



**UNI** **UNIVERSAL**  
HORIZONTAL DIRECTIONAL DRILLING

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At Universal HDD, we learned the business the hard way. We've been in the field working with our machines, drilling under some of the most difficult natural and man-made obstacles since the invention of horizontal directional drilling. The result? We know exactly what these machines need to do. So we build them tough using top quality brand name components, like John Deere and Caterpillar engines. We know how tough it is to cross a major obstacle. We know the best way to get it done. So we know how to build the best machine for the job. We begin with common platforms, but we engineer and construct horizontal directional drilling machines that meet the specific needs of our customers. Pound-for-pound, at Universal HDD we provide more value to our customers, both in the equipment and customer support.

Our customers bank on our extensive knowledge and expertise when they ask us to build some of the toughest, custom designed machines. And they look to us to teach them how to use the equipment, including how to optimize its performance in the field. We assemble a team from Robbins and our valued component suppliers and create a training program as customized as our equipment.

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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](http://www.unihdd.com).



**6 ft**  
**DRILL ROD**  
 OPTION

**10 ft**  
**DRILL ROD**  
 OPTION

- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- 6FT OR 10FT ROD VERSION
- AUTO-GREASER
- OPTIONAL WINTER OR TROPICAL PACKAGES
- DUAL SECTIONAL RACK & PINION
- HIGH OUTPUT MOTORS



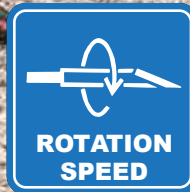
**THRUST/  
PULLBACK**

15,000 LB\*



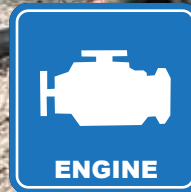
**TORQUE**

1,100 / 2,200  
FT/LB



**ROTATION  
SPEED**

0-210 RPM (HIGH)  
0-155 RPM (LOW)



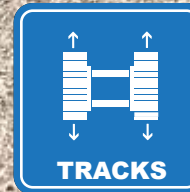
**ENGINE**

TURBOCHARGED  
66 HP JOHN DEERE



**MUD PUMP**

26.8 GAL/MIN



**TRACKS**

RUBBER



The operator station is ergonomically designed for total machine control in a comfortable, productive and safe environment. All controls, levers switches and gauges are positioned to maximize productivity and minimize operator fatigue.



The break-out system features heavy-duty replaceable jaws designed to last and open-top architecture for additional visibility. Also featuring automatic greaser to speed-up working cycle and improve safety.



The UNI 15x22 come equipped with on-board heavy-duty mud pump. This drilling fluid management unit supplies the rig with quality and stable mud during the operational cycle.





Our high performance motors produce high volumetric and mechanical efficiencies. Built to be reliable, safe and easy to service for years to come.



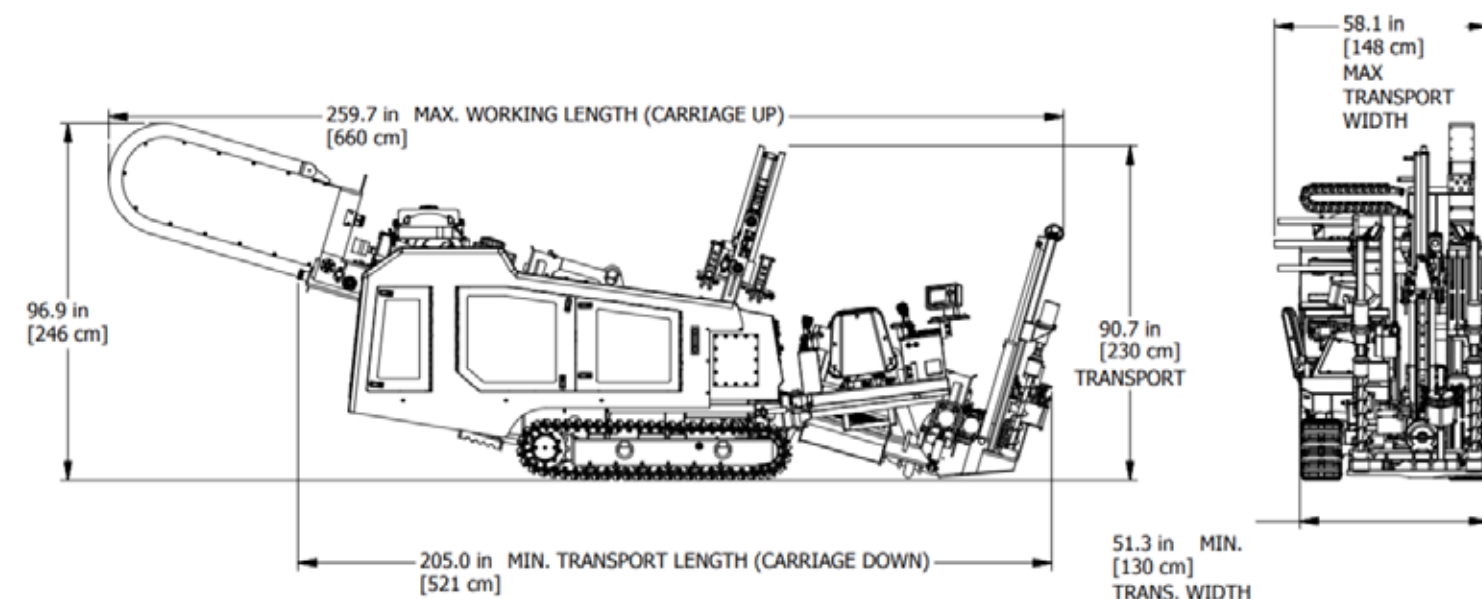
These heavy-duty track provide high traction control and maneuverability practically on any surface. Designed to last and withstand high rates of wear and tear.



Sectional double rack & pinion can be easily maintained and replaced to reduce downtime and cost of maintenance.

### SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	175" (6ft)   197" (10ft)
2	Width (Transport position)	48"
3	Height (Transport position)	74" (6ft)   91" (10ft)
4	Weight (without drill rods)	8,900 lbs (6ft)   10,200 lbs (10ft)
Engine		Parameters
1	Make and Model	Kubota Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	66 H.P.
4	Number of Cylinders	4
5	Rated RPM	2,500 RPM
6	EPA Certification	Tier IV Final
Operational		Parameters
1	Maximum Thrust	15,000 Lbs (Theoretical)
2	Maximum Pullback	15,000 Lbs (Theoretical)
3	Maximum Spindle Torque (Low Displacement)	1,100 Ft/Lbs
4	Maximum Spindle Torque (High Displacement)	2,200 Ft/Lbs
5	Maximum Rotation Speed (Low Displacement)	150 RPM
6	Maximum Rotation Speed (Low Displacement)	210 RPM
7	Maximum Ground Drive	3.5 pmh
8	Rod Loader	Overhead rod loading system
9	Tracks	Rubber
10	Drill Rack Angle	18%
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	50 (6ft)   40 (10ft)
Drilling Fluid System		Parameters
1	Make and Model	Kerr "KZ-3150"
2	Maximum Flow	26.8 GMP
3	Maximum Pressure	1172 PSI
Fluid Capacities		Parameters
1	Fuel Tank	11 gal
2	Hydraulic Tank	40 gal
3	Antifreeze Tank	5 gal
Features		Parameters
1	Stake down System	2 piece Auger system
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Greaser	Yes
6	Air Hammer ready	Yes
7	Umbrella	Yes
8	Panel mount for Remote Display	Yes





- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- AUTO-GREASER
- OPTIONAL WINTER OR TROPICAL PACKAGES
- DUAL SECTIONAL RACK & PINION
- HIGH OUTPUT MOTORS
- COMPATIBLE WITH 1.90 FSI 10' ROD & 2.063 FSI 10' ROD



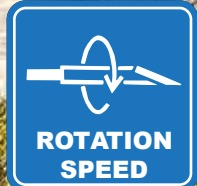
**THRUST/  
PULLBACK**

25,000 LB\*



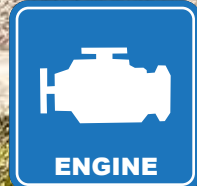
**TORQUE**

1,800 / 3,600  
FT/LB



**ROTATION  
SPEED**

0-320 RPM (HIGH)  
0-160 RPM (LOW)



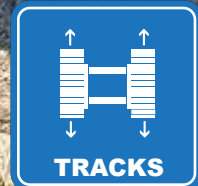
**ENGINE**

TURBOCHARGED  
116 HP



**MUD PUMP**

72.8 GAL/MIN



**TRACKS**

RUBBER



Over-the-top rod-loader makes it easy to operate and load rods on the fly. Open architecture and design makes it easy to service and perform maintenance



The Double Rack & Pinion is designed to generate maximum thrust and pull-back force, while at the same time providing high reliability and minimal maintenance.



Designed to perform and deliver power and torque to complete most demanding jobs. UNI 25 delivers the on-site versatility required to match the diverse and continually changing needs.

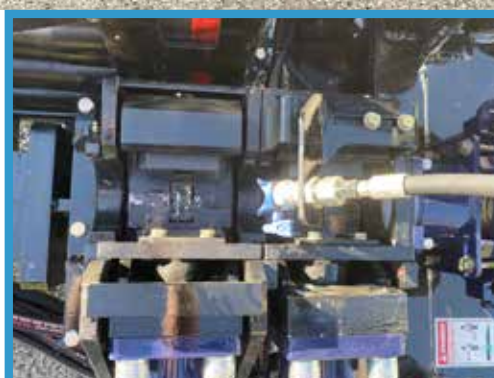




- WIRELESS REMOTE CONTROL
- UMBRELLA
- ON-BOARD WASH GUN
- HEAVY-DUTY RUBBER TRACKS



The operator station is ergonomically designed for total machine control in a comfortable, productive and safe environment. All controls, levers switches and gauges are positioned to maximize productivity and minimize operator fatigue.



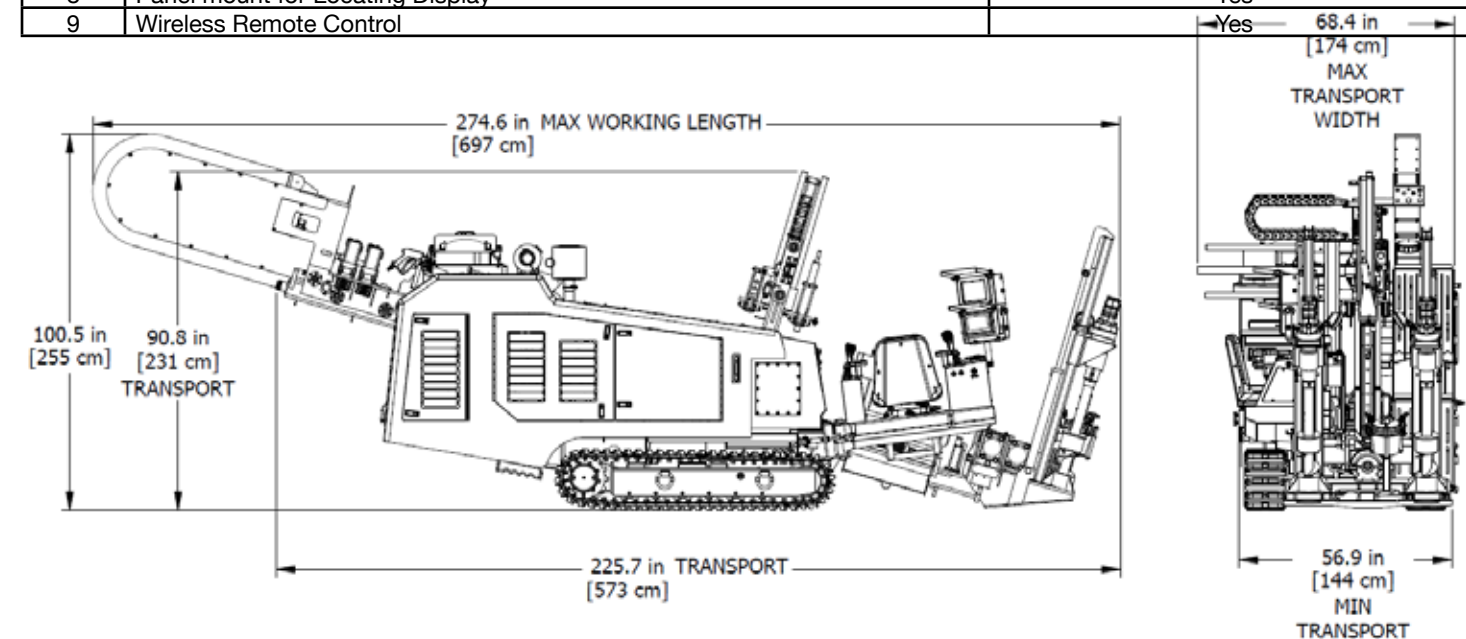
The break-out system features heavy-duty replaceable jaws designed to last and open-top architecture for additional visibility.



