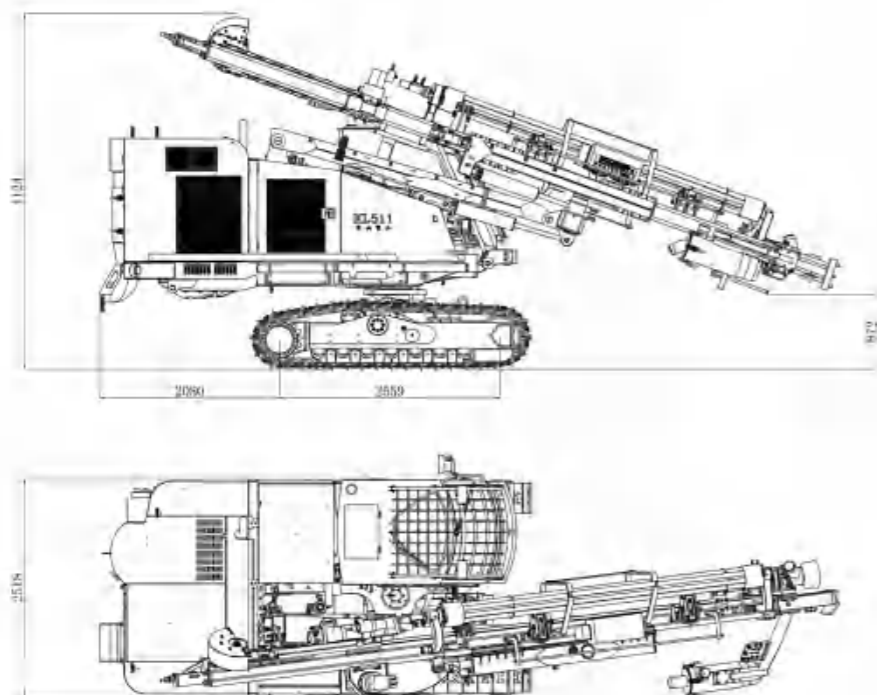
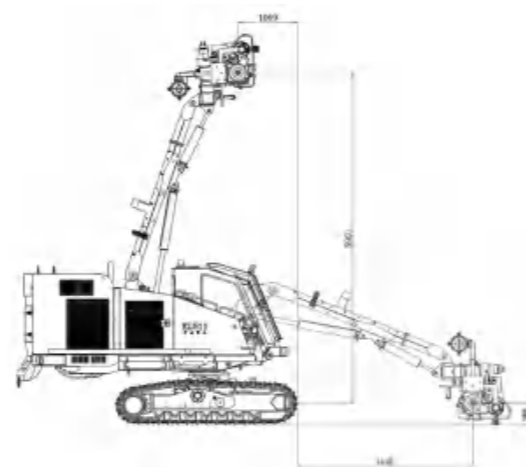
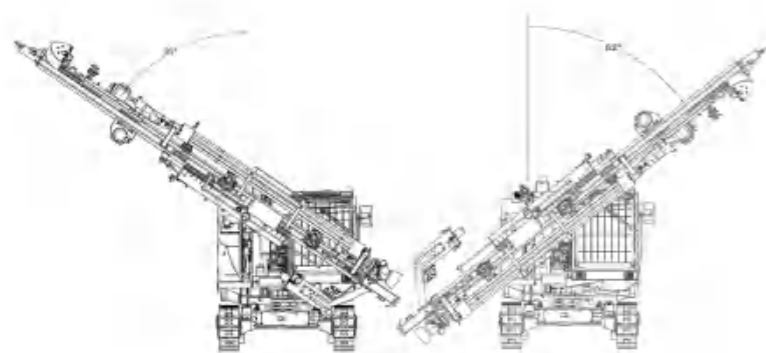


外形尺寸 / Outer dimensions



钻臂摆角 / Swing angle of drill boom

水平钻孔范围 / Horizontal drilling range



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## KL511型全液压露天钻车

KL511 Hydraulic Drilling Rig



品质开山 行业典范

# KL511型全液压露天钻车

## KL511 Hydraulic Drilling Rig

KL511型全液压露天钻车配备标准45/51毫米直径钎杆，可钻凿76-127mm的垂直、倾斜及水平炮孔。应用于路堑开挖，管道敷设和基础工程及露天矿山的钻孔作业。

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.

- KL511配备重型液压顶锤式凿岩机。凭借其强大的回转扭矩、冲击功率，匹配足够的洗孔能力和先进的控制系统，使其完全有能力在复杂岩层的工况条件下发挥其性能。

The KL511 drilling rig is equipped with a heavy-duty hydraulic top hammer rock drill. With powerful rotary torque, shock power, adequate hole flushing and advanced control system, make it perfectly capable drilling in complex rock conditions.

- 钻车车架具备0-180°的回转能力，使得钻车一次定位凿岩覆盖范围达26.5平方米，极大的提高了钻车排布孔效率及应对复杂工况能力。

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.

- 钻车采用高效的开山牌螺杆空气压缩机，节能环保，具备完全自主知识产权。

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.



