

## **GL-6000 Full Hydraulic Jet Grouting Anchor Engineering Drilling Rig**

GL-6000 full hydraulic jet grouting DTH anchor engineering drilling rig can be used for tungsten-carbide drilling, auger drilling, down-hole drilling, drilling with casing tube, rotating-jet and other drilling methods with jet grouting, anchoring, casing and DTH drilling technique in multi-angle.

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### **Application**

GL-6000 full hydraulic jet grouting DTH anchor engineering drilling rig can be used in the following projects: tunnel pipe-shed, deep excavation anchoring projects, road and dam consolidation projects, holes for ground-source heat pump, hydrological and well drilling, foundation piles and geological disasters control projects, etc.

### **Features**

1. With multi-directional change-range mechanism, convenient to drill a series of holes
2. with different heights and angles at the same position;
3. High rotary torque and longer stroke, high drilling efficiency;
4. With track chassis and rotary device, easy and speedy to move;
5. With hydraulic rod clamp and twist device, reduce auxiliary operation time and labor intensity;
6. The major components in hydraulic system adopt the imported brand with a stable,
7. reliable system, and they all have a long service life;
8. Top-drive head driven by hydraulic, Continuously Variable speed regulation;
9. Variable hydraulic system with load feedback, low energy consumption;
10. With display unit for rotating speed of top-drive head, lift speed and verticality of derrick, quickly and accurately to fix position;
11. Provide different top-drive head types, meet varying drilling technology;

### **The main unit performance:**

1. The hydraulic system adopts the direct dynamic fine-tuning variable load feedback system;
2. The main valve adopts the **Italian Bloch pooh** brand;
3. The main hydraulic pump is **Italy Lishile joint** technology;
4. Walking motor uses the **South Korean brand**;
5. Equipped with hydraulic gripper, which can automatically remove the drill pipe.

### Technical data

Drilling depth	50-200	
Hole diameter	φ 110-φ400mm	
Rod dia *length	(φ 60-φ89)*2500mm	
Top-drive head speed	low:8-36r/min high:16-72r/min	
The highest speed (with high-speed power head)	280r/min	
Torque of top-drive head	6000N.m-3000N.m	
Stroke of top-drive head	3000mm	
Feed thrust force of top-drive head	58kN	
Pull force of top-drive head	110kN	
Column slipping stroke	1200mm	
Column pitch angle	120°	
Column swing angle	0-90° or ±40°	
Drill boom pitch angle	elevation:35°	angle of depression:16°
Height of horizontal hole	high:3450mm	low:338mm
Hydraulic system rated flow	the main pump:100L/min; the deputy pump:30L/min 15L/min	
Hydraulic system rated pressure	the main pump:21MPa; the deputy pump:18MPa	
Moving speed	low speed:2.6km/h	high speed:5.06km/h
Climbing capacity	20°	
Power	motor 45kW	diesel engine:56kW

Dimensions	(L*W*H)(5.6m*2m*2.93m)
Weight	7900kg

