

KL511 Hydraulic Drilling Rig

Application and Features

KL511 hydraulic drilling rig for open use is fitted with the standard drill rod whose diameter reaches 45/51mm, which is capable of drilling vertical, inclined and horizontal blast holes in the range of 76 - 127mm. It has a wide range of applications in cutting excavation, pipelining, foundation and open-pit mine drilling.

- The KL511 drilling rig is equipped with a heavy-duty hydraulic top hammer rock drill (23.4KW). With powerful rotary torque, shock power, adequate hole flushing and advanced control system, make it perfectly capable drilling in complex rock conditions.
- The frame of the drill rig is capable of rotating in the range of 0 - 180°. In this way, the drill rig can cover 26.5 square meters with one single positioning, which can considerably improve the efficiency of hole arrangement and its response to complex conditions.
- The drill rig is fitted with the efficient Kaishan screw air compressor. Characterized by energy conservation and environmental protection, it owns the complete proprietary intellectual property.
- The power unit is placed at the end of the upper rotary rack, symmetric with drill boom and advancing beam. It is capable of producing an effect of counterbalance, wherever the drill boom and advancing beam are placed.
- The travelling of drill rig, track leveling and the optional remote control of frame rotation can be operated outside the cab.

Technical Parameters

Dimensions and weight		Hydraulic rock drill		Drill boom, advancing beam and rod changer	
Transport dimensions (length*width*height)	11100*2520*3320mm	Model	HC170RP	Lifting of drill boom	83 °
Weight	15000kg	Impact power	23.4kW	Lifting of folding boom	87°
Articulated drill boom and chassis		Impact pressure	180bar	Swing angle of Beam	-56°/52°; -20°/94°
		Impact frequency	41Hz	Carriage inclination	125°
Ground clearance	420mm	Impact frequency	1590Nm	Compensation stroke	1353mm
Rack rotation	120° +60°	Maximum rotary pressure	200bar	Stroke of rock drill	4150mm
Drilling area	26.5m ²	Maximum rotary speed	130rpm	Maximum propelling force	19kN
Frequency modulation angle of track	10° up, 10° down	Shank lubrication	Air/oil mist	Feed Method	Motor-roller chain
Tramming speed	0-3.5km/h	Fuel consumption of lubrication	15drops/min	Depth of economical drilling	25m
Climbing capacity	30°	Drilling diameter	76 - 127mm	Number of rods	6+1
Traction	120kN	Power unit		Control system	
Engine	Cummins,260HP	Travelling	Hydraulic pilot + remote control (optional)	Hydraulic system	
Number of cylinders	6	Drill boom	Hydraulic direct control	Travelling, drilling	Load sensing
Output power	186 kW/ 2200 rpm	Rock drilling	Pilot control (electric/hydraulic)	Filter fineness	10 μ m
Drive type	Gearbox	Opening control	Stepless	Cooling capacity	Ambient temperature: +50°
Hydraulic pump	2×variable displacement piston pump+2×gear pump	Impact control	Control of shock pressure	Hydraulic oil tank	200L
Screw air compressor	Zhejiang Kaishan	Anti-jamming	Hydraulic	Cab	
Capacity of air compressor	9.7m ³ /min	Voltage	24V, DC	Safety cab	Meet the requirements of FOPS and ROPS
Air pressure	10bar	Dust-collecting system		Seat	Adjustable
Fuel tank	350L	Capacity of dust collector and vacuum degree	23m ³ /min; 1000mm water column	Indoor noise level	Below 85dB(A)
Cab		Filter element/material	13/fiber	Control function	Drilling, travelling, movement of drill boom and rod changer
Safety cab		Filtering area	10m ²	Entertainment	Radio+MP3
Indoor noise level		Power of hydraulic motor	12kW	Air-conditioning	Standard temperature
Control function					

