



# FAR FROM THE COASTS, CLOSE TO THE BEST CHOICE YOU EVER MADE

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



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

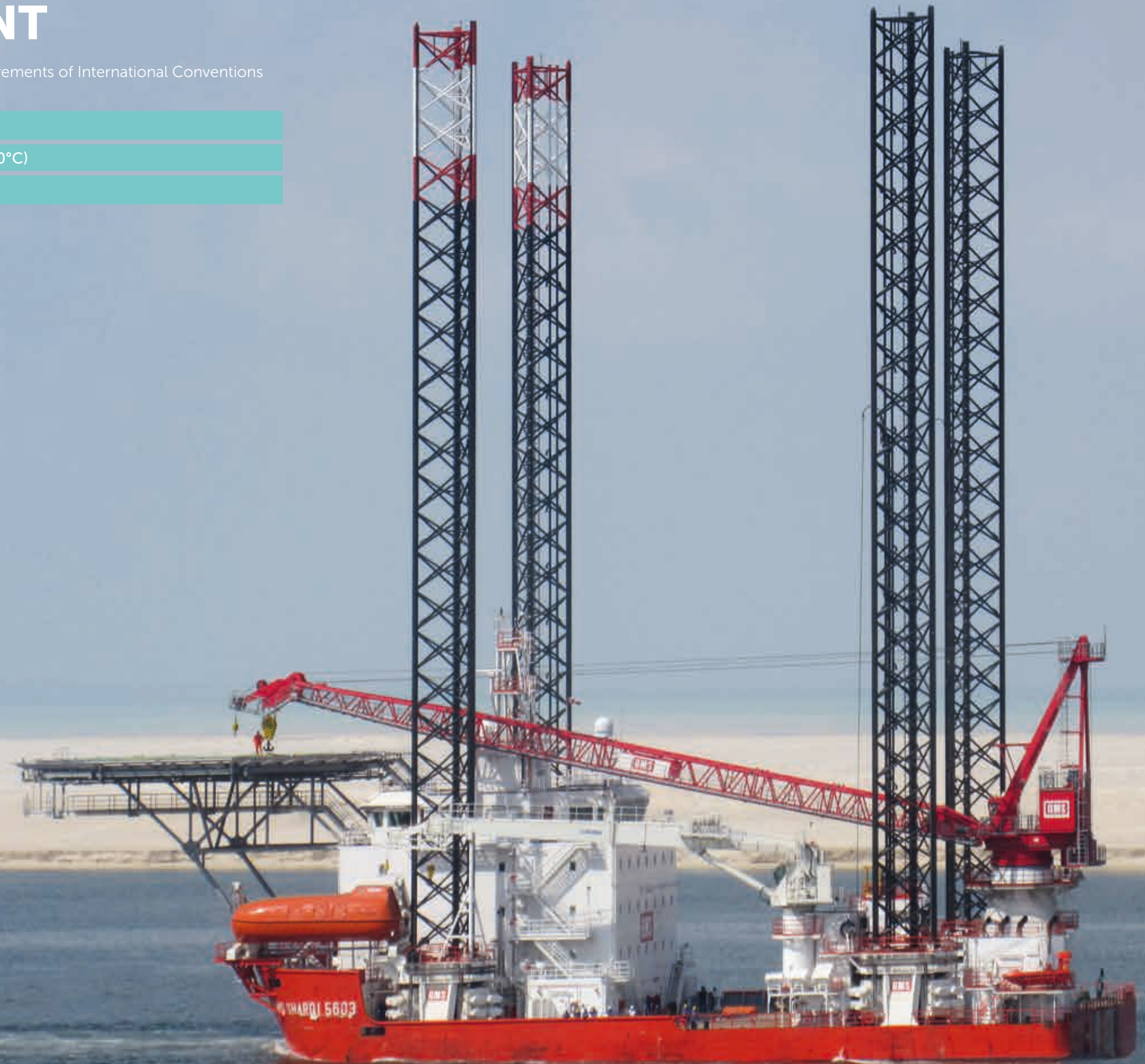
MEP designs and manufactures customized ship equipment meeting the requirements of International Conventions and Rules of Marine Classification Societies.

