



DRILL RIG



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Changsha Mining Equipment Co., Ltd.

Your Trusted Partner in Global Mining Operations

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Comprehensive Product Portfolio

CSME delivers integrated solutions across the entire mining chain, engineered for durability and peak performance in the most demanding conditions.

Haulage & Transportation: Underground dump trucks, scooptrams, and conveyor systems built for maximum payload and reliability.

Hoisting & Lifting: Mine hoists, winches, and elevators engineered for the safe and efficient vertical movement of personnel and materials.

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Our Pledge

We partner with our clients to deliver the most operationally suitable and economically competitive solutions. At CSME, we survive on quality, and your trust is our motivation. We pledge to continue providing superior equipment and total mining solutions that empower your business for the future.

CONTENT

1. VS-4 Vertical Spindle Core Drill Rig-----	1
2. VS-42A Vertical Spindle Core Drill Rig-----	2
3. VS-44A Vertical Spindle Core Drill Rig-----	3
4. VS-5A Vertical Spindle Core Drill Rig-----	4
5. VS-6A Vertical Spindle Core Drill Rig-----	5
6. VS-6B Vertical Spindle Core Drill Rig-----	6
7. VS-8(8B) Vertical Spindle Core Drill Rig-----	7
8. VS-9 Vertical Spindle Core Drill Rig-----	9
9. VS-9B Vertical Spindle Core Drill Rig-----	11
10. VS-T Series Tower Vertical Spindle Core Drill Rig-----	13
11. Drilling Tower-----	14
12. FHU Series Fully Hydraulic Underground Drill Rig-----	15
13. FHC-2A Fully Hydraulic Core Drill Rig-----	17
14. FHC-4E Fully Hydraulic Core Drill Rig-----	19
15. FHC-5E Fully Hydraulic Core Drill Rig-----	21
16. FHC-5F Fully Hydraulic Core Drill Rig-----	23
17. FHC-6E Fully Hydraulic Core Drill Rig-----	25
18. FHC-6F Fully Hydraulic Core Drill Rig-----	27
19. FHC-8 Fully Hydraulic Core Drill Rig-----	29
20. FHC-800 Fully Hydraulic Core Drill Rig-----	31
21. PFH Series Portable Fully Hydraulic Drill Rig-----	33
22. Truck-mounted Core Drilling Rig-----	35
23. EDR Series Engineering Drilling Rig-----	36
24. CMCM-750 Crawler-mounted Multi-functional Coalbed Methane Drilling Rig-----	37
25. TMCM-800 Truck-mounted Multi-functional Coalbed Methane Drill Rig-----	39
26. Auxiliary Accessories-----	41
27. Mud Pumps For Core Drilling-----	43
28. TDR Series Trenchless Drilling Rig-----	44

VS-4 Vertical Spindle Core Drill Rig



The VS-4 vertical spindle core drill is mainly suitable for diamond and carbide exploration drilling in solid mineral deposits, and is widely used in engineering geology and underwater exploration, shallow oil and natural gas extraction, as well as ventilation and drainage drilling in mine tunnels. It features a simple and compact structure, rational layout, light weight, convenient disassembly, and a reasonable speed range.

Owing to its excellent design, it won the High-Quality Product Award from the former Ministry of Geology and Mineral Resources and the High-Quality Product Award of Gansu Province in 1987, and received the Silver Medal from the National Quality Approval Committee in 1988. In addition to being sold throughout China, this product is also exported to regions such as Southeast Asia, Africa, the Americas, and Europe.

Drilling depth	700–1000 m	Max. lifting capacity of spindle	80 kN
Rotation angle of the rotator	0–360°	Max. pressuring force of spindle	60 kN
Spindle speed (Positive)	97, 178, 255, 370, 297, 548, 781, 1136 rpm	Max. rotary torque of spindle	2610 Nm
Spindle speed (Negative)	79, 242 rpm	Max. hoisting force (single rope, empty drum)	30 kN
Spindle stroke	600 mm	Steel wire diameter	16 mm
I.D. of spindle	68 mm	Content of winding drum	90 m
Power configuration	Y2-200L-4 electric motor, 30 kW / 1470 rpm	Dimensions (L×W×H)	2730 × 1100 × 1800 mm
	ZH4100G43 diesel engine, 31 kW / 500 rpm	Weight (without power unit)	1720 kg

VS-42A Vertical Spindle Core Drill Rig



The VS-42A core drill is an optimized and improved product based on the VS-42 drill. In addition to retaining the technical performance and advantages of the VS-42 drill, it features an added guide rod structure on the spindle feed mechanism.

This drill is mainly suitable for core drilling primarily using carbide and diamond bits, and is widely used in engineering geological exploration, hydrogeological well drilling, as well as large-diameter foundation pile construction. In addition to being sold throughout China, this product is also exported to regions such as Southeast Asia, Africa, the Americas, and Europe.

Drilling depth	610–1100 m	Max. lifting capacity of spindle	80 kN
Rotation angle of the rotator	0–360°	Max. pressuring force of spindle	60 kN
Spindle speed (Positive)	81, 150, 214, 311, 249, 460, 656, 954 rpm	Max. rotary torque of spindle	3220 N·m
Spindle speed (Negative)	66, 203 rpm	Max. hoisting force (single rope, empty drum)	30 kN
Spindle stroke	600 mm	Steel wire diameter	16 mm
I.D. of spindle	92 mm	Content of winding drum	90 m
Power configuration	Y2-200L-4 electric motor, 30 kW / 1470 rpm	Dimensions (L×W×H)	2800 × 1100 × 1880 mm
	R4105G53 diesel engine, 42 kW / 1500 rpm	Weight (without power unit)	1840 kg

VS-44A Vertical Spindle Core Drill Rig



The VS-44A drill is a new product improved and designed on the basis of the VS-44 drill. In addition to retaining the technical performance of the original drill, it features an added guide rod structure on the spindle feed mechanism, and is equipped with a water brake and a hand-operated oil pump.

This drill is mainly suitable for core drilling primarily using carbide and diamond bits, and is widely used in engineering geological exploration, hydrogeological well drilling, as well as large-diameter foundation pile construction. In addition to being sold throughout China, this product is also exported to regions such as Southeast Asia, Africa, the Americas, and Europe.

Drilling depth	750–1400 m	Max. lifting capacity of spindle	126 kN
Rotation angle of the rotator	0–360°	Max. pressuring force of spindle	94 kN
Spindle speed (Positive)	82, 151, 215, 313, 251, 463, 660, 961 rpm	Max. rotary torque of spindle	3860 N·m
Spindle speed (Negative)	67, 204 rpm	Max. hoisting force (single rope, empty drum)	45 kN
Spindle stroke	600 mm	Steel wire diameter	17.5 mm
I.D. of spindle	92 mm	Content of winding drum	110 m
Power configuration	Y2-225S-4 electric motor, 37 kW / 1480 rpm	Dimensions (L×W×H)	3040 × 1100 × 1960 mm
	YC4108ZD diesel engine, 50 kW / 1500 rpm	Weight (without power unit)	2150 kg

VS-5A Vertical Spindle Core Drill Rig



The VS-5A is an improved model based on the VS-5 drill. In addition to retaining all the advantages of the VS-5, it incorporates significant improvements in the rotator, gearbox, clutch, and frame. It is equipped with dual guide rods, and the gear ratios of the gearbox have been redistributed. The spindle feed stroke has been increased from the original 500 mm to 600 mm, and the forward and backward travel stroke of the drill has been increased from 460 mm to 600 mm.

The VS-5A core drill can be used for inclined and vertical hole drilling. It features a simple and compact structure, rational layout, moderate weight, convenient disassembly, and a wide speed range. The drill is equipped with a water brake, offering high hoisting capacity and convenient lifting and braking operation.

