



PD Series Integrated Rock Drilling and Splitting Machine

Solution for Non-Explosive Mining of Hard
Rock in Mines

Xiamen Prodrill Equipment Co., Ltd



PD-115 Integrated Rock Drilling and Splitting Machine (Top Hammer Version)

PRODUCT INTRODUCTION

The PD Integrated Rock Drilling and Splitting Machine is a Xuzhou High-Tech R&D Project, developed and undertaken by both our company and China University of Mining and Technology Institute of Mechanical Engineering. As a new product targeting the challenges of non-explosive mining for hard rock in mines, it is a new-type, highly integrated, high-efficiency, and environmentally friendly equipment. It can be widely used in open-pit mines, engineering construction, tunnel excavation, and other complex working conditions. The entire machine adopts wireless remote control operation and radio proportional valve control, making each operation action more stable, reliable, convenient, and efficient, thus serving as a wise choice for static blasting mining equipment!

Main Advantages:

- Compatible with excavators of 20 tons and above, realizing multi-function in one machine with a wide operating range and strong capability;
- Equipped with a high-power hydraulic rock drill for efficient rock drilling, featuring low energy consumption, low noise, and reduced operation costs;
- Wireless remote control ensures safety and reliability, with handle control for precise and comfortable operation;
- Specialized in tackling hard rock, achieving perfect integration of drilling and splitting operations. As a powerful tool for static blasting mining, it enables high-efficiency operation with safety and environmental friendliness.

BASIC PARAMETERS

Serial Number	Parameter	Unit	Value
1	Length * Width * Height	mm	4500×1550×1600
2	Total Machine Weight	kg	4450
3	Hydraulic Drifter	/	DZ718
4	Drill Hole Diameter	mm	115
5	Drill Hole Depth	mm	1500
6	Drilling Speed	mm/min	500–1200
7	Impact Power	kw	18
8	Impact Mode	/	Hydraulic Type
9	Impact Pressure	Bar	180
10	Impact Flow Rate	L/min	80–100
11	Impact Energy	J	420
12	Rotation Flow Rate	L/min	30–44
13	Rotation Pressure	Bar	150
14	Rotation Torque	N.m	830
15	Rotation Speed	Rpm	250
16	Maximum Working Flow Rate	L/min	250
17	Rated Pressure	Bar	180
18	Splitting Machine	/	PD320
19	Cylinder Diameter	mm	320
20	Splitting Pressure	Bar	≤315
21	Expanding Force	t	5000
22	Control System	/	Electro-Hydraulic Proportional Valve + Wireless Remote Control
23	Dust Collector System	/	8-Core / Optional
24	Dust Collector Weight	kg	250
25	Screw Air Compressor	/	40SCG-7
26	Air Displacement	m ³ /min	4.5
27	Air Pressure	Bar	8
28	Air Compressor Weight	kg	750
29	Applicable Drill Rod Specification	/	T51–1830
30	Applicable Excavator Specification	t	≥20

CORE COMPONENT

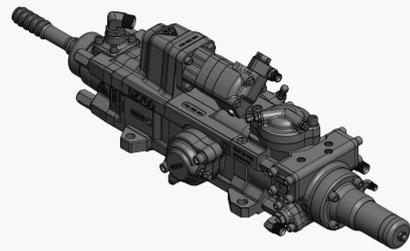
Electro-Hydraulic Proportional Valve

Hydrostatic Transmission
Precise Control of Flow Distribution
Excellent Pressure Resistance Performance



Hydraulic Rock Drill

Impact Energy up to 420J
High Torque with Stepless Speed Regulation
Excellent Rock Drilling Performance



Diesel-Powered Air Compressor

Strong Air Pressure and Air Volume
Turbocharged Four-Cylinder Diesel Engine



Hydraulic-Powered Air Compressor (Optional)

Full Utilization of Excavator Power Source
High Efficiency and Energy Saving
High Reliability



Wireless Remote Controller

100m Super Strong Radio Frequency
Ergonomic Design
Extra-Large Battery Capacity



Dry Dust Collector

Green and Environmentally Friendly
Dry Two-Stage Dust Removal
Imported Filter Screen





PD-130/150/200 Integrated Rock Drilling and Splitting Machine (DTH Version)

PRODUCT INTRODUCTION

The Integrated Rock Drilling and Splitting Machine utilizes the excavator's own hydraulic system. Through modification, it draws hydraulic power from the excavator without impairing its original working performance.