The UNI 25 come equipped with on-board heavy-duty mud pump. This drilling fluid management unit supplies the rig with quality and stable mud during the operational cycle.

## SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	199"
2	Width (Transport position)	65"
3	Height (Transport position)	89"
4	Weight(without drill rods)	10,600 lbs
5	Weight(with drill rods)	13,200 lbs
Engine		Parameters
1	Make and Model	Perkins Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	116 H.P.
4	Number of Cylinders	4
5	Rated RPM	2,500 rpm
6	EPA Certification	Tier IV
Operational		Parameters
1	Maximum Thrust	25,000 Lbs
2	Maximum Pullback	25,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	1,800 Ft/Lbs
4	Maximum Spindle Torque (High Displacement)	3,600 Ft/Lbs
5	Maximum Rotation Speed (Low Displacement)	160 RPM
6	Maximum Rotation Speed (Low Displacement)	320 RPM
7	Maximum Ground Drive	3.5 mph
8	Automated Rod Loader	Over Head
9	Tracks	Rubber
10	Drill Rack Angle	18%
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	40
Drilling Fluid System		Parameters
1	Make and Model	KM-3300SHPT
2	Maximum Flow	72.8 GMP
3	Maximum Pressure	1000 PSI
Fluid Capacities		Parameters
1	Fuel Tank	11 gal
2	Hydraulic Tank	40 gal
3	Antifreeze Tank	10 gal
Features		Parameters
1	Stake down System	2 piece Auger system
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Greaser	Yes
6	Air Hammer ready	Yes
7	Umbrella	Yes
8	Panel mount for Locating Display	Yes
9	Wireless Remote Control	Yes





- AUTO-GREASER
- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- AIR HAMMER SETUP
- AUTO CURVE
- OPTIONAL WINTER OR TROPICAL PACKAGES
- CARRIAGE SPEED 170 FT/MIN
- COMPATIBLE WITH 1.90 FSI 10' ROD & 2.063 FSI 10' ROD



Optional larger, spacious cab provides operator comfort and visibility. An intuitive instrument panel layout for ease of operation reduces operator fatigue. Includes heater & AC, Digitrak Display, Video Camera with LCD monitor.



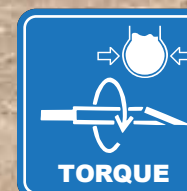
These heavy-duty track provide high traction control and maneuverability practically on any surface. Designed to last and withstand high rates of wear and tear.



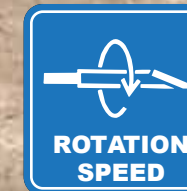
Designed to generate high thrust and pull-back force. The Double Rack & Pinion also provides highest precision, while at the same time providing high reliability and minimal maintenance.



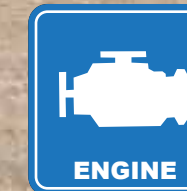
30,000 LB\*



2,000/  
4,000 FT/LB



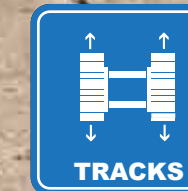
0-280 RPM (HIGH)  
0-140 RPM (LOW)



TURBOCHARGED  
148 HP JOHN DEERE



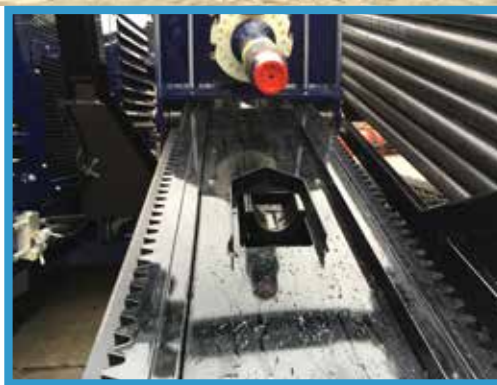
72.8 GAL/MIN



STEEL  
W/ RUBBER PADS



- WIRELESS REMOTE CONTROL
- MANUAL OVERRIDE
- HEAVY-DUTY STEEL TRACKS WITH RUBBER PADS
- DUAL SECTIONAL RACK & PINION
- UMBRELLA



