GK 45-20 EH CHARACTERISTICS

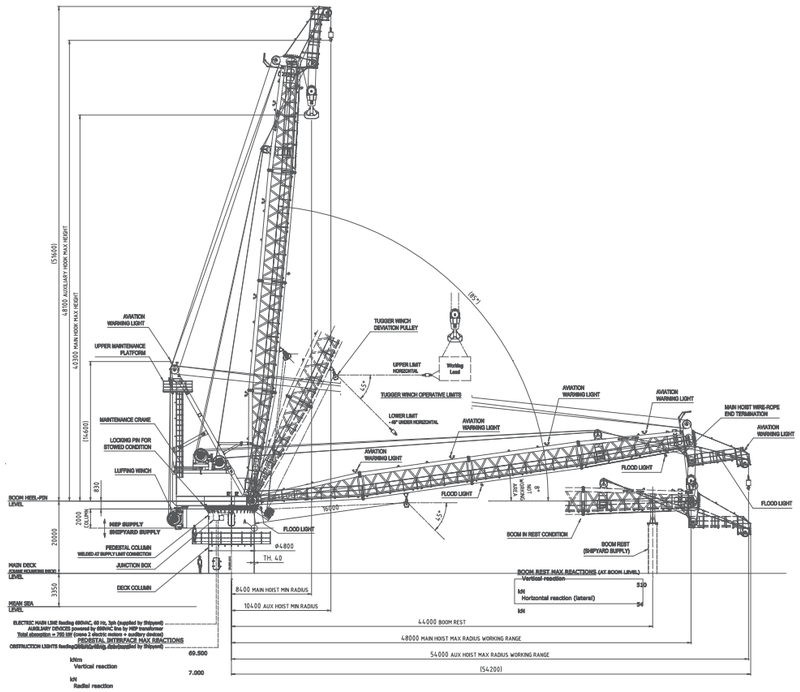
- DNV Certified
- AHC system: 15t for main winch
- Personnel Lifting: 1t
- Main winch: SWL 45 t
- Aux winch: SWL 15 t
- Minimum design temperature: -10°C

LOAD CHART - MAIN HOIST			
SERVICE	SWL	WORKING RADIUS	OPERATIVE CONDITIONS
Shipboard	45 t	20 m	HARBOUR
Offshore (ship to ship)	35 t 15 t	20 m 20 m	Hsig. = 0.5 m Hsig. = 3.0 m
Subsea (unmanned cargo)	15 t	20 m	Hsig. < = 2.0 m
	ENGINEERED LIFT		2.0 m < Hsig. < = 3.0 m
AHC (for subsea)	15 t	20 m	+/- 3 m - T = 10 s (jib tip movement)

LOAD CHART - AUX HOIST			
SERVICE	SWL	WORKING RADIUS	OPERATIVE CONDITIONS
Shipboard	15 t	22.7 m	HARBOUR
Offshore (ship to ship)	15 t 5 t	22.7 m 22.7 m	Hsig. = 0.5 m Hsig. = 3.0 m
Subsea (unmanned cargo)	5 t	22.7 m	Hsig. < = 2.0 m
	ENGINEERED LIFT		2.0 m < Hsig. < = 3.0 m
AHC (for subsea)	5 t	22.7 m	+/- 3 m - T = 10 s (jib tip movement)
Personnel	1 t	22.7 m	Hsig. = 3.0 m



LATTICE BOOM CRANE







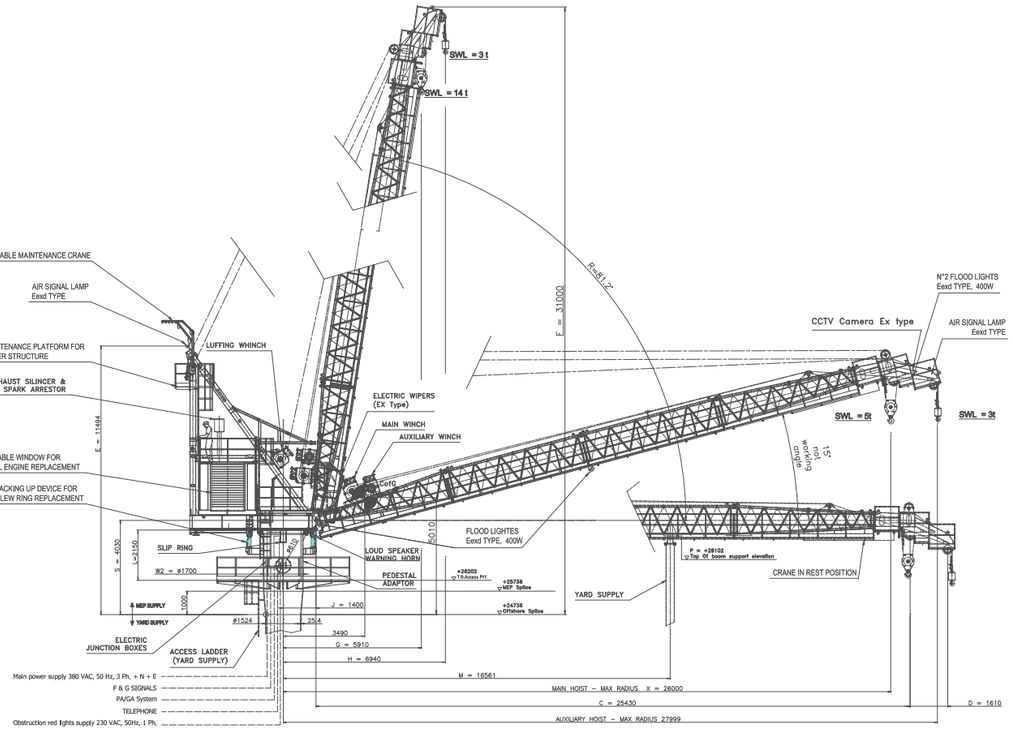
GN 300-11 EH CHARACTERISTICS

- ABS Certified in accordance with ABS LIFTING APPLIANCES updated August 2014 Chapter 2, Guide for Certification of Cranes.
- Electric motor prime mover for HPU
- Minimum design temperature: -10°C
- Area Classification:
- Crane: Safe Area
- Boom tip: Hazardous area Zone 1, IIB, T3 (only electrical components)
- Main winch: SWL 300t
- Aux winch: SWL 30t
- Personnel Lifting: SWL 3t
- Max working radius: 48m

