



XDY系列全液压岩心钻机

XDY SERIES ALL-HYDRAULIC CORE DRILL
XDY600P/XDY1000/XDY1500/XDY2000



徐工基础工程机械事业部

XCMG FOUNDATION CONSTRUCTION MACHINERY BUSINESS DIVISION

产品简介 Products Brief Introduction

XDY系列全液压岩心钻机是一种用于矿山的普查及勘探等要求取芯的钻孔施工设备，适应于金刚石绳索取心钻进等多种高效钻探施工工艺，采用液压驱动、模块化设计，具有操作简单、运输方便等优点，广泛应用于地质、有色、化工、煤田、核工业等矿产勘查施工。

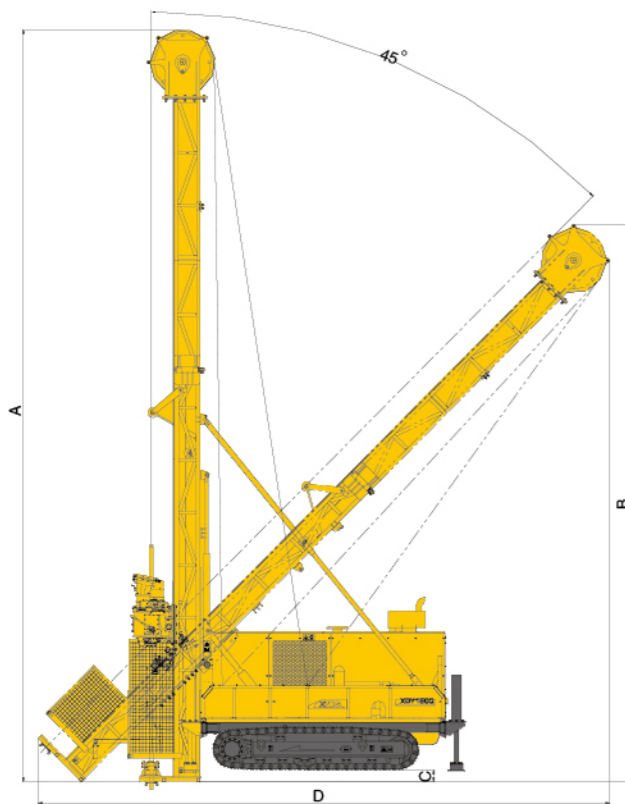
XDY Series All-hydraulic core drill are specially designed for the general investigation and exploration of minerals which need coring operation, and it is application to a great variety of high efficiency drilling process such as diamond rope sampling. These equipments are powered by hydraulic system ,and they have a lot of merits like easy operation and convenient transport .These equipment can be widely used in the exploring of mining, nonferrous, chemical industry, coal field and nuclear industry.

- 采用康明斯大功率发动机，功率充沛、动力强劲，可满足钻机在恶劣工况条件下的施工需求；
 - 液压系统采用负载敏感控制、电液比例控制等多项先进的控制技术，选用进口元件，系统稳定、质量可靠；
 - 主卷扬采用单排绳技术设计，可有效防止钢丝绳咬绳现象，极大的延长了钢丝绳使用寿命；
 - 动力头提升与给进采用油缸直推方式，运行平稳、性能稳定；
 - 动力头变速采用机电液联合控制的变速方式，在不同的档位均可实现无级调速，合理的扭矩-转速比更加适应各种地层的施工；
 - 自制钢履带底盘，采用线控行走，操作方便、安全；
 - 配置安全操作控制系统，有效防止各种误操作出现，提高施工安全；
 - 采用独立散热系统，节能环保，使液压系统在复杂环境下施工具有更强的适应性。
- The CUMMINS high-power engine is powerful and forceful which can satisfied the construction requirement in bad conditions.
 - These drills are adopted the advanced control technique include load sensitive control electeo-hydraulic proportion control ,and the usage of the import hydraulic parts can make the system work stably and ensure the quality.
 - The machine adapt single row rope for main winch to figure out the wear of steal rope ,and extend the life-span.
 - With the cylinder used for the pull-down of the rotary drive, the system works smoothly and steadily.
 - Electromechanical-hydraulic jointly control method is adapted for the rotary drive, stepless speed regulation. Reasonable torsion-speed rate can meet the construction of varying layer.
 - Electromechanical-hydraulic jointly control method is adapted for the rotary drive, stepless speed regulation. Reasonable torsion-speed rate can meet the construction of varying layer.
 - Adapting safe operation control system can avoid misoperation and make the manipulation more convenient and security.
 - Adapting independent energy conservation and environment protection oil cooler can make the hydraulic system more adaptive in complicated surroundings.

