



## MAIN FEATURE

- 01 The drilling rig selects the chassis of China Dongfeng special vehicle, and the transfer case, main drive system, gearbox, double winch unit, mud pump, turntable, drilling tower, wire rope feeding mechanism, etc. are all installed on the vehicle chassis;
- 02 The drilling rig uses rotary mud positive circulation drilling as the main drilling method. It is equipped with a BW850/2A mud pump. The mud is used as a flushing fluid. Reverse circulation drilling is realized through high-pressure pumping of the vacuum pump. It can also be adapted to other drilling tools if equipped with appropriate drilling tools. Drilling technology can be drilled in various formations such as clay, sand and bedrock;



## Main technical parameters

Model	HF-150	HF-200	HF-250
Drill hole depth(m)	≤180	≤200	≤300
The hole diameter(mm)	350-1800	450-2000	450-2500
Spindle speed(r/min)	11	11	9
Spindle power(kw)	11	(5.5-7.5)*2	(7.5-11)*2
The spindle torque(N*m)	12000	12000	20000
Hoist lifting force(single rope)	3000×6 kg	3000×6 kg	3000×6 kg
Traffic(m <sup>3</sup> /h)	300	500	600
Power(kw)	22	30	37
The rated voltage(V)	380	380	380
Rated current(A)	90	115	135
Rated speed(r/min)	1500	1500	1500r/min
Rated power(kw)	50	64	75
Main power supporting power	4105-6105 Diesel	4105-6105 Diesel	6110 Diesel
Overall dimensions(mm)	9200×2500×3500	9200×2500×3500	9200*2500*3500
Single weight(t)	12	13	15

The drilling rig is equipped with a hydraulic hoist, a tower pulley block, and an auxiliary pressurizing device on both sides of the faucet. It can assist pressurized drilling when encountering mudstone, strong weathering, bedrock and other strata structures, and improve the efficiency of hole formation;

The main drive of the drilling rig is mechanical transmission, the rig is lifted, six legs are balanced, four leveling legs are hydraulically controlled, two mechanical legs, transfer box, and mud pump

## HF (150/200/250) REVERSE CIRCULATION DRILLING RIG

The impact frequency of reverse circulation rig is 40 times /min, the main and the auxiliary hoisting capacity is 30kN, the motor power is 45kW, not include 6BS pump. The weight of the shot bit is 4T, and it equipped with overall cast-iron, has impact resistance, stronger impact force, high drilling efficiency, used for drilling hole diameter 800-1500mm. The main and the auxiliary hoisting capacity of reverse circulation rig is 50kN, maximum drilling hole diameter is 2.0m and drilling hole depth is 80m, lifting stroke of hoist is 1.5-3.0m, main power is 75kW. The reverse circulation pump unit is 3PNL and 6BS pump, can be equipped with hydraulic step displacement. In addition to the impact of the drill tip wear-resistant materials, the remaining 50mm welded steel plate, can also be equipped with a variety of specifications drill. It is suitable for complex foundation engineering construction, such as soil layer, cemented gravel and rock socketed, and it is widely applied to bridge bored pile and underground diaphragm wall foundation engineering.