MAIN HOIST — LOAD CHART AD PERFORMANCE DATA

Hoisting speed (m/min)				Radius (m)	Falls (*)		Cargo safe working load (ton)		
Empty hook	Full load						Heavy lift crane (shipboard crane SWL <160t) SWH=0.2 m	Offshore crane (Dynamic rated loads)	
	Heavy lift	Offshore						Onboard SWH=1 m	Offboard SWH=1 m
		Onboard	Offboard						
6,5 Outer layer of drum	3 Outer layer of drum	5,5 Outer layer of drum	6,5 Outer layer of drum	8.4	8		300	230	200
				9.5	8		300	230	200
				11.0	8		300	230	200
				12.0	8		250	230	180
				15.0	8		200	180	150
				16.5	8		175	150	110
(*) 13 4 Falls 6,5 8 Falls Outer layer of drum	(*) 6 4 Falls 3 8 Falls Outer layer of drum	(*) 11 4 Falls 5,5 8 Falls Outer layer of drum	(*) 13 4 Falls 6,5 8 Falls Outer layer of drum	20.0	4	8	150	125	90
				22.5	4	8	125	100	70
				25.0	4	8	100	80	50
				27.5	4	8	80	60	40
				30.0	4	8	60	45	30
				32.5	4	8	50	40	30
				35.0	4	8	50	40	25
				37.5	4	8	50	40	25
				40.0	4	8	40	35	18
				42.5	4	8	40	35	18
				45.0	4	8	32	30	15
				48.0	4	8	32	30	15
Hook travel		8 Falls		75 m			Hook block weight 10t		
		4 Falls		150 m					

LATTICE BOOM CRANE



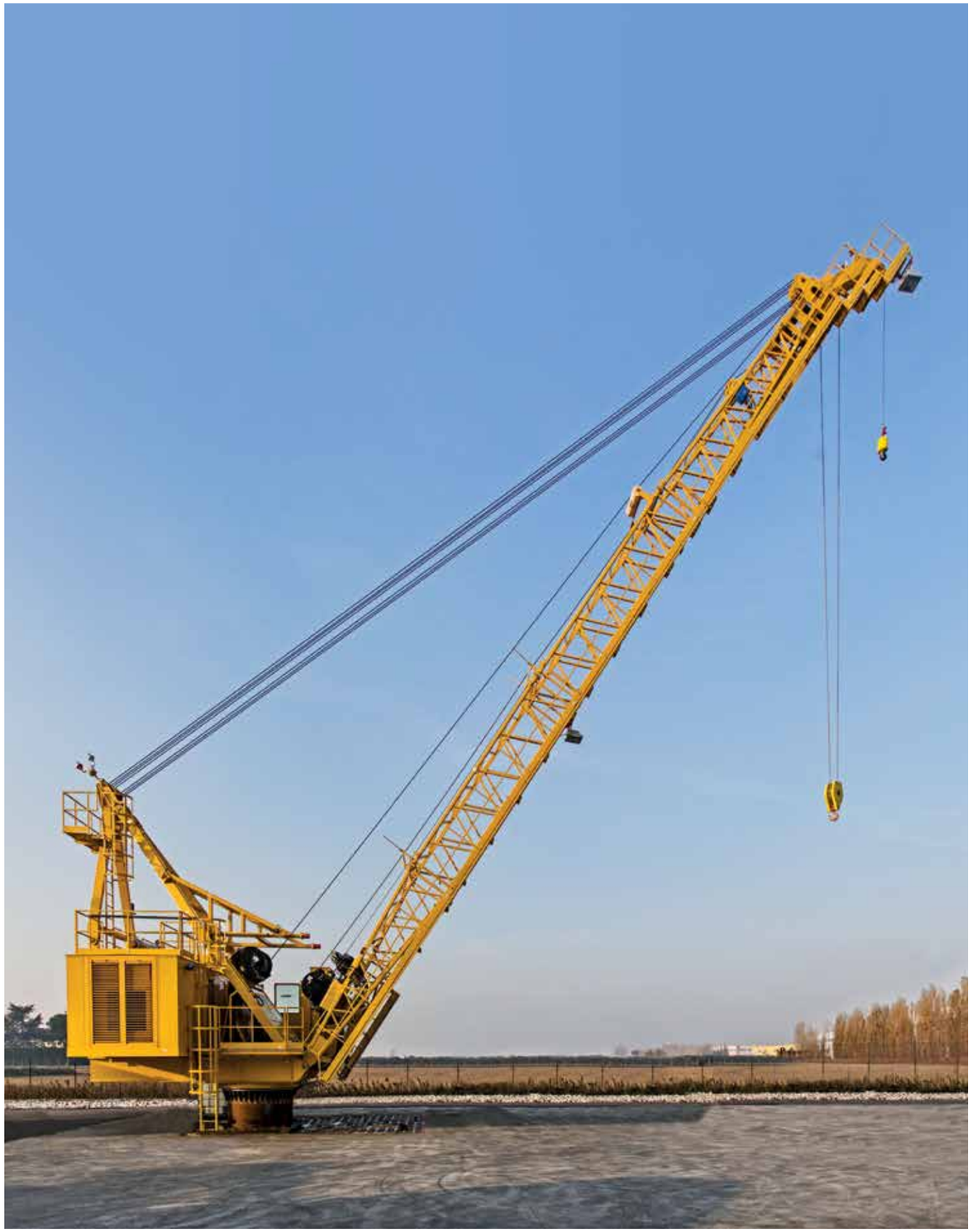
GN 14-10 CHARACTERISTICS

Diesel Hydraulic Self Contained lattice boom cranes installed on FP-NPP-NGP Fixed Platforms.
The cranes are model GN 14/10.7 DH.
The cranes are suitable for use in marine environment and is designed in accordance to API 2C.
The cranes are used for load motion inside the Platform and from/to supply vessels.
The crane is designed and certified asoffshore crane.
The electric equipment installed on the crane are suitable as minimum for Zone 2, IIA,
T3 area classification. Electric components installed on the boom and on the pedestal are suitable for Zone 1, IIA, T3.