Drilling depth	800–1800 m
Max. lifting capacity of spindle	138.5 kN
Rotation angle of the rotator	0–360°
Max. pressuring force of spindle	93 kN
Spindle speed (Positive)	98, 166, 253, 359, 340, 574, 876, 1244 rpm
Spindle speed (Negative)	69, 238 rpm
Max. rotary torque of spindle	5361 N·m
Spindle stroke	600 mm
I.D. of spindle	92 mm
Max. hoisting force (single rope, empty drum)	60 kN
Steel wire diameter	18.5 mm
Content of winding drum	120 m
Power configuration	Y2-250M-4 electric motor, 55 kW / 1480 rpm; YC6B135Z-D20 diesel engine, 84 kW / 1500 rpm
Dimensions (L×W×H)	(Electric motor) 3500 × 1300 × 2175 mm (Diesel engine) 3700 × 1300 × 2175 mm
Weight (without power unit)	3420 kg

VS-6A Vertical Spindle Core Drill Rig



The VS-6A drill is an improved model based on the VS-6 drill. In addition to retaining all the advantages of the VS-6 drill, it incorporates significant improvements in the rotator, gearbox, clutch, and frame. It is equipped with dual guide rods, and the gear ratios of the gearbox have been readjusted. The spindle feed stroke has been increased from the original 600 mm to 720 mm, and the forward and backward travel stroke of the main unit has been increased from 460 mm to 600 mm.

The VS-6A core drill can be used for inclined and vertical hole drilling. It features a simple and compact structure, rational layout, moderate weight, convenient disassembly, and a wide speed range. The drill is equipped with a water brake, offering high hoisting capacity and convenient lifting and braking operation.

Drilling depth	1100–2200 m
Max. lifting capacity of spindle	196 kN
Rotation angle of the rotator	0–360°
Max. pressuring force of spindle	146 kN
Spindle speed (Positive)	96, 162, 247, 352, 266, 448, 685, 974 rpm
Spindle speed (Negative)	67, 187 rpm
Max. rotary torque of spindle	7460 N·m
Spindle stroke	720 mm
I.D. of spindle	92 mm
Max. hoisting force (single rope, empty drum)	76 kN
Steel wire diameter	21.5 mm
Content of winding drum	160 m
Power configuration	Y2-280S-4 electric motor, 75 kW / 1480 rpm YC6B135Z-D20 diesel engine 84kW/1500pm
Dimensions (L×W×H)	(Electric motor) 3548 × 1300 × 2305 mm (Diesel engine) 3786 × 1300 × 2305 mm
Weight (without power unit)	4180 kg

VS-6B Vertical Spindle Core Drill Rig



The VS-6B core drill is a hydraulically fed, vertical-spindle rotary, diamond-core drill with relatively large drilling capacity, improved and designed by integrating the advantages and features of various domestic and international core drills. It is mainly suitable for solid mineral deposit exploration. It is a core drilling equipment widely used in geological, metallurgical, coal, hydrogeological well, and engineering industries, primarily for diamond and carbide core drilling, and is also applicable to shallow oil and natural gas extraction, mine tunnel ventilation and drainage, as well as large-diameter foundation pile construction.

The VS-6B core drill can be used for inclined and vertical hole drilling. It features a simple and compact structure, rational layout, moderate weight, convenient disassembly, and a wide speed range. The drill is equipped with a water brake, offering high hoisting capacity and convenient lifting and braking operation.

Drilling depth	1100–2200 m
Max. lifting capacity of spindle	196 kN
Rotation angle of the rotator	0–360°
Max. pressuring force of spindle	146 kN
Spindle speed (Positive)	100, 169, 258, 368, 278, 468, 716, 1018 rpm
Spindle speed (Negative)	70, 196 rpm
Max. rotary torque of spindle	7163 N·m
Spindle stroke	720 mm
I.D. of spindle	116 mm
Max. hoisting force (single rope, empty drum)	76 kN
Steel wire diameter	21.5 mm
Content of winding drum	160 m
Power configuration	Y2-280S-4 electric motor, 75 kW / 1480 rpm YC6B135Z-D20 diesel engine, 84 kW / 1500 rpm
Dimensions (L×W×H)	(Electric motor) 3590 × 1300 × 2370 mm (Diesel engine) 3790 × 1300 × 2370 mm
Weight (without power unit)	4360 kg

VS-8(8B) Vertical Spindle Core Drill Rig



VS-8 Type

The VS-8 (8B) core drill is a medium-deep hole core drilling equipment with mechanical transmission, vertical spindle rotation, and hydraulic feed, designed for diamond and carbide drilling. The VS-8 is of the vertical spindle type, while the VS-8B is of the rotary table type.

This drill is suitable for solid mineral exploration, shallow oil and natural gas extraction, geothermal well exploration, mine tunnel ventilation and drainage, as well as large-diameter foundation pile construction. It is a core drilling equipment widely used in geology, metallurgy, coal, hydrogeology, water well, and engineering industries, primarily for diamond and carbide core drilling.

The VS-8 (-8B) core drill features a wide speed range, rational speed distribution, large power configuration, high output torque, compatibility with both vertical spindle and rotary table rotation structures, and a transversely arranged winch. It is equipped with a water brake, offering large hoisting capacity, flexible braking, convenient operation, and high safety and reliability.

This drill can be used either as a traditional vertical spindle drill or as a rotary table drill, making it a preferred equipment for medium-deep hole exploration work.

VS-8 Type

Drilling depth	2100–3200 m
Max. lifting capacity of spindle	294 kN
Max. pressuring force of spindle	141 kN
Spindle speed (Positive)	99, 168, 256, 363, 277, 467, 715, 1011 rpm
Spindle speed (Negative)	70, 194 rpm
Max. rotary torque of spindle	8682 N·m
Spindle stroke	1000 mm
I.D. of spindle	118 mm
Max. hoisting force (single rope, empty drum)	125 kN
Steel wire diameter	21.5 mm
Content of winding drum	185 m
Power configuration	Y2-280M4 electric motor, 90 kW / 1480 rpm YC6B180D diesel engine, 134 kW / 1800 rpm
Dimensions (L×W×H)	(Electric motor) 3905 × 1692 × 2603 mm (Diesel engine) 4105 × 1892 × 2803 mm
Weight (without power unit)	7900 kg

VS-8B Type

Drilling depth	2300–3200 m
Spindle speed (Positive)	99, 168, 256, 363, 277, 467, 715, 1011 rpm
Spindle speed (Negative)	70, 194 rpm
Turntable speed (Clockwise Rotation Rates)	41, 70, 107, 152, 116, 195, 299, 415 rpm
Turntable speed (Anti-clockwise Rotation Rates)	29, 81 rpm
Max. rotary torque of turntable	29638 N·m (reverse rotation)
Turntable aperture	395 mm
Spindle stroke	800 mm
Sliding stroke of drill rig	690 mm
Max. hoisting force (single rope, empty drum)	125 kN
Steel wire diameter	21.5 mm
Content of winding drum	185 m
Power configuration	Y2-280M-4 electric motor, 90 kW / 1480 rpm YC6B180D diesel engine, 134 kW / 1800 rpm
Dimensions (L×W×H)	(Electric motor) 4413 × 1692 × 2653 mm (Diesel engine) 4413 × 1892 × 2803 mm
Weight (without power unit)	9100 kg



VS-8B Type

VS-9 Vertical Spindle Core Drill Rig



The VS-9 core drill is a deep-hole core drilling equipment primarily for diamond and carbide drilling, suitable for solid mineral exploration, shallow oil and natural gas exploration and production, geothermal well exploration, mine tunnel ventilation and drainage, as well as large-diameter foundation pile construction. It is widely used in geology, metallurgy, coal, hydrogeology, water well, and engineering industries.

This drill features a wide speed range, rational speed distribution, large power configuration, high output torque, and a transversely arranged winch. It is equipped with a water brake, offering large hoisting capacity, flexible braking, convenient operation, and high safety and reliability. It is currently a preferred equipment for deep-hole exploration in China.

