招悝局 工業集團有限公司
CHINA MERCHANTS INDUSTRY HOLDINGS CO., LTD.

友联船厂（蛇口）有限公司
YIULIAN DOCKYARDS (SHE KOU) LTD.

历年海洋工程修理记录
Offshore Project List
NAN HAI 5

- **Year:** 2002/2005
- **Project Name:** NAN HAI 5
- **Type:** Semi-submersible Rig
- **Project Period:**
  - 09/2002-01/2003
  - 12/2005-01/2006

- **Main Jobs Description:**
  Sand blasting and paintwork in water ballast tanks, under water, Structure inspection. Inspection & survey Due to class change.
NAN HAI 2

- **Year**: 2004
- **Project Name**: NAN HAI 2
- **Project Period**: 12/2004-02/2005
- **Type**: Semi-submersible Rig

- **Main Jobs Description:**
  - The spudleg and shell plate sandblasting and painting.
  - Main hull sandblasting and paintwork.
  - All the ballast tanks coating.
  - Living Quarter conversion, whole engine room renewed.
  - All MCC renewed.
  - More than 10,000m cable renewal.
  - The controls of ballast system renewal. The anchor chain inspection and chain locker steel renewal.
NAN HAI 6

- **Year:** 2005/2006
- **Project Name:** NAN HAI 6
- **Main Jobs Description:**
  - The spudleg and shell plate sandblasting and paintwork. Main deck sandblasting and painting. The deck crane renewed (Portside & Starboard side).
  - The cooling system of Living Quarter air condition modified.
  - The anchor chain inspected, windlass repaired. The hawse pipe fabricated and installed. About 300m cable trays renewed. The main gas station pipe line renewed.

- **Project Period:**
  - 09/2005-10/2005
  - 01/2006-03/2006
- **Type:** Semi-submersible Rig
NAN HAI 6

- **Main Jobs Description:**
  - Drilling compensator repair, drilling package upgrade.
  - Living quarter conversion.

- F/W generator, heater and auxiliary machines renewed. Main gensets exhaust extended above main deck.
HAI YANG SHI YOU 931

- **Year:** 2006/2008
- **Project Name:**
  HAI YANG SHI YOU 931
- **Type:**
  Jack-up Rig
- **Project Period:**
  05/2006
  03/2008~10/2008
Main Jobs Description:

- Cantilever and drilling floor newbuilding and install;
- Newly install derrick and all drilling equipment renewal;
- Main engine renewal, crane renewal, all electric cable renewal, piping system conversion;
- Living Quarter completed renewal including all systems.

Total: Steel work—over 4,500 tons, electric cable renewal—over 120,000 m, sand blasting and painting—over 100,000 m$^2$. 

HAI YANG SHI YOU 931
HAI YANG SHI YOU 941

- **Year:** 2009/2011
- **Project Name:**
HAI YANG SHI YOU 941
- **Type:**
  Jack-up Rig
- **Project Period:**
  06/2009~08/2009
  05/2011~06/2011
- **Main Job Description:**
  - Airgap by 80m;
  - Deformation of leg and pile shoe crack repair;
  - Clean up of jetting line and leg rack repair;
  - Conversion of air conditioning cooling pipe.
Year: 2009

Project Name: NAN HAI 4

Type: Jack-up Rig


Main Job Description:
- Jacking system overhaul;
- Overhaul of motor braking system;
- Mechanical work;
- Pipe renewal– 1400m;
- Steel renewal– 280t;
- Tank coating– 2000m².
KAN TAN 3

- **Year:** 2007
- **Project Name:** KAN TAN 3
- **Project Period:** 12/2006-04/2007
- **Type:** Semi-submersible Rig

**Main Jobs Description:**
- Hull, spudleg, main deck sandblasting and painting. Ballast tank cleaning, steel renewal and sandblasting and paintwork.