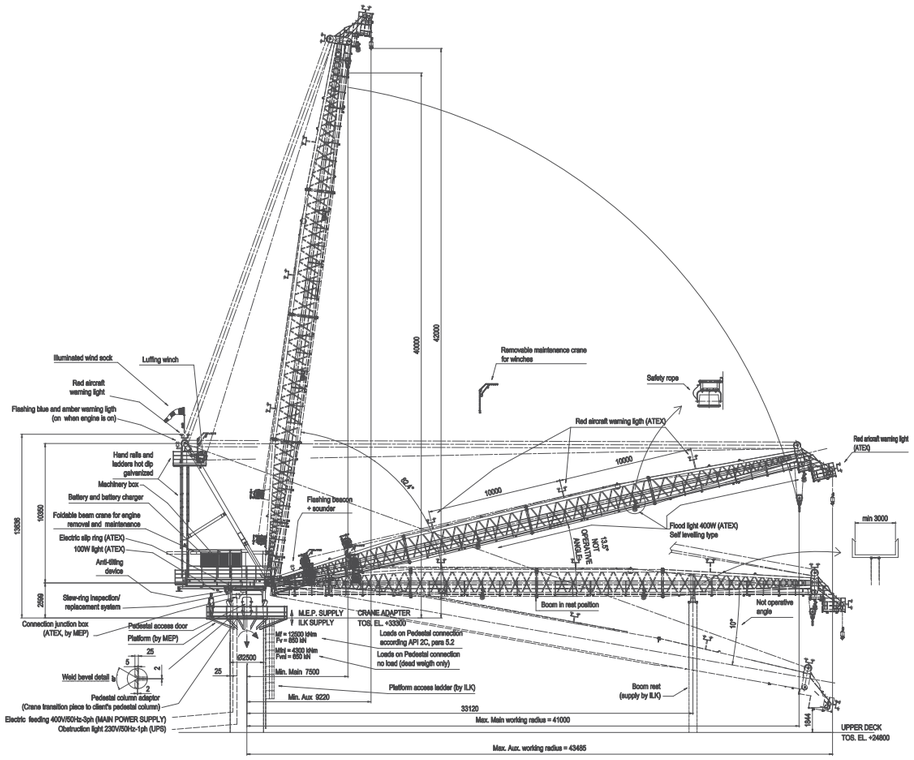
LOAD AND PERFORMANCE TABLE

BOOM ANGLE (*)	RADIUS (ton)	LOAD S.W.L. (ton)	HOISTING SPEED (m/min)
from 0* up to 15*	/	No work condition	No work condition
15.0	26.0	5.0	0 ÷ 25
26.3	24.0	5.0	
35.6	22.0	5.5	
43.1	20.0	6.0	
49.6	18.0	7.0	
55.5	16.0	8.0	
61.0	14.0	9.5	
66.2	12.0	11.0	
71.2	10.7	14.0	
73.6	9.0	14.0	
78.4	7.0	14.0	
81.2	5.9	14.0	

RADIUS (M)	LOAD AUXILIARY HOOK (t)
	Up to offboard lifts (Cv = min.2)
	Hsig. = 1.6 m
ALL RADIUS (7 ÷ 28)	3.0 Hoisting speed = 50 m/min
ALL RADIUS (7 ÷ 28)	LOAD AUXILIARY HOOK - HANDING PERSONNEL(t)
	Hsig. = 1.6 m
	1.0 Hoisting speed = 50 m/min



LATTICE BOOM CRANE



GN 10-41 DH CHARACTERISTICS

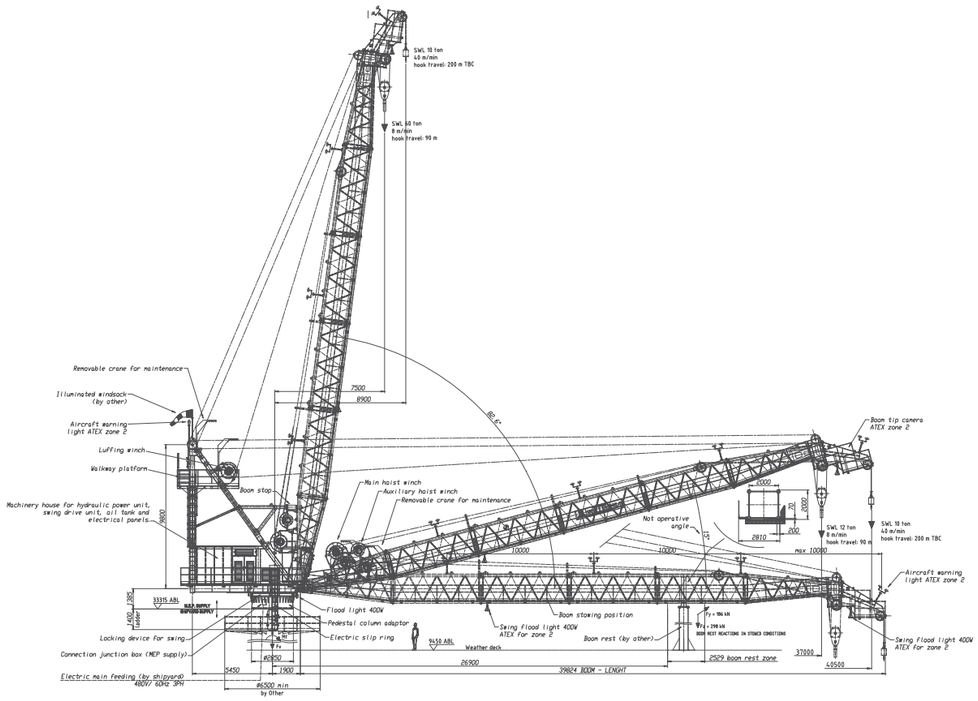
- API MONOGRAM
- Diesel engine prime mover for HPU
- Minimum design temperature: -17°C
- Electrical components on boom and instruments ATEX certified (Zone1, IIA, T3)
- Main winch: SWL 10t
- Aux winch: SWL 3t
- Personnel lifting: SWL 0.75t
- Max working radius: 41 m

