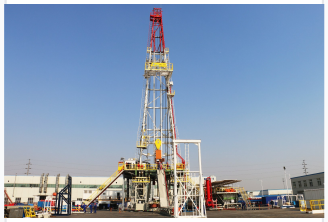
Land-Based Drilling Rig

Land-based drilling rigs are engineered for oil and gas exploration and production. These rigs feature a tall derrick structure for hoisting and lowering drilling equipment.

ADDITIONAL IMAGES



Overview

Comprehensive Land-Based Drilling Solutions

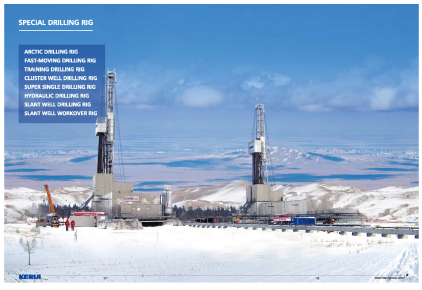
These land-based drilling rigs are engineered for high-efficiency oil and gas exploration, offering a versatile range of configurations including conventional, special-purpose, and truck-mounted units. Designed to operate in extreme environments from arid deserts to arctic conditions (-45°C to +55°C), the systems prioritize modularity for rapid deployment and compact footprints. With integrated automation and sound-insulated components, these rigs enhance operational safety while minimizing environmental impact for professional B2B energy projects.

Core Performance

Drilling Capabilities

9000 m	6750 kN	3000 HP
Max Drilling Depth	Max Static Hook Load	Max Drawworks Power

Rig Types

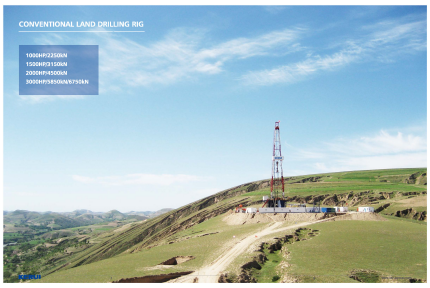


Specialized configurations including Arctic, Fast-Moving, and Hydraulic rigs designed for specific geological and environmental challenges.

Highly mobile truck-mounted rigs suitable for rapid deployment and workover operations in remote areas.

Specialized Rig Configurations	Arctic Drilling Rig, Fast-Moving Drilling Rig, Cluster Well Drilling Rig, Super Single Drilling Rig, Hydraulic Drilling Rig, Slant Well Drilling Rig, Training/Teaching Rig

Technical Specifications



A range of conventional land rigs offering power ratings from 1000HP to 3000HP for diverse exploration needs.

Conventional Rig Series Comparison

Model Class	Max Hook Load (kN)	Max DP Load (kN)	Input Power (HP)
ZJ40 Series	2250	1200	1000
ZJ50 Series	3150	1600	1500
ZJ70 Series	4500	2200	2000
ZJ90 Series	6750	2900	3000

Environmental Adaptation

Environmental & Safety Features

- Sound-insulated generator rooms for noise reduction
- Zero discharge disposal systems for oil-based and water-based mud
- Heat-resistant components for desert operations
- Air cooling systems for high-temperature regions
- Modular design to minimize wellsite footprint

Operating Temperature Range	-45°C to +55°C

Hoisting & Rotation

Drawworks Drive Options

Mechanical Drive • DC Electric Drive • AC VFD Drive

Rotary Table Opening Diameter	17-1/2" to 49-1/2"

Auxiliary Equipment

Comprehensive suite of auxiliary equipment including masts, substructures, mud pumps, and automation tools.

Included Main Components

- K-Type or Mast Structure
- Swing-up or Box-on-Box Substructure
- F-Series or 3NB Series Mud Pumps
- Top Drive System
- Iron Roughneck
- Power Catwalk (Skid or Trailer Mounted)

Automation & Control

Automation Technologies

- PLC-based integrated control
- Industrial bus communication for monitoring
- Wireless remote control for power catwalks
- One-to-one AC motor control via VFD
- Automated pipe handling and racking systems

Compliance

Design Standards	API 7K, API 8C, API RP13C, IEC, HSE