BOMCO
PRESENTATION
DRILLING EQUIPMENT & DRILLING RIG PACKAGE
WORLDWIDE SUPPLIER
Jan, 2018
- A subsidiary of CNPC and the largest oilfield equipment manufacturer in China.
- Founded in 1937, with a history of 80 years.
- Well-known as “the mother of China National Drilling Equipment Industry”
GENERAL VIEW OF BOMCO

- With total assets of 2 billion US dollar and total area of 2,500,000 Sq.m.
- With 8200 employees and 2300 sets of production machines.
- With 15API licenses covering 74 kinds of products, BOMCO is the company with most API Licenses in the world.
BOMCO
A CNPC Company

Organization

11 Functional Departments
- HR, Financial, Audit, Production, HSE, etc

1 Research Academy
- Onshore Equipment Institute
- Offshore Equipment Institute
- Materials & Processing Technology Institute

1 Sales Department
- Domestic Sales Department
- International Sales Department
- Foundry, Forging, Mud Pumps, drawworks, etc

9 Manufacturing Plants
- Bomay Electric Industries Co., Ltd.
- Beijing BOMCO Offshore Oil Engineering Technology Co
- BOMCO Electric Equipment Co., Ltd
- BOMCOBRAS Oilfield Equipment Co.

4 Joint Venture Companies
- BOMCO-Xianyang Petroleum Steel Tube & Wire Rope Co., Ltd.
- Baoji Bomco Special Vehicle Co., Ltd.
- Offshore Oilfield Equipment Branch
- BOMCO-Chengdu Equipment Manufacturing Company

4 Subsidiaries

BOMCO
### Annual Production of Rigs (sets)

<table>
<thead>
<tr>
<th>Year</th>
<th>Output</th>
<th>Export</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>141</td>
<td>23</td>
</tr>
<tr>
<td>2009</td>
<td>86</td>
<td>15</td>
</tr>
<tr>
<td>2010</td>
<td>59</td>
<td>14</td>
</tr>
<tr>
<td>2011</td>
<td>74</td>
<td>22</td>
</tr>
<tr>
<td>2012</td>
<td>95</td>
<td>13</td>
</tr>
<tr>
<td>2013</td>
<td>95</td>
<td>6</td>
</tr>
<tr>
<td>2014</td>
<td>52</td>
<td>7</td>
</tr>
<tr>
<td>2015</td>
<td>48</td>
<td>30</td>
</tr>
<tr>
<td>2016</td>
<td>47</td>
<td>27</td>
</tr>
</tbody>
</table>
Sales Turnover

<table>
<thead>
<tr>
<th>Year</th>
<th>Million USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>888.68</td>
</tr>
<tr>
<td>2009</td>
<td>772.91</td>
</tr>
<tr>
<td>2010</td>
<td>696.24</td>
</tr>
<tr>
<td>2011</td>
<td>815.24</td>
</tr>
<tr>
<td>2012</td>
<td>932.9</td>
</tr>
<tr>
<td>2013</td>
<td>1351.26</td>
</tr>
<tr>
<td>2014</td>
<td>902.61</td>
</tr>
<tr>
<td>2015</td>
<td>731.33</td>
</tr>
<tr>
<td>2016</td>
<td>509.12</td>
</tr>
</tbody>
</table>
“BOMCO” Chinese trademarks and “BOMCO” English trademark is recognized as “China Famous Trademark”

“BOMCO” series drilling rigs are recognized as “China famous brand” products
BOMCO Quality Certificates

ISO9001

ISO14001
BOMCO HSE Certificates

HSE Certificate

OHS18001 Certificate
API licenses
<table>
<thead>
<tr>
<th>Item</th>
<th>API Specs</th>
<th>Licence No.</th>
<th>Authorized Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Q1</td>
<td>2087</td>
<td>Design and Manufacture of Drilling and Well Servicing Equipment, Pumping Units, Hoisting Equipment, Derricks/Masts, Substructures and Thread Gages</td>
</tr>
<tr>
<td>2</td>
<td>4F</td>
<td>0011</td>
<td>Derricks, Masts, Crown block assemblies, Substructure</td>
</tr>
<tr>
<td>3</td>
<td>5B</td>
<td>0021</td>
<td>Thread gages</td>
</tr>
<tr>
<td>4</td>
<td>7-1</td>
<td>0141</td>
<td>Kelly cocks, Tool joints, Drill stem subs, joint gages</td>
</tr>
<tr>
<td>5</td>
<td>7-2</td>
<td>0141</td>
<td>Drill stem subs thread gages</td>
</tr>
<tr>
<td>6</td>
<td>7K</td>
<td>0009</td>
<td>Rotary tables, kelly bushings, bloom bushing, slips, rotary hose, slush pump components, drawworks componnets, shuck, safety slip, power tongs</td>
</tr>
<tr>
<td>7</td>
<td>8C</td>
<td>0085</td>
<td>Hoisting sheaves, traveling blocks, block-to-hook adapters, connectors and link adapters, drilling hooks, tubing and sucker rod hooks, elevators, casing, tubing, and drill pipe elevators, spiders, sucker rod elevators, deadline tie-downs, tension members.</td>
</tr>
<tr>
<td>8</td>
<td>11E</td>
<td>0023</td>
<td>Pumping unit structure, pumping unit gear reducer</td>
</tr>
<tr>
<td>9</td>
<td>6A</td>
<td>0229</td>
<td>Flanged connections, thread connection, ring joint gaskets, valve, casing and tubing heads, casing and tubing hangers, tubing head adapters, tees and crosses, etc.</td>
</tr>
<tr>
<td>10</td>
<td>16A</td>
<td>0127</td>
<td>Annular blow out preventers, ram blow out preventers, drilling spools and adapters.</td>
</tr>
<tr>
<td>11</td>
<td>16C</td>
<td>0053</td>
<td>Choke &amp; killing manifold and drilling choke valve controller</td>
</tr>
<tr>
<td>12</td>
<td>9A</td>
<td>0038</td>
<td>Bright and drawn-galvanized wire rope, mooring wire rope, well-measuring wire</td>
</tr>
<tr>
<td>13</td>
<td>11AX</td>
<td>0055</td>
<td>Pumps, pump parts</td>
</tr>
</tbody>
</table>
- Company Introduction
- Technology & Research
- Manufacturing Capability
- Main Products
- Marketing & services
276 Senior Engineers
800 Engineers

