



FOREMOST
MOBILE EQUIPMENT

EXPLORATION DRILLS

FROM CONCEPT **TO REALITY**

Foremost prides itself in being an engineering-focused company. As a leader in innovative and long-lasting products for many industries, Foremost has a large engineering group with multidisciplinary expertise in off-road vehicles (tracked and wheeled), drilling rigs (oil and gas, construction, water well, mineral exploration), drill components (hydraulic and electric top drives, coiled tubing injectors, automated pipe handling systems) with all in-house design in structural (including FEA studies), mechanical (including CAD simulations), industrial hydraulics, electrical, and controls (including PLC systems) to API 8C and 4F standards.

A HISTORY OF **PERFORMANCE & INNOVATION**

Since 1965, the Foremost name has been associated with our remarkable line of off-road tracked and wheeled vehicles. Early innovations like the Nodwell 110, developed for the Canadian Arctic in the 1960s, set Foremost on the road to success. Foremost is one of the largest, most geographically diverse industrial manufacturers in Western Canada specializing in oil & gas, heavy oil, mining, waterwell, construction, off-highway vehicles, and vac truck equipment. In addition to a wide range of established product lines from oil treaters to drilling rigs, Foremost has the expertise and resources to custom engineer equipment to suit unique customer requirements.

For over 50 years, Foremost has been a leading manufacturer, innovating solutions for the resource industry.





THE FOREMOST SUPPORT VEHICLE COMPLETES THE PACKAGE

Being self-contained on a drill saves time and money!

The Support Vehicle provides the ability to move the necessary extra pipe, water and fuel to the drill hole, covering the same ground as the drill. Long life of the Support Vehicle is assured by using many of the same unique design features and reliable components as our Exploration Series drills.

EXPLORATION SERIES ADVANTAGES

- Exploration with small drilling pads or without roads
- Low environmental impact
- Excellent stability while driving
- Set up quickly & easily
- On-board pipe tub makes the rig self-contained for operation on drill sites where there is no room for a support vehicle

OUTFIT YOUR RIG TO MEET YOUR REQUIREMENTS

- Choice of reverse circulation drill pipe and sizes
- Optional sampling cyclone to safely monitor and collect cuttings
- Available hydraulic pipe handler arm for semi-auto handling of tubulars to increase productivity, reduce labour and enhance operator safety

SUPPORT VEHICLE SPECIFICATIONS

- Minimum horsepower rated at 325hp (243 kW)
- Eaton 9-speed transmission
- Planetary final drive
- 23.5 X 25 16PR tires
- Wet disc brakes
- Articulated frame
- 900 gallon (3,410 L) water tank
- Two 100 gallon (379 L) fuel tanks
- Storage for 70 pieces of 4 in x 10 ft (10.2 cm x 3m) R/C pipe
- Steel plated cargo deck with wood planking

DIMENSIONS

Length	32 ft 4 in (9.9 m)
Width	9 ft 6 in (2.89 m)
Height	11 ft 2 in (3.38 m)

WEIGHT

Net weight	34,500 lbs (15,700 kg)
Gross vehicle weight	56,500 lbs (25,500 kg)

EXPLORER 1500



CLIMB STEEP SLOPES AND CROSS TOUGH TERRAIN WITH MINIMAL ENVIRONMENTAL DISTURBANCE

Like all Foremost Exploration Series drills, the Explorer 1500 incorporates proven reverse circulation components and provides excellent mobility over marginal terrain.

Large terra tires minimize ground pressure and environmental impact, making the Explorer 1500 the ideal machine for the early stages of exploration where roads are not built and even small environmental damage must be restored. The rubber tires also enable the Explorer 1500 to travel at reasonable speeds between different mine sites or holes.

The integral Foremost designed carrier features a hydraulic leveling deck for safe operation on sloped terrain. The front dozer blade aids in quick site preparation and in stabilizing the rig during drilling operations.



PROSPECTOR W750

MOBILE. VERSATILE. ECONOMICAL.

The Prospector W750 is all of the above and more. Incorporating proven reverse circulation components, the Prospector W750 is designed to meet the high demands of the mining driller.

Built on a proven Foremost articulated carrier, the Prospector W750 is highly mobile in off-road applications. In addition, it is capable of on-road speeds up to 22 mph (35 km/h). On road or off, the result is quick mobilization between holes or mine sites. Reduced travel time means increased drilling productivity.