Electric motor model	Y2-315L1-4	Diesel engine model	YC6M265L-D20
Electric motor power	160 kW	Diesel engine power	170 kW
Electric motor rotating speed	1480 rpm	Diesel engine rotating speed	1500 rpm

Drilling depth	2600–4200 m
Spindle dia.	118 mm
Max. spindle torque	18610 N·m
Spindle speed (Positive)	82, 119, 170, 234, 333, 240, 338, 484, 683, 949 rpm
Spindle speed (Negative)	29, 84 rpm
Hexagonal kelly	φ114×102; φ89×79 (mm)
Dia. of drill rod	φ114, φ102, φ89, φ71 mm
Spindle stroke	1200 mm
Sliding stroke of drill rig	800 mm
Max. lifting force of drill	643 kN
Max. pressurizing force of drill	339 kN
Winding drum capacity	400 m
Steel wire dia.	26 mm
Max. single-wire hoisting force (the third layer)	165 kN
Single-wire lifting speed of hoist	0.84, 1.21, 1.74, 2.45, 3.4 m/s
Drilling angle (without vertical arm)	78°–90°
Dimensions (with electric motor)	5730 × 2040 × 3400 mm
Dimensions (with diesel engine)	6088 × 2040 × 3400 mm
Weight (with electric motor)	17000 kg
Weight (with diesel engine)	17600 kg

VS-9B Vertical Spindle Core Drill Rig



The VS-9B core drill is a drilling equipment developed by adding a high-torque rotary table to the VS-9 drill, capable of both high-speed drilling and low-speed high-torque drilling. This drill is a deep-hole core drilling equipment primarily for diamond and carbide drilling, suitable for solid mineral exploration, shallow oil and natural gas exploration and production, geothermal well exploration, mine tunnel ventilation and drainage, as well as large-diameter foundation pile construction. It is widely used in geology, metallurgy, coal, hydrogeology, water well, and engineering industries.

This drill features a wide speed range, rational speed distribution, large power configuration, high output torque, and a transversely arranged winch. It is equipped with a water brake, offering large hoisting capacity, flexible braking, convenient operation, and high safety and reliability. It is currently a preferred equipment for deep-hole exploration in China.

Electric motor model	Y2-315L1-4	Diesel engine model	YC6M265L-D20
Electric motor power	160 kW	Diesel engine power	170 kW
Electric motor rotating speed	1480 rpm	Diesel engine rotating speed	1500 rpm

Drilling depth	2800–4200 m
Spindle dia.	118 mm
Hole dia. on turntable	494 mm
Max. dynamic load of turntable	720 kN
Max. dead load of turntable	1335 kN
Spindle speed (Positive)	82, 119, 170, 234, 333, 240, 338, 484, 683, 949 rpm
Spindle speed (Negative)	29, 84 rpm
Rotating speed of turntable (Positive)	28, 41, 58, 80, 114, 82, 116, 166, 234, 326 rpm
Rotating speed of turntable (Negative)	10, 28 rpm
Max. spindle torque (Positive)	18610 N·m
Max. spindle torque (Negative)	52024 N·m
Max. turntable torque (Positive)	54155 N·m
Max. turntable torque (Negative)	151390 N·m
Hexagonal kelly	φ114×102; φ89×79; 110×110 (mm)
Dia. of drill rod	φ114, φ102, φ89, φ71 mm
Winding drum capacity	400 m
Steel wire dia.	26 mm
Max. single-wire hoisting force (the third layer)	165 kN
Single-wire lifting speed of hoist	0.84, 1.21, 1.74, 2.45, 3.4 m/s
Dimensions (with electric motor)	7005 × 2040 × 3400 mm
Dimensions (with diesel engine)	7362 × 2040 × 3400 mm
Weight (with electric motor)	19900 kg
Weight (with diesel engine)	20500 kg

VS-T Series Tower Vertical Spindle Core Drill Rig

Drilling Tower



VS-4T VS-42T VS-44T VS-44TL

The VS-T series drills are tower-integrated core drills that combine the main units of the VS series core drills with mast-type derricks. This series of tower-integrated drills not only retains the advantages of the original drills, such as compact structure, rational layout, light weight, good disassemblability, reasonable speed range, and convenient operation and maintenance, but also features an integrated tower-and-drill arrangement. The derrick is equipped with hydraulic cylinder erecting and traversing pulley mechanisms, offering flexible and convenient hydraulic control, and is particularly suitable for large-angle inclined hole drilling.

Drill Rig Model	VS-4T	VS-42T	VS-44T	VS-44TL
Drilling depth	560–800 m	490–880 m	600–1100 m	600–1000 m
Max. torque of spindle	2610 N·m	3220 N·m	3860 N·m	3200 N·m
Spindle stroke	600 mm	600 mm	600 mm	600 mm
I.D. of spindle	68 mm	92 mm	92 mm	92 mm
Max. lifting capacity of spindle	80 kN	80 kN	126 kN	120 kN
Max. feeding force of spindle	60 kN	60 kN	94 kN	90 kN
Max. hoisting force of winch	30 kN	30 kN	45 kN	45 kN
Engine power	30 kW	30 kW	37 kW	97 kW (Cummins)

Mast Parameter	VS-4T / VS-42T / VS-44T	VS-44TL
Mast height	10 m	10 m
Base area	4000 × 4000 mm	
Number of sheaves	5	5
Max. load of mast	100 kN	100 kN
Load of movable work platform	80 kg	80 kg
Adjusted angles of drill mast	45°–90°	45°–90°



HCX-13 Drilling Tower HR-18 Drilling Tower SG-24 Drilling Tower HA-29 Drilling Tower
HCX-18 Drilling Tower HR-25 Drilling Tower SGXZ-24 Drilling Tower HA-90 Drilling Tower

Model	Nominal Mast Height (m)	Max. Static Load of Crown Block Beam (kN)	Stand Length (m)	Applicable Hole Inclination (°)	Nominal Base Area (m)	Number of Sheaves	Max. Load of Cage (kN)	Weight (kg)
HCX-13	13	200	2×4.5 or 3×3	75–90	3.8×4.7	3	0.8	4450
HCX-18	18	320	3×4.5 or 4×3	75–90	4.5×5.8	3	0.8	5480
SGZ-18	18	320	3×4.5 or 4×3	90	4.5×4.5	4	0.8	5300
HR-18/25	18	250	2×4.5 or 3×3	90	3.94	2	0.8	4500
RYT-18	18	300	2×4.5 or 3×3	90	6.5×4.7	4	0.8	8200
HCX-23	23	320	4×4.5 or 6×3	75–90	7.32×5.57	3	0.8	7500
SGZ-23	23	320	4×4.5 or 6×3	90	5.5×5.5	4	0.8	7300
SG-24	24	600	4×4.5 or 6×3	90	6.5×6.5	4	0.8	13500
SGXZ-24	24	600	4×4.5 or 6×3	75–90	8.3×6.5	3	0.8	14700
HA-29/90	29	900	25	90	11×6.8	4	0.8	26900

FHU Series Fully Hydraulic Underground Drill Rig

The FHU series fully hydraulic underground drill rigs are mainly suitable for exploration drilling in narrow-space mine tunnels, and are widely used in railway, water conservancy, tunnel and other engineering constructions.



