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: 4.0m  
- 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  
Cabin equipped with en-suite shower/toilet, telephone, TV and network connections.  
All cabins fully air-conditioned.

### Crane
**Main Crane**  
- **HUEBHEER 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
**Lifeboat:** 2 x 150 persons  
**Liferaft:** 12 x 25 persons  
**Rescue Boat:** 1 x 15 persons  
**Water Mist:** Engine and Galley  
**Sprinkler:** All accommodation covered  
**Fire and Gas detectors throughout the vessel.**  
**EEBD & SCBA Available**

### Design Temperature
**Steel Design Temperature**  
-0°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
**Water Depth:** 70.0m  
**Air Gap:** 10.0m  
**Wind Velocity:** 25.0m/s  
**Max. Wave Height:** 5.0m  
**Wave Period:** 6.5s  
**Surface Current:** 1.1m/s

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