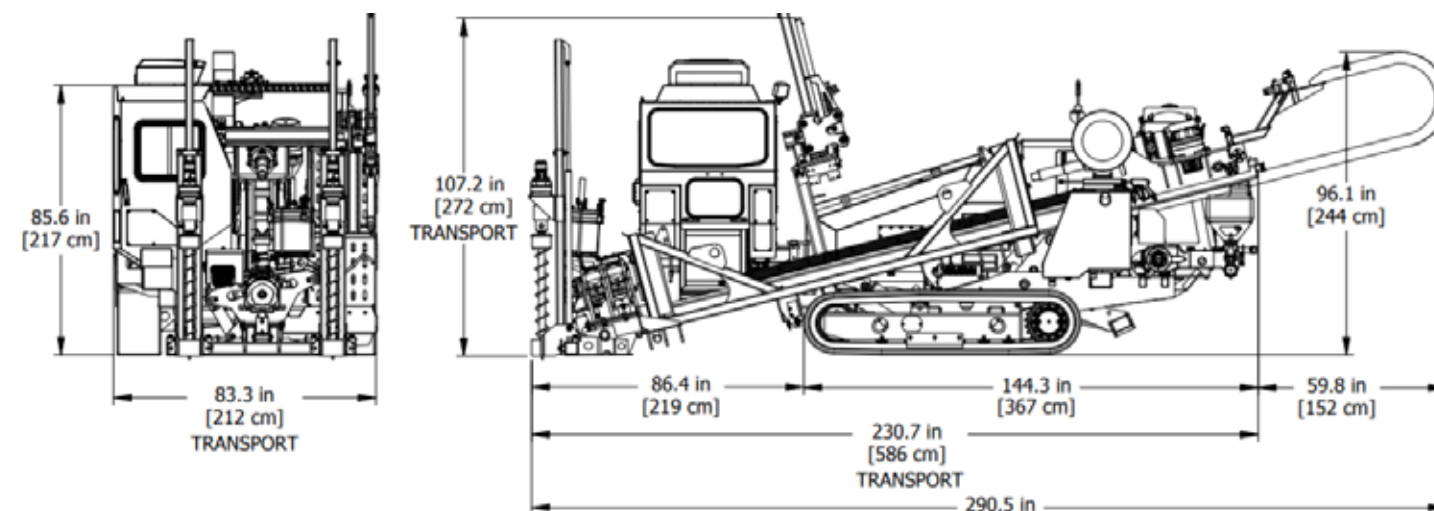
UNI 30x40 come equipped with on-board Kerr mud pump. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.

Sectional double rack & pinion can be easily maintained and replaced to reduce downtime and cost of maintenance.

The wrench system features Active Centralizer System (ACS) to reduce wear on drill stems, heavy-duty replaceable jaws, open-top architecture for additional visibility.

### SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	226"
2	Width (Transport position)	92"
3	Width (With Cab, Transport Position)	88"
4	Height (Transport position)	94"
5	Height (With Cab, Transport Position)	95"
6	Weight	16,200 Lbs
7	Weight w/drill rods	19,600 Lbs
Engine		Parameters
1	Make and Model	Perkins Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	148 H.P.
4	Number of Cylinders	4
5	Rated RPM	2,400 RPM
6	EPA Certification	Tier IV Final
Operational		Parameters
1	Maximum Thrust	30,000 Lbs
2	Maximum Pullback	30,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	2,000 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	4,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	140 RPM
6	Maximum Rotation Speed (Low Displacement)	280 RPM
7	Maximum Carriage Speed	170 Ft/Min
8	Maximum Ground Drive	3.4 mph
9	Automated Rod Loader	Over Head
10	Tracks	Steel with rubber pads (350mm)
11	Drill Rack Angle	18 deg
12	Travel Type	Dual Rack & pinion
13	Rod Basket Capacity	50
Drilling Fluid System		Parameters
1	Make and Model	"Kerr" KM-3300SHPT
2	Maximum Flow	72.8 GPM
3	Maximum Pressure	1000 PSI
Fluid Capacities		Parameters
1	Fuel Tank	37 gal
2	Hydraulic Tank	65 gal
3	Antifreeze Tank	8 gal
Features		Parameters
1	Stake down System	2 piece Auger system
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Auto Greaser	Yes
9	Wireless Remote Control	Yes
10	Extreme Weather Package (Optional)	Engine Preheater, Heated Rack and heated hydraulic oil





# CUSTOM HDD RIGS

## UNI 36x50

**10 ft**  
**DRILL ROD**  
 OPTION

**15 ft**  
**DRILL ROD**  
 OPTION

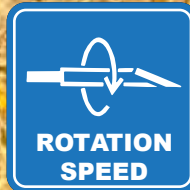
- 10FT OR 15FT ROD VERSION
- AUTO-GREASER
- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- AIR HAMMER SETUP
- AUTO CURVE
- CARRIAGE SPEED 170 FT/MIN
- STEEL TRACKS WITH RUBBER PADS
- COMPATIBLE WITH 2 3/8 FSI 10'/15' #650 & 2 5/8 FSI 10'/15' #700



36,000 LB\*



2,500/  
5,000 FT/LB



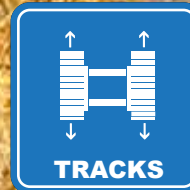
0-200 RPM (HIGH)  
0-100 RPM (LOW)



TURBOCHARGED  
148 HP JOHN DEERE



115 GAL/MIN



STEEL  
W/ RUBBER PADS



Optional larger, spacious cab provides operator comfort and visibility. An intuitive instrument panel layout for ease of operation reduces operator fatigue. Includes heater & air conditioner, Digitrak Display, Video Camera with LCD monitor.



Over-the-top rod-loader makes it easy to operate and load rods on the fly. Open architecture and design makes it easy to service and perform maintenance



Easily accessible Diagnostic Ports allow for quick measure and troubleshooting of the hydraulic system.





- WIRELESS REMOTE CONTROL
- MANUAL OVERRIDE
- OPTIONAL WINTER OR TROPICAL PACKAGES
- HEAVY-DUTY STEEL TRACKS WITH RUBBER PADS
- DUAL SECTIONAL RACK & PINION
- MUD FLOW METER
- UMBRELLA



UNI 36x50 come equipped with on-board Kerr mud pump, which delivers up to 115 g/min. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.