The Prospector W750 is a versatile machine: The low pressure terra tires allow it to travel to remote sites with minimal environmental impact. The unique mast pivots laterally through 180 degrees for increased productivity when drilling in the pit or against a wall.

The Prospector W750 is the most economical of Foremost's Exploration Series drills and delivers excellent value.



DISCOVERER MPD 1500

THE LEADER IN TRACKED OFF-ROAD EXPLORATION DRILLING

The Discoverer MPD 1500 offers the same drill components and specifications as the Explorer 1500 with the added benefit of a tracked undercarriage.

The MPD 1500's tracked configuration provides the ultimate in climbing ability on steep grades and side slopes. Like its terra-tired sibling, the MPD 1500 comes equipped with a hydraulic leveling deck and front dozer blade.

The optional sampling cyclone enables safe monitoring of cuttings and collection of samples.



SPECS & PERFORMANCE

	EXPLORER 1500	PROSPECTOR W750	DISCOVERER MPD 1500
Rotary Head Stroke	23 ft (7 m)	22 ft 1 in (6.7 m)	23 ft (7 m)
Compressor Drive	Clutch off deck engine	PTO from transfer case	Clutch off deck engine
Chassis Feature	Hydraulic deck leveling (0-20°)	Mast rotates 180° for side drilling	Hydraulic deck leveling (0-25°)
Cab	Enclosed - 3 person	Open - 1 person	Open - 1 person
Steering	40° frame articulation	42° frame articulation	Hydrostatic track
Turning radius	28 ft 8 in (8.7 m)	25 ft 9 in (7.9 m)	Pivot
Tires/Undercarriage	66 x 43 - 25 Terra	23.5 x 25 Sure Grip 66 x 43 - 25 Terra	Cat 325 tracks
Ground Pressure	*24.2 psi (1.7 kg/cm ²)	*35.5 psi (2.5 kg/cm ²) w/23.5 x 25 tires *22.2 psi (1.6 kg/cm ²) w/66 x 43 tires	**8.9 psi (0.6 kg/cm ²)
Maximum Speed	10 mph (16 km/h)	22 mph (35 km/h)	2.5 mph (4 km/h)
Dimensions			
Length	37 ft 4 in (11.4 m)	46 ft (14.4 m)	34 ft 9 in (10.6 m)
Height (mast down)	12 ft 10 in (3.9 m)	12 ft 1 in (3.7 m)	13 ft 7 in (4.1 m)
Height (mast up)	35 ft (10.7 m)	30 ft 8 in (9.3 m)	35 ft (10.7 m)
Width	11 ft 4.5 in (3.47 m)	9 ft 6 in (2.9 m) w/23.5 x 25 tires 11 ft 7 in (3.5 m) w/Terra tires	9 ft 11.5 in (3.0 m)
Weight	58,500 lb (26 590 kg)	53,270 lb (24 160 kg)	64,000 lb (29 090 kg)
		* 3 in penetration	** 1 in penetration

COMMON DRILL SPECS*

- **Pulldown - 16,500 lbs (7 500 kg); 0 - 138 ft/min (0 - 42 m/min)**
- **Pullback (hydraulic cylinder & cable) - 37,700 lbs (17 100 kg); 0 - 90 ft/min (0 - 27 m/min)**
- **Top drive rotary torque (dual motors) rated at 5,000 lb ft (6 780 Nm) 0 - 120 rpm**
- **Rated drilling depth - 1,500 ft (455 m) using 3 3/4 in (9.5 cm) R/C pipe**
- **Minimum horsepower rated at 470 hp (352 kW)**
- **Rexroth piston pumps**
- **Water injection system - 10 or 20 gpm (37.9 or 75.8 l/min)**
- **Hydraulic breakout wrenches**
- **Compressor - 900 cfm @ 350 psi (25.5 m³/min @ 2 414 kPa)**
- **0 - 45° angle drilling**
- **Tip-out rotary drive**
- **On-board pipe rack**

**Please consult factory for custom requirements.*



1225 - 64th Avenue NE, Calgary, Alberta, Canada
1.403.295.5800 (Worldwide) 1.800.661.9190 (Canada/U.S.A.)
sales@foremost.ca • www.foremost.ca

DESIGN. BUILD. PERFORM.
Engineered solutions for the resource industry.