Item	Unit	FHU-3B		FHU-4A		FHU-5A		FHU-8A	
Drilling Direction	/	Vertical Downward	Vertical Upward	Vertical Downward	Vertical Upward	Vertical Downward	Vertical Upward	Vertical Downward	Vertical Upward
BQ Rod (1.5m, 05.6mm)	m	400	200	600	600	900	900	1600	1600
NQ Rod (1.5m, 069.9mm)	m	300	150	480	480	750	750	1200	1200
HQ Rod (1.5m, 088.9mm)	m	200	100	350	350	500	500	700	700
Electrical Motor									
Model	/	YE3-225M		YE3-250M		YE3-280S		YE3-315S	
Rated Power	kW	45		55		75		110	
Rated Speed	r/min	1480		1480		1480		1480	
Drill Head									
Max. Rotary Speed	r/min	1200		1200		1200		1200	
Max. Torque	Nm	855		1000		1600		2400	
Speed Range	r/min	430–858 (Gear I)		558–1200		445–1200		395–1200	
		595–1200 (Gear II)							
Corresponding Torque	Nm	855–438 (Gear I)		1000–355		1600–559		2400–734	
		630–316 (Gear II)							
Spindle I.D.	mm	Top-drive		95		95		103	
Translational Distance	mm	275		310		310		355	
Feeding Mechanism									
Feeding Stroke	mm	1800		1800		1800		1800	
Max. Lifting Capacity	kN	60		90		90		135	
Max. Feeding Power	kN	30		90		90		135	
Mast									
Drilling Angle	°	-90~+90		-90~+90		-90~+90		-90~+90	
Sliding Stroke	mm	1300		1500		1500		1500	
Wire-line Winch									
Single-Wire Hoisting Capacity	kN	8 (first layer)		10 (first layer)		10 (first layer)		15 (first layer)	
Lifting Speed	m/min	160 (first layer)		150 (first layer)		200 (first layer)		200 (first layer)	
Length of Steel Rope	m	350		600		750		1200	
Dia. of Steel Rope	mm	6		6		6		6	
Orifice Clamp									
Applicable Rods	/	BQ, NQ, HQ, PQ		BQ, NQ, HQ, PQ		BQ, NQ, HQ, PQ		BQ, NQ, HQ, PQ	
Via Diameter	mm	φ124		φ135		φ135		φ135	
Overall Dimensions (L×W×H)									
Main Machine	mm	3456×1290×1620		3800×1060×1575		3800×1060×1575		3900×1200×1650	
Power Unit	mm	1910×1080×1180		2090×1140×1290		2090×1140×1290		2090×1140×1290	
Operation Cabinet	mm	860×400×1080		860×400×1080		860×400×1080		860×400×1080	
Weight									
Main Machine	kg	1450		2220		2220		2900	
Power Unit	kg	1140		1100		1200		1800	
Operation Cabinet	kg	130		130		130		130	

FHC-2A Fully Hydraulic Core Drill Rig

The FHC-2A fully hydraulic core drill is mainly suitable for core drilling primarily using diamond and carbide bits, and is widely used in geology, metallurgy, coal, nuclear industry, hydrogeology and other industries.

1. The drill is driven by a fully hydraulic system and equipped with steel crawler tracks for walking;
2. The power head adopts a top-drive structure, featuring lateral translational function and two-speed mechanical transmission, both gears with infinitely variable speed control;
3. The rotation of the power head is driven by a variable displacement motor, ensuring high working efficiency;
4. The mast adopts a foldable design, with adjustable outrigger supports at the lower section, and the upper mast can be equipped with extension sections as required;
5. The orifice is equipped with a hydraulic clamp with a centralizer.



Item	Unit	Parameter	Remarks
Drilling Capacity			
BQ Rod	m	500	φ55.6mm
NQ Rod	m	350	φ69.9mm
HQ Rod	m	120	φ88.9mm
Diesel Engine			
Model	/	4BTA3.9-C100	Cummins
Rated Power	kW	74	
Rated Speed	r/min	2200	
Drill Head			
Max. Rotary Speed	r/min	1200	
Max. Torque	N·m	900	
Speed Range	r/min	405–874	Gear I
		560–1200	Gear II
Corresponding Torque	N·m	900–425	Gear I
		630–293	Gear II
Spindle I.D.	mm	Top-drive	
Translational Distance	mm	265	
Feeding Mechanism			
Feeding Stroke	mm	1800	
Max. Lifting Capacity	kN	50	
Max. Feeding Power	kN	25	
Mast			
Total Height	m	6	
Adjusting Angle	°	0–90	
Drilling Angle	°	45–90	
Sliding Stroke	mm	715	
Main Hoist			
Single-Wire Hoisting Capacity	kN	20	1st Layer
Lifting Speed	m/min	84	1st Layer
Length of Steel Rope	m	30	
Dia. of Steel Rope	mm	14	
Wire-line Winch			
Single-Wire Hoisting Capacity	kN	8	1st Layer
Lifting Speed	m/min	96	1st Layer
Length of Steel Rope	m	500	
Dia. of Steel Rope	mm	6	
Mud Pump			
Model	/	BW-100	
Max. Displacement	L/min	100	
Max. Pressure	MPa	6	
Orifice Clamp			
Applicable Rods	mm	BQ, NQ, HQ, PQ	
Via Diameter	mm	φ124	
Crawler Chassis			
Traveling Speed	km/h	1.5–2.5	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Working Dimensions	mm	4100×1840×6000	
Transport Dimensions	mm	4200×1840×2400	
Weight			
Main Machine	t	5.5	

FHC-4E Fully Hydraulic Core Drill Rig

The FHC-4E fully hydraulic core drill is mainly suitable for core drilling primarily using diamond and carbide bits, and is widely used in geology, metallurgy, coal, nuclear industry, hydrogeology and other industries.

1. All major hydraulic components are selected from internationally renowned brands;
2. The power head adopts a chuck-type structure, featuring lateral translational function and four-speed mechanical transmission, all four gears with infinitely variable speed control;
3. The feed system of the drill adopts a direct cylinder push structure;
4. The mast is raised and lowered by hydraulic cylinders and is foldable for convenient transportation and storage, with a sliding ground-contact function;
5. The hydraulic system adopts load-sensing control, and the rotation of the power head is driven by a single motor, ensuring high working efficiency and high torque;
6. The mast is equipped with upper and lower centralizing devices for convenient inclined hole drilling, and the orifice is equipped with a hydraulic clamp;
7. Equipped with a two-tier working platform;
8. Available in crawler-mounted, platform-mounted, or truck-mounted configurations according to user requirements.



Item	Unit	Parameter	Remarks
Drilling Capacity			
BQ Rod	m	1200	φ55.6mm
NQ Rod	m	900	φ69.9mm
HQ Rod	m	700	φ88.9mm
Diesel Engine			
Model	/	6BTA5.9-C180	Cummins
Rated Power	kW	132	
Rated Speed	r/min	2200	
Drill Head			
Max. Rotary Speed	r/min	1150	
Max. Torque	N·m	5500	
Speed Range	r/min	105–206	Gear I
		184–361	Gear II
		334–656	Gear III
		569–1150	Gear IV
Corresponding Torque	N·m	5500–2833	Gear I
		3168–1613	Gear II
		1743–887	Gear III
		1024–521	Gear IV
Spindle I.D.	mm	98	
Translational Distance	mm	350	
Feeding Mechanism			
Feeding Stroke	mm	3500	
Max. Lifting Capacity	kN	150	
Max. Feeding Power	kN	60	
Mast			
Total Height	m	9.2	
Adjusting Angle	°	0–90	
Drilling Angle	°	45–90	
Sliding Stroke	mm	1100	
Main Hoist			
Single-Wire Hoisting Capacity	kN	69	1st Layer
Lifting Speed	m/min	40	1st Layer
Length of Steel Rope	m	50	
Dia. of Steel Rope	mm	16	
Wire-line Winch			
Single-Wire Hoisting Capacity	kN	12	1st Layer
Lifting Speed	m/min	130	1st Layer
Length of Steel Rope	m	1000	
Dia. of Steel Rope	mm	6	
Mud Pump			
Model	/	BW-160	
Max. Displacement	L/min	160	
Max. Pressure	MPa	10	
Orifice Clamp			
Applicable Rods	mm	BQ, NQ, HQ, PQ	
Via Diameter	mm	φ154	
Crawler Chassis			
Traveling Speed	km/h	1.5–2.5	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Working Dimensions	mm	4800×2420×9200	
Transport Dimensions	mm	5500×2200×2450	
Weight			
Main Machine	t	9	

FHC-5E Fully Hydraulic Core Drill Rig

The FHC-5E fully hydraulic core drill is mainly suitable for core drilling primarily using diamond and carbide bits, and is widely used in geology, metallurgy, coal, nuclear industry, hydrogeology and other industries.

1. All major hydraulic components are selected from internationally renowned brands;
2. The power head adopts a chuck-type structure, featuring lateral translational function and two-speed mechanical transmission, both gears with infinitely variable speed control;
3. The feed system of the drill adopts a direct cylinder push structure;
4. The mast is raised and lowered by hydraulic cylinders and is foldable for convenient transportation and storage, with a sliding ground-contact function;
5. The hydraulic system adopts load-sensing control, and the rotation of the power head is driven by dual motors in a closed-loop circuit, ensuring high working efficiency and high torque;
6. The mast is equipped with upper and lower centralizing devices for convenient inclined hole drilling, and the orifice is equipped with a hydraulic clamp;
7. Equipped with a two-tier working platform;
8. Available in crawler-mounted, platform-mounted, or truck-mounted configurations according to user requirements.