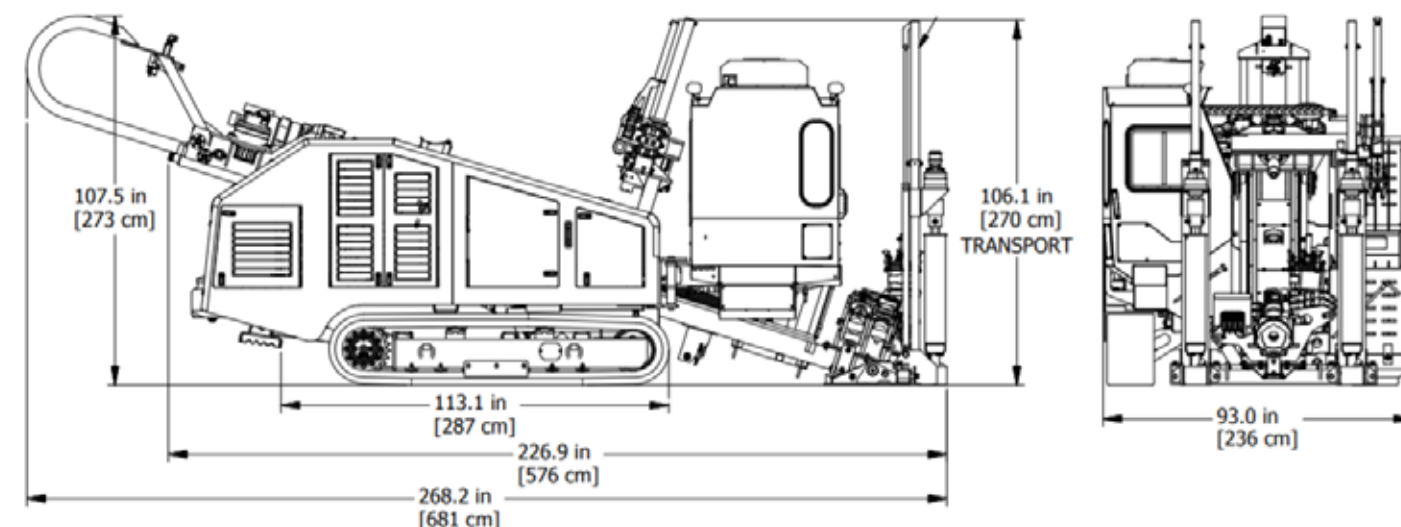
Sectional double rack & pinion can be easily maintained and replaced to reduce downtime and cost of maintenance.



The break-out system features heavy-duty replaceable jaws designed to last and open-top architecture for additional visibility. Also featuring Active Centralizer System (ACS) to reduce wear on drill stems

### SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	226" (10ft)   283" (15ft)
2	Width (Transport position)	92"
3	Width (With Cab, Transport Position)	92"
4	Height ((Transport position)	101" (10ft)   103" (15ft)
5	Height (With Cab)	101" (10ft)   103" (15ft)
6	Weight	16,700 lbs (10ft)   17,700 lbs
7	Weight (With Cab Option)	17,200 lbs (10ft)   18,200 lbs
Engine		Parameters
1	Make and Model	Perkins Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	148 H.P.
4	Number of Cylinders	4
5	Rated RPM	2,400 RPM
6	EPA Certification	Tier IV Final
Operational		Parameters
1	Maximum Thrust	36,000 Lbs
2	Maximum Pullback	36,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	2,500 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	5,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	110 RPM
6	Maximum Rotation Speed (Low Displacement)	220 RPM
7	Maximum Carriage Speed	170 Ft/Min
8	Maximum Ground Drive	3.4 mph
9	Automated Rod Loader	Over Head
10	Tracks	Steel with rubber pads
11	Drill Rack Angle	18 deg
12	Travel Type	Dual Rack & pinion
13	Rod Basket Capacity	54 (10ft)   40 (15ft)
Drilling Fluid System		Parameters
1	Make and Model	Aplex "SC-65"
2	Maximum Flow	115 GMP
3	Maximum Pressure	1000 PSI
Fluid Capacities		Parameters
1	Fuel Tank	40 gal
2	Hydraulic Tank	65 gal
3	Antifreeze Tank	8 gal
Features		Parameters
1	Stake down System	2 piece Auger system
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Auto Greaser	Yes
8	Operator's Cab (Optional)	Glassed Cab (Heater & Air Conditioner, Aurora Digitrak Display, Video Camera with LCD monitor)
9	Wireless Remote Control	Yes
10	Extreme Weather Package (Optional)	Engine Preheater, Heated Rack and heated hydraulic oil



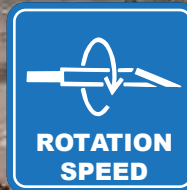
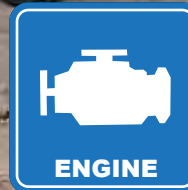


**10 ft**  
**DRILL ROD**  
OPTION**15 ft**  
**DRILL ROD**  
OPTION

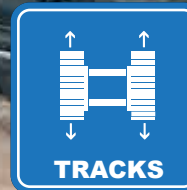
- 10FT OR 15FT ROD VERSION
- AUTO-GREASER
- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- AIR HAMMER SETUP
- AUTO CURVE
- CARRIAGE SPEED 170 FT/MIN
- STEEL TRACKS WITH RUBBER PADS



45000 LB\*

3,250 / 6,500  
FT/LB0-220 RPM (HIGH)  
0-110 RPM (LOW)TURBOCHARGED  
175 HP

115 GAL/MIN



RUBBER



Optional larger, spacious cab provides operator comfort and visibility. An intuitive instrument panel layout for ease of operation reduces operator fatigue. Includes heater & air conditioner, Digitrak Display, Video Camera with LCD monitor.