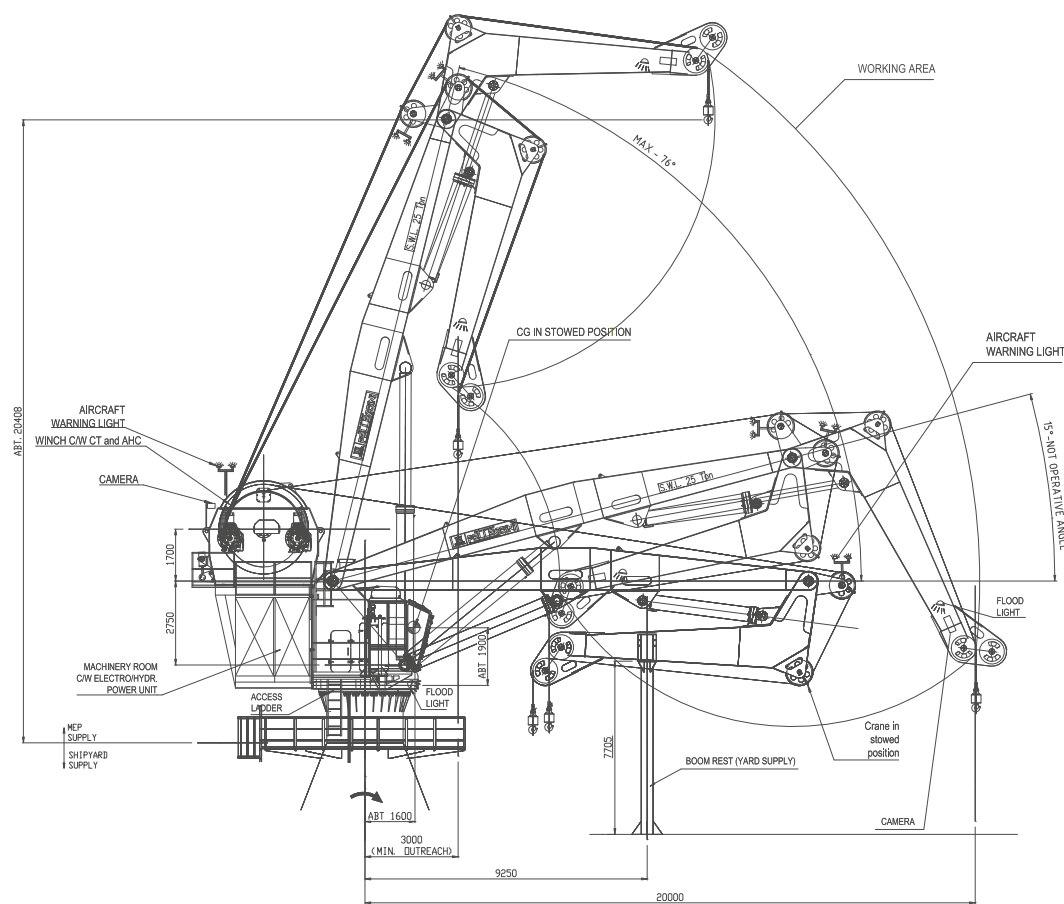
MEP products can be customized to work:

EEX AREA

LOW TEMPERATURES (I.E. -40°C)

SUBSEA (AHC CRANES)





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.

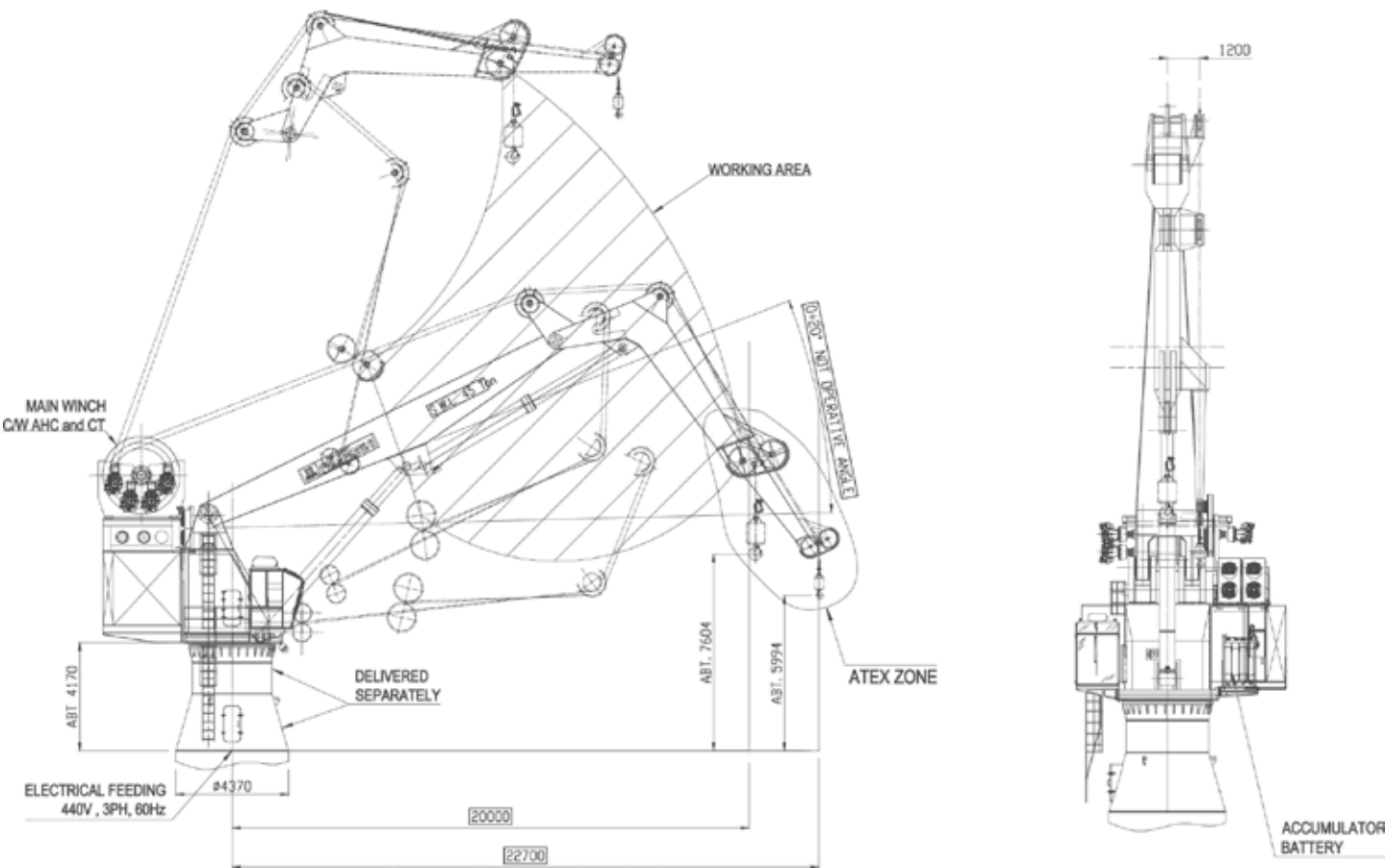
Extreme data AHC mode:

- 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)

| CRAN 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<br>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 |





GK 45-20 EH CHARACTERISTICS

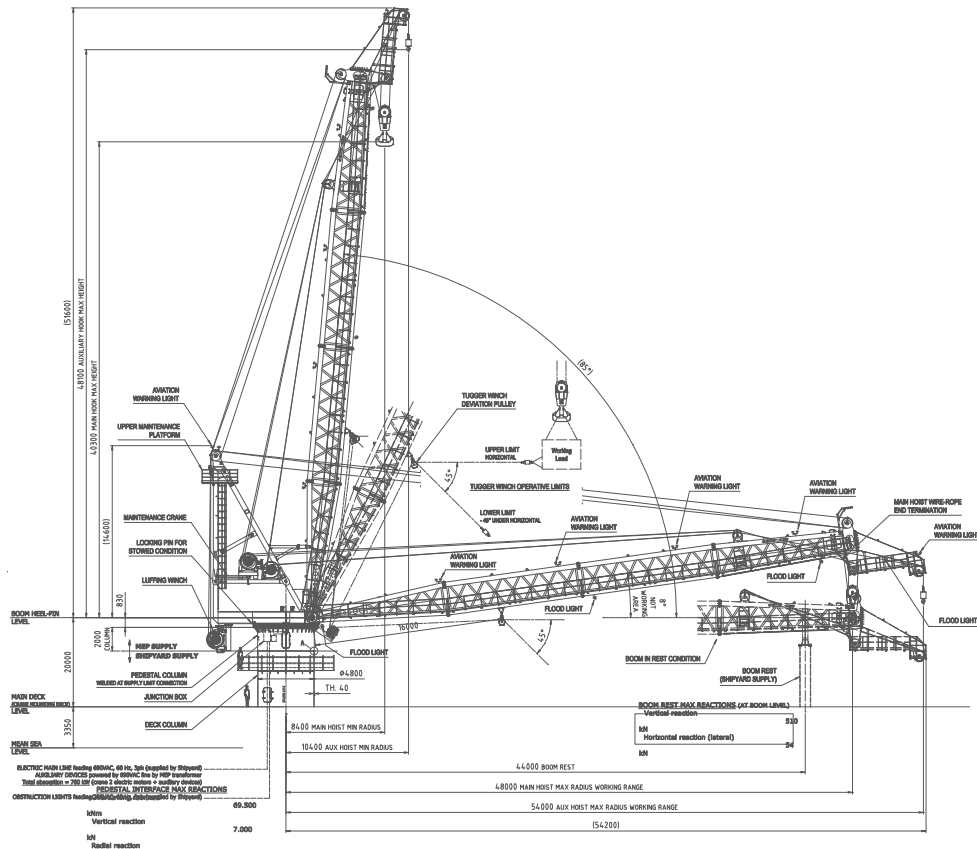
- DNV Certified
- AHC system: 15t for main winch
- Personnel Lifting: 1t
- Main winch: SWL 45 t
- Aux winch: SWL 15 t
- Minimum design temperature: -10°C

| LOAD CHART - MAIN HOIST |                 |                |                                       |
|-------------------------|-----------------|----------------|---------------------------------------|
| SERVICE                 | SWL             | WORKING RADIUS | OPERATIVE CONDITIONS                  |
| Shipboard               | 45 t            | 20 m           | HARBOUR                               |
| Offshore (ship to ship) | 35 t            | 20 m           | Hsig. = 0.5 m                         |
|                         | 15 t            | 20 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            | 22.7 m         | Hsig. = 0.5 m                         |
|                         | 5 t             | 22.7 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

## OFFSHORE CRANES



| 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 <160tH) 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              |
| (*) 13 4 Falls          | (*) 6 4 Falls         | (*) 11 4 Falls          | (*) 13 4 Falls          | 16.5                           | 8         |                       | 175                                                     | 150                                  | 110              |
|                         |                       |                         |                         | 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               |
| Outer layer of drum     | Outer layer of drum   | Outer layer of drum     | Outer layer of drum     | 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                          |           |                       |                                                         |                                      |                  |