Item	Unit	Parameter	Remarks
Drilling Capacity			
BQ Rod	m	1500	φ55.6mm
NQ Rod	m	1300	φ69.9mm
HQ Rod	m	1000	φ88.9mm
PQ Rod	m	680	φ114.3mm
Diesel Engine			
Model	/	Cummins 6CTA8.3-C215 (National Phase I) Optional: Cummins QSB5.9-C210 (National Phase III)	
Rated Power	kW	160	
Rated Speed	r/min	2200	
Drill Head			
Max. Rotary Speed	r/min	1150	
Max. Torque	N·m	5900	
Speed Range	r/min	170-341	Gear I
		539-1150	Gear II
Corresponding Torque	N·m	5900-2958	Gear I
		1868-934	Gear II
Spindle I.D.	mm	121	
Translational Distance	mm	510	
Feeding Mechanism			
Feeding Stroke	mm	3800	
Max. Lifting Capacity	kN	180	
Max. Feeding Power	kN	90	
Mast			
Total Height	m	10.8	
Adjusting Angle	°	0-90	
Drilling Angle	°	45-90	
Sliding Stroke	mm	1100	
Main Hoist			
Single-Wire Hoisting Capacity	kN	80	1st Layer
Lifting Speed	m/min	44	1st Layer
Length of Steel Rope	m	60	
Dia. of Steel Rope	mm	18	
Wire-line Winch			
Single-Wire Hoisting Capacity	kN	12	1st Layer
Lifting Speed	m/min	130	1st Layer
Length of Steel Rope	m	1500	
Dia. of Steel Rope	mm	6	
Mud Pump			
Model	/	BW-250	
Max. Displacement	L/min	250	
Max. Pressure	MPa	6	
Orifice Clamp			
Applicable Rods	mm	BQ, NQ, HQ, PQ	
Via Diameter	mm	φ154	
Crawler Chassis			
Traveling Speed	km/h	1.5-2.5	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Working Dimensions	mm	4635×2240×10820	
Transport Dimensions	mm	5780×2240×2500	
Weight			
Main Machine	t	13	

FHC-5F Fully Hydraulic Core Drill Rig

The FHC-5F fully hydraulic core drill is mainly suitable for core drilling primarily using diamond and carbide bits, and is widely used in geology, metallurgy, coal, nuclear industry, hydrogeology and other industries.

1. All major hydraulic components are selected from internationally renowned brands;
2. The power head adopts a chuck-type structure, featuring lateral translational function and two-speed mechanical transmission, both gears with infinitely variable speed control;
3. The feed system of the drill adopts a direct cylinder push method;
4. The mast is raised and lowered by hydraulic cylinders, and the upper mast is designed with a telescopic structure for convenient transportation and storage, with a sliding ground-contact function;
5. The hydraulic system adopts load-sensing control, and the rotation of the power head is driven by dual motors in a closed-loop circuit, ensuring high working efficiency and high torque;
6. The mast is equipped with upper and lower centralizing devices for convenient inclined hole drilling, and the orifice is equipped with a hydraulic clamp;
7. Equipped with a two-tier working platform;
8. Available in crawler-mounted, platform-mounted, or truck-mounted configurations according to user requirements.



Item	Unit	Parameter	Remarks
Drilling Capacity			
BQ Rod	m	1500	φ55.6mm
NQ Rod	m	1300	φ69.9mm
HQ Rod	m	1000	φ88.9mm
PQ Rod	m	680	φ114.3mm
Diesel Engine			
Model	/	Cummins 6CTA8.3-C215 (National Phase I) Optional: Cummins QSB5.9-C210 (National Phase III)	
Rated Power	kW	160	
Rated Speed	r/min	2200	
Drill Head			
Max. Rotary Speed	r/min	1150	
Max. Torque	N·m	5900	
Speed Range	r/min	170–341	Gear I
		539–1150	Gear II
Corresponding Torque	N·m	5900–2958	Gear I
		1868–934	Gear II
Spindle I.D.	mm	121	
Translational Distance	mm	465	
Feeding Mechanism			
Feeding Stroke	mm	3800	
Max. Lifting Capacity	kN	180	
Max. Feeding Power	kN	90	
Mast			
Total Height	m	9.8	
Adjusting Angle	°	0–90	
Drilling Angle	°	45–90	
Sliding Stroke	mm	1100	
Main Hoist			
Single-Wire Hoisting Capacity	kN	80	1st Layer
Lifting Speed	m/min	44	1st Layer
Length of Steel Rope	m	60	
Dia. of Steel Rope	mm	18	
Wire-line Winch			
Single-Wire Hoisting Capacity	kN	12	1st Layer
Lifting Speed	m/min	130	1st Layer
Length of Steel Rope	m	1500	
Dia. of Steel Rope	mm	6	
Mud Pump			
Model	/	BW-250	
Max. Displacement	L/min	250	
Max. Pressure	MPa	6	
Orifice Clamp			
Applicable Rods	mm	BQ, NQ, HQ, PQ	
Via Diameter	mm	φ154	
Crawler Chassis			
Traveling Speed	km/h	1.5–2.5	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Working Dimensions	mm	4715×2240×9800	
Transport Dimensions	mm	6400×2240×2500	
Weight			
Main Machine	t	13	

FHC-6E Fully Hydraulic Core Drill Rig

The FHC-6E fully hydraulic core drill is mainly suitable for core drilling primarily using diamond and carbide bits, and is widely used in geology, metallurgy, coal, nuclear industry, hydrogeology and other industries.

- 1. All major hydraulic components are selected from internationally renowned brands;
- 2. The power head adopts a chuck-type structure, featuring lateral translational function and two-speed mechanical transmission, both gears with infinitely variable speed control;
- 3. The feed system of the drill adopts a direct cylinder push structure;
- 4. The mast is raised and lowered by hydraulic cylinders and is foldable for convenient transportation and storage, with a sliding ground-contact function;
- 5. The hydraulic system adopts load-sensing control, and the rotation of the power head is driven by dual motors in a closed-loop circuit, ensuring high working efficiency and high torque;
- 6. The mast is equipped with upper and lower centralizing devices for convenient inclined hole drilling, and the orifice is equipped with a hydraulic clamp;
- 7. Equipped with a two-tier working platform;
- 8. Available in crawler-mounted, platform-mounted, or truck-mounted configurations according to user requirements.



Item	Unit	Parameter	Remarks
Drilling Capacity			
BQ Rod	m	2000	φ55.6mm
NQ Rod	m	1600	φ69.9mm
HQ Rod	m	1300	φ88.9mm
PQ Rod	m	1000	φ114.3mm
Diesel Engine			
Model	/	Cummins 6CTA8.3-C240 (National Phase II) Optional: Cummins QSB6.7-C240 (National Phase III)	
Rated Power	kW	179	
Rated Speed	r/min	2200	
Drill Head			
Max. Rotary Speed	r/min	1150	
Max. Torque	N·m	6400	
Speed Range	r/min	157–359	Gear I
		509–1150	Gear II
Corresponding Torque	N·m	6400–2805	Gear I
		1978–865	Gear II
Spindle I.D.	mm	121	
Translational Distance	mm	510	
Feeding Mechanism			
Feeding Stroke	mm	3800	
Max. Lifting Capacity	kN	240	
Max. Feeding Power	kN	120	
Mast			
Total Height	m	10.8	
Adjusting Angle	°	0–90	
Drilling Angle	°	45–90	
Sliding Stroke	mm	1100	
Main Hoist			
Single-Wire Hoisting Capacity	kN	120	1st Layer
Lifting Speed	m/min	44	1st Layer
Length of Steel Rope	m	60	
Dia. of Steel Rope	mm	22	
Wire-line Winch			
Single-Wire Hoisting Capacity	kN	12	1st Layer
Lifting Speed	m/min	130	1st Layer
Length of Steel Rope	m	1800	
Dia. of Steel Rope	mm	6	
Mud Pump			
Model	/	BW-250	
Max. Displacement	L/min	250	
Max. Pressure	MPa	6	
Orifice Clamp			
Applicable Rods	mm	BQ, NQ, HQ, PQ	
Via Diameter	mm	φ154	
Crawler Chassis			
Traveling Speed	km/h	1.5–2.5	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Working Dimensions	mm	4635×2240×10820	
Transport Dimensions	mm	5780×2240×2500	
Weight			
Main Machine	t	13.5	

FHC-6F Fully Hydraulic Core Drill Rig

The FHC-6F fully hydraulic core drill is mainly suitable for core drilling primarily using diamond and carbide bits, and is widely used in geology, metallurgy, coal, nuclear industry, hydrogeology and other industries.