OFFSHORE CRANE MODEL TYPE: GN 10/41 DH LOAD CHART

RADIUS (METER)	BOOM ANGLE (DEGREES)	SAFE WORKING LOAD (IN TONNES)			
		ONBOARD	OFFBOARD		
			SWH 1.0 m	SWH 2.0 m	SWH 2.5 m
7.5	82.4	10.0	10.0	10.0	10.0
8.5	81.0	10.0	10.0	10.0	10.0
10.0	79.0	10.0	10.0	10.0	10.0
12.0	76.0	10.0	10.0	10.0	10.0
14.0	73.2	10.0	10.0	10.0	10.0
16.0	70.2	10.0	10.0	10.0	10.0
18.0	67.2	10.0	10.0	10.0	10.0
20.0	64.2	10.0	10.0	10.0	10.0
22.0	61.1	10.0	10.0	10.0	10.0
24.0	57.8	10.0	10.0	10.0	10.0
26.0	54.5	10.0	10.0	10.0	10.0
28.0	51.0	10.0	10.0	10.0	10.0
30.0	47.3	10.0	9.7	9.5	9.4
32.0	43.4	10.0	8.9	8.7	8.6
34.0	39.2	10.0	8.2	8.1	8.0
36.0	34.5	10.0	7.6	7.5	7.4
38.0	29.2	10.0	7.0	6.9	6.9
40.0	22.9	10.0	6.6	6.5	6.4
41.0	13.5	10.0	6.6	6.5	6.4



LATTICE BOOM CRANE



GN 60-7.5 EH HD CHARACTERISTICS

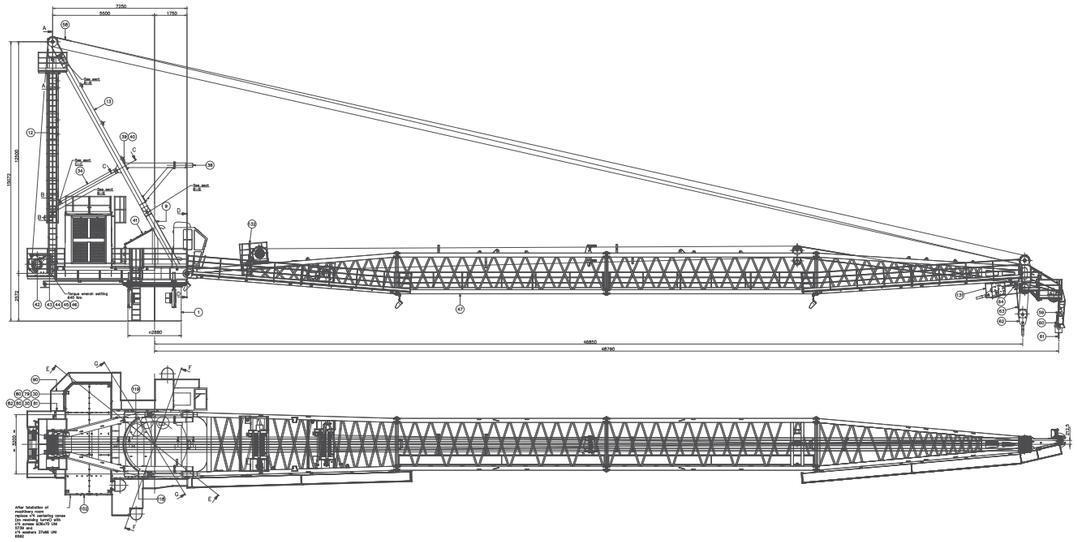
- API MONOGRAM
- Diesel engine prime mover for HPU
- Minimum design temperature: -17°C
- Electrical components on boom and instruments ATEX certified (Zone1, IIA, T3)
- Main winch: SWL 10t
- Aux winch: SWL 3t
- Personnel lifting: SWL 0.75t
- Max working radius: 41 m

OFFSHORE CRANE MODEL TYPE: GN 60-7.5 EH HD LOAD CHART

RADIUS (METER)	BOOM ANGLE (DEGREES)	ONBOARD			OFFBOARD		
		load S.W.L. (TON)	hoisting speed (M/MIN)		load S.W.L. (TON)	hoisting speed (M/MIN)	
37.0	15.0°	12.0	0÷8	0÷21 empty hook	7.5	0÷8	0÷21 empty hook
35.5	24.7°	14.5	0÷8		10.5	0÷8	
34.0	30.1°	17.5	0÷8		12.5	0÷8	
33.0	33.3°	21.0	0÷8		14.5	0÷8	
31.5	37.5°	25.0	0÷8		17.5	0÷8	
30.0	41.4°	30.0	0÷8		21.0	0÷8	
29.0	43.8°	31.0	0÷8		22.0	0÷8	
27.5	47.2°	32.0	0÷8		23.0	0÷8	
26.0	50.4°	33.0	0÷8		25.0	0÷8	
24.5	53.5°	34.0	0÷8		27.5	0÷8	
23.0	56.4°	35.0	0÷8		30.0	0÷8	
22.0	58.3°	37.0	0÷8		32.0	0÷8	
21.0	60.1°	39.0	0÷8		34.0	0÷8	
19.5	62.9°	41.0	0÷8		36.0	0÷8	
18.0	65.5°	43.0	0÷8		38.0	0÷8	
16.5	68.1°	45.0	0÷8		40.0	0÷8	
15.0	70.7°	47.0	0÷8		41.0	0÷8	
13.5	73.2°	50.0	0÷8		42.0	0÷8	
12.0	75.6°	53.0	0÷8		44.0	0÷8	
10.5	78.1°	56.0	0÷8		47.0	0÷8	
9.0	80.5	60.0	0÷8		50.0	0÷8	
7.5	82.6	60.0	0÷8		50.0	0÷8	



LATTICE BOOM CRANE



GN 25-25 DH CHARACTERISTICS

The off-shore crane model GN 25-25 DH designed, built, tested and certified according to the "ABS Regulations" and to the latest edition of API Spec. 2C Specification for Offshore Cranes.
The design philosophy for this crane is of stand-alone/independent operation.
The crane is self-contained, diesel driven, hydraulically operated, rope luffing, lattice boom, pedestal mounted and fully revolving; provided with an enclosed cabin and all auxiliary equipment suitable for duties associated with an offshore production platform.
The function of the crane includes the following:

- Offloading item such as wire line equipment and coil tubing package, the heaviest maintenance item materials (drilling tubular goods) from supply boat.
- Transportation of personnel to / from a supply boat.
- Handling materials on platform deck.
- Removing heavy components with various characteristics for their installation on the deck at permanent locations lay down areas.