Over-the-top rod-loader makes it easy to operate and load rods on the fly. Open architecture and design makes it easy to service and perform maintenance

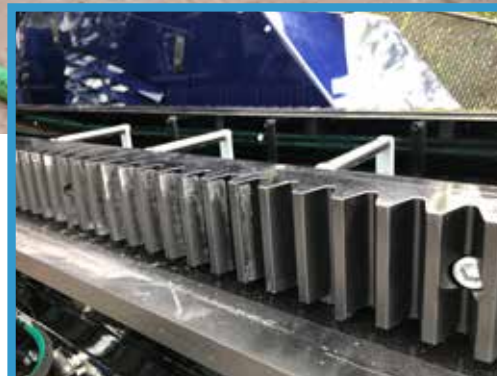


Easily accessible Diagnostic Ports allow for quick measure and troubleshooting of the hydraulic system.





- WIRELESS REMOTE CONTROL
- MANUAL OVERRIDE
- OPTIONAL WINTER OR TROPICAL PACKAGES
- HEAVY-DUTY STEEL TRACKS WITH RUBBER PADS
- DUAL SECTIONAL RACK & PINION
- MUD FLOW METER
- UMBRELLA



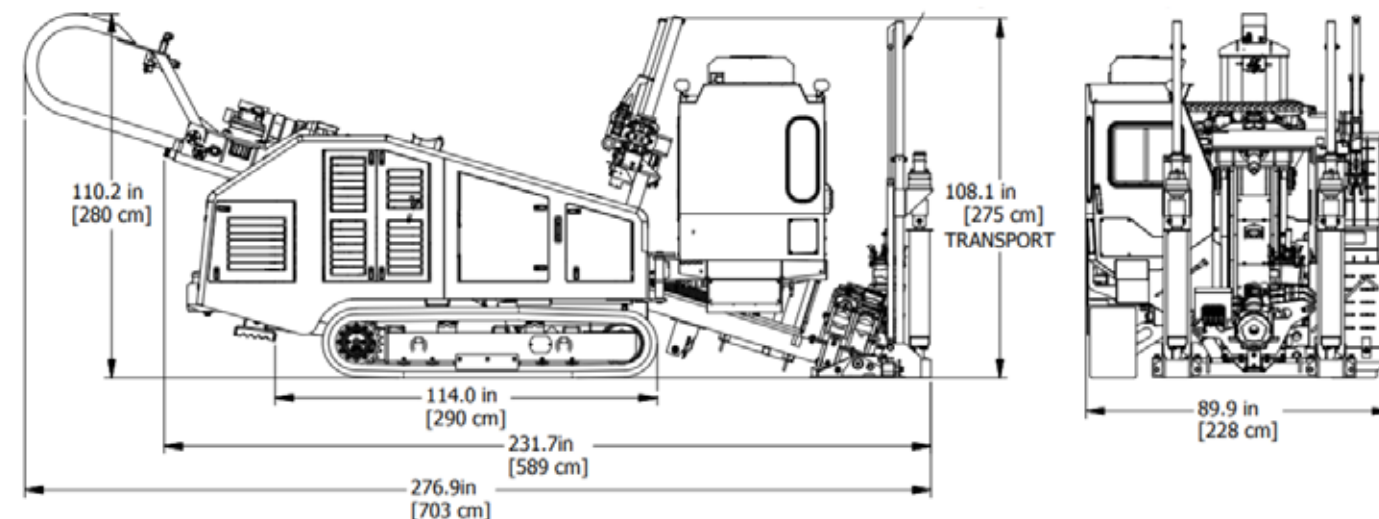
UNI 45x65 come equipped with on-board Kerr mud pump, which delivers up to 115g/min. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.

Sectional double rack & pinion can be easily maintained and replaced to reduce downtime and cost of maintenance.

The break-out system features heavy-duty replaceable jaws designed to last and open-top architecture for additional visibility. Also featuring Active Centralizer System (ACS) to reduce wear on drill stems

### SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	226" (10ft)   284" (15ft)
2	Width (Transport position)	92"
3	Width (With Cab, Transport Position)	92"
4	Height ((Transport position)	101"
5	Height (With Cab)	101"
6	Weight	18,700 lbs (10ft)   19,200 (15ft)
7	Weight (With Cab Option)	19,200 lbs (10ft)   19,700 (15ft)
Engine		Parameters
1	Make and Model	Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	175 H.P.
4	Number of Cylinders	4
5	Rated RPM	2,400 RPM
6	EPA Certification	Tier IV Final
Operational		Parameters
1	Maximum Thrust	45,000 Lbs
2	Maximum Pullback	45,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	3,250 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	6,500 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	110 RPM
6	Maximum Rotation Speed (High Displacement)	220 RPM
7	Maximum Carriage Speed	170 Ft/Min
8	Maximum Ground Drive	3.4 mph
9	Automated Rod Loader	Over Head
10	Tracks	Steel with rubber pads
11	Drill Rack Angle	18 deg
12	Travel Type	Dual Rack & pinion
13	Rod Basket Capacity	40
Drilling Fluid System		Parameters
1	Make and Model	Kerr "KA-3300PT"
2	Maximum Flow	115 GMP
3	Maximum Pressure	1000 PSI
Fluid Capacities		Parameters
1	Fuel Tank	40 gal
2	Hydraulic Tank	65 gal
3	Antifreeze Tank	8 gal
Features		Parameters
1	Stake down System	2 piece Tubular Auger system
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Auto Greaser	Yes
8	Operator's Cab (Included)	Glassed Cab (Heater & Air Conditioner, Aurora Digitrak Display, Video Camera with LCD monitor)
9	Wireless Remote Control	Yes
10	Extreme Weather Package (Optional)	Engine Preheater, Heated Rack and heated hydraulic oil



