

XR280C 旋挖钻机 XR280C Rotary Drilling Rig

XR 系列
旋挖钻机
XR Series Rotary Drilling Rig

性能特点

XR280C装备CAT336D加长底盘，具有超强稳定性。底盘结构强度高，采用重型液压可伸缩式履带，便于运输，行走性能优越。采用(特制超大马力) C9 HHP 261KW@1800 RPM，EPA Tier III排放标准，满足欧洲、北美等国家排放要求。

油冷器和散热器并排置于中冷器后面，散热效果好，风扇由液压马达驱动，风扇速度由柱塞泵控制，风噪满足噪声控制要求。更加安静、环保。

主卷钢丝绳采用单层缠绕，操作方便自如，提高钢丝绳使用使命。

液压主系统采用负流量控制，在此基础上叠加了总功率控制与极限功率控制，提高了系统效率，充分的利用发动机功率。辅系统采用了负载敏感控制系统。实现泵输出功率与各工况负荷的最佳匹配，实现了流量的按需供应，把系统的传动效率提高到极致。

动力头由一加压或起拔液压油缸系统操纵，安装有钻进液压马达，顶部弹簧减震器，顶开旋挖斗的法兰。配备有适宜摩擦式及内锁式钻杆的驱动套，带轴承的钻杆导向架。

应用先进的智能控制技术、CANBUS技术和虚拟仪表技术，采用高可靠性的控制器和彩色液晶显示器，显示器中文人机界面操作简便，易于观察，可直接显示桅杆垂直度及孔位深度，并自动实时检测显示记录，作业过程故障自动记录，输入/输出信号的在线调试与诊断以及钻桅限位、变幅限位、主副卷扬限位、过滤器报警、维修保养提示等各种报警信息。

标配集中润滑系统，维护保养更便捷。

Performance Characteristics

The CAT 336D lengthen chassis, which has the characteristic of super stability, is fixed on the XR280C. The chassis with high strength adopts the hydraulic telescopic caterpillar which is convenient for transport and with super function of travel. Adopts the C9HHP 261Kw@1800 RPM, EPA Tire III engine, and meets the requirements of Europe and North America etc.

The oil cooler and the radiators are fixed side by side behind the mid cooler. The cooling effect is well. The fun is driven by hydraulic motor and the speed of the fun is controlled by plunger pump. The noise meets the requirement of noise control. It is much more quiet and protect environment.

The wire rope of the main winch is wind single layer. The operation is convenient and it has increases the service life.

The main hydraulic system adopts the negative flow control, and adopts the main power control and limit power control together which can increase the system efficiency and make the most of the engine power. The assistant system adopts the load sensitive control system. The power output can match the operating conditions well, that realize the flow can be supplied according to need and the efficiency of the driven system is increased to the highest point.

The rotary head is operated by a press or draw hydraulic cylinder. The drilling hydraulic motor, top spring absorber and the flange that used to open the bucket are all fixed on the rotary head. The drive case that fit to frictional or internal lock drill pipe and pilot bearing of drill pipe with bearing are equipped.

