



UNIVERSAL

HORIZONTAL DIRECTIONAL DRILLING



MID-RANGE CLASS

UNI 45x60
UNI 60x70

Power

High drilling forces and fast cycle times maximize productivity without compromising controllability. Turbocharged John Deere engines give higher power and maintain strong performance during most demanding working cycles. High drilling forces give power through even the most compacted and rocky ground with smooth control and responsive hydraulics that deliver productivity that our customers demand.

Design

The UNI 45x60 and UNI 60x70 deliver high performance with outstanding versatility. Optional spacious cabin with joystick control keeps you comfortable throughout the work day, allowing you to get more done. The Rod Loader System delivers fast loading and unloading of drill stems with superior control. Intuitive operator's controls are easy to use for greater job accuracy and efficiency.

Hydraulic System

Smooth responsive hydraulic system gives the level of control demanded by the customer in any application, from drilling in sand to rocky soil. Double Rack & Pinion design combined with fast and powerful Rineer motors result in world class productivity and performance.

Service

Robust, reliable and easily serviceable are the key attributes of any Universal HDD's rig. Full steel body cover protects from potential damage to key components. Easy access to all daily service points are accessed through the rear hood and side covers.

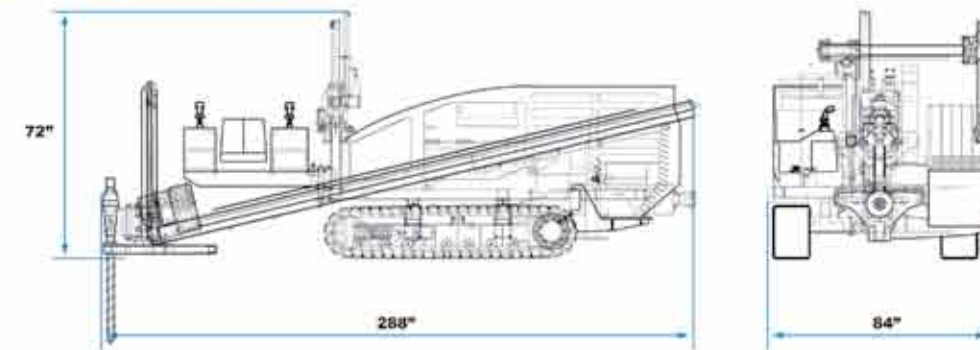
Ergonomic Layout

The controls and layout of the cabin are designed to make it as easy to operate. Quick, easy to read and simple to operate, the controls and gauges on all Universal HDD's rigs allow the operator to concentrate on production.





Integrated MDF
 Integrated inside a cabin, DigiTrak MDF display provides necessary data transmitted by a sonde. The Multi-Function Display can accept and display telemetry signals from 5* different DCI manufactured receivers: Eclipse™, Eclipse®, LT2™, Mark III, and Mark V.



	UNI 45x60		UNI 60x70	
Specification	U.S.	Metric	U.S.	Metric
Thrust Force:	45,000 lbs	20.4 ton	60,000 lbs	27.2 ton
Pullback Force:	45,000 lbs	20.4 ton	60,000 lbs	27.2 ton
Rotation (Low):	110 rpm		85 rpm	
Rotation (High):	220 rpm		170 rpm	
Torque (Low):	6,000 ft-lb / 7,000 ft-lb ¹	8,135 N-m / 9,491 N-m ¹	7,000 ft-lb	9,491 N-m
Torque (High):	3,000 ft-lb / 3,500 ft-lb ¹	4,067 N-m / 4,745 N-m ¹	3,500 ft-lb	4,745 N-m
Entry Angle:	10-18 degrees		10-18 degrees	
Engine:	John Deere		John Deere	
Fuel:	Diesel		Diesel	
Gross Power:	155 hp (Turbo) / 170 hp (Turbo) ¹	115.5 N-m (Turbo) / 126.7 N-m (Turbo) ¹	170 hp (Turbo)	126.7 N-m (Turbo)
Rod Length:	10 ft	3.04 m	10 ft	3.04 m
Rod Diameter:	2.875 inch	7.3 cm	2.875 inch	7.3 cm
Rod Basket:	40		40	
Rod Loader:	Automatic Over-the-Top		Automatic Over-the-Top	
Mud Pump:	Kerr		Kerr	
Flow Rate:	1,200 psi	82.73 bar	1,200 psi	82.73 bar
Pressure Rate:	105 gpm / 170 gpm ¹	397.4 l/min / 643.5 l/min ¹	180 gpm	681.3 l/min
On-Board Locating System:	DCI		DCI	
Integrated MFD:	☐		☐	
Length:	256 inch	650.2 cm	260 inch	660.4 cm
Width:	87 inch	220.9 cm	87 inch	220.9 cm
Height:	72 inch	182.8 cm	72 inch	182.8 cm
Weight:	17,700 lb	8.02 ton	18,500 lb	8.39 tonzt

