

MD-750 Coal Bed Methane Drilling Rig (Crawler CBM Drill Rig)**Description**

MD-750 CBM drill rig is a crawler type full hydraulic drilling rigs for coal bed methane drilling, with 3200m drill capacity. The MD-750 crawler coal bed methane drilling rig is a brand new multi-functional drilling rig with intellectual property right. It draws on our more than 40 years' experience of drilling rig R and D and manufacture. It is designed by combining the characteristics of our domestic coal bed methane drilling with the foreign advanced exploration idea and valuable experience. And the advices from its clients are received so that it is a coal bed methane drilling rig especially suitable for China's geological condition.

Compared with the counterpart abroad, the MD-750 crawler coal bed methane drilling rig has a compact and simple structure, an excellent performance and a good price/performance ratio. It is mainly used in the exploration of coal bed methane and shallow oil, the repair of oil well and the construction of geothermal well. It can be also applied to the civil engineering rescue, the ventilation and discharge of mine, the construction of drainage pipe. There is one thing worthy noticing that the drilling rig can work on the super-deep core drilling.

Feature

1. The main machine of the crawler CBM drill rig is driven by the hydraulic pressure with a crawler chassis. It can provide good cross-country performance and strong climbing capacity. This ensures that the crawler coal bed methane drilling rig can deal with complicated road conditions to move around the drill site. Beside, the operating cost of drilling rig is low.
2. The main machine of the crawler CBM drill rig is equipped with two diesel motors. They can work together or separately. Such motor installation improves considerably the safety of the drilling rig.

3. The triangle parallel motion mechanism of the derrick reinforces the mast's stability.
4. The mast jacking chain triple speed mechanism in the drill boom shortens the transportation length, thus increases the working stroke.
5. The unit head is tilt-structured with its tilt angle of 80°; and the floating spindle of the unit head can allow the drilling rig move 850mm horizontally. These make the breaking out of drilling rod easy.
6. The rotator of the coal bed methane drilling rig is powered by motors at low speed with strong torque. The rotator has a high efficiency. Its maximum torque is 34000N.m and the highest rotary speed can be 170r/min.
7. There is a specific pipe lining system, i.e. follow-up lining. This system keeps all the pipes in order without any intersecting.
8. The well head is under the remote control of hydraulic pressure. It also installs the breaking out device for the drilling rod.
9. The crane installed on the main machine makes the on-site operation convenient and also reduces the workers' labor intensity.
10. The separate control chamber provides a good working environment for the worker. coal bed methane drilling rig has the function of remote control.

Specification

Motor	Weichai WP12.375	276KW/2100rpm×2 PCS
Drilling Capacity of the Crawler CBM Drilling Rig	φ89mm×9m	3200 m
	φ114.3mm×9m	2200 m
	φ127mm×9m	1600 m
Unit head	Rotary Speed Range	Low Speed 0~85 rpm High Speed 0~170rpm
	Max. Rotary Torque	34000N.m (0~85rpm/h) 17000N.m (0~170rpm/h)
	Reverse Screwing off Torque of Spindle	42000 Nm
	Thru-hole Diameter of Spindle	φ75 mm
	Upturned Angle of Unit Head	0~80°
	Parallel Travel of Unit Head	850 mm
	Feeding Stroke	13.9 m
	Max. Lifting Force of Unit head	750 Kn

	Max. Lifting Speed of Unit head	30 m/min
	Max. Feeding Force of Unit head	170 Kn
	Max. Feeding Speed of Unit head	80 m/min
Capacity of Gas-measuring Winch	Lifting Force (single rope, empty drum)	12 Kn
	Wire Line Diameter	8 mm
	Wire Line Length	1500 m
	Max. Lifting Speed	0~280 m/min
Mast of Crawler CBM Drilling Rig	Adjustable Angle	0~90°
	Drilling Angle	45~90°
	Overall length with the upper mast stretched out	19.5m
Initial Hole Diameter of Wellhead	Max. Initial Hole Diameter	φ650 mm
Chassis of Crawler CBM Drilling Rig	Steel Crawler, Two-speed Motor, Walking Speed Reducer	High Speed 0~2.4 Km/h Low Speed 0~1.2 Km/h
Clamp Shackle (Selected Equipped)	Max. Screwing off Force	70000 Nm
	Max. Screwing on Force	35000 Nm
Random Crank (Selected Equipped)	Max. Lifting Force (single rope, empty drum)	30 Kn
	Wire Line Diameter	φ10 mm
	Rope Capacity	120 m
Mud Pump (Selected Equipped)	Flow Rate	0~600 L/min
	Working Pressure	0~10 MPa
Bubble Pump(Selected Equipped)	Flow Rate	0~1 L/min
Others of Crawler CBM Drilling Rig	Working Dimension	9500×3200×19500 mm
	Transport Dimension	13500×3200×3400 mm
	Overall Weight	55000 kg