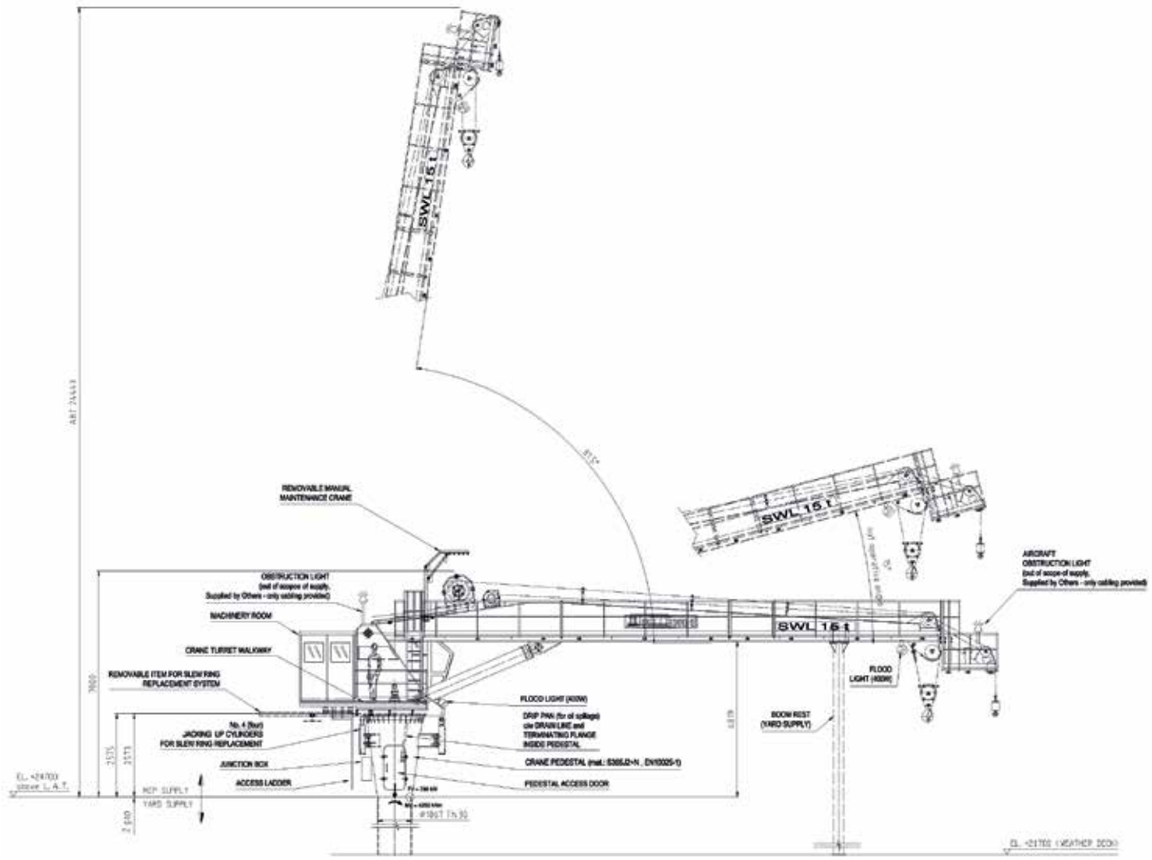
Max. hoisting capacity: 25 Ton @ 25 meters

PROJECT: PROMIMP EP-11 / FPSO
CLIENT: PETROBRAS

LOAD CHART OFFSHORE CRANE TYPE GN 25/25 DH										
Angle	Radius (m)	LOAD MAIN HOOK (tonnes)								
		Onboard lifts	OFFBOARD LIFTS							
			SWH 0.5 m	SWH 1.0 m	SWH 1.5 m	SWH 2.0 m	SWH 2.5 m	SWH 3.0 m	SWH 3.5 m	SWH 4.0 m
81.4°	9.25	25.0	25.0	25.0	25.0	25.0	25.0	20.0	14.0	10.0
78.9°	11.0	25.0	25.0	25.0	25.0	25.0	25.0	20.0	14.0	10.0
76.4°	13.0	25.0	25.0	25.0	25.0	25.0	25.0	20.0	14.0	10.0
73.7°	15.0	25.0	25.0	25.0	25.0	25.0	25.0	20.0	14.0	10.0
71.1°	17.0	25.0	25.0	25.0	25.0	25.0	25.0	20.0	14.0	10.0
68.3°	19.0	25.0	25.0	25.0	25.0	25.0	25.0	20.0	14.0	10.0
65.5°	21.0	25.0	25.0	25.0	25.0	25.0	25.0	20.0	14.0	10.0
62.7°	23.0	25.0	25.0	25.0	25.0	25.0	25.0	20.0	14.0	10.0
59.9°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	20.0	14.0	10.0
56.6°	27.0	25.0	25.0	25.0	25.0	24.6	23.0	18.5	13.5	9.5
53.6°	29.0	25.0	25.0	25.0	25.0	22.8	21.0	17.0	12.8	9.0
50.4°	31.0	25.0	25.0	25.0	23.0	20.8	19.0	15.8	11.6	8.4
47.0°	33.0	23.7	23.7	23.2	21.1	18.7	17.2	14.7	11.0	7.8
43.2°	35.0	21.5	21.5	21.0	19.3	17.2	15.8	13.9	10.2	7.2
39.4°	37.0	19.8	19.8	19.2	17.5	15.7	14.3	12.8	9.5	6.5
35.0°	39.0	18.5	18.5	18.0	16.1	14.2	13.5	11.6	8.8	6.2
30.3°	41.0	16.2	16.2	15.8	14.2	13.1	12.0	10.5	8.2	5.9
24.6°	43.0	15.0	15.0	14.5	13.4	12.1	11.0	9.6	7.4	5.5
19.4°	44.5	14.0	14.0	13.5	12.5	11.0	10.0	8.8	6.8	5.3
12.0°	46.0	13.0	13.0	12.0	11.0	9.5	9.0	8.2	6.5	5.0



STIFF BOOM CRANE



CHCD 15-8 EH CHARACTERISTICS

- Electro-Hydraulic power unit
- R.I.Na. certified
- Main Winch: SWL 15t
- Aux Winch: 2t
- Personnel Lifting: 1t
- Max working radius: 16m
- Area Classification: Zone 2, IIB, T3

