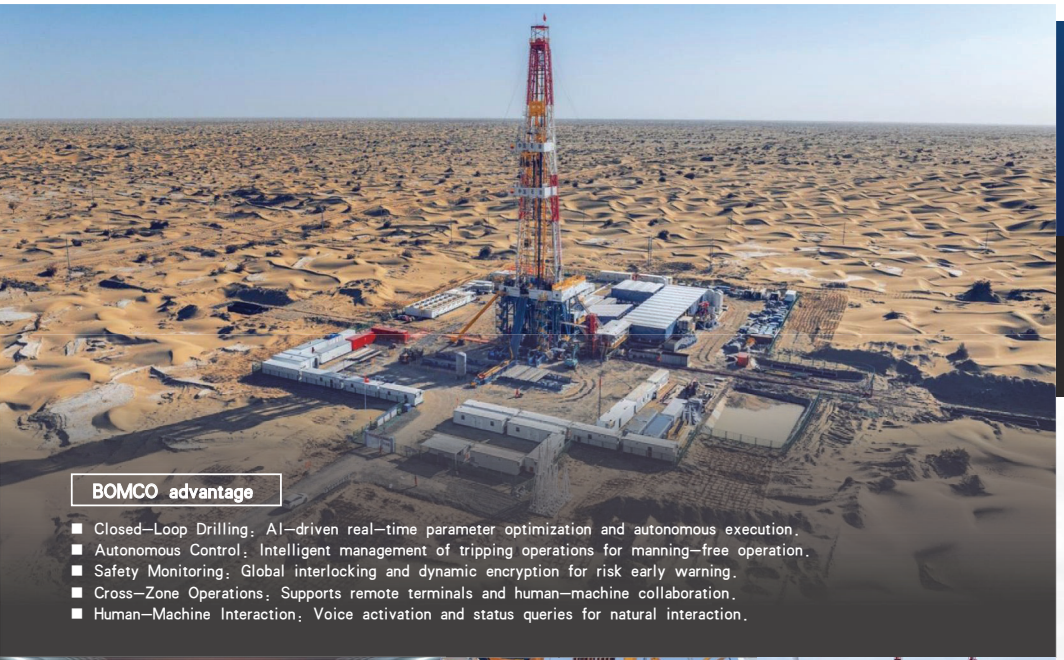
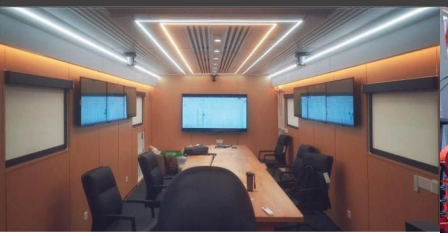
Intelligent
Drilling Rig

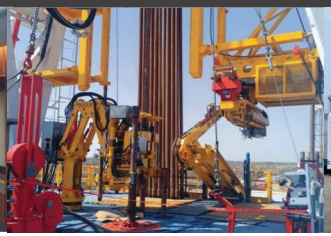
- Automated Operation: Robotic systems with intelligent perception and trajectory planning, fully replacing manual labor.
- Integrated Platform: iROS system integrates AI models and equipment control.
- Visualized Process: Real-time drilling fluid monitoring with automated dosing and mixing.
- Smart Energy: Hybrid energy storage, potential energy recovery, and intelligent allocation for energy savings.
- Digital Maintenance: Equipment health assessment with remote monitoring and support.



BOMCO advantage

- Closed-Loop Drilling: AI-driven real-time parameter optimization and autonomous execution.
- Autonomous Control: Intelligent management of tripping operations for manning-free operation.
- Safety Monitoring: Global interlocking and dynamic encryption for risk early warning.
- Cross-Zone Operations: Supports remote terminals and human-machine collaboration.
- Human-Machine Interaction: Voice activation and status queries for natural interaction.







Drilling Depth Capacity (m)	3000～15000
Mud Pump Working Pressure (MPa)	35～70
Applicable Drill Pipe Range (in)	$2\frac{7}{8}$～24
Tripping Efficiency (Triple Stands, m/h)	⩾ 800

BAOJI BOMCO OILFIELD MACHINERY

Drilling RIG

- Fast-Moving Drilling Rig
- Automated Drilling Rig
- Intelligent Drilling Rig

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Fast—Moving
Drilling Rig

- Fast Moving: Relocation efficiency increased by approximately 50%.
- Modular Design: Rig Move time reduced by about 40%.
- Remote Raising/Lowering: Ensures intrinsic safety.
- Hydraulic Lifting: Positioning time shortened by ~60%.
- Integrated Control: Reduces operational complexity and errors.

