

## GJ-180 Portable Hydraulic Geological Engineering Drilling Rig



### Application

GJ-180 Portable Geological Engineering Drilling Rig is mainly used for engineering geological investigation, foundation piling for small scale building. Shallow water well drilling, geophysical exploration.

### Main Features:

1. Large rotary torque, multistage gears and reasonable speed range can be applied in many

drilling and stratum requirement

2. Equipped with dual power systems of electrical motor and diesel engine which can be used in both wild and urban areas.
3. Light weight, good detachability, easy to move, assembly and maintain
4. Advanced design ,reasonable arrangement, easy to maintain and repair.
5. Spindle stroke is 456mm,it is good to improve drilling efficiency,decrease blocking and burning
6. Model GJ-180S and GJ-180A can be switched for usage only in exchange of gyrator to realize multi ranges and even diamond core drilling.

#### Technical Data

Description/Model	GJ-180S			GJ-180A		
Drilling pipe diameter (mm)	42			50		
Initial hole diameter (mm)	150	325	600			
Final hole diameter (mm)	750	219	600			
Hole depth (m)	180	85	30	180	85	25
Angle	0-90° (swiveling head is 360° )					
Rotary speed (r/min)	Forward	43 76 137 191 339 612			59 104 188 263 466 841	
	backward	32 143			44 196	
Feed stroke of Vertical spindle (mm)	450					
Max Torque (N.m)	2121			1545		
Feed pressure (KN)	22					
Max pull force (KN)	27.8					
Max Lifting force of Hoist single rope (KN)	15					
Hoist line lifting speed (m/s)	0.49 0.79 1.34					
Steel wire rope volume (m)	20 ( approx)					
Steel wire rope diameter	Φ 9.3					
Oil pump type	Gear pump					
Working pressure (Mpa)	6.3					
Rated pressure (Mpa)	16					
Rated speed (r/min)	2000					
Hydraulic movement amount	350					
Power	Electrical motor/Power(KW) Y160M-type 4/11					
	Diesel engine/Power ZS1150/ 13.2					
Weight(without power) kg	620					
Overall dimension (Electrical motor)	1650x1100x1250					
Overall dimension (Diesel engine)	1650x1110x1250					