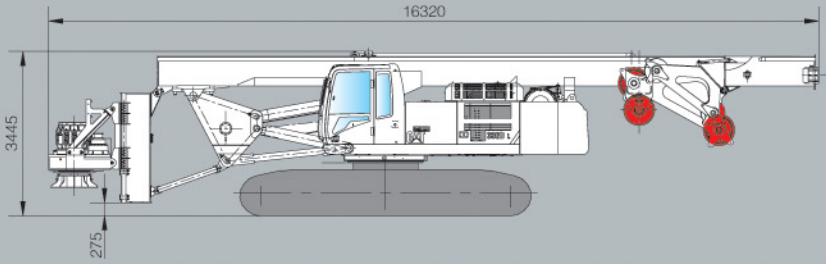
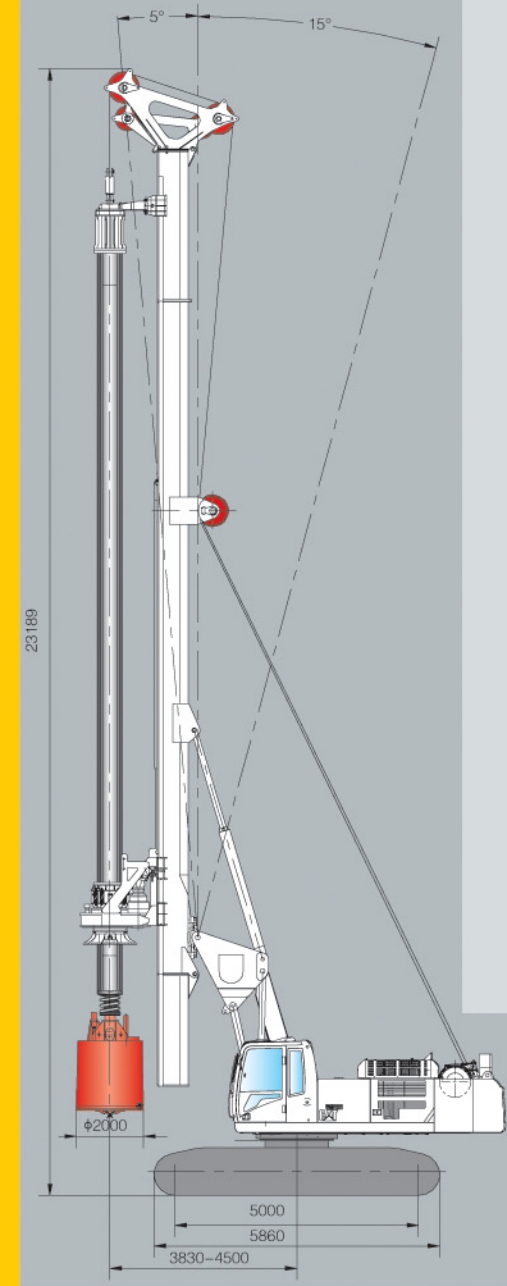
The intelligent control technique, CANBUS technique and the virtual technique are all applied on the machine. The machine adopts the controller with super reliability and the color liquid crystal display. The chinese man-machine interface in the display can be operated easily and easy for inspection. It can display the perpendicularity of the mast and the depth of the hole and it also can detect the display record, fault record, and the input/output signal of on-line debugging automatically. Also it can display all kinds of warning information such as the mast limit position, amplitude limit position and the main and the assistant winch limit position, the filter warning, and the prompt for the maintenance etc.

Standard centralized lubricating system, allowing easier maintenance.

XR280C 旋挖钻机主要技术参数

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

主要技术参数 Main Technical Specification			
发动机 Engine	型号 Model		CAT C9HHP
	额定功率 Rated Power	kW	261
	额定转速 Rotary speed	r/min	1800
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	φ 2000/ φ 2500(特配钻杆+拆小钻桅)
最大钻孔深度 Max. Drilling Depth	钻孔直径 φ 2000mm Drilling Diameter	m	88
	钻孔直径 φ 2500mm(特配) Drilling Diameter	m	特配64(摩阻5节)
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	6.0
主卷扬 Main Winch	最大提升力 Max. Pulling force	kN	270
	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	80
	最大卷扬速度 Max. line speed	m/min	65
钻桅倾度 侧向 / 前倾 / 后倾 Side/forwards/backwards Mast Rake			± 4° / 5° / 15°
底 盘 Undercarriage	最大行走速度 Max. traveling speed	km/h	2.1
	最大爬坡度 Max. grade ability	%	35
	最小离地点间隙 Min. Clearance	mm	395
	履带板宽度 Track shoe width	mm	800
	履带最大总宽 Distance between tracks	mm	3000 ~ 4300
液压系统 Hydraulic System	主泵压力 working pressure of the main pump	Mpa	35
	副泵压力 working pressure of the vice pump	Mpa	28
	先导压力 Pilot pressure	Mpa	4
整机工作质量 Overall Drilling Weight		t	76
外形尺寸 Dimension	工作状态 Working condition	mm	8735 × 4300 × 23189
	运输状态 Transportation condition	mm	16320 × 3000 × 3445



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