

**FORWARD**

UNCE WELL OS 50  
HORIZONTAL DIRECTIONAL DRILLING RIG



**FORWARD**  
**DRILLING EQUIPMENT**



## OS.50 Horizontal Directional Drilling Rig

OS.50 Horizontal Directional Drilling Rig is developed by the FORWARD Group primarily for the Asian Market.

Like all FORWARD machines, the OS.50 is manufactured using high-quality hydraulic components and offers hydraulic drive with huge power, using European and the United States of America brands.

The OS.50 machine is equipped with a variety of safety and protective measures for maximum ease and safety of operation and system reliability. The Operator console can rotate which gives better operator visibility, comfort and efficiency.

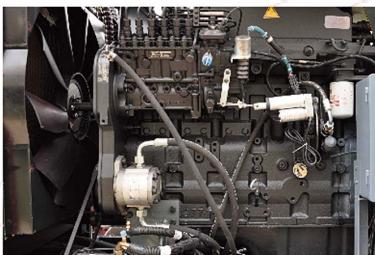
This Horizontal Directional Drilling Rig is compact in size allowing maximum working efficiency in even the smallest confined work-site area.

The FORWARD commitment to operator training and after sales service means that every local distributor works under the strictest factory guidance and training system.

The OS50 Horizontal Directional Drilling Rig is ideal for Infrastructure Installation under Roads, Railway Lines, Buildings, Heritage Structures and Protected Natural Areas where Open Cut Excavation is not possible.

Many Industries are using Horizontal Directional Drilling Technology for Installation of Steel or HDPE Pipes, Cables and Conduits for Water, Oil & Gas, Electricity and Telecommunications.

Make FORWARD Manufactured Horizontal Directional Drilling Rigs your first choice.



## Diesel Engine

Cummins Diesel Engine, is dependable and reliable, this engine is renowned for its low wear and is easily adapted in even the toughest working environments.



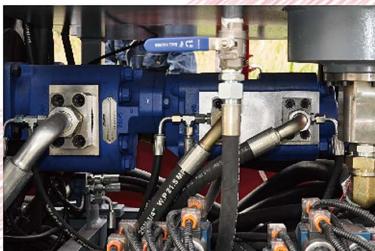
## Automatic Rod Handling Arm

The Automatic Rod Handling Arm system lifts each rod into the Rod Loading position for better Safety and speed of Rod Changing operation.



## Carriage

Carriage, Push and Pull-Back System utilizes a gear and rack (rack and pinion) system. Through a powerful reducer it can achieve maximum pushing and pulling power of 45 tonnes.



## Hydraulic System

All Hydraulic Parts are made in Europe or USA providing high quality and maximizing load capacity.



## Clamp

The Open Design means easier clamping to make Drill Rod Changing and Rod Break-Out much safer and easier.



## Track

OS.50 is equipped with a standard Excavator Chassis, with a Powerful Motor made in South Korea. This Excavator Mechanism is stable and strong for better manoeuvring and convenient maintenance.

## UNCE WELL OS 50 HORIZONTAL DIRECTIONAL DRILLING RIG Main Technical Characteristics

Diesel Engine				
Model			Cummins 6BTA8.3-C260	
Power			194KW	
Rotation				
Gears		2		
	Low Speed	Speed of Rotation	60 RPM	
		Torque of Spindle	16 000 Nm	
	High Speed	Speed of Rotation	120 RPM	
		Torque of Spindle	8 000 Nm	
Thrust and Pullback				
Move Speed			2	
	Low Speed	Force of Thrust	500 KN	
		Force of Pullback	500 KN	
	High Speed	Force of Thrust	250 KN	
		Force of Pullback	250 KN	
Other Parameters				
Drilling Angle			0–18°	
Power Winch	Jaws Clamping Spindle Torque	16 000 Nm		
	Jaws Reducing Spindle Torque	32 000 Nm		
Mud Pump	Maximum Capacity	450 L/min		
	Maximum Pressure	8 Mpa		
Drill Rod	Length	3 000mm		
	Rod Lock	Φ 92 mm		
	Rod Body	Φ 83 mm		
	Max Bending	8%		
	Weight	58kg		
Type of rod feeding (optionally)			Automatic rod hand/Rod handle/none	
Total Weight			12 500 Kg	
Dimensions (L×W×H)			6600×2250×2400mm	
Hydraulic anchor system			Optionally	
Rod box with rod feeding system			Optionally	