

## OS-50 HORIZONTAL DIRECTIONAL DRILLING RIG



### Diesel Engine

The diesel engine, board is STEYR-weichai.  
Six-cylinder turbocharging, water cooled  
Displacement: 9.726 L  
Power: 330 HP  
Rotate speed: 2 200 RPM



### Hydraulic System

OS50 is equipped with piston variable pump and proportional valve. Beside this, the open-type system drives efficient hydraulic system. This makes it high-efficiency, stable and has heavy load capacity. The American piston variable pump and proportional valve of Sauer-Danfoss is with high quality and has great load capacity.



### Torque and feed back to limit of carriage

The OS50 could limit its torque and feedback of carriage. The operator could control its maximum torque and push-pull effort. This kind of design greatly ensures operator's security and improves efficiency of construction.



### Rod support

The OS50 has two sets of devices used for supporting rods. This structure together with hoist could greatly decrease time loading and unloading rods. At the same time, the machine is also equipped with safety devices. This design ensures the carriage and supporting devices could work independently..



### Track

OS50 is also equipped with standard excavator chasis, and powerfull motor from South Korea with original packaging. As for standard excavator mechanism, that is stable and convenient for maintenance. Maximum moving speed: 3Km/h  
Maximum climbing angle: 20°



### Carriage

OS50 uses patented machinery, which is with 2 gear shift mechanism. Besides, the hydraulic transmission band 2 makes carriage with 4 gears speed change. Assembled with Poclain rotary motor which has a high torque at low speed produced by France, with a highest rotate speed of 180 rpm. This large selectivity makes construction more fast and convenient, and because it could choose suitable rotational speed and torque in accordance with formation changes and process. The push and pull system adopts gear and rack system, through a dedicated reducer makes maximum push and pull power reach to 55 tone.

### Power winch

OS50 is equipped with powerful power winch whose maximum torque is 50 000Nm and the screw on torque is 26 000Nm.



### Mast sliding device

The patented mast sliding device could fix a specific drilling angle and at the same time slip freely, which makes anchor plate fixed stably.



### TECH Data

Diesel Engine	
Model	STEYR-Weichai WD615, Turbocharging
Displacement	9.726L
Power	243Kw

Carriage	
Spindle speed	0-180 RPM
Carriage thrust/pullback travel speed	0-24 m/min
Thrust / Pullback force	500 KN
Spindle torque	26 000 Nm

Angle of drilling	7.5-16°
Drilling fluid flow	600L/min
Drilling fluid pressure	12 Mpa
Drilling rod	Φ89×4500

Dimensions	
Overall machine L×W×H	9200×2500×3080mm
Drilling unit operating mass	23 000Kg

