

FR280X

旋挖钻机 Rotary Drilling Rig

性能特点

采用旋挖钻机专用液压伸缩式履带底盘,满足超强的稳定性和运输的便捷性。采用进口康明斯涡轮增压发动机(欧Ⅲ排放阶段),动力强劲,足够的动力储备满足高原施工,噪音、排放达到国家标准。恒功率最佳动力输出,使整机处于最佳工作状态。

液压系统采用负荷传感技术,使液压系统效率更高,更节能。

拥有专利的平行四边形铰接机构实现了较大范围的工作区域,钻桅设计为高强度材质的箱形结构,较高的刚性与抗扭曲性,有效地保证了钻孔精度,各铰接均采用免润滑轴承,转动灵活自如。360°上车回转任意角度排渣。

具有自主知识产权的智能控制系统, CAN总线和PLC控制系统的应用,包括钻桅垂直度自动/手动调整、深度自动检测显示、回转角度自动显示、智能故障诊断控制等。

采用单排绳主卷扬,有效解决钢丝绳磨损问题,提高钢丝绳使用寿命。

安装了观察主卷的红外摄像头,在驾驶室就能昼夜观察主卷钢丝绳使用情况。

标配集中润滑系统,维护保养更便捷。

整机通过德国莱茵公司欧盟CE认证。

Performance Characteristics

The special hydraulic chassis for the rotating drill with extensible crawler is provided with the excellent stability and is convenient to transport. The imported Cummins turbo-supercharged engine (meeting EU-III standard) is powerful, and has sufficient power reserve, which can be operated in plateau. Its noise and emission meet the national standards. The constant power and the best output enable the complete machine to function at its best.

The load-sensing technique is used in the hydraulic system to make it more efficiently and save more energy.

The patented parallelogram articulation mechanism can work in a large area. The drill mast, which is designed in box structure and made of the materials with high strength, has good rigidity and anti-distortion, guaranteeing the drilling accuracy. The hinge is provided with the bearing exempt from lubrication, and can work freely. The slag can be discharged in any angle due to 360° lifting and revolving.

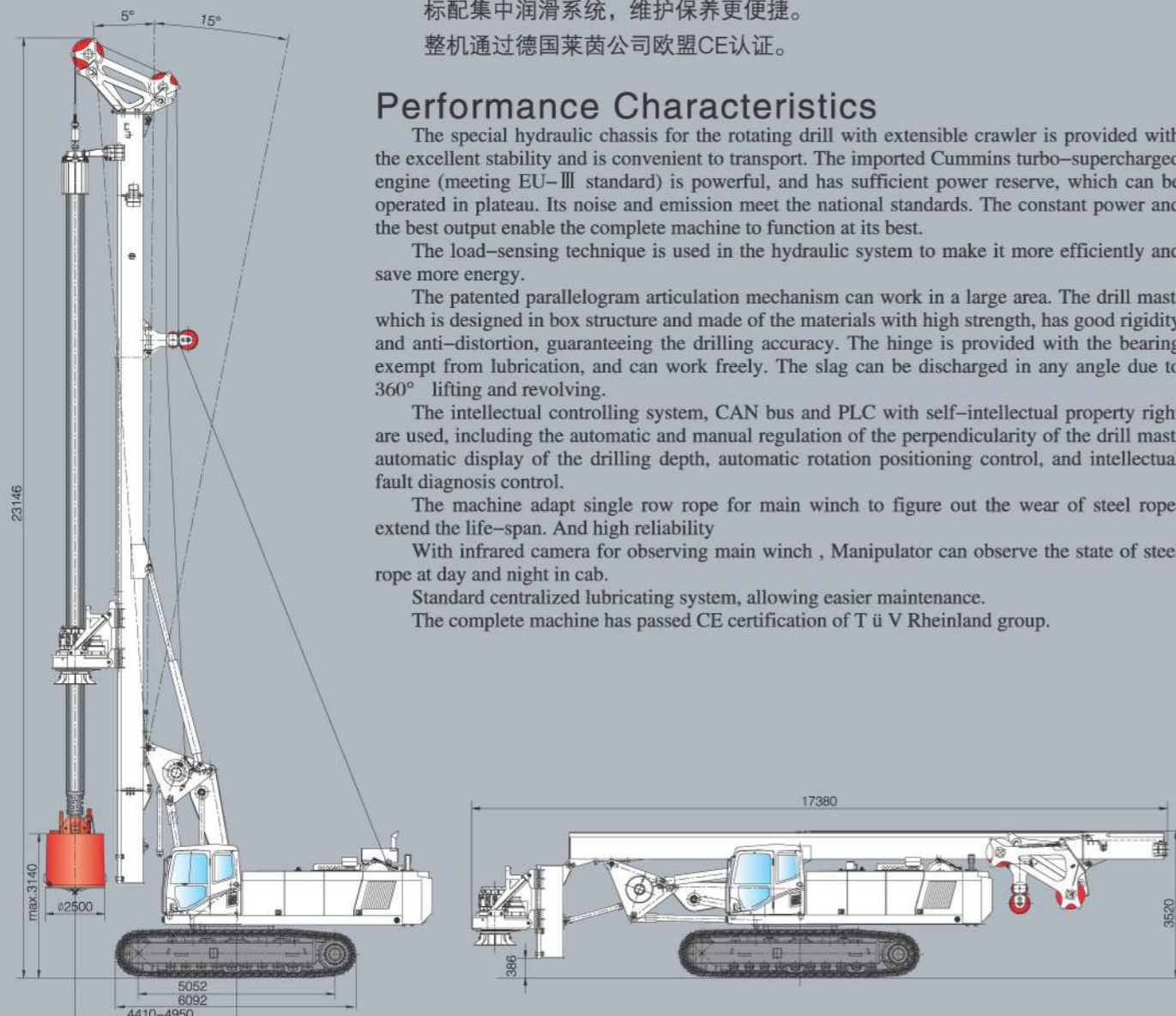
The intellectual controlling system, CAN bus and PLC with self-intellectual property right are used, including the automatic and manual regulation of the perpendicularity of the drill mast, automatic display of the drilling depth, automatic rotation positioning control, and intellectual fault diagnosis control.

