



## **GL-6000 Full Hydraulic Crawler Multifunctional Use Widely Engineering Drilling Machine**

### **1) Introduction of GL-6000 Drilling Machine**

**GL-6000 type full hydraulic crawler multifunctional use widely engineering drilling machine** can be used for **tungsten-carbide drilling, auger drilling, down-hole drilling, drilling with casing tube, rotating-jet and other drilling methods**. It 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.**



### **1. Features of GL-6000 Drilling Machine**

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

### **2. The main unit performance:**

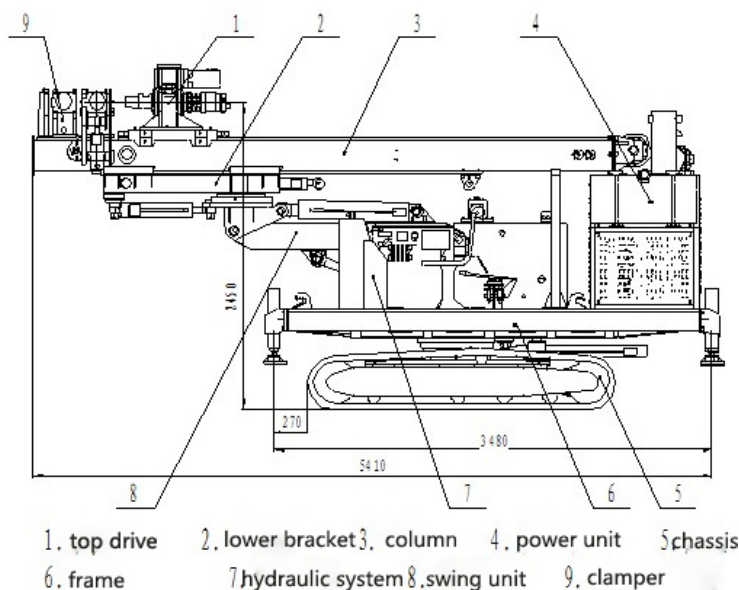
1. The hydraulic system adopts the direct dynamic fine-tuning variable load feedback system;

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

### 3. Main specifications of GL-6000 Drilling Machine

<b>Drilling depth</b>	<b>50-200m</b>	
<b>Hole diameter</b>	<b>Φ110-Φ400mm</b>	
Rod dia. length	(Φ60-Φ89)x2500mm	
Top-drive head speed	Low: 8-50.6r/min	High: 16-101r/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 °	Depression angle: 16°
Height of horizontal hole	High: 3450mm	Low: 450mm
Hydraulic system rated flow	Main pump: 100L/min	Minor pump: 30L/min 15L/min
<b>Hydraulic system rated pressure</b>	Main pump: 21MPa	Minor pump: 18MPa
Moving speed	High: 5.06km/h	Low: 2.6km/h
Climbing capacity	20°	
<b>Power</b>	<b>Electric motor: 55kw</b>	<b>Diesel motor: 56kw</b>
Dimension(L*W*H)	5.6mx2mx2.93m	
Weight	7900kg	

#### Drilling machine structure(when being transported)



#### 4. Application: Construction site