主要技术参数 Main Technical Specification

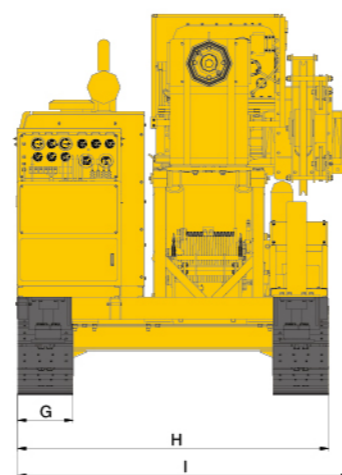
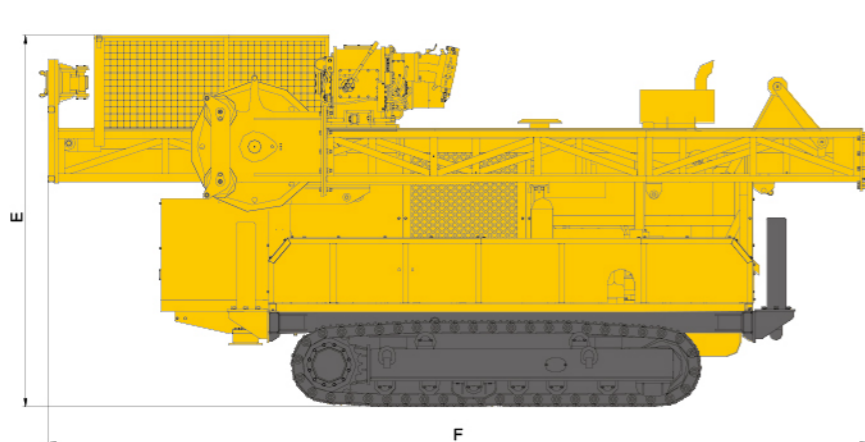
产品型号 Model		单位 Unit	XDY1000	XDY1500	XDY2000
钻进能力 Drilling Capacity	BQ (Φ55.6)	m	1000	1500	2000
	NQ (Φ71)	m	700	1300	1700
	HQ (Φ89)	m	500	1000	1300
	PQ (Φ114.3)	m	/	700	800
发动机 Engine	型号 Model	/	QSB5.9-C180	QSB5.9-C210	QSB8.3-C240
	额定功率 Rated power	kW	133	154	179
	额定转速 Rated RPM	r/min	2000	2000	2000
动力头 Rotator	最大扭矩 Max torque	Nm	4200	5200	5600
	最大转速 Max rotation,RPM	r/min	1200	1200	1200
	最大通孔直径 Max inside diameter	mm	Φ121	Φ121	Φ121
给进系统 Feeding system	最大起拔力 Max pull	kN	130	155	200
	最大给进力 Max push	kN	70	70	100
	钻进角度 Drilling angle	°	45~90	45~90	45~90
	给进行程 Dump length	mm	3500	3500	3500
	桅杆总高度 Mast length	m	11	11	13
主卷扬 Main hoist	最大提升力 Max pull	kN	68	80	152
	最大提升速度 Max pulling speed	m/min	60	46	45/55
	钢丝绳直径 Rope diameter	mm	Φ16	Φ18	Φ24
	钢丝绳长度 Rope length	m	35	35	37
绳索卷扬 Steel wire hoist	最大提升力 Max pull	kN	12	12	12
	最大提升速度(空线鼓) Max pulling speed(bare drum)	m/min	145	145	130
	最大提升速度(满线鼓) Max pulling speed(full drum)	m/min	450	450	420
	钢丝绳直径 Rope diameter	mm	Φ6	Φ6	Φ6
孔口夹持器 Foot clamp	适用钻杆 Drill rod	/	BQ、NQ、 HQ	BQ、NQ、 HQ、PQ	BQ、NQ、 HQ、PQ
	钢丝绳长度 Rope diameter	m	1000	1500	1700
行走系统 Travelling system	行驶速度 Travelling speed	km/h	2	2	2
	爬坡角度 Permissible gradient	°	30	30	30
泥浆泵 Mud	型号 Model	/	BWF-160	BWF-250Y	BWF-320
	额定流量 Rated flow rate	L/min	160	250	320
	额定压力 Rated pressure	MPa	10	8	8
总重量 Total weight		t	12	12.5	13.8