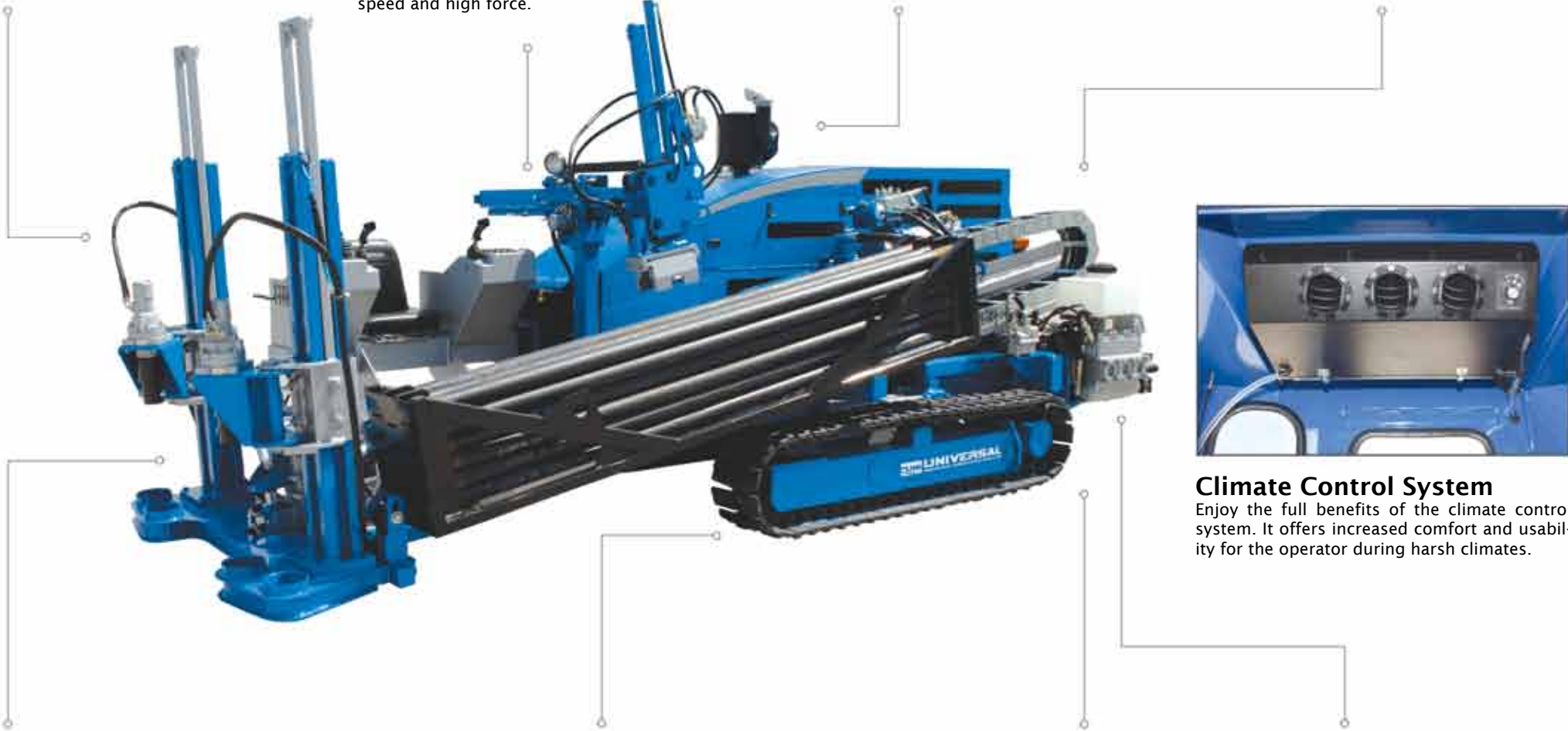
☐ Integrated MFD display must included in conjunction with a Cabin option
 1 Upgradable to 170 hp engine, 7,000 ft-lb torque and 170 gpm mud pump

Cabin
 Ergonomically designed for operator comfort, superior control and high productivity. All controls, switches and gauges are positioned to maximize productivity and minimize operator fatigue.

Double Rack & Pinion
 The Double Rack & Pinion design delivers maximum thrust and pullback force, while at the same time insures high reliability and minimal maintenance. Rineer drives provide smooth motion, and a great combination of both high speed and high force.

Video Monitoring System
 Integrated Video Monitoring System (VMS) provides the operator with additional view of the rack and the carriage. This eliminates unnecessary downtime, additional manpower on site, and speeds up the working cycle.

Rineer Motors
 The Rineer patented vane crossing vane design produces much higher volumetric and mechanical efficiencies than is possible with a standard vane type design. These motors produce higher mechanical efficiency and flatter torque curves.



Climate Control System
 Enjoy the full benefits of the climate control system. It offers increased comfort and usability for the operator during harsh climates.



Centralizer
 Unlike similar technologies utilized by other companies, Universal HDD's Active Centralizing Technology (ACT) offers fully adjustable centralizer. With ACT, the drill pipe can be effortlessly leveled, which reduces wear on the thread and drill stem itself.

Tracks
 These heavy-duty track provide outstanding traction in the toughest terrain you can find to crawl over. With improved strength, durability and reliability, these tracks are made to last.

Back Steakdown
 Double back steakdown provides enhanced support and stability for the rig during a drilling cycle. Two steakdowns can be independently adjusted depending on terrain.

Mud Pump
 Integrated Kerr mud pump specifically engineered for high transfer rate of abrasive fluid. Heavy-duty design insures extended life cycle and minimal downtime.



Universal HDD believes the specifications in this brochure to be correct at the time of printing. However, specifications, standard equipment, options and dimensions are subject to change without notice. Some equipment may be unavailable when your machine is built. Please ask your adviser for list concerning current availability of standard and optional equipment and tooling, and verify that your machine will include the equipment you ordered. Machines in this brochure are shown with optional equipment. While Universal HDD makes diligent efforts to provide accurate information in this brochure, there is no guarantee or warranty of accuracy. This brochure shall not be used or relied upon as substitute for information that is available from your Universal HDD center. Further information can be obtained from your authorized Universal HDD dealer or www.unihdd.com.



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