Advantage:

>> Full Hydraulic Transmission

>> Fast Rotation Speed

>> Wireline Diamond Core Drilling

>> High Pressure Mud Pump

>> 0- 500M Drilling Capacity

JCD400S

CRAWLER DIAMOND CORE DRILLING RIG

JCD400 履带式岩心钻机

INTRODUCTION 产品介绍

> JCD400S is a compact and fully hydraulic core drilling rig designed for efficient mineral exploration and geological coring projects. It is especially suitable for diamond drilling using wireline coring techniques such as HTW, NTW, and BTW.

> This rig is equipped with a powerful YUCHAI turbocharged diesel engine delivering 70kW at 2400 RPM, ensuring stable and strong power output. All drilling functions, including feed, rotation, lifting, and clamping, are hydraulically driven, which significantly improves operational efficiency and control precision.

> The rig features a ground-touching one-piece mast structure, capable of adjusting from 45° to 90°, enabling angled and vertical drilling. The 1900mm feeding stroke and 14-ton pull-up capacity ensure strong drilling adaptability in various geological conditions.

> JCD400S uses a manual & remote dual control system, offering flexibility and safety in operation. It can travel at a speed of 3.5 km/h and climb slopes up to 40°, making it ideal for rugged terrains.

> The integrated BW-100 mud pump delivers up to 100 L/min flow and 7 MPa pressure, ensuring efficient cuttings removal during drilling. A rope hoist with 600kg lifting capacity and 600m rope length supports auxiliary lifting tasks.

> With a transport dimension of 4200×2050×2300mm and a weight of 4.3 tons, the JCD400S is easy to transport and quick to deploy in the field.

> Robust in structure and simple to operate, the JCD400S provides a reliable, high-performance solution for medium-depth core drilling tasks.

>>CHARACTERISTICS 产品特点

> The full hydraulic system ensures reliable power transmission and smooth operation throughout the drilling process. Powered by a 70kW YUCHAI turbocharged engine, the rig delivers stable performance suitable for extended fieldwork.

> With its ground-touching mast supporting 45° – 90° drilling angles, JCD400S adapts easily to both vertical and inclined drilling requirements. The rig features dual control modes—manual and remote, offering flexible and safer operation in confined or challenging terrains.

> A 1900mm hydraulic feed stroke allows for efficient core sampling with fewer interruptions. The integrated BW-100 mud pump provides adjustable flow and pressure, making the rig suitable for clay, sand, and soft rock formations using slurry circulation.

>> Equipped with a 600kg rope hoist system, the rig simplifies lifting operations and reduces auxiliary time. Its strong mobility and 40° climbing capability, combined with a compact design, make it ideal for rugged and remote drilling sites.

Specification 技术参数

Specification	Unit	JCD400S
Drilling Capacity		
Drilling Diameter		HTW-NTW-BTW
Drill Depth	m	200-400-500
Hydraulic System		
Rated Pressure	MPA	20
Rated Flow	L/min	160
Heat Dissipation		Air Cooling
Engine		
Brand		YUCHAI
Type		Turbocharger
Rated Speed	RPM	2400
Rated Power	kW	70
Drilling System		
Torque	N.M.	350-700
Speed	RPM	1300
Tower Type		One-piece Ground-touching
Feeding Stroke	mm	1900
Drilling Angle	°	45-90
Max. Pull Up Capacity	Ton	14
Max. Push Down Capacity	Ton	7
Rope Hoist		
Lifting Capacity	kg	600
Speed	RPM	100-300
Wire Rope Diameter	mm	6
Rope Capacity	m	600
Walking System		
Operation Type		Manual & Remote Control
Walking Speed	KM/H	3.5
Climbing Angle	°	40
Mud Pump		
Model		BW-100
Flow	L/MIN	0-100
Pressure	MPA	0-7
Weight & Dimensions		
Transport Size	mm	4200* 2050* 2300
Weight	Ton	4.3

Main Structure 主要结构

具体参数变化以实物为准 The specific parameter changes are subject to the actual object.