1. All major hydraulic components are selected from internationally renowned brands;
2. The power head adopts a chuck-type structure, featuring lateral translational function and two-speed mechanical transmission, both gears with infinitely variable speed control;
3. The feed system of the drill adopts a direct cylinder push method;
4. The mast is raised and lowered by hydraulic cylinders, and the upper mast is designed with a telescopic structure for convenient transportation and storage, with a sliding ground-contact function;
5. The hydraulic system adopts load-sensing control, and the rotation of the power head is driven by dual motors in a closed-loop circuit, ensuring high working efficiency and high torque;
6. The mast is equipped with upper and lower centralizing devices for convenient inclined hole drilling, and the orifice is equipped with a hydraulic clamp;
7. Equipped with a two-tier working platform;
8. Available in crawler-mounted, platform-mounted, or truck-mounted configurations according to user requirements.



Item	Unit	Parameter	Remarks
Drilling Capacity			
BQ Rod	m	2000	φ55.6mm
NQ Rod	m	1600	φ69.9mm
HQ Rod	m	1300	φ88.9mm
PQ Rod	m	1000	φ114.3mm
Diesel Engine			
Model	/	Cummins 6CTA8.3-C240 (National Phase II) Optional: Cummins QSB6.7-C240 (National Phase III)	
Rated Power	kW	179	
Rated Speed	r/min	2200	
Drill Head			
Max. Rotary Speed	r/min	1150	
Max. Torque	N·m	6400	
Speed Range	r/min	157-359	Gear I
		509-1150	Gear II
Corresponding Torque	N·m	6400-2805	Gear I
		1978-865	Gear II
Spindle I.D.	mm	121	
Translational Distance	mm	465	
Feeding Mechanism			
Feeding Stroke	mm	3800	
Max. Lifting Capacity	kN	240	
Max. Feeding Power	kN	120	
Mast			
Total Height	m	10	
Adjusting Angle	°	0-90	
Drilling Angle	°	45-90	
Sliding Stroke	mm	1100	
Main Hoist			
Single-Wire Hoisting Capacity	kN	120	1st Layer
Lifting Speed	m/min	44	1st Layer
Length of Steel Rope	m	60	
Dia. of Steel Rope	mm	22	
Wire-line Winch			
Single-Wire Hoisting Capacity	kN	12	1st Layer
Lifting Speed	m/min	100	1st Layer
Length of Steel Rope	m	1800	
Dia. of Steel Rope	mm	6	
Mud Pump			
Model	/	BW-250	
Max. Displacement	L/min	250	
Max. Pressure	MPa	6	
Orifice Clamp			
Applicable Rods	mm	BQ, NQ, HQ, PQ	
Via Diameter	mm	φ154	
Crawler Chassis			
Traveling Speed	km/h	1.5-2.5	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Working Dimensions	mm	4800×2240×10000	
Transport Dimensions	mm	6400×2240×2500	
Weight			
Main Machine	t	13.5	

FHC-8 Fully Hydraulic Core Drill Rig

The FHC-8 fully hydraulic core drill is mainly suitable for core drilling primarily using diamond and carbide bits, and is widely used in geology, metallurgy, coal, nuclear industry, hydrogeology and other industries.

- 1. All major hydraulic components are selected from internationally renowned brands;
- 2. The power head adopts a chuck-type structure, featuring lateral translational function and three-speed mechanical transmission, all three gears with infinitely variable speed control;
- 3. The feed system of the drill adopts a cylinder-chain speed-multiplying structure;
- 4. The mast is raised and lowered by hydraulic cylinders and is foldable for convenient transportation and storage, with a sliding ground-contact function;
- 5. The hydraulic system adopts load-sensing control, and the rotation of the power head is driven by dual motors in a closed-loop circuit, ensuring high working efficiency and high torque;
- 6. The mast is equipped with upper and lower centralizing devices for convenient inclined hole drilling, and the orifice is equipped with a hydraulic clamp;
- 7. Equipped with a two-tier working platform.



Item	Unit	Parameter	Remarks
Drilling Capacity			
NQ Rod	m	3000	φ69.9mm
HQ Rod	m	2400	φ88.9mm
PQ Rod	m	1700	φ114.3mm
Diesel Engine			
Model	/	QSL8.9-C360	Cummins
Rated Power	kW	264	
Rated Speed	r/min	2100	
Drill Head			
Max. Rotary Speed	r/min	1100	
Max. Torque	N·m	8000	
Speed Range	r/min	254-508	Gear I
		448-897	Gear II
		526-1100	Gear III
Corresponding Torque	N·m	8000-3611	Gear I
		4091-2046	Gear II
		3486-1743	Gear III
Spindle I.D.	mm	121	
Translational Distance	mm	695	
Feeding Mechanism			
Feeding Stroke	mm	4700	
Max. Lifting Capacity	kN	295	
Max. Feeding Power	kN	152	
Mast			
Total Height	m	14.7	
Adjusting Angle	°	0-90	
Drilling Angle	°	45-90	
Sliding Stroke	mm	1100	
Main Hoist			
Single-Wire Hoisting Capacity	kN	120	1st Layer
Lifting Speed	m/min	44	1st Layer
Length of Steel Rope	m	60	
Dia. of Steel Rope	mm	22	
Wire-line Winch			
Single-Wire Hoisting Capacity	kN	15	1st Layer
Lifting Speed	m/min	130	1st Layer
Length of Steel Rope	m	2500	
Dia. of Steel Rope	mm	8	
Mud Pump			
Model	/	BW-320	
Max. Displacement	L/min	320	
Max. Pressure	MPa	10	
Orifice Clamp			
Applicable Rods	mm	BQ, NQ, HQ, PQ	
Via Diameter	mm	φ154	
Crawler Chassis			
Traveling Speed	km/h	1.5-2.5	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Working Dimensions	mm	6020×2475×14745	
Transport Dimensions	mm	8165×2530×3030	
Weight			
Main Machine	t	25	

FHC-800 Fully Hydraulic Core Drill Rig

The FHC-800 fully hydraulic core drill is mainly suitable for core drilling primarily using diamond and carbide bits, and is widely used in geology, metallurgy, coal, nuclear industry, hydrogeology and other industries.

- 1. The hydraulic system of the drill adopts a combination of open-loop circuit and electro-hydraulic control, ensuring stable and reliable system performance;
- 2. The power head adopts a chuck-type structure, featuring lateral translational function and two-speed mechanical transmission, both gears with infinitely variable speed control;
- 3. The feed system of the drill adopts a direct cylinder push structure, offering stable performance, large lifting capacity, and strong capability in handling accidents;
- 4. The mast is raised and lowered by hydraulic cylinders and is foldable for convenient transportation and storage, with a sliding ground-contact function;
- 5. Equipped with steel crawler tracks for traveling, and the traveling control can be selected from onboard control levers, wired remote control, or wireless remote control.