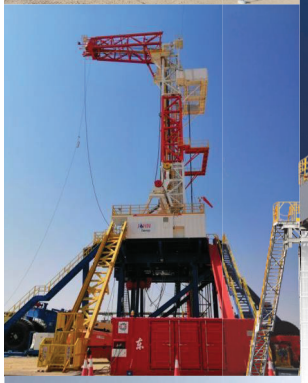
BOMCO advantage

- Ultra—Fast Moving: Achieves 16km wellsite relocation in just 8 hours.
- Heavy—Load Transport: Maximum moving unit capacity exceeds 1,200 tons.
- Flexible Configuration: Wheeled, skidding, and walking modes for multi—scenario rig relocation.
- Smart Power: Saves over 10% in full—well—cycle fuel consumption.
- Low—Carbon Emission: Reduces carbon emissions by 1,000+ tons annually.

Rig Series	1000 hp	1500 hp	2000 hp	3000 hp
Max. Hook Load (kN)	2250	3150	4500	6750
Moving Type	Semi—trailer, Full—trailer	Semi—trailer, Full—trailer	Full—trailer	Full—trailer











Automated
Drilling Rig

- Full—Range Compatibility: Covers 3,000—15,000 meters, with 200+ units deployed worldwide.
- Full—Process Automation: Automated pipe handling, racking and stand building operations.
- Integrated Control: Unifies electrical, hydraulic and pneumatic systems in centralized control.
- Smart O&M: Enables remote monitoring, predictive maintenance and fault diagnosis.
- Zone Safety: Equipment collision avoidance ensures personnel and device protection.
- Fast Moving: Step and rail moving systems support cluster well applications.
- Smart Energy Storage: Reduces energy consumption by over 10%.







BOMCO advantage

- Crew Optimization: Automated pipe handling cuts 2—4 workers per shift, lowering risks.
- Remote Monitoring: Real—time parameter tracking with remote diagnostics and support.
- Electric Drive: Precision electric control for reliable, eco—friendly operation.
- Standard Interfaces: Third—party compatible for rapid deployment.
- Integrated Operation: Multi—equipment coordination boosts operational efficiency.
- High Efficiency: Process optimization improves overall efficiency by 25%+.

Rated Drilling Depth (m)	3000	4000	5000	7000	8000	9000	12000
Max. Hook Load (kN)	1800	2250	3150	4500	5850	6750	10000
Substructure Clearence Height(m)	6	7.5	9/10.5	10.5/12		12/13.76	15
Max. Mud System Pressure (MPa)			35/52				70
Pipe Handling Range (in)	$2-7/8 \sim 13-3/8$			$2-7/8 \sim 24$			

Pipe Handling Equipment

Pipe Racking System

- Unmanned Operation: Enables fully automated pipe handling on the monkeyboard, completely eliminating the risks of high-altitude work.
- Efficient & Precise: One-Touch automatic stand racking improves operational efficiency by over 50%.

BOMCO advantage

- Servo Drive: Utilizes servo motors for the main drive, achieving control accuracy of ±1mm and noise levels below 70dB.
- Broad Compatibility: Optimized for small-diameter drill pipes, unaffected by pipe bending.
- Rapid Deployment: Quick integration with the driller's cabin, reducing retrofit time by 60%.
- Intelligent Racking: Automated stand gripping, pushing, and racking with one-Touch control for high efficiency.

Gripping Tool Range	2-7/8 " DP ~6-5/8 " DP
Supporting Tool Range	2-7/8 " DP ~11 " DC
Max. Gripping Load	30 kN



BAOJI BOMCO OILFIELD MACHINERY

Pipe Handling Equipment



Drill Floor Manipulator

- One-Touch Racking: Remote control enables automatic, precise stand racking, eliminating manual pushing and positioning.
- Intrinsically Safe: Significantly reduces manual labor intensity and improves drill floor safety.