工作状态 Working condition



产品型号	XDY1000	XDY1500	XDY2000
A(mm)	10000	11050	11500
B(mm)	8000	8290	8500
C(mm)	150	170	200
D(mm)	8000	8460	9000
E(mm)	2500	2730	2770
F(mm)	5000	6100	6300
G(mm)	400	400	400
H(mm)	2250	2250	2250
I(mm)	2400	2410	2460

运输状态 Transportation condition



XDY600P技术特点 Performance Features

便携: 模块化、易拆装, 方便搬运, 单个模块最大重量不超过170kg。
 Portable: modularized, easy to move and install, the maximum weight for single part no more than 170kg.

高效: 最大单日进尺量150米, 平均日进尺量70米。
 Efficient: drilling 150m/d max and 70m/d averagely.

经济: 人工搬运, 不需修路, 避免破坏草场林地。
 Economy: manual handing, no temporary roads needed, not infringe meadow and woodland.

环保: 仅需4×4m超小平台, 对施工环境破坏小。
 Environmental: only need 4×4m little platform, do little damage to construction environment.



注: 徐工-凯瑞克最新产品

XDY600P主要技术参数 Main Technical Specification

钻探能力 Drilling Capacity	钻杆规格 Drill pipetype	钻孔直径 Drilling diameter	取芯直径 Coring diameter	钻探深度 Drilling depth
	HTW	φ 90mm	φ 70mm	200m
	NTW	φ 75mm	φ 57mm	350m
	BTW	φ 60mm	φ 42mm	600m

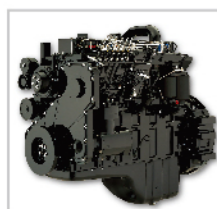
发动机 Engine	型号 Type	KUBOTA D1105T
	额定功率 Rated power	23.5kW×2
	额定转速 Rated RPM	3000r/min
动力头 Rotator	最大扭矩 Max torque	1084kN.m
	最高转速 Max rotation	1400r/min
	最大提升力 Max pull	50 kN
给进系统 Feeding system	最大进给力 Max push	30 kN
	桅杆高度 Mast length	2.5m
	给进行程 Dump length	1.78m
	钻进角度 Drilling angle	45-90°
绳索卷扬 Steel wire hoist	最大提升力 Max pull	7 kN
	最大提升速度 Max pulling speed	150m/min
	钢丝绳直径 Rope diameter	φ 5mm
	容绳量 Rope capacity	600m
孔口夹持器 Foot clamp	轴向推力 Axial thrust	60 kN
	夹持能力 Clamp capacity	BTW, NTW, HQ, HW

动力头 Rotator



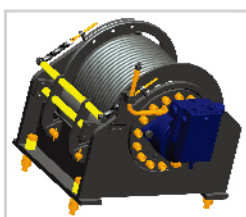
机械手动变速，无级调速，实现转速的精准控制；
强制润滑系统，使动力头在高速旋转下温升低；
常闭式液压卡盘，夹持可靠，卡瓦更换方便。
Mechanical manual transmission, infinitely variable speeds, accurate domination of speed;
Forced lubrication system make the temperature of rotary drive rise slowly.
Normally closed hydraulic chuck, reliable clamping, slips easy to replace.

发动机 Engine



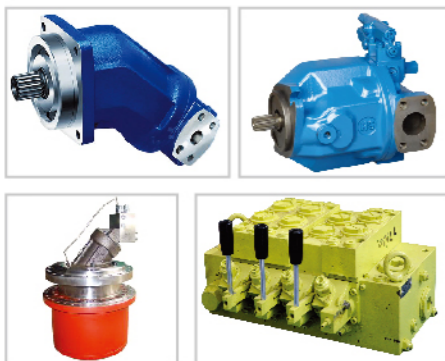
选用康明斯大功率发动机，动力强劲，功率储备大，维修方便；
The CUMMINS high-power engine is powerful and forceful and also convenient for maintenance.

主卷扬 Main Hoist



采用公司专有的卷扬单排绳设计技术，可有效防止钢丝绳咬绳现象，钢丝绳使用寿命延长一倍。
The machine adapt single row rope for main winch designed for our company only to figure out the wear of steal rope ,Wire rope service life is prolonged by 2 times.