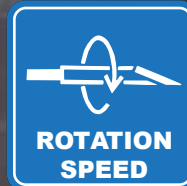


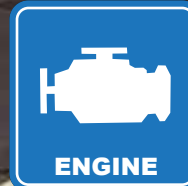
- AUTO-GREASER
- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- AIR HAMMER SETUP
- AUTO CURVE
- STEEL TRACKS WITH RUBBER PADS
- MUD FLOW METER
- MANUAL OVERRIDE


**THRUST/  
PULLBACK**

70,000 LB\*


**TORQUE**

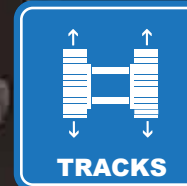
 4,500/  
9,000 FT/LB

**ROTATION  
SPEED**

 0-200 RPM (HIGH)  
0-100 RPM (LOW)

**ENGINE**

 TURBOCHARGED  
200 HP JOHN DEERE

**MUD PUMP**

188 GAL/MIN


**TRACKS**

 STEEL  
W/ RUBBER PADS


UNI 70x90 come equipped with on-board Kerr mud pump, which delivers up to 188 g/min. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.



Sectional double rack & pinion can be easily maintained and replaced to reduce downtime and cost of maintenance.



Double back breakdown provide enhanced support and stability for the rig during a drilling cycle. Two breakdowns can be independently adjusted depending on terrain.



- WIRELESS REMOTE CONTROL
- OPTIONAL WINTER OR TROPICAL PACKAGES
- HEAVY-DUTY STEEL TRACKS WITH RUBBER PADS
- DUAL SECTIONAL RACK & PINION
- MUD FLOW METER
- UMBRELLA



Spacious cab provides operator comfort and improved visibility. An intuitive instrument panel layout for ease of operation reduces operator fatigue. Includes heater & air conditioner, Digitrak Display, Video Camera with LCD monitor.



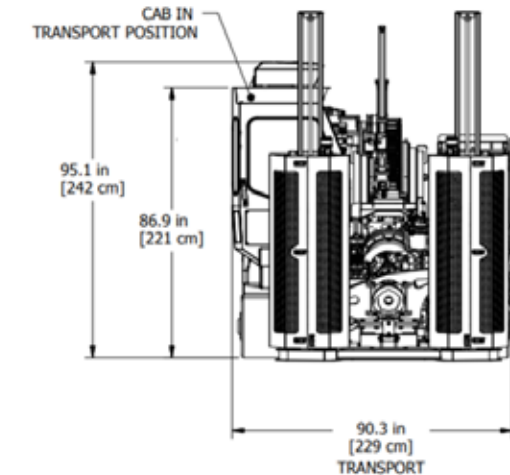
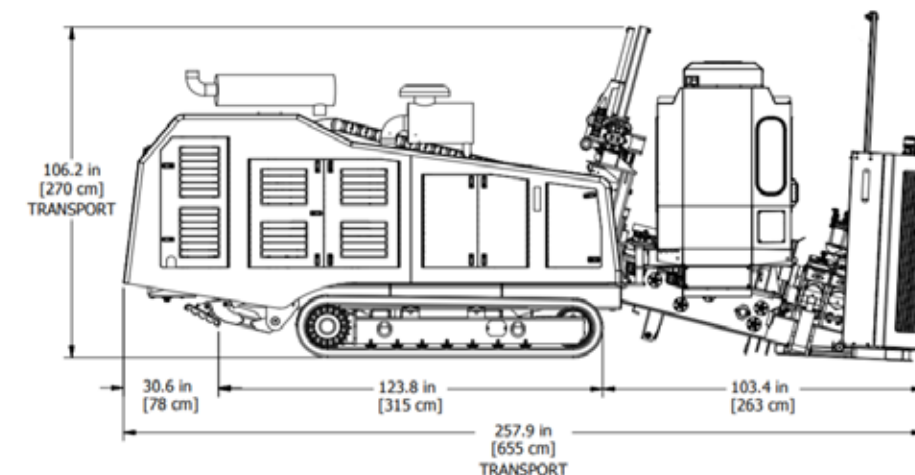
The Rineer patented vane crossing vane design produces much higher volumetric and mechanical efficiencies than is possible with a standard vane type design. These motors produce higher mechanical efficiency and flatter torque curves.



Over-the-top rod-loader makes it easy to operate and load rods on the fly. Open architecture and design makes it easy to service and perform maintenance.

### SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	287"
2	Width (Transport position)	92"
3	Width (With Cab, Transport Position)	92"
4	Height (Transport position)	106"
5	Height (With Cab)	106"
6	Weight	22,800 lb
7	Weight (With Drill Rods)	28,600 lb
Engine		Parameters
1	Make and Model	John Deere Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	200 H.P.
4	Number of Cylinders	6
5	Rated RPM	2,400 RPM
6	EPA Certification	Tier IV
Operational		Parameters
1	Maximum Thrust	70,000 Lbs
2	Maximum Pullback	70,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	4,500 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	9,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	100 RPM
6	Maximum Rotation Speed (Low Displacement)	200 RPM
7	Maximum Ground Drive	2.4 m/h
8	Automated Rod Loader	Over Head
9	Tracks	Steel with rubber pads
10	Drill Rack Angle	18 deg
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	40
Drilling Fluid System		Parameters
1	Make and Model	Kerr "KT-3350PT"
2	Maximum Flow	188 GMP
3	Maximum Pressure	963 PSI
Fluid Capacities		Parameters
1	Fuel Tank	68 gal
2	Hydraulic Tank	84 gal
3	Antifreeze Tank	12 gal
Features		Parameters
1	Stake down System	2 piece Auger system
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Wireless Remote Control	Yes
8	Auto Greaser	Yes
9	Operator's Cab	Glassed Cab (Heater & Air Conditioner, Aurora Digitrak Display, Video Camera with LCD monitor)
10	Extreme Weather Package (Optional)	Engine Preheater, Heated Rack and heated hydraulic oil



