

HF30+

Crawler lock rod rotary drilling rig

PERFORMANCE CHARACTERISTICS:

Adopting a hydraulic telescopic track chassis and heavy-duty rotary support, the overall stability of the machine is high. The rear single-layer rope main winch effectively solves the problem of wire rope wear and improves the service life of the wire rope. The hydraulic system adopts load-sensitive control and secondary flow control, making the hydraulic system more efficient and energy-saving. Install an infrared camera to observe the use of the main winch wire rope in and out of the cab. Equipped with a Cummins 154kW engine, it is energy-saving, environmentally friendly, and powerful.



Hydraulic distribution valve



plunger pump



Central slewing bearing

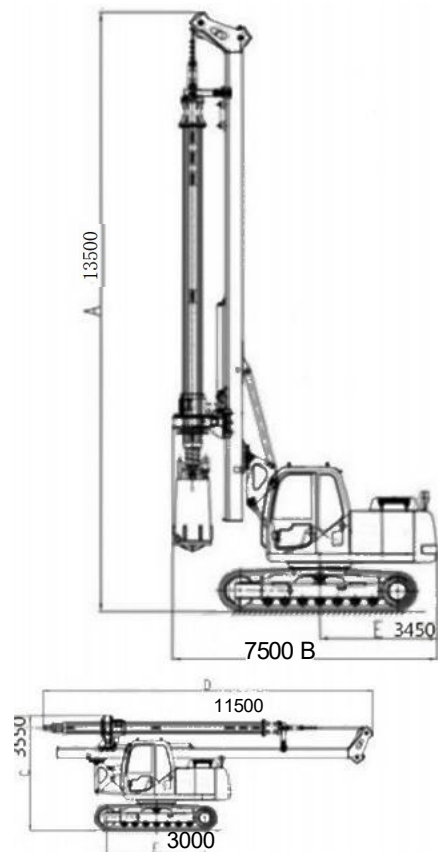
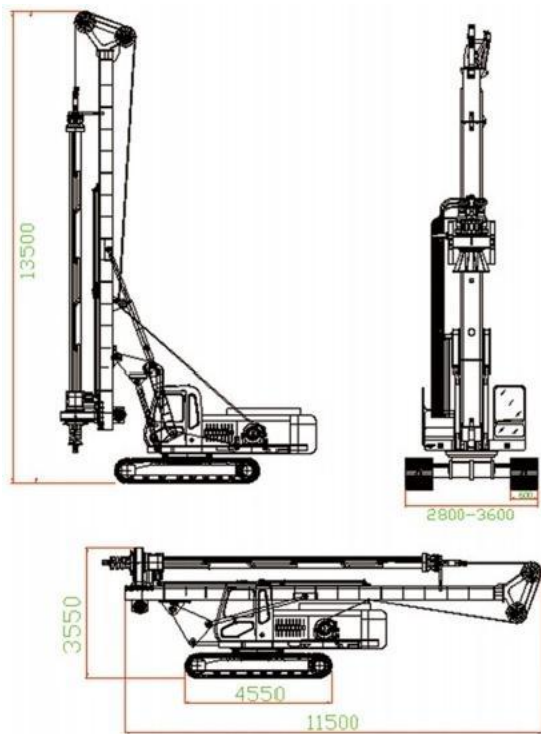


Rear single-layer rope main winch

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rotary drilling rig





Product Parameters

Drilling depth	30m (Also have models for 20m/40m/50m)	
Hole diameter	400-1500 mm	
Engine	Brand	Cummins
	Power	210HP
Power Head	Torque	100 - 130 kN • m
	Rotating speed	10 - 50 r/min
Main Winch	Maximum lifting force	150 kN
	Lifting speed	72 m/min
	Wire rope diameter	24 mm
Vice Winch	Maximum lifting force	40 kN
	Lifting speed	60 m/min
	Wire rope diameter	12 mm
Pressurized cylinder	Maximum pressure	100 kN
	Max pulling force	130 kN
	stroke	2500 mm
Walk	Walk speed	5 km/h
	Maximum grade	30°
System pressure		28 MPa
Weight		27T
Working Radius		3.8m
Shipping Dimensions (L*W*H)		11500*3000*3550mm
Working Dimensions (L*W*H)		7100*3000*16500mm

Accessory section

The drill pipe uses a retractable mechanism. Its function is to transfer torque and feed pressure to the lower end of the drill pipe to complete the pile hole formation. The drill pipe used by Hanfa Group is made of high-strength steel pipe, and the internal and external key bars are made of high-strength wear-resistant materials to ensure the efficiency of drilling construction, and bring a long service life and high reliability.



The machine lock drill rod is pressed downwards against the inner and outer layers of the key strip pressure surface with a large amount of pressure, suitable for drilling on hard surfaces. The drill pipe generally does not exceed 3-5 sections, and the drilling depth is within 50 meters. Before lifting the drill pipe with machine lock, the inner and outer key bars must be unlocked before lifting the drill pipe. It can be configured with drill pipes and tools suitable for various working conditions to meet the various needs of different users.

The square rod drill rod is suitable for drilling in ordinary soil layers, with high drilling efficiency in softer formations. The inner and outer layers are pressurized by oil cylinders, and the lifting and pressurization of the drill rod are relatively simple. It is generally composed of three drill rods, with a drilling depth of less than 20 meters, flexible operation, and high drilling efficiency.

Single point spiral drill bit



Applicable scope:

The soil layer, soft soil, backfill soil, and drilling tool unloading can be separated, resulting in higher efficiency.



Applicable scope:

Weathered bedrock, pebbles, soil.

Underreaming bit



Applicable scope:

Pile bottom expansion, soil layer hard bedrock, etc., to improve pile grouting. The bearing capacity of.

Pick core drill bit



Applicable scope:

Bedrock formations, boulder formations, etc. with higher hardness.

Double bottom open door sand hopper



Applicable scope:

Sand, silt, clay, loam, etc.



Applicable scope:

Weathered bedrock, frozen soil layer, hard soil layer, etc.

Technical features

Zhengzhou Hanfa Group's HF series piling rigs are the result of the company's many years of professional development in the production and research of pile driving machinery.

Widely digesting and absorbing advanced technologies at home and abroad, and relying on the company's engineering machinery manufacturing and production strength, the quality is excellent, the product reliability is high, and the application range is wide.

Chassis

The telescopic track chassis, designed and manufactured using advanced design solutions, has good quality, high strength, and can meet the requirements of work stability and transportation convenience.



Power head

Unique slewing bearing power mechanism with high output torque, long service life, and high work efficiency. The power head is equipped with shock absorption springs on both sides, which can effectively protect the power head.

Working device

The use of a parallelogram variable amplitude mechanism achieves a wide range of working areas. The mast is designed as a high-strength material box structure, with high strength and rigidity, effectively ensuring drilling accuracy. Each hinge part adopts high-strength shaft sleeves, which are durable and flexible to rotate.



Important matching components

The core hydraulic components adopt branded matching, with reliable quality, stable performance, sufficient supply of goods, and easy availability of spare parts.