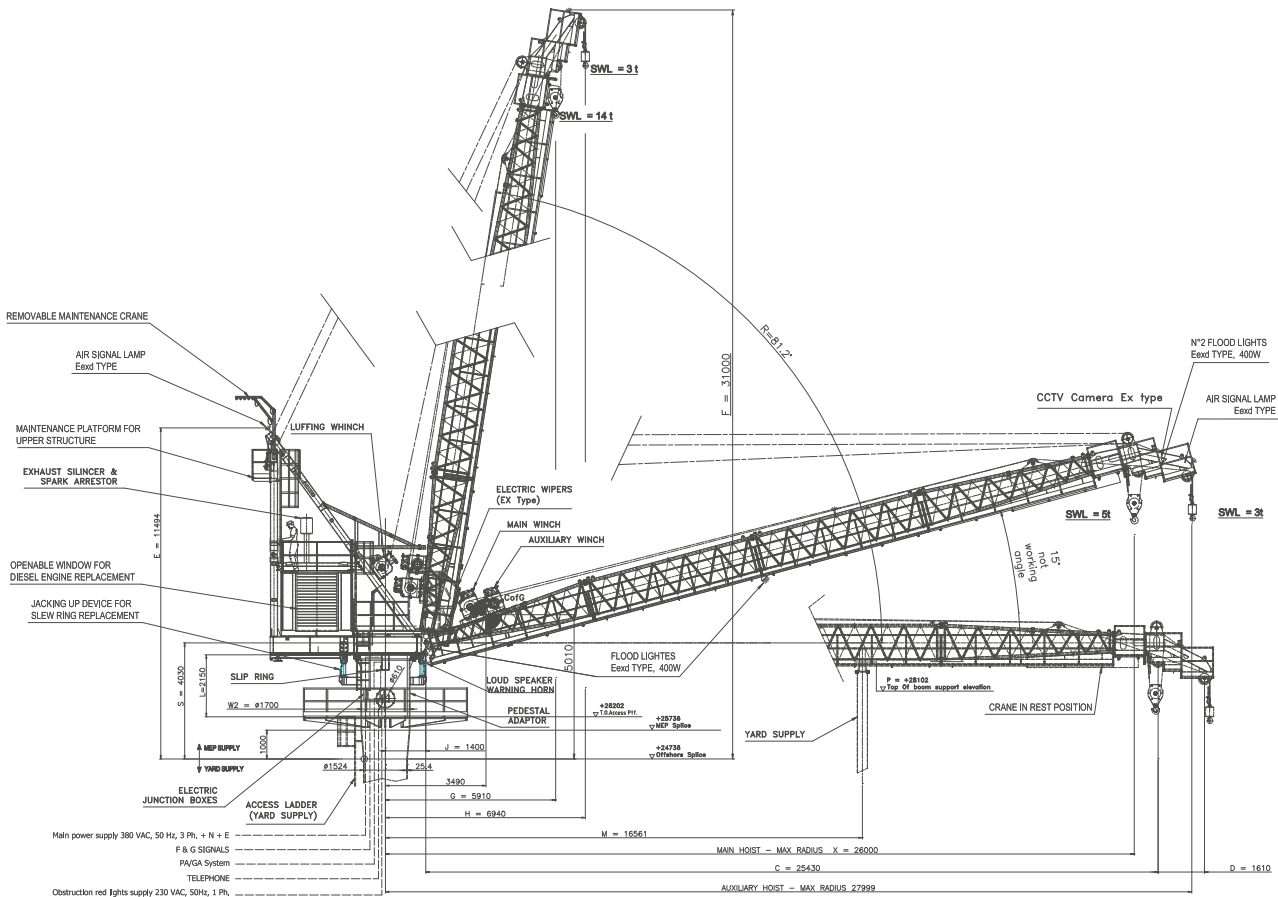
## GN 300-11 EH CHARACTERISTICS

- 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



# LATTICE BOOM CRANE

# OFFSHORE CRANES



| 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                  |

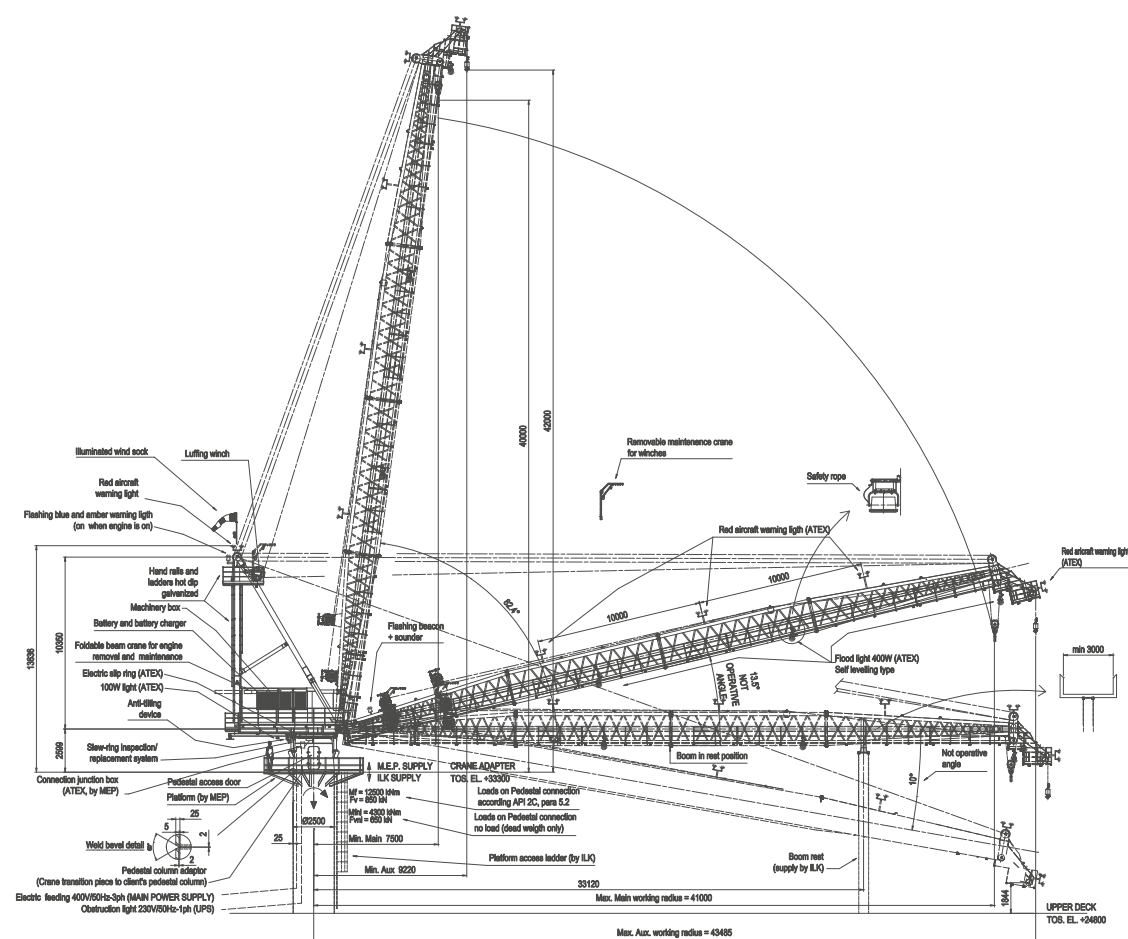
## GN 14-10 CHARACTERISTICS

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 as offshore 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.



