



## OS35 Horizontal Directional Drilling Rig

OS35 Horizontal Directional Drilling Rig is developed by the FORWARD Group primarily for the Asian Market.

Like all FORWARD machine, the OS35 is manufactured using high-quality hydraulic components and offers hydraulic drive with huge power, using leading European and the United States of America branded components.

The OS35 machine is equipped with a variety of safety features and protective measures designed to maximize safety of and offer easier operation with better system reliability. The operator console can rotate which gives better operator visibility, comfort and efficiency.

The 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 OS35 Horizontal Directional Drilling Rig is ideal for the installation of Infrastructure under busy roads, waterways, railway lines, buildings, heritage sites and environmentally sensitive areas where open cut excavation is not possible.

Many industries are using horizontal directional drilling technology for installation of steel or HDPE pipe, cables, and conduits for water, oil and gas, electricity and telecommunications.



**Diesel Engine**  
Cummins 6CTA8.3-C240 diesel engine, 178Kw, which is durable and reliable, the engine is renowned for its low maintenance and is easily adapted in even the toughest working environments.



**Hydraulic System**  
All Hydraulic parts are from Europe or U.S.A providing high quality and maximizing load capacity.



**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 36 tons.



**Bigger Drilling Angle**  
A special mast support not only has up to a 30° drilling angle, but also is more convenient especially when the rig is being transported.



**Rod Feed System**  
The rig is equipped with a rod box, rods can be loaded the from the bottom making Rod Feed when Drilling and Pull-Back more efficient and convenient. Optional Hydraulic Rod Lifting Arm or Manual Load Rod Systems are also available.



**Rotatable Operator Seat**  
Rotating operator seat console, not only more convenient, but also offers better view of the drilling operation



**Hydraulic Power Clamping System**  
The open & rotating design means easier power-clamping making drill rod changing and rod break-out much safer and easier.



**Unit Mud Pumping System**  
Designed with a new ceramic liner insert for longer wear due to its smoother surface and allows for maximum pressure or maximum volume during the drilling process



**Track Crawler System**  
The OS35 is equipped with a standard excavator chassis, with a powerful motor made in South Korea. This excavator mechanism is stable and strong for better maneuvering and more convenient maintenance. With dual-speed control, can cross a variation of terrains.

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## FORWARD OS35 HORIZONTAL DIRECTIONAL DRILLING RIG Main Technical Characteristics

		Diesel Engine	
Model	Cummins 6CTA8.3-C240		
Power	178 Kw		
		Rotation	
Gears	Low Speed	Speed of Rotation	60 RPM
	High Speed	Torque of Spindle	15 000 Nm
	High Speed	Speed of Rotation	120 RPM
		Torque of Spindle	7 500 Nm
		Thrust and Pullback	
Move Speed	Low Speed	Force of Thrust	350 KN
		Force of Pullback	350 KN
		Force of Thrust	175 KN
	High Speed	Force of Thrust	175 KN
		Force of Pullback	175 KN
		Other Parameters	
Drilling Angle	0-30°		
Power Winch	Jaws Clamping Spindle Torque	15 0 00 Nm	
	Jaws Reducing Spindle Torque	30 000 Nm	
Mud Pump	Maximum Capacity	320 L/min	
	Maximum Pressure	8 MPa	
	Length	3 000mm	
Drill Rod	Rod Lock	Φ83 mm	
	Rod Body	Φ73 mm	
	Max Bending Capacity	5%	
Total Weight	9 500 Kg		
Dimensions (L×W×H)	6200×2200×2100mm		
Hydraulic anchor system	Optional		
Automatic drill rod feeding system	Optional		
Operator Cabin	Optional		

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**FORWARD****DRILLING EQUIPMENT****OUNCE WELL****FORWARD GROUP**

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