- Mud pump, mud treatment equipment, de-sander, drawworks repair.
- Living Quarter conversion and Incline Test, Etc.
KAN TAN 3

- Conversion of pontoon and column:
- Brace renewal;
- Renewal of crane and diesel engine;
- Repair in drydock;
- Piping system Renewal;
- Renewal of Drilling Equipments.
BA VI

- **Year:** 2008
- **Project Name:** BA VI
- **Type:** FSO
- **Project Period:** 04/2008~09/2008

**Main Jobs Description:**
- General repairs, steel renewal, sandblasting and painting.
- Total steel work - over 1,500 tons; cargo oil pipe system renewal; monobouy repair; etc..
Year: 2008

Project Name: CUU LONG

Type: Jack-up Rig

Project Period: 04/2008-10/2008

Main Jobs Description:

- More than 500T steel structure conversion;
- Living quarter fabrication and conversion;
- Cantilever and derrick floor conversion; drilling equipment renewal;
- Tank coating – more than 60,000m².
PREM PRACHI

- **Year:** 2010
- **Project Name:** PREM PRACHI
- **Type:** FSO
- **Project Period:** 05/2010-11/2010

**Main Jobs Description:**

- New installation of 12 Point Mooring System, helideck, gas boilers, fiscal metering package, loading discharging system, tandem mooring arrangement etc.
- Conversion of 4 ballast tanks to cargo tanks, accommodation upgrading, lifesaving and firefighting system upgrading, cargo control room upgrading, automatic monitor & measurement system upgrading.
- All cargo tanks & ballast tanks system coating; All heating coils renewal-25,000m, newly installation of all hydraulic control system tubes 5,000m
CHILINH

- **Year:** 2010
- **Project Name:** CHILINH
- **Type:** FSO
- **Project Period:** 10/2009~05/2010

**Main Jobs Description:**
- Monobouy mooring system overhaul and main bearing renewal;
- Cargo oil pipe system renewal, IG system repair, cargo pump, boiler overhaul;
- Sandblasting and painting – 200,018m²;
- Total steel work – 2,600 tons.
NAN HAI FA XIAN

- **Year:** 2010
- **Project Name:** NAN HAI FA XIAN
- **Type:** FPSO
- **Project Period:** 11/2009

**Main Jobs Description:**
- Monobouy mooring system overhaul and internal turret bearing roller renewal;
- Steel work: 2,000MT;
- Cargo steam heating system upgrading: 8,000m; Stainless tube of hydraulic valve renewal: 2,000m;
- Tank coating: 100,000m²;
- Top side module cleaning and overhauling;
- Navigation and communication equipment conversion;
- HVAC system of accommodation conversion; Generator system upgrading.
H-851

- **Year:** 2010
- **Project Name:** H-851
- **Type:** Offshore Launching Barge
- **Project Period:** 09/2010

- **Main Jobs Description:**
  - Starboard/portside structure of forward of the barge renewed (100m × 10m)
  - Reinforcement of shoulders
  - Rapid ballast system newly installation
  - All steel are of high tensile and the maximum of 120mm thickness.
ASDD

- **Year:** 2007
- **Project Name:** Artificial Seabed Deepwater Drilling (ASDD)
- **Type:** Artificial Buoyancy Seabed Unit
- **Project Period:** 2007
Maersk Nomad

- **Year:** 2011
- **Project Name:** Maersk Nomad
- **Type:** Platform Supply Vessel
- **Project Period:** 12/2011~

**Main Jobs Description:**
- Conversion from PSV to construction vessel;
- Steel construction works: Newly fabricate and install sponsors IWO each side; newly fabricate 18 person accommodation, total steel work around 600T;
- New accommodation furniture (18 room);
- M/D install deep sea crane (SWL120T *1800M);
- Install 2sets ROV systems;
- Bridge extending and modification;
- Life saving and fire extinguishing system modification;
- Newly install heli-deck;
- Newly install 2 sets double deck D/G;
- Relative electric and piping modification;
- Cable lay out around 50000m;
- Relative deck fitting modification.
Neptune Finder