Item	Unit	Parameter	Remarks
Drilling Capacity			
BTW Rod	m	1200	
NTW Rod	m	1000	
HTW Rod	m	800	
PQ Rod	m	400	
Diesel Engine			
Model	/	WP4.1NG175E301	Wei Chai
Rated Power	kW	129	
Rated Speed	r/min	2200	
Drill Head			
Max. Rotary Speed	r/min	1100	
Max. Torque	N·m	2400	
Speed Range	r/min	318–618	Gear I
		570–1100	Gear II
Corresponding Torque	N·m	2400–1239	Gear I
		1343–690	Gear II
Spindle I.D.	mm	98	
Translational Distance	mm	400	
Feeding Mechanism			
Feeding Stroke	mm	3500	
Max. Lifting Capacity	kN	200	
Max. Feeding Power	kN	100	
Mast			
Total Height	m	8.4	
Adjusting Angle	°	0–90	
Drilling Angle	°	45–90	
Sliding Stroke	mm	725	
Main Hoist			
Single-Wire Hoisting Capacity	kN	69	1st Layer
Lifting Speed	m/min	40	1st Layer
Length of Steel Rope	m	50	
Dia. of Steel Rope	mm	16	
Wire-line Winch			
Single-Wire Hoisting Capacity	kN	12	1st Layer
Lifting Speed	m/min	130	1st Layer
Length of Steel Rope	m	1000	
Dia. of Steel Rope	mm	6	
Mud Pump			
Model	/	BW-160	
Max. Displacement	L/min	160	
Max. Pressure	MPa	10	
Orifice Clamp			
Applicable Rods	mm	BTW, NTW, HTW, PQ	
Via Diameter	mm	φ154	
Crawler Chassis			
Traveling Speed	km/h	1.5–2.5	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Working Dimensions	mm	4600×2000×8400	
Transport Dimensions	mm	5500×2000×2450	
Weight			
Main Machine	t	9.5	

PFH Series Portable Fully Hydraulic Drill Rig



Item	Unit	PFH-3	PFH-4	PFH-6	PFH-8
Drilling Depth					
BTW Rod	m	450	600	800	1000
NTW Rod	m	300	400	600	800
HTW Rod	m	150	200	400	600
Power Unit					
Diesel Engine Model	/	V1505-T	V1505-T	V1505-T	V1505-T
Power/Speed	kW/rp m	33/3000	33/3000	33/3000	33/3000
Qty of Diesel Engine	/	1+1	2	3	4
Total Power	kW	33+13.2 (mud pump)	66	99	132
Drill Head					
Type	/	Top Drive	Top Drive	Top Drive	Top Drive
Speed Range	r/min	0-1300	0-1300	0-1300	0-1300
Max. Torque	N·m	600	760	1170	1565
Feeding System					
Max. Lifting Capacity	kN	100	120	160	160
Max. Feeding Power	kN	50	62	80	80
Feeding Stroke	m	1.8	1.8	1.8	1.8
Drilling Angle	°	45-90	45-90	45-90	45-90
Hydraulic System					
Type	/	Open	Open	Open	Open
Rated Pressure	MPa	16	20	25	25
Mud Pump					
Model	/	BW100/6-X	BW100/6	BW100/6	BW100/6
Max. Flow	L/min	100	100	100	100
Max. Pressure	MPa	6	6	6	6
Steel Wire Hoist					
Max. Single-Wire Hoisting Force	kN	10	10	10	10
Dia. of Steel Rope	mm	6	6	6	6
Clamp					
Clamping Scope	mm	HTW/NTW/BTW	HTW/NTW/BTW	HTW/NTW/BTW	HTW/NTW/BTW
Hold Diameter	mm	134	134	134	134



Truck-mounted Core Drilling Rig

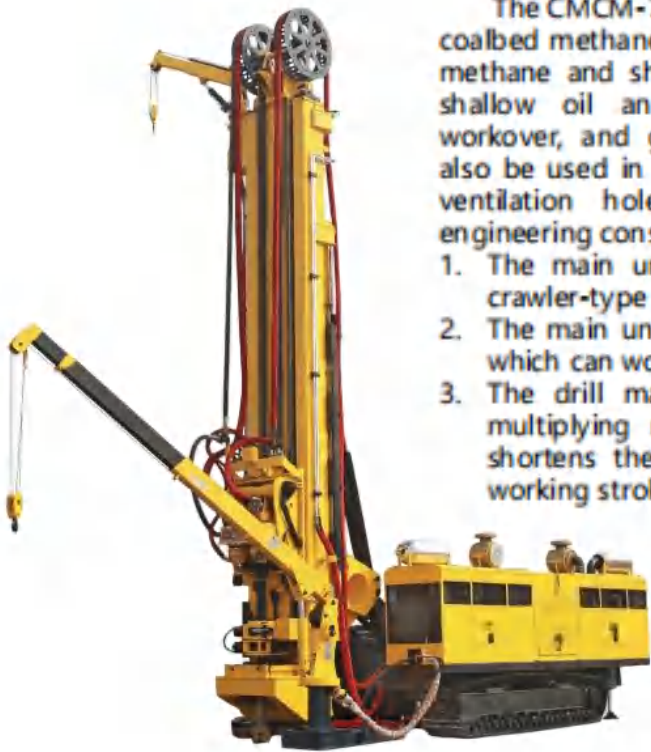


EDR Series Engineering Drilling Rig



Item	Unit	EDR-600	EDR-900	EDR-1200
Drilling Depth				
Drill rod spec: $\phi 89 \times 9600$	m	≤ 2200	≤ 3200	≤ 4200
Drill rod spec: $\phi 114 \times 9600$	m	≤ 1500	≤ 2200	≤ 2900
Drill rod spec: $\phi 127 \times 9600$	m	≤ 1100	≤ 1600	≤ 2100
Power Unit				
Rated Power	kW	276	276	276
Rated Rotary Speed	r/min	2100	2100	2100
Max. Drilling Diameter	m	2	2	2
Max. Lifting Force of Power Head	kN	600	900	1200
Max. Rotary Torque of Power Head	N·m	27000	27000	27000
Speed of Power Head	r/min	0-120	0-120	0-120
Max. Feeding Force of Power Head	kN	200	300	400
Power Head Feeding Stroke	m	7/14	7/14	7/14
Max. Torque of Shackle Device	N·m	40000	40000	40000
Max. Opening Dia. of Clamper	mm	220	220	220
Auxiliary Hoist Lifting Force	kN	30	30	30
Moving Speed	km/h	≤ 2.5	≤ 2.5	≤ 2.5
Climbing Capacity	°	≤ 30	≤ 30	≤ 30
Dimensions (L×W×H) – Working Status	mm	7000×3000×11200	7000×3000×11200	7000×3000×11200
Dimensions (L×W×H) – Transport Status	mm	10000×2500×3100	10000×2500×3100	10000×2500×3100
Total Weight	t	32	34	36

CMCM-750 Crawler-mounted Multi-functional Coalbed Methane Drilling Rig



The CMCM-750 crawler-mounted multi-functional coalbed methane drilling rig is mainly used in coalbed methane and shale gas exploration and production, shallow oil and natural gas drilling, petroleum workover, and geothermal well construction. It can also be used in engineering emergency rescue, mine ventilation holes, drainage pipelines and other engineering constructions.

- 1. The main unit adopts fully hydraulic drive and crawler-type chassis;
- 2. The main unit is powered by dual diesel engines, which can work simultaneously or independently;
- 3. The drill mast adopts a cylinder-chain speed-multiplying mechanism for mast jacking, which shortens the transport length and increases the working stroke;
- 4. The power head adopts a tiltable structure with a maximum upward tilting angle of 80°, and is equipped with a floating spindle structure as well as lateral translational function;
- 5. The wellhead is controlled by remote hydraulic operation and is equipped with a drill pipe make-up and break-out device;
- 6. The main unit is equipped with an onboard crane, facilitating on-site construction and reducing the labor intensity of construction personnel;
- 7. An independent control cabin enables remote operation, providing a superior working environment.