液压系统 Hydraulic System



液压元件采用国际化配套，质量可靠，货源充足；
采用负载敏感控制，工作效率高、功率损失小。
采用独立散热系统，散热器可根据液压油温度自动工作与停止。

The major components in hydraulic system adopt the imported brand with

a stable, reliable system and sufficient supplies.

Load sensitive control ,high work efficiency and less power loss.

The radiator can work or stop automatically according to the temperature of the hydraulic with the usage of independent cooling system.

桅杆 Mast



折叠式桅杆，便于运输；
给进行程3500mm，可减少孔内事故的发生，实现连续钻进，取心效率高；
钻进角度可在45~90°范围内调整，实现斜、直孔钻进；
顶部采用大滑轮，曲率半径大，可有效减少钢丝绳磨损。
Folding mast is easy to transport;
The 3500mm feed stoke can reduce the accident in the hole, realize continuous

drilling, promoting coring efficiency.

The angle of drilling can be adjusted between 45~90° .These machines can make vertical and inclined drilling.

Super large pulley is used in the top of the drill tower, and it has big radius of curvature which can reduce the wearing of the rope.

电气系统 Electrical System



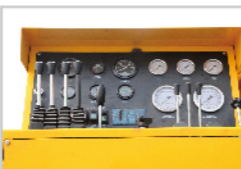
电气元件选用国际化配套，质量稳定；
安全操作控制系统，有效防止各种误操作出现，提高施工安全；
采用PLC控制，操作方便灵活，并能够自动检测各仪表的数据及报警。

Import electric component , quality stable.

Adapting safe operation control system can avoid misoperation and make the manipulation more convenient and security.

Used PLC control which made operation to be simple and flexible and can also check up all date and warming of instrument automatically

操作台 Operating Floor



人性化设计，布局合理，操作方便、美观大方。

Humanization design, reasonable layout, convenient operation, elegant appearance.

底盘 Under Carriage

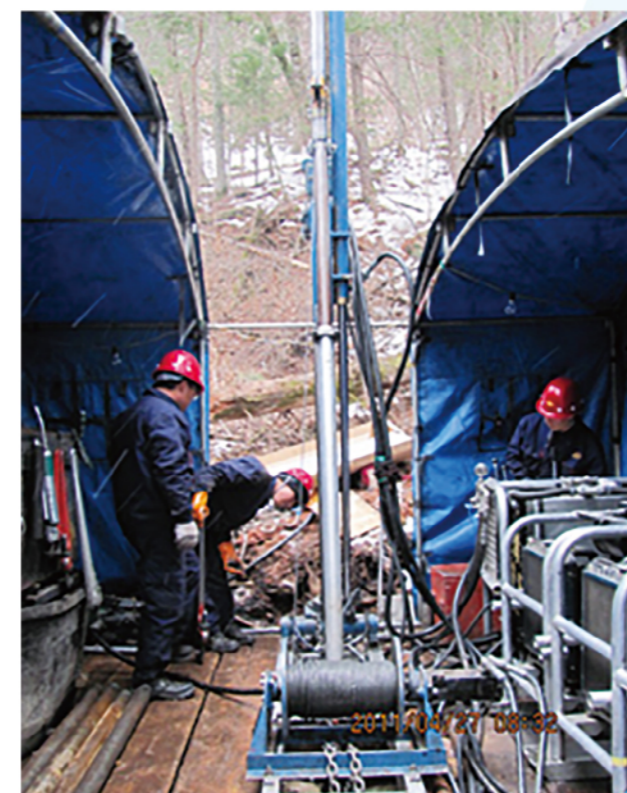


钢履带自制底盘，行走速度快，爬坡能力强；
采用线控行走控制，操作安全、可靠。

Steel apron wheel and home-made under-

carriage, speedy to move, high climbing capacity;

The moving of the machine is controlled by the line which can make the operation safe and stable.



XDY600P便携式岩心钻机在新疆施工
XDY600P Working site in Xinjiang



XDY1500全液压岩心钻机在大同施工
XDY1500 Working site in Datong



XDY600P便携式岩心钻机在内蒙古施工
XDY600P Working site in Neimenggu



XDY600P便携式岩心钻机在青海施工
XDY600P Working site in Qinghai

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