- **Year:** 2012
- **Project Name:** Neptune Finder
- **Type:** Semi-submersible Rig
- **Project Period:** 01/2012~

**Main Jobs Description:**
- Semi-submersible Rig to 500 Persons’ Floatel
- Removal of existing drilling system/living quarter/engine room and main deck;
- New installation of LQ for 500 persons;
- New installation of HVAC system;
- New installation of helideck and 2 cranes (75T*1,25T*1);
- Upgrade of mooring system and renewal of all cables/electrical/equipments/marine auxiliary equipments;
- New installation of flexible gangway;
- New installation of life-saving/fire fighting system and renewal of alarm monitoring system & navigation communication system;
- New steel structure fabrication and installation: 3300tons;
- Cable lay out:24,000m; pipe renewal: 20,000m;
- Tank coating: 120,000 m²;  Hull coating: 90,000m
HYSY 936

- Type: 350FT Mobile Offshore Drilling Unit
- Client: China Oilfield Services Limited
- Class: ABS & CCS
- Basic Designer: Gusto MSC / Series: MSC-CJ46-X100-D
- Function: For Oil & Gas Exploration, drilling Operation, the Max Drilling depth up to 9144M.
- Delivery date: November 30, 2009.

Capability Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hull Length</td>
<td>65.25m</td>
</tr>
<tr>
<td>Overall Width</td>
<td>62m</td>
</tr>
<tr>
<td>Hull Depth</td>
<td>8-7.75m</td>
</tr>
<tr>
<td>Fully Loaded Draught</td>
<td>4.5m</td>
</tr>
<tr>
<td>Max Working Water Depth</td>
<td>91.4m/106.68m</td>
</tr>
<tr>
<td>Max Drilling Depth</td>
<td>9144m</td>
</tr>
<tr>
<td>Max Longitudinal Outreach Cantilever</td>
<td>21.34m</td>
</tr>
</tbody>
</table>
Type: Removable Accommodation
Supporting Rig & drilling units
Client: CNOOC Energy Technology & Service Ltd.
Class: CCS
Basic Designer: Drilling Technology Research Institute Shengli Petroleum Administrative Bureau CPCC

## Capability Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Life</td>
<td>25 years</td>
</tr>
<tr>
<td>Overall Length</td>
<td>76m</td>
</tr>
<tr>
<td>Overall Breadth</td>
<td>49.8m</td>
</tr>
<tr>
<td>Hull Length</td>
<td>54m</td>
</tr>
<tr>
<td>Width Moulded</td>
<td>49m</td>
</tr>
<tr>
<td>Hull Depth</td>
<td>5.2m</td>
</tr>
<tr>
<td>As drilling rig towing draught</td>
<td>3.49m, displacement 7396t</td>
</tr>
<tr>
<td>As supporting towing draught</td>
<td>3.40m, displacement 7204t</td>
</tr>
<tr>
<td>Autonomy Capability</td>
<td>30 days</td>
</tr>
</tbody>
</table>
HYSY 281/282

HYSY 282 in Building

HYSY 281 in Building
**HYSY 901/902**

- **Type:** Liftboats
- **Client:** China Oilfield Services Limited
- **Class:** ABS & CCS
- **Basic Designer:** Levingston USA
- **Delivery date:** Nov. 30, 2009

<table>
<thead>
<tr>
<th>Capability Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Life</td>
</tr>
<tr>
<td>Overall Length</td>
</tr>
<tr>
<td>Hull Length</td>
</tr>
<tr>
<td>Overall Width</td>
</tr>
<tr>
<td>Hull Depth</td>
</tr>
<tr>
<td>Leg Length (Inclusive Footing)</td>
</tr>
<tr>
<td>Speed</td>
</tr>
<tr>
<td>Fully loaded draught</td>
</tr>
</tbody>
</table>
HYSY 901/902