# LATTICE BOOM CRANE

# OFFSHORE CRANES



| 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       |

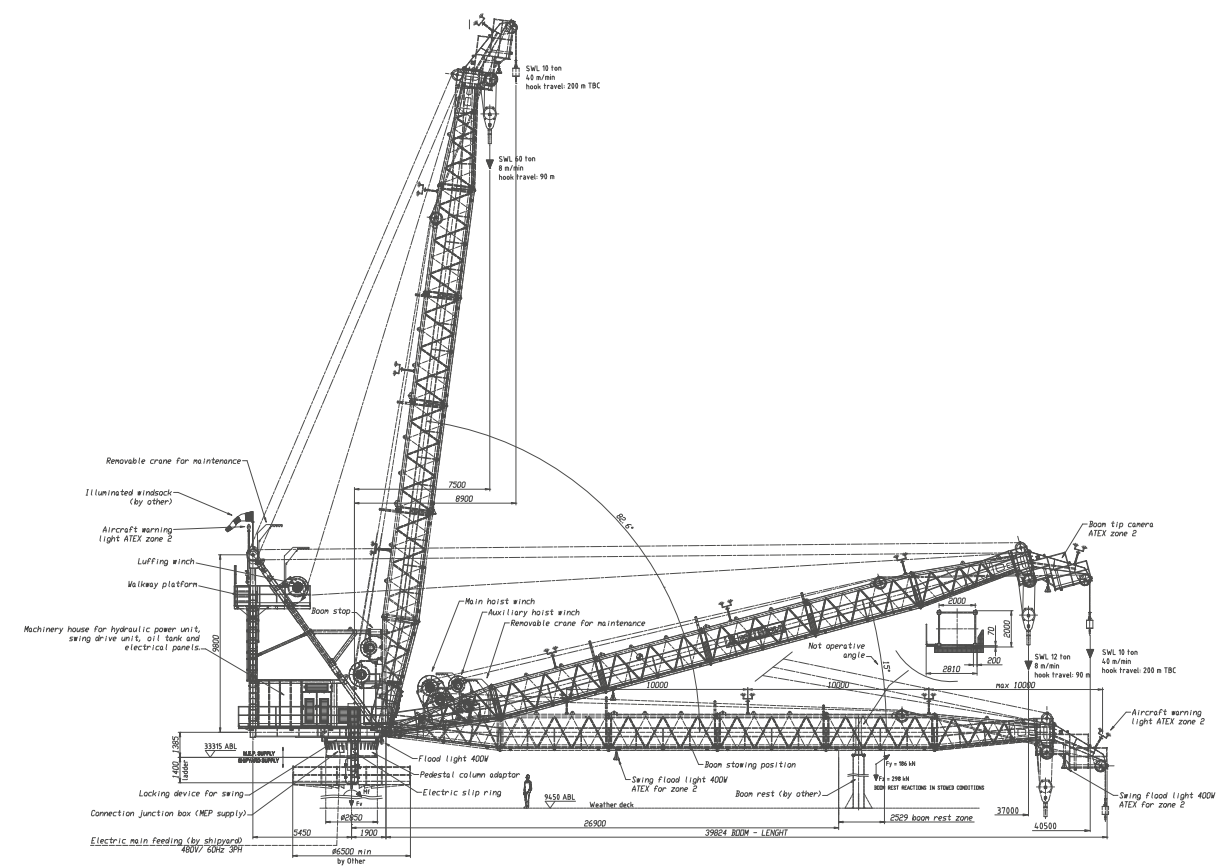
## GN 10-41 DH CHARACTERISTICS

- 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



LATTICE BOOM CRANE

OFFSHORE CRANES

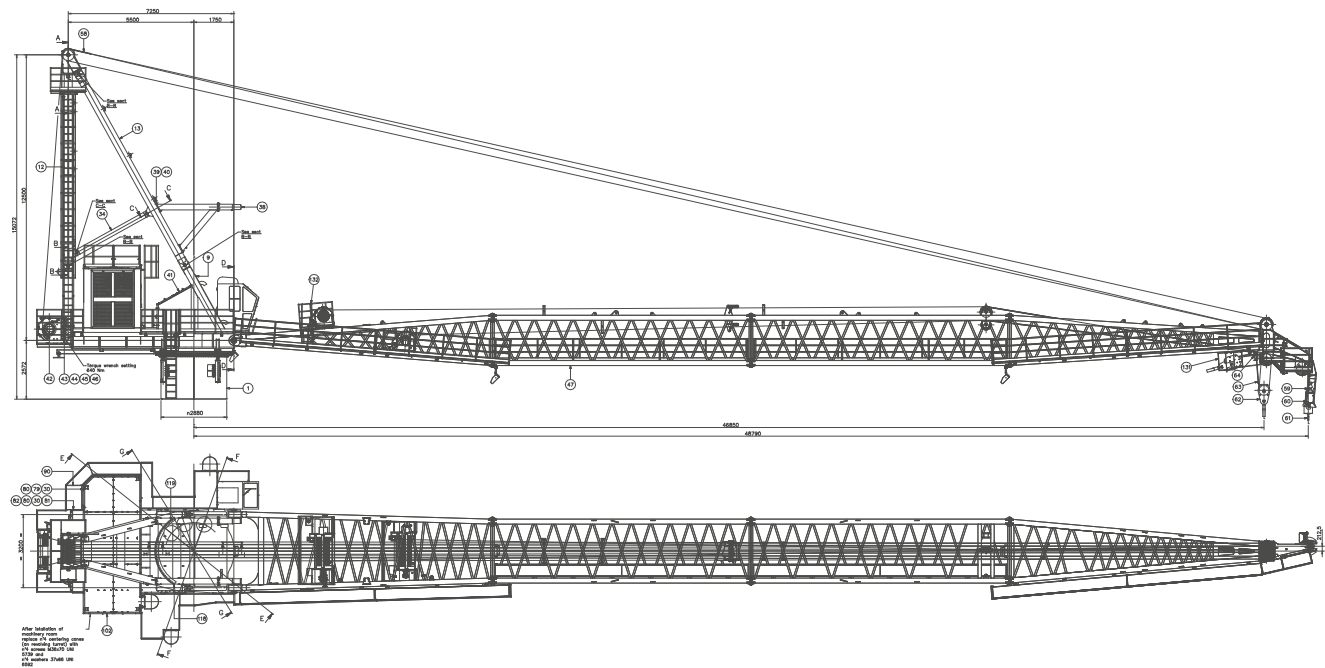


| OFFSHORE CRANE MODEL TYPE: GN 10/41 DH LOAD CHART |                      |                   |                        |                   |                        |
