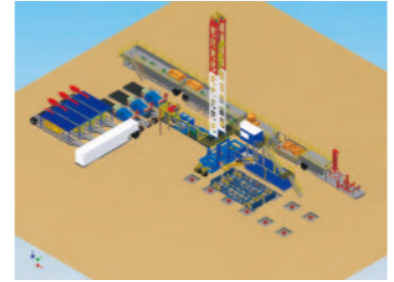
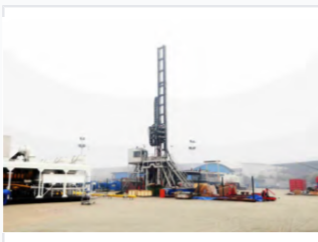


# Mobile Single Series Drilling Rig

These mobile drilling rigs are designed for operations such as coal-bed and shale gas extraction, workover operations, and inclined or slim-hole drilling. They feature a compact design, rapid installation, and a wide scope of application.



## ADDITIONAL IMAGES



## Overview

### Mobile Single Series Drilling Rig

The Mobile Single Series Drilling Rig is engineered for versatile and efficient operation across coal-bed gas, shale gas, and workover tasks. Designed for high automation and mobility, it features a compact footprint that minimizes setup time and transport costs while maximizing drilling performance. These rigs offer advanced hydraulic control systems and robust derrick configurations to meet the demanding requirements of modern petroleum prospecting engineering.

## Key Features

### Performance Advantages

High Automation, Fast Installation, Compact Dimensions, Reduced Transport Modules, Broad Application Scope

## Hydraulic System Specs

Technical Parameters of Hydraulic Single Drilling Rig

| Description   |               | Main Technical Parameters     |
|---|---------------|-------------------------------|
| Max. Hook Load  | kN<br>lbs     | 900-1,700<br>202,330-382,180  |
| Effective Height of Derrick                                       | m<br>ft       | 23.3<br>76.4                  |
| Height of Floor   | m<br>ft       | 0-6<br>0-20                   |
| Application Scope of String for Iron Roughneck and Hydraulic Slip | mm<br>in      | φ 88.9-φ 270<br>φ 3.5-φ 10.63 |
| Max. Torque of Iron Roughneck                                     | N.m<br>ft.lb  | 100,000<br>73,822             |
| Max. Lifting Speed  | m/s<br>ft/min | 0.73<br>2,395                 |
| Journey of Lifting System (Top Drive)                             | m<br>ft       | 16<br>52.5                    |
| Max. Torque of Hydraulic Top Drive                                | N.m<br>ft.lb  | 35,000<br>25,838              |
| Rotate Speed of Hydraulic Top Drive                               | r/min         | 0-180                         |

Detailed technical overview of the hydraulic single drilling rig configuration.

### Maximum Hook Load

**1700 kN**

Max Hook Load

### Top Drive Parameters

| Parameter     | Value       |
|---------------|-------------|
| Max Torque    | 35,000 N.m  |
| Rotate Speed  | 0-180 r/min |
| Lifting Speed | 0.73 m/s    |

## DBS Technical Data

Technical Parameters of DBS Single Drilling Rig

| Description  |           | Main Technical Parameters |
|--|-----------|---------------------------|
| Max. Hook Load   | kN<br>lbs | 2,250<br>505,820          |
| Reeving of Travelling System                           |           | 4x5                       |
| Wire Rope Diameter                                     | mm<br>in  | 32<br>1.26                |
| Diameter of Rotary Table Opening                       | mm<br>in  | 698.5<br>27 1/2           |
| Form and Effective Height of Derrick                   | m<br>ft   | 24<br>78.74               |
| Height of Substructure and Clear Height of Rotary Beam | m<br>ft   | 6/4.8<br>20/15.75         |
| Driving Mode   | m<br>ft   | AC/DC/AC                  |

Primary specifications for the DBS series drilling rig.

### Maximum Hook Load

2250 kN

### Derrick Height

24 m

## ZJ40 Rack and Pinion Specs

Technical Parameters of ZJ40 Rack and Pinion Drilling Rig

| Description   |              | Main Technical Parameters          |
|---|--------------|------------------------------------|
| Max. Lifting and Pressing Ability                       | kN<br>lbs    | 2,250/360<br>505,820/809,312       |
| Max. Lifting Speed                                      | m/s<br>ft/s  | 1.06<br>3.48                       |
| Hydraulic Top Drive Max. Torque                         | N.m<br>ft.lb | 45,000<br>33,191                   |
| Rotating speed for hydraulic top drive                  | r/min        | 0-180                              |
| Range of Tilt Angle for The Derrick                     |              | 45°-90°<br>(Every 5° Per Position) |
| Substructure height & RT beam clearance height          | m<br>ft      | 6.5/5.3<br>21.3/17.4               |
| Hoisting System Travel (Top Drive System travel height) | m<br>ft      | 16<br>52.5                         |

Key performance metrics for the ZJ40 rack and pinion drilling system.

### Lifting and Pressing Ability

2,250/360 kN

### Top Drive Torque

45000 N.m