2 nos. of Liftboats for COSL in Building
- **Type:** 4500m³/h Self-propelled Cutter Suction Dredger
- **Client:** CCCC Tianjin dredging Co., Ltd.
- **Class:** CCS
- **Basic Designer:** VOSTA LMG Germany
- **Delivery date:** Oct. 30, 2009

### Capability Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Length overall, incl. cutter ladder and spuds</td>
<td>127.5m</td>
</tr>
<tr>
<td>Breadth moulded</td>
<td>22m</td>
</tr>
<tr>
<td>Length over deck</td>
<td>103m</td>
</tr>
<tr>
<td>Hull Depth</td>
<td>7.80m</td>
</tr>
<tr>
<td>Design draught. With 1540t consumables and stores</td>
<td>5.5m</td>
</tr>
<tr>
<td>Speed at 90% MCR</td>
<td>13.00kn</td>
</tr>
</tbody>
</table>
4500m³/h Self Propelled Cutter Suction Dredge in Building
COSL221/222/223/225

- Type: Workover Support Barge for Offshore Activities
- Client: China Oilfield Services Ltd.
- Class: ABS
- Basic Designer: Whale Offshore
- Construction Time: 2008.1-2010.9

### Capability Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Overall Length</td>
<td>99.60 m</td>
</tr>
<tr>
<td>Overall Width</td>
<td>30.00 m</td>
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<tr>
<td>Hull Depth</td>
<td>6.20 m</td>
</tr>
<tr>
<td>Design draught</td>
<td>4.00 m</td>
</tr>
<tr>
<td>Open deck area</td>
<td>1800 m² (LxB = 60x30)</td>
</tr>
</tbody>
</table>
DE HUI

- Type: 13,000kW Sea-going Salvage Tug
- Client: Guangzhou Salvage Bureau of the Ministry of Communications
- Class: CCS
- Basic Designer: Shanghai Merchant Ship Design & Research Institute
- Contracted delivery time: May 2011

### Main Particulars

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Value</th>
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<tbody>
<tr>
<td>Overall Length</td>
<td>89.96 m</td>
</tr>
<tr>
<td>Breadth Mould</td>
<td>17.2m</td>
</tr>
<tr>
<td>Depth Mould</td>
<td>8.5 m</td>
</tr>
<tr>
<td>Design Draft</td>
<td>6.8 m</td>
</tr>
<tr>
<td>Tug force</td>
<td>&gt;2000KN</td>
</tr>
<tr>
<td>Speed</td>
<td>16.2 Kn</td>
</tr>
</tbody>
</table>
HUA HAI LONG

- Type: 30000 Tons Self-propelled Semi-Submersible Barge
- Client: The Guangzhou Salvage Bureau of the Ministry of Communications
- Class: CCS
- Basic Designer: MARIC-Marine Design & Research Institute of China
- Delivery date: Sep. 30, 2011

<table>
<thead>
<tr>
<th>Main Specification</th>
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<tbody>
<tr>
<td>Overall Length</td>
<td>182.2 m</td>
</tr>
<tr>
<td>Length PPL</td>
<td>170.4 m</td>
</tr>
<tr>
<td>Breadth Hull</td>
<td>43.6 m</td>
</tr>
<tr>
<td>Depth Hull</td>
<td>11 m</td>
</tr>
<tr>
<td>Design Draught</td>
<td>7.5 m</td>
</tr>
<tr>
<td>Draught of Full load</td>
<td>8 m</td>
</tr>
<tr>
<td>Max. Submerged Depth</td>
<td>23 m</td>
</tr>
<tr>
<td>Endurance</td>
<td>10,000 N.M.</td>
</tr>
<tr>
<td>Speed</td>
<td>12 Knots</td>
</tr>
<tr>
<td>Navigation Area</td>
<td>Unrestricted</td>
</tr>
</tbody>
</table>
HYSY 278

- **Type:** 50,000 Tons Self-propelled Semi-Submersible Vessel
- **Owner:** Offshore Oil Engineering CO., Ltd
- **Class:** CCS
- **Basic Design:** Deltamarin. Ltd
- **Detail Design:** Marine Design & Research Institute of China
- **Construction Time:** 2010.07.19-2012.02.25