|---------------------------------------------------|----------------------|-------------------|------------------------|-------------------|------------------------|
| 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                    | 7.5               | 0÷8                    |
| 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                    |

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





GN 25-25 EH 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

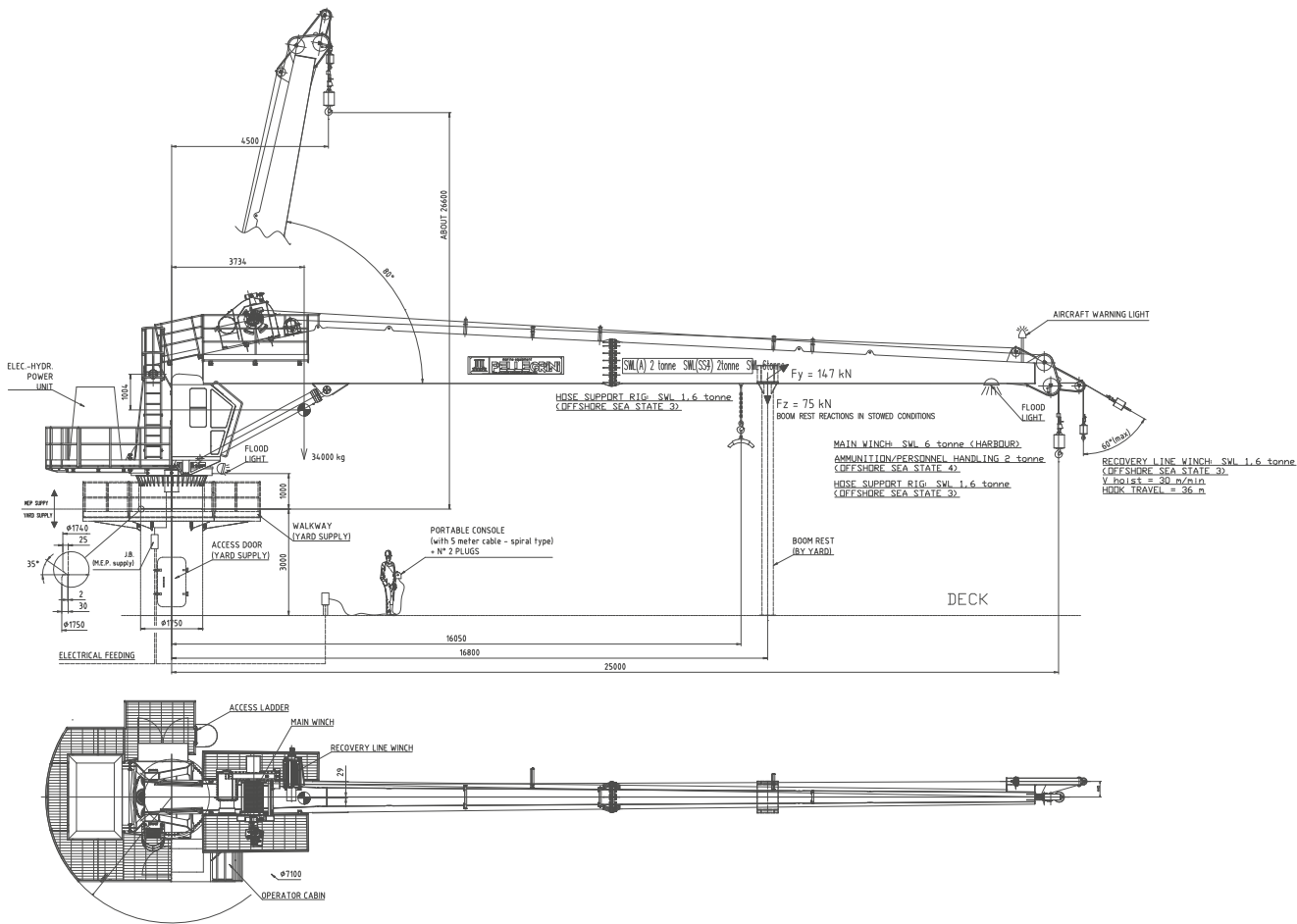
PROJECT: PROMIMP EP-11 / FPSO  
CLIENT: PETROBRAS