CRANE TYPE CHCD 15-8 EH LOAD AND PERFORMANCE TABLE

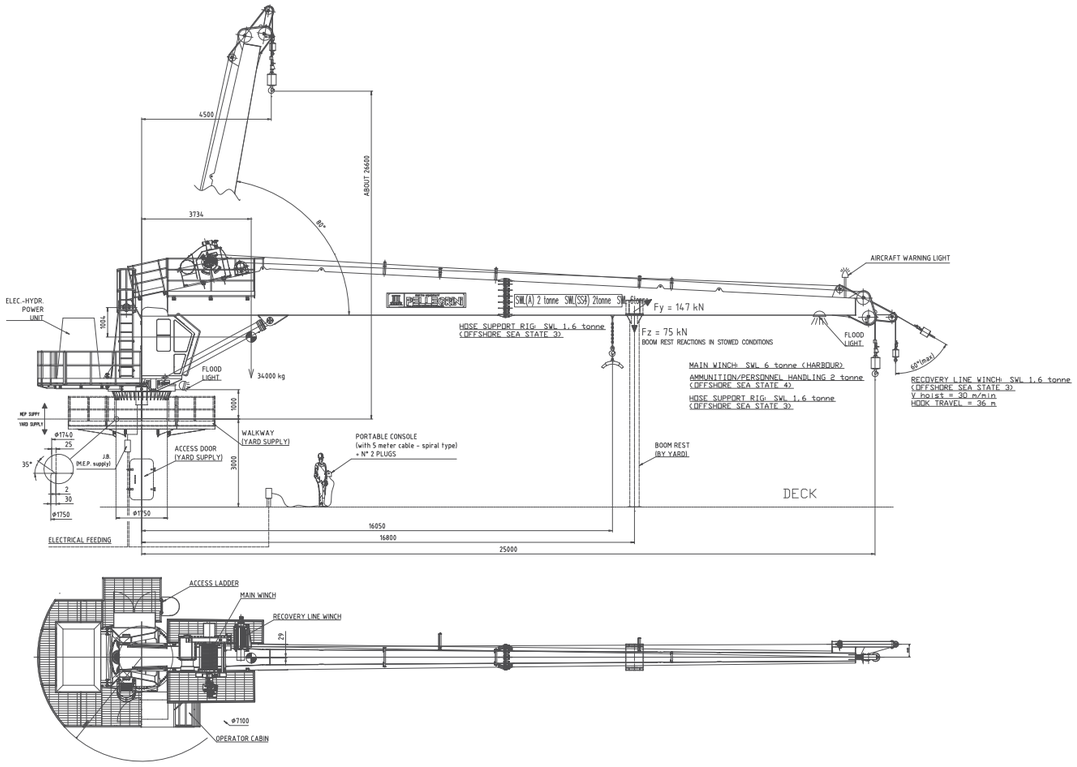
	ONBOARD / OFFBOARD LIFT - Dynamic Rated Load Platform / supply vessel (significant wave height = Hsig.)			
	Radius (m)	Load S.W.L. (t) Hsig. 0,9 m	Load S.W.L. (t) Hsig. 2 m	Hoisting Speed (m/min)
MAIN HOIST	16.00	5.0	2.8	0÷20
	14.00	7.0	4.3	
	12.00	9.0	5.5	
	10.00	12.0	7.0	
	8.00	15.0	8.5	
	6.00	15.0	10.0	
	4.00	15.0	11.5	
	2.30	15.0	11.5	

	ONBOARD / OFFBOARD LIFT - Dynamic Rated Load Platform / supply vessel (significant wave height = Hsig.)			
	Radius (m)	Load S.W.L. (t) Hsig. 0,9 m	Load S.W.L. (t) Hsig. 2 m	Hoisting Speed (m/min)
AUX HOIST	all radius	2.0	2.0	0÷80

	Handling Personnel			
	Radius (m)	Load S.W.L. (t) Hsig. 0,9 m	Load S.W.L. (t) Hsig. 2 m	Hoisting Speed (m/min)
AUX HOIST	all radius	1.0	1.0	0÷80



STIFF BOOM CRANE



CHCD 6-25 CHARATERISTICS

The offshore deck crane model CHCD 6-25 designed for the loading, unloading and movement of cargo, stores and ammunition.

The crane is also designed to support Replenishment At Sea (RAS) for supply of Diesel (F76) and Fresh Water to smaller vessels utilizing a 'crane rig'.

The deck crane is designed in accordance to LR LAME Code and BS EN 13852 requirements for lifting of personnel.

The crane is capable of:

- Lifting and moving palletised stores
- General storing duties
- Lifting and moving of ammunition
- Crane Rig duties for liquid replenishment at sea.

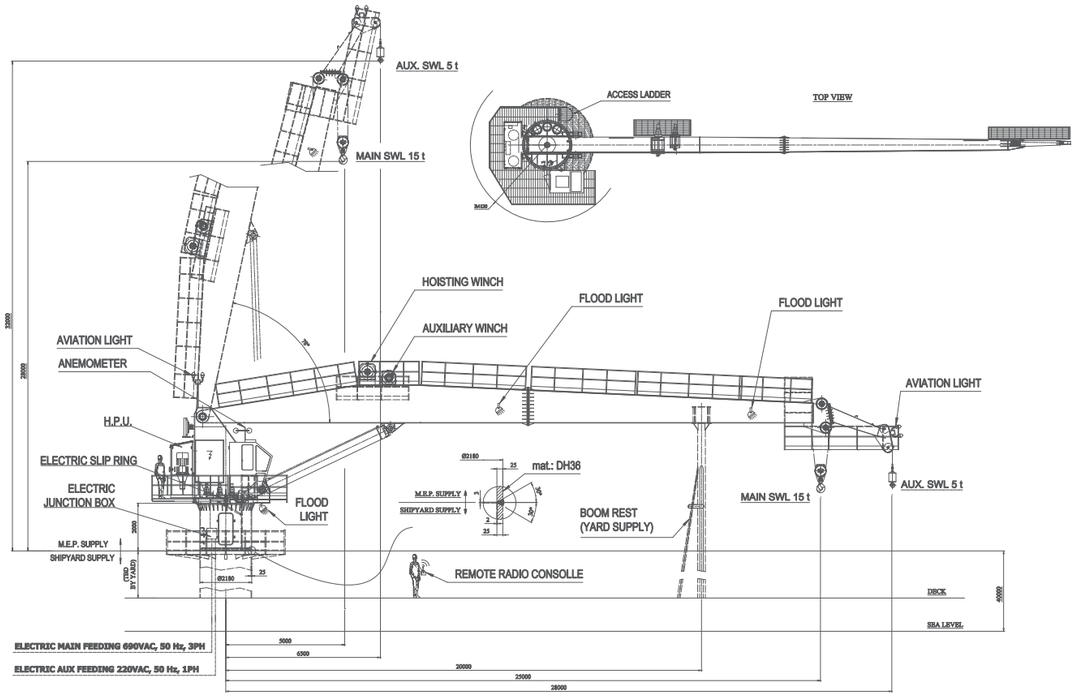
The deck crane is approved by LR for lifting a minimum of 6 tons (cargo) and 2 tons (ammunition) from the dock side at an outreach up to 25 m.