BOMCO advantage

- Servo Drive: High-precision control, energy-efficient, and environmentally friendly.
- Efficient Coordination:: One-touch stand lifting, pushing, and racking; synchronizes with the Iron Roughneck for simultaneous wellhead operations.
- Flexible Design: Self-adaptive floating tong head fully retracts from the stand path when not in use.

Applicable Pipe & Tool Range	2 7/8 " DP~11 " DC
Gripping Pipe & Tool Range	3 1/2 " DP~6 5/8 " DP
Max. Lifting Capacity	30kN

- Power Catwalk
- Pipe Yard Hoisting System
- Iron Roughneck
- Pipe Racking System
- Drill Floor Manipulator

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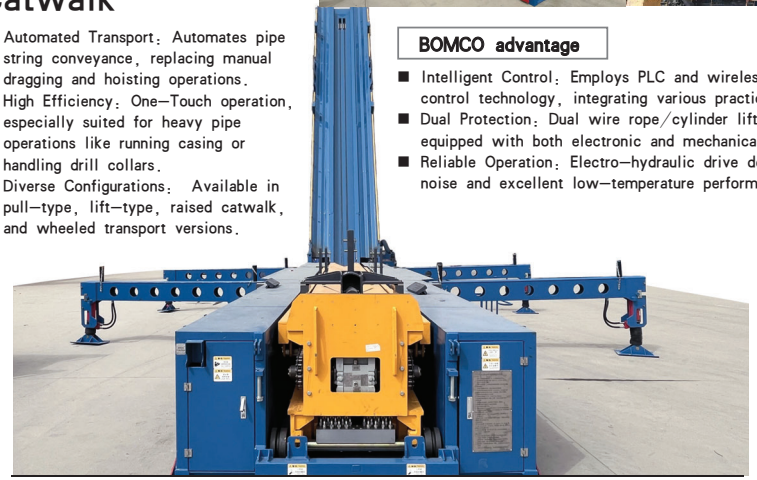
Power Catwalk



- Automated Transport: Automates pipe string conveyance, replacing manual dragging and hoisting operations.
- High Efficiency: One—Touch operation, especially suited for heavy pipe operations like running casing or handling drill collars.
- Diverse Configurations: Available in pull—type, lift—type, raised catwalk, and wheeled transport versions.

BOMCO advantage

- Intelligent Control: Employs PLC and wireless remote control technology, integrating various practical functions.
- Dual Protection: Dual wire rope/cylinder lifting system equipped with both electronic and mechanical limit switches.
- Reliable Operation: Electro—hydraulic drive design offers low noise and excellent low—temperature performance.



Feed Height Range	5 m～15 m
Max. Conveyable Pipe Length	15 m/19 m
Max. Conveyable Pipe Weight	45 kN /73 kN
Max. Conveyable Pipe Diameter	24 ″ DC

Pipe Yard Hoisting System

- All—Electric Design: Utilizes overhead cranes and electric permanent magnet lifters for automated bi—directional pipe transport.
- High Efficiency: Suitable for hoisting various pipe strings, including drill pipes, drill collars, and casing.

BOMCO advantage

- Power—Off Protection: Electric permanent magnet technology ensures pipe security (no dropping) during power loss.
- Space Saving: Supports high—density storage of up to 6 layers of 5½—inch drill pipes, maximizing yard utilization.
- Stable Operation: Non—rolling transport combined with remote control ensures smooth and controllable movement.



Max. Hoisting Pipe Weight	45 kN
Max. Hoisting Pipe Length	12 m/14 m
Max. Hoisting Pipe Diameter	24 ″ DC

Iron Roughneck



- Automated Makeup/Breakout: Hydraulically driven with PLC control for automatic tool joint makeup and breakout.
- Safety Protection: Features remote one—Touch control and integrated mud splash prevention, significantly enhancing operational safety.

BOMCO advantage

- Integrated Functions: Can be equipped with auxiliary centering and mud splash prevention functions.
- Smart Recognition: Utilizes AI machine vision for automatic tool joint identification.
- High Efficiency: 60° spinning capability, with an operational cycle time of ⩽ 35 seconds.



Applicable Pipe Range	2 7/8″ DP～11″ DC
Max. Makeup Torque	135000 N·m
Max. Breakout Torque	160000 N·m
Max. Spinning Torque	5500 N·m