National Engineering Technology Research Center Of Oil And Gas Drilling Equipments
BOMCO R & D center is awarded as National Drilling Rig Standardization Department & National Offshore Drilling Equipments Standardization Department.
In 2011, the Chinese Government authorized BOMCO to establish the National Oil & Gas Drilling Equipment Engineering and Technology Research Center. Up to now, the whole construction is completed and put into operation.
FACILITIES AND TECHNOLOGIES

Metal Physical and Chemical Laboratory
➢ Assembling
➢ Commissioning
➢ Testing

1000T Hydraulic Cylinder

800T Hydraulic Cylinder
Test device for HP manifold: max. pressure up to 10000 Psi.

Test-bed for F-series pumps: from 500HP to 2200HP, W.P 7500 Psi.

High pressure test cabin for BOP: Max. testing pressure 22000 Psi, by TV watching.
2000T Hydraulic Tension Device

Test bench for transmission
- Company Introduction
- Technology & Research
- Manufacturing Capability
- Main Products
- Marketing & services
Precision machining:

Equipped with the world’s most advanced German NC gear grinding machine (3 sets), USA thread grinding processing equipment (2 sets), 3 sets inspection equipments.

- German HOFLER NC thread grinder
- 3000/650 thread detector
- German Zeiss three coordinates detector
**Pump equipment:**
Equipped with world famous and advanced machining equipments, pump test bench, high pressure test bench, spray coating, with production capacity of annual output all kinds of 800 sets drilling pumps and pump units.
**Foundry equipment:**
Equipped with more than 900 sets of advanced equipments, can produce 20,000T steel casting and 40,000T steel ingot.
**Forging equipment:**
Equipped with the most advanced and highest degree of automatic machine, Annual output reaches to 3000T forging, 1800 pairs elevator links, Max. weight is 40T.

- 5000T hammer forging hydraulic machine
- 1600T fast forging press
- NC ring rolling machine
- Ele-hydraulic hammer
Heat treatment equipment: has international advanced furnace line, bears normal heat treatment, glow ionic nitriding, carburization, carbonitriding and induction hardening, etc. Annual heat treating capacity can reach to 45,000T.
Rig assembly and Commissioning:
The new rig assembly yard can harbors 12 set of drilling rig for assembly and commissioning in one time.
Annual output value:

- 100 sets various kinds of complete drilling rig;
- 3 sets drilling platform assembly and integration (EPC);
- 800 sets pumps;
- 8000pcs bits;
- Over 60000T steel tube & wire rope;
- 125 sets electrical control equipments;
- 220 units special vehicles.
- Company Introduction
- Technology & Research
- Manufacturing Capability
- Main Products
- Marketing & services
1. Drilling Rigs series: 300HP-6000HP (1000m~12000m in drilling depth)
Various series rigs, VFD Drive, SCR Drive, Mechanical Drive, etc.
1500-2000HP Desert Fast moving Rig

55T-350T Hydraulic Drilling Rig

750-2000hp Trailer mounted rig
Main Products

Slant Rig

Island Rig

Work-over rig
2. DERRICK AND MAST
3. SUBSTRUCTURE
4. DRAWWORKS & Rotary Table
5. HP MUD PUMPS & Spare Parts
6. HOISTING Equipment

- Crown Block 90T–900T
- Top Drive
- Hook 250T-900T
- TB 90T–900T
- Swivel 250T-750T
7. Drilling Tools

- Elevators
- Thread gauge
- Ceramic Cylinder liner
- Perforating Gun
- Testing tools & down hole tools
- Elevator Links 50T-900T
8. Special Vehicles

Logging Truck

Cementing Truck

Acid Fracturing Truck

Oil Extraction Truck
9. WIRE ROPE & Drilling Line

Wire line/rope for Oilfield service (drilling line, work over line, offshore platform, port machinery, port crane, construction machinery, marine engineering)