The deck crane is heave compensated (Active rope tensioning system) such that it is capable of lifting a minimum of 2 tons from other vessels (including barges) in conditions up to and including sea state 4 (considering a maximum speed of 100 m/min).

GENERAL CARGO S.W.L.	58,8 kN (6 tonne)t
AMMUNITION LIFTINGS S.W.L.	19.6 kN (2 tonne)
MAX OUTREACH	25 m
MIN OUTREACH	4.5 m
HOOK SPEED FULLY LOADED MAX	0-30 m/min (0.5 m/sec)
HOOK SPEED FULLY LOADED CREEP	0-3 m/min (0.05 m/sec)
HOOK SPEED LIGHT LOAD	0-100 m/min
SLEW SPEED FULLY LOADED MAX	0.6 rpm
SLEW SPEED FULLY LOADED CREEP	0.04 rpm
ROTATION ANGLE	360° unlimited
HOOK TRAVEL	45 m
REGISTER	LR
AREA CLASSIFICATION	SAFE
ELECTRIC POWER	440V-60Hz
SHIP ANGLES	HEEL/TRIM 5°/2°
DESIGN TEMPERATURE	-25°C ÷ +45°C



STIFF BOOM CRANE



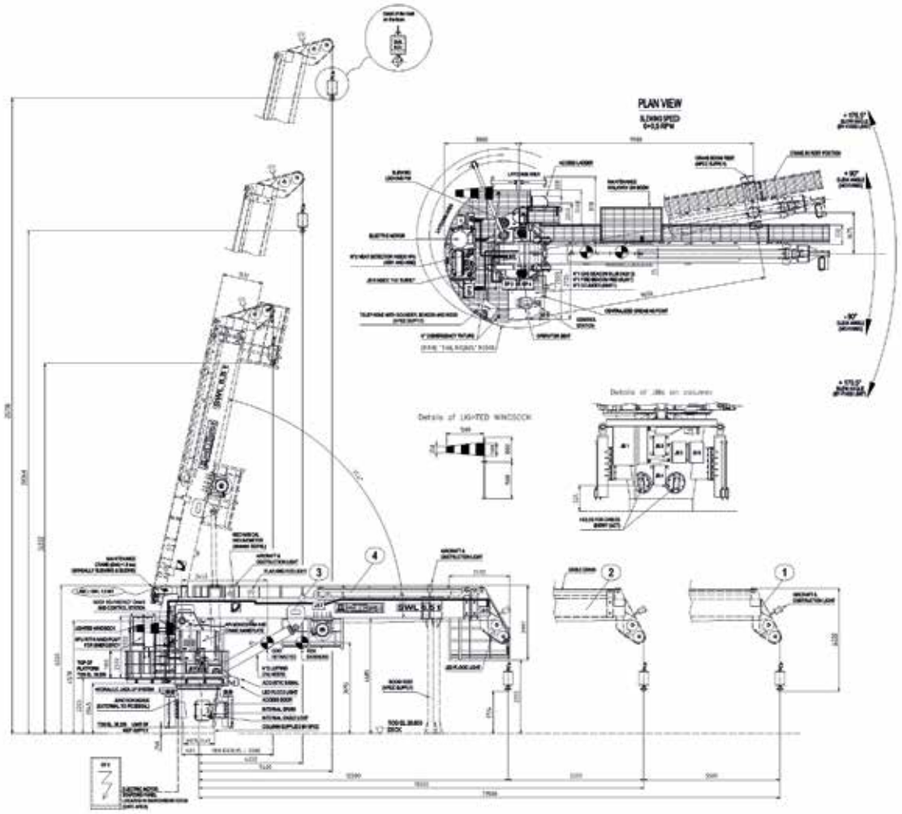
CHCD 15-25 EH CHARATERISTICS

- ABS Certified
- Electric Hydraulic Power Unit
- Light-weight design
- Main winch: SWL 15t
- Aux winch: SWL 5t
- Personnel lifting: SWL 1t
- Load chart up to Hsig = 3m
- Remote Radio Control
- Minimum design temperature: 0°C

REGISTER		ABS	
AREA CLASSIFICATION		SAFE AREA	
Load chart	S.W.L	Working radius	Sea State
	15.0 t	5.1 + 25 m	Hsig = 1.0 m
	11.5 t	5.1 + 25 m	Hsig = 1.5 m
	8.0 t	5.1 + 25 m	Hsig = 2.0 m
	4.0 t	5.1 + 25 m	Hsig = 3.0 m
	Aux S.W.L.	Working radius	Sea State
	5.0 t	6.6 + 28 m	Hsig = 1.0 m
	4.0 t	6.6 + 28 m	Hsig = 1.5 m
	3.0 t	6.6 + 28 m	Hsig = 2.0 m
	2.0 t	6.6 + 28 m	Hsig = 3.0 m
Man riding (AUX hoist)	1 t - FROM SUPPLY BOAT (up to Hsig = 2.0 m)		
Design temperature	-10°C / +46° C		
Operative wind speed	16 m/s		
Main hook stroke	75 m		
Aux hook stroke	80 m		
Hoisting speed (main hoist)	0+40 m/min (LOADED HOOK) 0+40 m/min (EMPTY HOOK)		
Hoisting speed (Aux. Hoist)	0+50 m/min (LOADED HOOK 0+80 m/min (EMPTY HOOK)		
Slewing speed	0+0.6 rpm (LOADED HOOK) 0+1 rpm (EMPTY HOOK)		
Rotation angle	360° LIMITED		
Vessel type considered as: DRILLSHIP (ref. ABS - AP|2C) LIST / TRIM: 2.5° / 1°			



