



MATSU

Multi-Purpose DP2 Self Propelled Jack-up



Thong Yong Group

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Owner: Thong Yong Group
Builder: CMHI, China
Type: GustoMSC NG2500X
Built: 1Q 2017
Flag: Singapore

Class Notation

ABS, A1, Self Elevating Unit, AMS, ACCU, DPS-2, HELIDK, CRC, Wind IMR, HAB

Main Dimensions

Hull
Length Overall: Approx. 76.0m
Hull Length: 61.0m
Hull Width: 36.0m
Hull Depth: 6.0m
Draft: 3.8m
Extreme Draft: 6.0m (incl. thrusters)
Variable Load: 1629 ton @ max.
Deck Area: 1012 m²
Deck Strength: 5.0 ton/m²
Max. Water Depth: 70m

Helideck

Helicopter Type: Sikorsky S61 / S92
D-Value: 22.2 m diameter

Jacking System

Type: Rack and Pinion
Drive: Electric
No. of Pinions: 3X24
Normal Jacking: 90t per pinion
Pre-load Capacity: 153t per pinion
Hull Lifting Speed: 0.16-0.8 m/min
Leg Handling Speed: 0.16-1.2 m/min

Legs and Spudcans

Number: 4
Type: Triangular truss-type
Width: 5.0m
Length Overall: 94.2m
Reaction Force: 3000ton
Footing Area: 30 m²
Spudcan Type: Can with Pin
Jetting system: Available

Accommodation and Facilities

Single Berth: 10 x 1 berth (10 Men)
Double Berth: 62 x 2 berth (124 Men)
Four(4) men Berth: 4 x 4 berth (16 Men)
Total Complement: 150 Persons
Cabins equipped with en-suit shower/toilet, telephone, TV and network connections.
All cabins fully air-conditioned.

Facilities

Galley, Mess Room, Laundry, Prayer Room, TV Room, Change Room, Internet Room, Gym, Coffee Room, Meeting Room, Office, WIFI Facility, Hospital.

Crane

Main Crane

HUISMAN 300mt Pedestal Mounted Crane
Capacity: 300ton@15m-main hoist
30ton @ 60m-whip hoist

Auxiliary Crane

LIEBHERR 15mt Pedestal Mounted Crane
Capacity: 15ton@30m-main hoist
5ton @ 35m-whip hoist

Propulsion System

Thruster: 4 x 1500kW Azimuth Thruster
Size: 2.3m propeller diameter
Speed: 8 Knots

Power

Four Main Diesel Engine, 1700ekW Generator, 690V, 60Hz, Caterpillar 3512C
One Emergency Generator Set, 525ekW 440V, 60Hz, Caterpillar C18

Control Systems

Kongsberg Dynamic Positioning Control System according to ABS DP2.
Navigation and Communication systems according to IMO Requirements.

Auxiliary Equipment

Water Maker: 2 set, 40 ton/day each
Sewage Treatment: 1 set, 150 men/day

Tank Capacity

Portable Water: 421 m³
Fuel Tank: 466 m³
Water Ballast: 900 m³
Lubrication Oil Tank: 9.6 m³
21 days with full complement

Safety Equipment

Lifeboats: 2 x 150 persons
Liferafts: 12 x 25 persons
Rescue Boat: 1 x 15 persons
Water Mist: Engine and Galley
CO2 System: Engine
Sprinkler: All accommodation covered
Fire and Gas detectors throughout the vessel.
EEBD & SCBA Available

Design Temperature

Steel Design Temperature

-10°C (except Spudcan)
0°C for Spudcan

For AC and Ventilation System

Max. Ambient Temperature: +46°C, 60%
Min. Ambient Temperature: -10°C
Max. Seawater Temperature: +35°C
Min. Seawater Temperature: +4 °C

Design Criteria

	Operating	Survival
Water Depth:	70.0m	60.0m
Air Gap:	10.0m	7.0m
Wind Velocity:	25.0m/s	51.4m/s
Max. Wave Height:	5.0m	6.0m
Wave Period:	6.5s	7.5s
Surface Current:	1.1m/s	0.5m/s



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