Meanwhile, it cooperates with an external diesel-powered screw air compressor for impact drilling, realizing the integrated operation of rock drilling, hole drilling, and splitting. It boasts numerous advantages such as economic practicality, easy installation, and flexible, convenient, efficient for rock drilling, hole drilling, and splitting.

Additionally, it enables the excavator to achieve multi-functional use, significantly expanding the excavator's application range and improving its operational efficiency.

The DTH (Down-The-Hole) Integrated Rock Drilling and Splitting Machine is the optimal solution for non-explosive and green mining in fields such as mining, municipal engineering, and construction engineering.

BASIC PARAMETERS

Serial Number	Parameter	Unit	PD-130	PD-150	PD-200
1	Length * Width * Height	mm	4500×1550×1600	5400×1650×1750	6000×2250×2050
2	Weight	kg	4450	6500	11000
3	Rock Drilling Mode	/	DTH Drill	DTH Drill	DTH Drill
4	Impact Mode	/	Pneumatic Type	Pneumatic Type	Pneumatic Type
5	Drill Hole Diameter	mm	130	152	203
6	Drill Hole Depth	mm	1500	2400	2700
7	Impact Hammer	/	4 inches	5 inches	8 inches
8	Rotation Pressure	Bar	180	180	230
9	Rotation Torque	N.m	3800	4500	9000
10	Rotation Speed	Rpm	0-150	0-120	0-80
11	Maximum Working Flow Rate	L/min	260	260	300
12	Splitting Machine	/	PD320	PD420	PD460
13	Cylinder Diameter	mm	320	420	460
14	Splitting Pressure	Bar	≤315	≤315	≤350
15	Expanding Force	t	5000	9000	13000
16	Control System	/	Electro-Hydraulic Proportional Valve + Wireless Remote Control	Electro-Hydraulic Proportional Valve + Wireless Remote Control	Electro-Hydraulic Proportional Valve + Wireless Remote Control
17	Dust Collector System	/	Dry/Wet	Dry/Wet	Wet
18	Diesel-Powered Screw Air Compressor	/	162SCYT-15-18G	190SCYT-15-18G	310SCYT-18-25G
19	Diesel Engine Power	KW	162	191	309
20	Air Displacement	m ³ /min	17~20	20~23	27~33
21	Air Pressure	Bar	18~15	18~15	25~18
22	Applicable Drill Rod Specification	/	Φ76*1500	Φ89*2000	Φ102*2500
23	Applicable Excavator Specification	t	≥26	≥30 (Can be installed without the forearm)	≥36 (Can be installed without the forearm)

CORE COMPONENT

Electro-Hydraulic Proportional Valve

Hydrostatic Transmission
Precise Control of Flow Distribution
Excellent Pressure Resistance Performance



Rotary Power Head

Maximum Rotation Torque up to 9000N.m
High Torque with Stepless Speed Regulation



Diesel-Powered Air Compressor

Strong Air Pressure and Air Volume
Two-Stage Supercharging
Large-Displacement Screw Compressor Main Unit



Wireless Remote Controller

100m Super Strong Radio Frequency
Ergonomic Design
Extra-Large Battery Capacity



Wet Dust Collector

Green and Environmentally Friendly
Dust-Free and Energy-Saving
Significant Dust Removal Effect for Large-Diameter Drilling



Two-Stage Rotation

Both drilling-splitting rotation and splitting direction
rotation enable 360° dead-angle-free operation



Cooperation · Win-Win · Innovation · Development

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