The machine adapt single row rope for main winch to figure out the wear of steel rope, extend the life-span. And high reliability

With infrared camera for observing main winch, Manipulator can observe the state of steel rope at day and night in cab.

Standard centralized lubricating system, allowing easier maintenance.

The complete machine has passed CE certification of T ü V Rheinland group.



FR280X 旋挖钻机主要技术参数

Main Technical Data of FR Series Multi-functional Combined Rotary Drilling Rig

主要技术参数 Main Technical Specification			
发动机 Engine	型号 Model		CUMMINS QSM11-C400
	额定功率 Rated Power	kW	298
动力头 Rotary Drive	最大输出扭矩 Max. output torque	kN·m	280
	转速 Rotary speed	r/min	7~22
最大钻孔直径 Max. Drilling Diameter		mm	$\phi 2500/\phi 2200$ (卷扬加压)
最大钻孔深度 Max. Drilling Depth		m	88
加压油缸 Pull-Down Cylinder	最大压力 Max. pull-down piston push	kN	210
	最大提升力 Max. pull-down piston pull	kN	220
	最大行程 Max. pull-down piston stroke	m	16
加压卷扬 Crowd Winch	最大加压力 Max. pull-down piston push	kN	250
	最大提升力 Max. pull-down piston pull	kN	300
	最大行程 Max. pull-down piston stroke	m	16
主卷扬 Main Winch	最大提升力 Max. Pulling force	kN	260
	最大卷扬速度 Max. line speed	m/min	60
副卷扬 Auxiliary Winch	最大提升力 Max. Pulling force	kN	100
	最大卷扬速度 Max. line speed	m/min	65
钻桅倾度 Mast Rake 侧向 / 前倾 / 后倾 Side/forwards/backwards			$\pm 4^\circ / 5^\circ / 15^\circ$
底盘 Undercarrige	最大行走速度 Max. traveling speed	km/h	1.5
	最大爬坡度 Max. grade ability	%	35
	最小离地点间隙 Min. Clearance	mm	445
	履带板宽度 Track shoe width	mm	800
履带最大总宽 Distance between tracks		mm	3500~4800
液压系统 Hydraulic System	工作压力 Working pressure	Mpa	32
整机工作质量 Overall Drilling Weight		t	88
外形尺寸 Dimension	工作状态 Working condition	mm	10770 × 4800 × 23146
	运输状态 Transportation condition	mm	17380 × 3500 × 3520