Item	Unit	Parameter	Remarks
Drilling Capacity			
φ89mm Rod	m	3200	
φ114.3mm Rod	m	2200	
φ127mm Rod	m	1600	
Diesel Engine			
Model	/	WP12.375	Weichai
Rated Power	kW	276×2	
Rated Speed	r/min	2100	
Drill Head			
Speed Range	r/min	0-85	Gear I
		0-170	Gear II
Max. Torque	kN·m	34	Gear I
		17	Gear II
Max. Screwing Off Torque (Reverse)	kN·m	42	
Spindle I.D.	mm	75	
Swing Angle	°	0-80	
Translational Distance	mm	850	
Feeding Mechanism			
Feeding Stroke	m	14	
Max. Lifting Capacity	kN	750	
Max. Lifting Speed	m/min	30	
Max. Feeding Power	kN	170	
Max. Feeding Speed	m/min	80	
Mast			
Total Height	m	19.5	
Adjusting Angle	°	0-90	
Drilling Angle	°	45-90	
Gas Testing Hoist			
Single-Wire Hoisting Capacity	kN	12	1st Layer
Lifting Speed	m/min	0-280	
Length of Steel Rope	m	1500	
Dia. of Steel Rope	mm	8	
Shackles			
Max. Screwing Off Torque	kN·m	70	Optional
Max. Screwing On Torque	kN·m	35	
Crane			
Single-Wire Hoisting Capacity	kN	30	Optional
Dia. of Steel Rope	mm	10	
Length of Steel Rope	m	120	
Mud Pump			
Model	/	BW-600	
Max. Displacement	L/min	600	
Max. Pressure	MPa	10	
Foam Pump			
Max. Displacement	L/min	1	
Hole Diameter of the Wellhead			
Max. Opening Diameter	mm	650	
Crawler Chassis			
Traveling Speed	km/h	1.2-2.4	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Working Dimensions	mm	9500×3200×19500	
Transport Dimensions	mm	13500×3200×3400	
Weight			
Main Machine	t	55	

TMCM-800 Truck-mounted Multi-functional Coalbed Methane Drill Rig

The TMCM-800 truck-mounted multi-functional coalbed methane drilling rig is mainly used in coalbed methane and shale gas exploration and production, shallow oil and natural gas drilling, petroleum workover, and geothermal well construction. It can also meet the needs of domestic ultra-deep hole core exploration drilling, and can be used in engineering emergency rescue, mine ventilation holes, drainage pipelines and other engineering constructions.

- 1. The main unit adopts fully hydraulic drive and a truck-specific chassis;
- 2. The drill mast adopts a cylinder-jacked wire rope speed-multiplying mechanism, which shortens the transport length and increases the working stroke;
- 3. The power head adopts a tiltable structure, and is equipped with a floating spindle structure as well as lateral translational function;
- 4. The wellhead is equipped with a drill pipe clamp and a make-up and break-out device.



Item	Unit	Parameter	Remarks
Drilling Capacity			
φ89mm Rod	m	3200	
φ114.3mm Rod	m	2200	
φ127mm Rod	m	1600	
Diesel Engine			
Model	/	KTA19-P700	
Rated Power	kW	522	
Rated Speed	r/min	1800	
Truck Chassis			
Model	/	WS5545H	
Driving Type	/	10×6	
Driven Power	kW	276	
Drill Head			
Speed Range	r/min	0-85	Gear I
		0-170	Gear II
Max. Torque	kN·m	20	Gear I
		10	Gear II
Spindle I.D.	mm	75	
Swing Angle	°	0-85	
Feeding Mechanism			
Feeding Stroke	m	15	
Max. Lifting Capacity	kN	800	
Max. Lifting Speed	m/min	22	
Max. Feeding Power	kN	160	
Max. Feeding Speed	m/min	55	
Mast			
Total Height	m	22	
Adjusting Angle	°	0-90	
Drilling Angle	°	45-90	
Hydraulic System			
Type	/	Open Type	
Displacement	L/min	2×130+2×100+2×60	
Pressure	MPa	32	
Auxiliary Winch			
Single-Wire Hoisting Capacity	kN	40	
Wellhead Opening Diameter			
Max. Opening Dia.	mm	800	
Crawler Chassis			
Traveling Speed	km/h	0-70	
Climbing Capacity	°	≤30	
Overall Dimensions (L×W×H)			
Transport Dimensions	mm	13800×2850×4250	
Weight			
Main Machine	t	54	



Auxiliary Accessories

Diamond Bit, Reaming Shell, Casing Shoe



Core barrel assembly



Overshot assembly



Core lifter,Core lifter case,Stop ring



Landing ring,Centralizer ring,Landing shoulder



Various types of subs,Recovery tools



Diamond circle wrench



Water swivel



Clamp



Casing clamp



Hoisting plug



Hydraulic mixer & Thread compound



Φ89×79×6000, Φ59×53×6000 Hexagonal kelly



Notes:

1. All product specifications are subject to change without prior notice.
2. The drilling depth (drilling capacity) of all drills may vary due to equipment operation and site geological conditions; the listed depths are for reference only.

Mud Pumps For Core Drilling

The BW series mud pumps are horizontal piston pumps, available in several structural configurations including single-cylinder, double-cylinder, triplex, single-acting and double-acting types. They are suitable for conveying flushing fluids such as mud or water during geological drilling operations, and are one of the main auxiliary equipment for core drilling, engineering investigation, hydrogeological well drilling, and oil and gas well drilling. They can also be used for conveying various media in fields such as petroleum, chemical, and food processing industries.



Model	BW-150, 150C, D, M	BW-250, 250C, D, M		BW-320, 320C, D, M		BW-300/12
Type	Single-Acting Triplex-Piston			Single-Acting Triplex-Piston		Single-Acting Triplex-Piston
Stroke (mm)	70	100		110		110
Liner Dia. (mm)	70	80	65	80	60	75
Pump Speed (min ⁻¹)	222, 130, 86, 57 / 183, 107, 71, 47	200, 116, 72, 42	200, 116, 72, 42	214, 153, 109, 78	214, 153, 109, 78	206, 151, 112, 82
Displacement (L/min)	150, 90, 58, 38 / 125, 72, 47, 32	250, 145, 90, 52	166, 96, 60, 35	320, 230, 165, 118	180, 130, 92, 66	300, 220, 160, 120
Discharge Pressure (MPa)	1.8, 3.2, 4.8, 7.0 / 2.3, 4.0, 6.0, 7.0	2.5, 4.5, 6.0, 6.0	4.0, 6.0, 7.0, 7.0	4.0, 5.0, 6.0, 8.0	6.0, 8.0, 9.0, 10.0	6.0, 8.0, 10.0, 12.0
Input Power (kW)	7.5	15		30		45
Suction Pipe Dia. (mm)	50	75				76
Discharge Pipe Dia. (mm)	32	50				51
Mass						
Pump (kg)		500		650		750
Group (kg)	516 (with electric motor)			1000 (with diesel engine)		
Depth Capacity	Diamond core drilling <1500 m	Diamond core drilling <1500 m; Conventional core drilling <1000 m		Diamond core drilling <1500 m; Conventional core drilling <1000 m		Diamond core drilling <1500 m; Conventional core drilling <1000 m; For trenchless drilling applications
Dimensions (mm)	1840×795×995	100×995×650		1280×855×750		2013×940×1130
Power Unit Type: C – Diesel Engine, D – Electric Motor, M – Hydraulic Motor						

TDR Series Trenchless Drilling Rig

- Trenchless drilling rigs are used for:
- Trenchless installation of municipal, electric power, telecommunications, water supply, gas, petroleum, natural gas, and heating pipelines;
 - Horizontal dewatering projects;
 - Environmental remediation projects (pollutant anti-seepage treatment);
 - Long-distance pipe roofing support projects;
 - Advance drilling for special foundation treatment and pipe jacking projects, etc.



Model FDP-25
Max. Pullback Force: 25 t



Model FDP-35/45
Max. Pullback Force: 35/45 t



Model FDP-48/96
Max. Pullback Force: 48/96 t



Model FDP-200/300
Max. Pullback Force: 200/300 t



Model FDP-400
Max. Pullback Force: 400 t



Model FDP-550
Max. Pullback Force: 550 t



Model FDP-1000
Max. Pullback Force: 1000 t



Model FDP-1500
Max. Pullback Force: 1500 t