| 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

## OFFSHORE CRANES



## CHCD 6-25 CHARATERISTICS

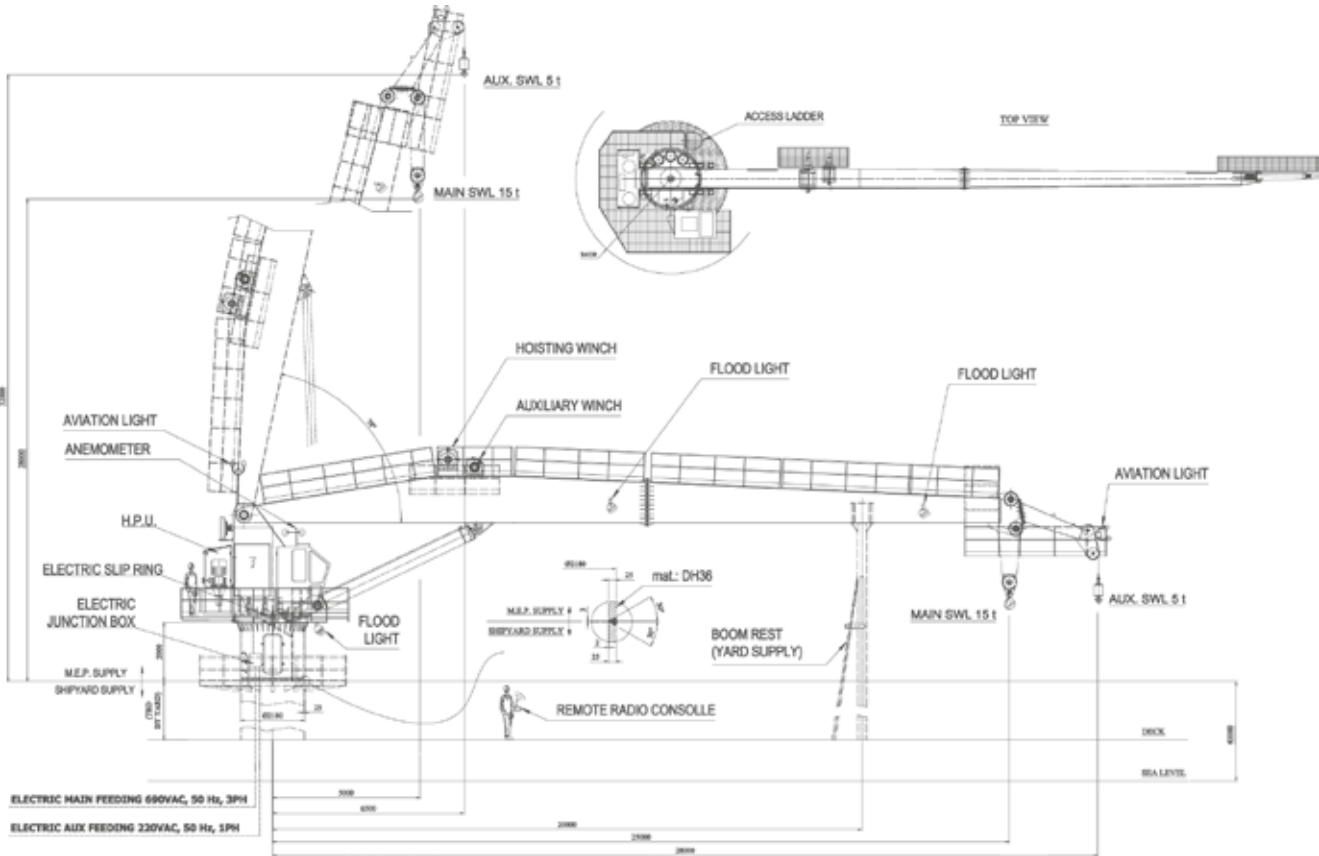
The offshore deck crane model CHCD 6-25 designed for the loading, unloading and movement of cargo, stores and ammunition.