TELESCOPIC BOOM CRANE



GN 6.5-18 EH CHARACTERISTICS

- API MONOGRAM
- Electro-Hydraulic power unit
- Winch: SWL: 6.5 t
- Personnel Lifting: 800 Kg
- Max working radius: 23.5 m
- Area Classification: Zone 2, IIB, T3
- All electrical components ATEX certified: Zone 1, IIB, T3
- Special steel and equipment

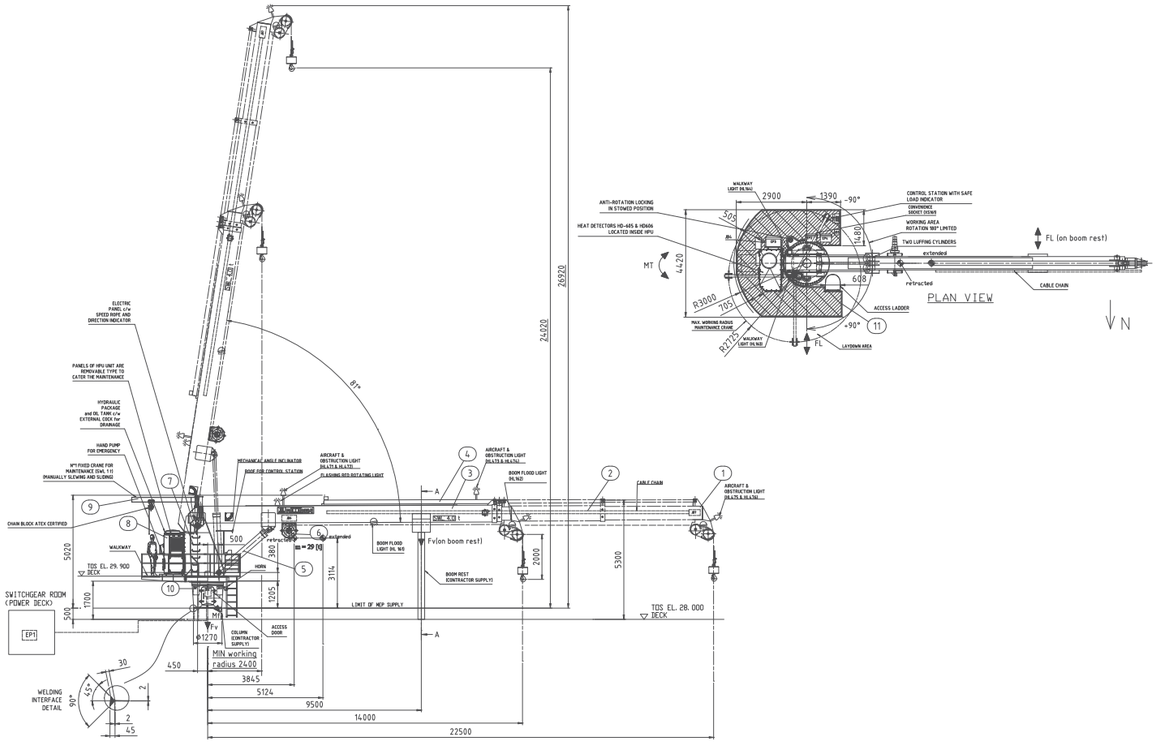
LOADS AND PERFORMANCE TABLE	
Sidelead forces: as per API 2C 7th. Offlead forces: as per API 2C 7th.	
Slewing speed	0÷0,5 rpm
Slewing angle Respect to horizontal pos. (working)	+90° -90°
Slewing angle Respect to horizontal pos. (by-pass limits)	+179,5° -179,5°
Hosting speed	0÷20 m/min
Main hook atroke	58 m
Basic wind speed (100 year storm, 3 sec mean)	29,2 m/s
Basic wind speed (1 year storm, 3 sec mean)	21,0 m/s
Stowed wind speed	56,4 m/s
Ambient temp.	(+)9 + (+)50 °C

Crane in Hazardous area: Zone 2, IIB, T3
Design in accordance to API-2C 7th edition
Electrical components: Zone 1, IIB, T3 at site condition
Motor electric starter in safe area



TELESCOPIC BOOM CRANE

OFFSHORE CRANES





GN 4-14 EH CHARATERISTICS

- API MONOGRAM
- Winch: SWL 4t
- Max working radius: 14m
- Area Classification: Zone 2, IIB, T3
- All electrical components ATEX Certified: Zone 1, IIB, T3
- Special steel and equipment

LOAD CHART OFFSHORE TYPE CHCD 4/14 EH EXTENDED JIB

RADIUS (m)	LOAD MAIN HOOK Design dyn factor = as per API 2C, in particular: Design dyn factor = 1.33 (onboard lifting) Min recommended hoist speed: 12.08 m/min as per 8.2.1 of API 2C 7a Ed. Min design dyn factor = 2.0 (supply-vessel lifting) with Hsig=2m T=6 sec Calculation report using GENERAL METHOD in compliance with API2C 7a Ed.		
	ANGLE (°)	ONBOARD LIFTS (t)	OFFBOARD LIFTS UP TO Hsig = 2 m (t)
3.6	81	4.0	4.0
4.0	80	4.0	4.0
6.0	75	4.0	4.0
8.0	70	4.0	4.0
8.7	68	4.0	4.0
10.0	64	4.0	4.0
12.0	58	4.0	4.0
13.0	55	4.0	4.0
14.0	52	4.0	4.0
16.0	45	4.0	3.5
17.3	41	3.5	3.0
18.0	38	3.0	2.5
20.0	28	2.5	2.0
21.0	22	2.0	1.8
22.5	0	2.0	1.6
MAN-RIDING		ON BOARD LIFTS (t)	OFFBOARD LIFTS UP TO Hsig = 2 m (t)
All radii & angles		0.8	0.8



CERTIFICATIONS:

Member of CISQ Federation
CERTIFIED MANAGEMENT SYSTEM
BS OHSAS 18001

Member of CISQ Federation
CERTIFIED MANAGEMENT SYSTEM
ISO 9001

Member of CISQ Federation
CERTIFIED MANAGEMENT SYSTEM
ISO 14001

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