<table>
<thead>
<tr>
<th>Main Particulars</th>
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<tbody>
<tr>
<td>Overall Length</td>
<td>221.6 m</td>
</tr>
<tr>
<td>Length PPL</td>
<td>210.88 m</td>
</tr>
<tr>
<td>Breadth MLD</td>
<td>42.0m</td>
</tr>
<tr>
<td>Depth</td>
<td>13.3 m</td>
</tr>
<tr>
<td>Design Draft</td>
<td>10.15 m</td>
</tr>
<tr>
<td>Total DWT</td>
<td>53500t</td>
</tr>
<tr>
<td>Max. Submerged Depth</td>
<td>26.8 m</td>
</tr>
<tr>
<td>Navigation Ability</td>
<td>15000 Sea Miles</td>
</tr>
<tr>
<td>Speed</td>
<td>14kn</td>
</tr>
<tr>
<td>Navigation Area</td>
<td>Unrestricted</td>
</tr>
</tbody>
</table>
86M Soil Displacement Sand Piling Barge

- **Client:** CCCC Third Harbor Engineering Co., Ltd
- **Class:** CCS★CSA, Pile Driving Barge, R2 for Operation, In-water survey
- **Designer:** Shanghai Bestway Marine Engineering Design Co., Ltd.
- **Length overall:** 75m
- **Breadth mould:** 26m
- **Depth mould:** 5.2m
- **Design draft:** 3.2m
- **Accommodation:** 40
- **Contracted delivery time:** Jan 2011
11,000m³ Self-propelled Trailing Suction Dredger

- Client: CCCC Tianjin Dredging Co., Ltd
- Class: CCS★CSA Trailing Suction Hopper
  Dredger, Dredging Within R2, PSPC(B),
  Ice class B, FTP
- ★CSM MCC
- Designer: Marine Design & Research Institute of China
- Length overall: 129m
- Breadth moulded: 26.2m
- Depth moulded: 9.65m
- Design draft/max draft: 7.0m/8.35m
- Capacity/max capacity: 8500m³/11000m³
- Contracted delivery time: Oct 2011
15,000t Semi-submersible Heavy Lift Barge

- Client: CCCC Third Harbor Engineering Co., Ltd
- Class: CCS★CSA， Pontoon Barge/Semi-Submersible
  Heavy Lift Vessel； R1
- Designer: Shanghai Bestway Marine Engineering Design Co., Ltd.
- Length overall: 100m
- Breadth mould: 40m
- Depth mould: 7m
- Design draft: 5m
- Max submerged draft: 26.5m (above BL)
- Contracted delivery time: Dec 2011
3,000DWT Bunkering Oil Tanker

- Owner: Chuang Xin (China) Group Ltd
- Class: CCS
- Basic Designer: Guangzhou XED ship Design Co., Ltd
- Length Hull: abt. 69.9m
- Breadth HULL: 14.3m
- Depth Hull: 7.2m
- Design Draft: 5.5m
- DWT: abt. 3,000T
- Gross Tonnage: 1,998
- Cargo oil tank (98%): abt. 2,660 m³
- Fuel oil tank (98%): abt. 220 m³
- Speed: 11 Kn
- Navigation Area: Non Restrict
- Navigation Ability: 4,000 See Miles
H542 Launch Barge

- Owner: Heerema Marine Contractors Nederland B.V.
- Class: DNV
- Basic Designer: Heerema Marine Contractors Nederland B.V.
- Contracted delivery time: June 2012
- Length overall: 165m
- Breadth, moulded: 42m
- Depth, moulded: 10.7m
- Summer draught: 7.5m
- Web frame spacing: 2,500mm
- Specific deck load: 15m stroke at centre line 150kN/m²
  : outside 15 stroke 200 kN/m²
- Water ballast: 62,026m³
- Classification: 100A1 Pontoon, Ocean Going, Clean Design