The crane is capable of:

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

|                               |                        |
|-------------------------------|------------------------|
| 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          |





CHCD 15-25 EH CHARATERISTICS

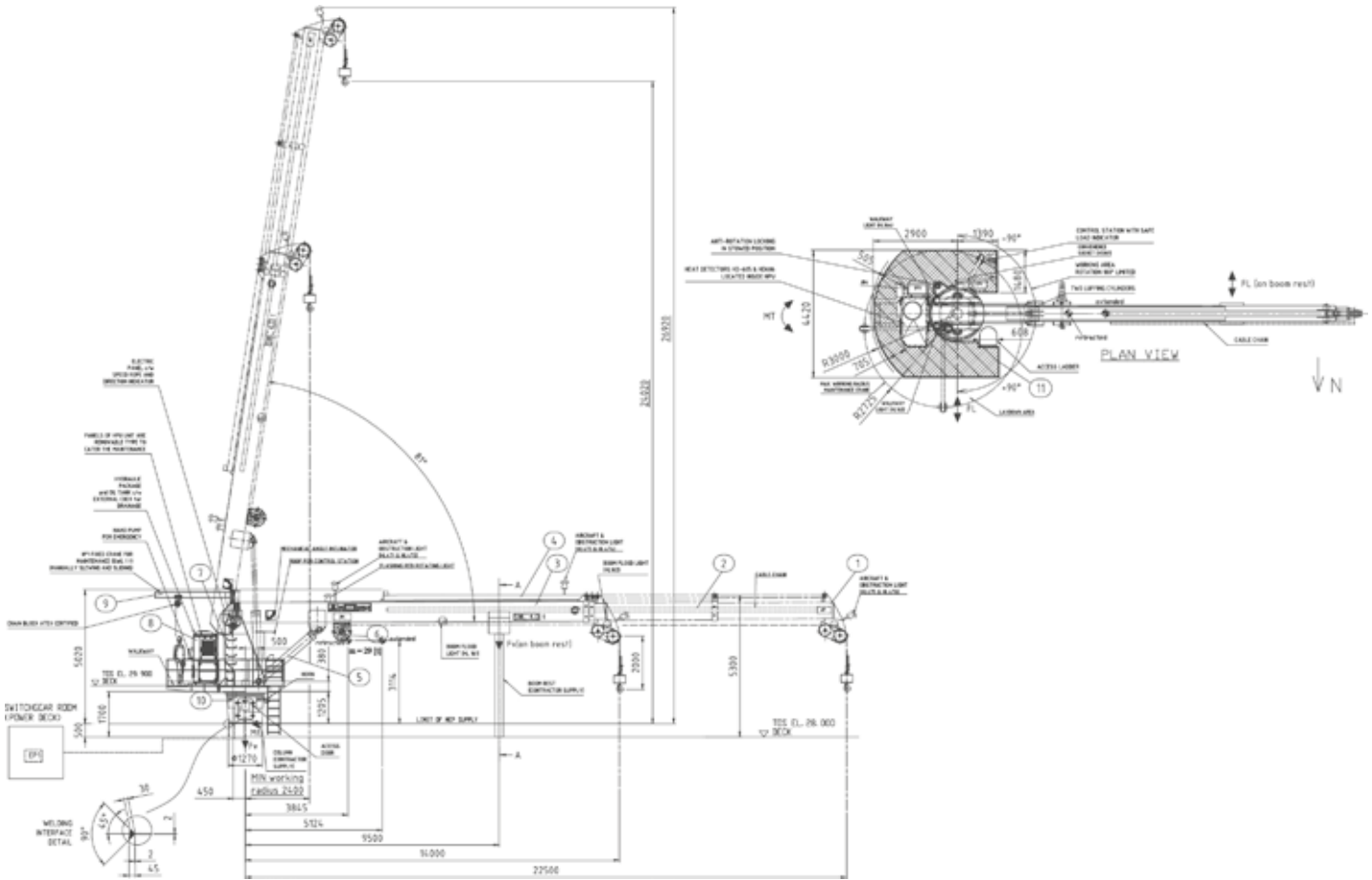
- ABS Certified
- Electric Hydraulic Power Unit
- Light-weight design
- Main winch: SWL 15t
- Aux winch: SWL 5t
- Personnel lifting: SWL 1t
- Load chart up to Hsig = 3m
- Remote Radio Control
- Minimum design temperature: 0°C

| 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)<br>0+40 m/min (EMPTY HOOK) |                |              |
| Hoisting speed (Aux. Hoist)                             | 0+50 m/min (LOADED HOOK)<br>0+80 m/min (EMPTY HOOK) |                |              |
| Slewing speed                                           | 0+0.6 rpm (LOADED HOOK)<br>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

# 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<br>Design dyn factor = as per API 2C, in particular:<br>Design dyn factor = 1.33 (onboard lifting)<br>Min recommended hoist speed: 12.08 m/min as per 8.2.1 of API 2C 7a Ed.<br>Min design dyn factor = 2.0 (supply-vessel lifting) with Hsig=2m T=6 sec<br>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:





## **M.E.P. Pellegrini Marine Equipments**

Via F. Busoni, 9  
37050 Vallese di Oppeano · Verona · Italy  
Tel. +39 045 508877 · Fax +39 045 508855  
**[www.mepel.it](http://www.mepel.it)**