外形尺寸与重量 / Dimensions and weight		液压凿岩机 / Hydraulic rock drill		钻臂、推进梁及换杆器 / Drill boom, advancing beam and rod changer	
运输尺寸 (长*宽*高) / Transport dimensions (length*width*height)	11100*2520*3320 mm	型号 / Model	HC150 / HC160	钻臂举升 / Lifting of drill boom	83°
重量 / Weight	17500 kg	冲击功率 / Impact power	21 kw / 27 kw	折叠臂举升 / Lifting of folding boom	87°
<b>铰接钻臂及底盘 / Articulated drill boom and chassis</b>		冲击压力 / Impact pressure	130-140bar/160-200bar	滑架摆角 / Swing angle of Beam	-56°/52°; -20°/94°
离地间隙 / Ground clearance	420 mm	冲击频率 / Impact frequency	38-41Hz/38-45 Hz	滑架倾斜 / Carriage inclination	125°
机架回转 / Rack rotation	120°+60°	最大扭矩 / Impact frequency	994 Nm / 1612 Nm	补偿行程 / Compensation stroke	1353 mm
钻孔覆盖面积 / Drilling area	26.5 m <sup>2</sup>	最大回转压力 / Maximum rotary pressure	140 bar/225 bar	凿岩机行程 / Stroke of rock drill	4150 mm
履带调平角度 / Frequency modulation angle of track	10°up, 10°down	最大回转速度 / Maximum rotary speed	129 rpm / 130 rpm	最大推进力 / Maximum propelling force	19 kN
行驶速度 / Tramming speed	0-3.5 km/h	钎尾润滑 / Shank lubrication	空气 / 油雾 / Air/oil mist	推进方式 / Feed Method	马达-滚子链 / Motor-roller chain
爬坡能力 / Climbing capacity	30°	润滑油消耗量 / Fuel consumption of lubrication	15滴/min / 15drops/min	经济钻孔深度 / Depth of economical drilling	25 m
牵引力 / Traction	120 kN	钻孔直径 / Drilling diameter	64-115mm / 76-127mm	容杆数量 / Number of rods	6+1
<b>动力单元 / Power unit</b>		<b>控制系统 / Control system</b>		<b>液压系统 / Hydraulic system</b>	
发动机 / Engine	cumminsQSC8.3-C260-30	行驶 / Travelling	液压先导+无线遥控 (选配) / Hydraulic pilot + remote control (optional)	钻杆型号 / Specification of drill rod	T45/T51×3660
输出功率 / Output power	194 kW/ 2200 rpm	钻臂 / Drill boom	液压直控 / Hydraulic direct control	钻杆螺纹润滑 / Thread lubrication of drill rod	标准 / Standard
液压泵 / Hydraulic pump	2x变量柱塞泵+2x齿轮泵 / 2xvariable displacement piston pump+2xgear pump	凿岩 / Rock drilling	先导控制(电/液) / Pilot control (electric/hydraulic)	<b>液压系统 / Hydraulic system</b>	
螺杆式空压机 / Screw air compressor	浙江开山 / Zhejiang Kaishan	开孔控制 / Opening control	无级 / Stepless	行驶、凿岩 / Travelling, drilling	负载传感式 / Load sensing
风量 / Capacity of air compressor	9.7 m <sup>3</sup> /min	冲击控制 / Impact control	冲击压力控制 / Control of shock pressure	过滤精度 / Filter fineness	10 μm
风压 / Air pressure	10 bar	防卡 / Anti-jamming	液压 / Hydraulic	冷却能力 / Cooling capacity	+ 50°环境温度 / Ambient temperature: +50°
燃油箱 / Fuel tank	350 L	电压 / Voltage	24V, 直流 / 24V, DC	液压油箱 / Hydraulic oil tank	200 L
<b>集尘系统 / Dust-collecting system</b>		<b>驾驶室 / Cab</b>			
集尘器能力及真空度 / Capacity of dust collector and vacuum degree	23 m <sup>3</sup> /min; 1000mm水柱 / 23 m <sup>3</sup> /min; 1000mm water column	安全驾驶室 / Safety cab	符合防落石&防滚翻标准 / Meet the requirements of FOPS and ROPS	座椅 / Seat	可调 / Adjustable
滤芯 / 材料 / Filter element/material	13个/纤维 / 13/fiber	室内噪声水平 / Indoor noise level	低于85dB(A) / Below 85dB(A)	空调 / Air-conditioning	标准冷暖 / Standard temperature
过滤面积 / Filtering area	10 m <sup>2</sup>	控制功能 / Control function	钻孔、行驶、钻臂动作和换杆器 / Drilling, travelling, movement of drill boom and rod changer	娱乐 / Entertainment	收音机+MP3 / Radio+MP3
液压马达功率 / Power of hydraulic motor	12 kW				

- 钻车动力单元横置于上层回转机架的尾端与钻臂和推进梁相对称，无论钻臂和推进梁位于任何方向都起到相互平衡的作用。

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.

- 钻车的行驶、履带调平和车架回转可选配无线遥控功能在驾驶室外面进行操作。

The travelling of drill rig, track leveling and the optional remote control of frame rotation can be operated outside the cab.