Subsurface Pump

Main Client:
Saudi Aramco, Nabors, NDC, SLB, KDC, Rosneft, Gazprom, etc
10. Drill Bits

PDC Bit

Roller Cone Bit

Construction Bit
11. BOP, Wellhead Equipment and Christmas Tree
12. Fracturing Units

Fracturing Trucks
Blender
Instrumentation Trucks
13. Solid control system & Shale shakers

Shale shakers
Desander & Desilter
Centrifuge
Solid Mud purification
14. Drilling Automation system
15. Electric control System

Electric Drive System (VFD/MCC house)

Driller’s Cabin

Low-voltage switch gear/Transformer

ALL THE PRODUCTS MENTIONED ABOVE HAS BEEN LISTED IN CNPC 1-CLASS PRODUCTS
OFFSHORE DRILLING RIG MODULES

- Submersible drilling platform
- Jack-up drilling platform
- Deep water investigation ship
- Artificial island skidding modular rig
- Fixed/Jacket drilling platform
- Semi-submersible drilling platform
- Company Introduction
- Technology & Research
- Manufacturing Capability
- Main Products
- Marketing & services
BOMCO provided drilling equipments to all the Chinese Oilfield and drilling contractors, almost 70% drilling rigs under operation in China were manufactured by BOMCO. BOMCO has set up services station in all these oilfield for close service.
BOMCO rigs also spread around all the corner of the world and more than 500 rigs operation worldwide.
**Overseas Sales Record of BOMCO Rigs (Since 2001)**

BOMCO produced 951 rigs from 1998 and 532 of them under operation worldwide.

<table>
<thead>
<tr>
<th>Item</th>
<th>Rig Model</th>
<th>Qty.</th>
<th>Main Customer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3000HP Rig</td>
<td>6</td>
<td>US, Venezuela</td>
</tr>
<tr>
<td>2</td>
<td>2500HP Rig</td>
<td>1</td>
<td>Pakistan</td>
</tr>
<tr>
<td>3</td>
<td>2000HP Rig</td>
<td>115</td>
<td>US, Oman, Venezuela, Russia, Iran, Cuba, Turkmenistan, Burma, Egypt, Libya, Congo, Syria, UAE, Kenya</td>
</tr>
<tr>
<td>4</td>
<td>1500HP Rig</td>
<td>50</td>
<td>US, Venezuela, Kazakhstan, Uzbekistan, Algeria, UAE</td>
</tr>
<tr>
<td>5</td>
<td>1000HP Rig</td>
<td>32</td>
<td>Ukraine, Venezuela, Russia</td>
</tr>
<tr>
<td>6</td>
<td>750HP Rig</td>
<td>3</td>
<td>Venezuela, Brazil</td>
</tr>
<tr>
<td></td>
<td>Total:</td>
<td>207</td>
<td></td>
</tr>
</tbody>
</table>
4-LEVEL SERVICE SYSTEM
◆ Training (Workshop + On-site)
◆ Warranty Support & Daily Maintenance
◆ Inspection
◆ Repair / Overhaul / Upgrade / Remanufacturing
## BOMCO In Middle East

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Quantity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rig under operation</td>
<td>200+</td>
<td>Kuwait: 36</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Saudi Arabic: 51</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Iraq: 21</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UAE: 43</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Iran: 20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oman: 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Yemen: 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Egypt: 8</td>
</tr>
<tr>
<td>2</td>
<td>Jack-up</td>
<td>2 set</td>
<td>Iran, Persia Gulf</td>
</tr>
<tr>
<td>3</td>
<td>Resources</td>
<td></td>
<td>● Located in Abu Dhabi, with 8 people for</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>management and a group of 80 people for</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>services; ● 2 spare parts warehouse</td>
</tr>
<tr>
<td></td>
<td>BOMCO Abu Dhabi Branch</td>
<td></td>
<td>BOMCO Bahrain office with 2 people and 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>warehouse</td>
</tr>
<tr>
<td></td>
<td>BOMCO in Kuwait</td>
<td></td>
<td>Workshop/facilities/service station</td>
</tr>
</tbody>
</table>
◆ **Spare parts & Fast moving parts:** 2 warehouses, one of which is located in Mussafa and the other one in the rig camp for daily service.

◆ **Technicians:** 10 technicians, 2 shifts stay in NDC base camp for daily service.

◆ **Local Facilities:** utilize the workshops and facilities of our sponsor for repair, MM and upgrade.
BOMCO in Kuwait

◆ **Spare parts & Fast moving parts:** keep parts in stock in partner’s warehouse.

◆ **Technicians:** mobilize from UAE

◆ **Local Facilities:** utilize the workshops and facilities of our partner for repair, MM and upgrade.
BOMCO In Oman—what we can do for Abraj
◆ Drilling equipment supply/rental
◆ Spare parts & Fast moving parts in stock
◆ Technicians for daily support
◆ Local Facilities for Repair /Overhaul /Upgrade & recertification
◆ localization