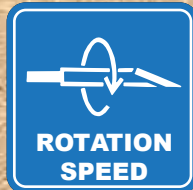
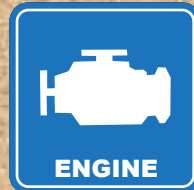




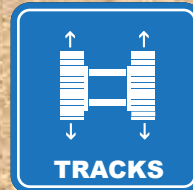
- AUTO-GREASER
- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- AIR HAMMER SETUP
- AUTO CURVE
- STEEL TRACKS WITH RUBBER PADS
- MUD FLOW METER
- MANUAL OVERRIDE



80,000 LB\*

5,000/  
10,000 FT/LB0-180 RPM (HIGH)  
0-90 RPM (LOW)TURBOCHARGED  
200 HP JOHN DEERE

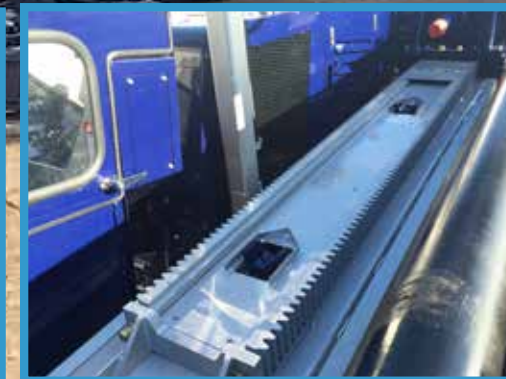
205 GAL/MIN

STEEL  
W/ RUBBER PADS

The break-out system features heavy-duty replaceable jaws designed to last and open-top architecture for additional visibility. Also featuring Active Centralizer System (ACS) to reduce wear on drill stems, and automatic greaser.



These heavy-duty track provide high traction control and maneuverability practically on any surface. Featuring removable pads making it easy to service and repair tracks in field.



Sectional double rack & pinion can be easily maintained and replaced to reduce downtime and cost of maintenance.



- WIRELESS REMOTE CONTROL
- OPTIONAL WINTER OR TROPICAL PACKAGES
- HEAVY-DUTY STEEL TRACKS WITH RUBBER PADS
- DUAL SECTIONAL RACK & PINION
- MUD FLOW METER



Easily accessible Diagnostic Ports allow for quick measure and troubleshooting of the hydraulic system.



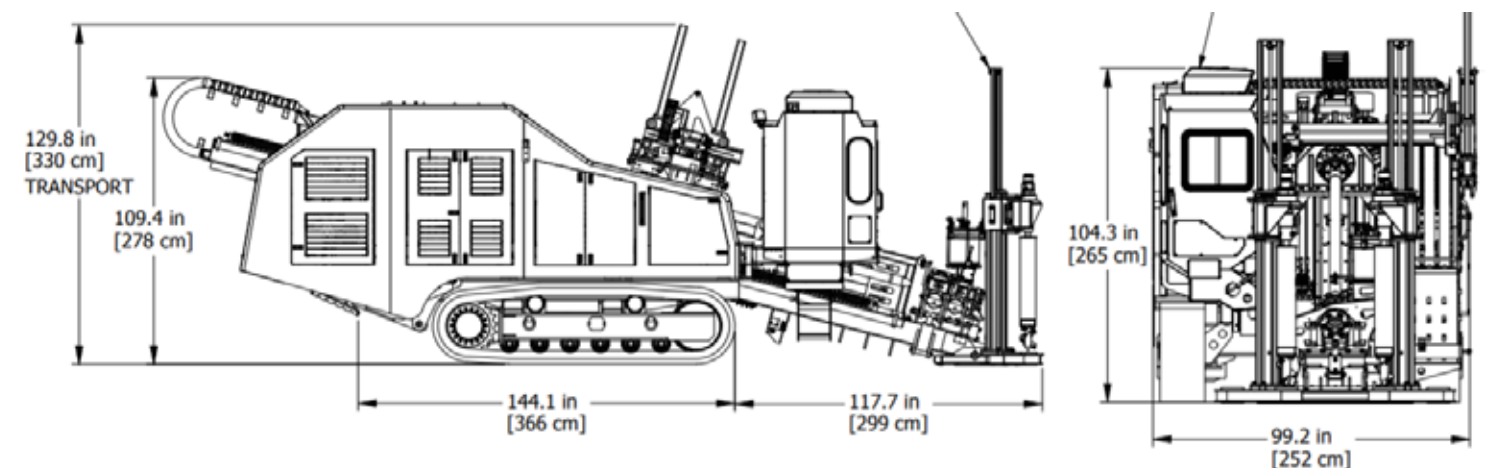
The Rineer patented vane crossing vane design produces much higher volumetric and mechanical efficiencies than is possible with a standard vane type design. These motors produce higher mechanical efficiency and flatter torque curves.



UNI 80x100 come equipped with on-board Apex mud pump, which delivers up to 205 g/min. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.

### SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	315"
2	Width (Transport position)	94"
3	Width (With Cab, Transport Position)	94"
4	Height ((Transport position)	102"
5	Height (With Cab)	102"
6	Weight	28,000 lb
7	Weight (With Drill Rods)	35,000 lb
Engine		Parameters
1	Make and Model	John Deere Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	200 H.P.
4	Number of Cylinders	6
5	Rated RPM	2400 RPM
6	EPA Certification	Tier IV
Operational		Parameters
1	Maximum Thrust	80,000 Lbs
2	Maximum Pullback	80,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	6,000 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	12,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	80 RPM
6	Maximum Rotation Speed (Low Displacement)	160 RPM
7	Maximum Ground Drive	2 m/h
8	Automated Rod Loader	Over Head
9	Tracks	Steel with rubber pads
10	Drill Rack Angle	18 deg
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	28
Drilling Fluid System		Parameters
1	Make and Model	Aplex "SC-115L"
2	Maximum Flow	205 GMP
3	Maximum Pressure	850 PSI
Fluid Capacities		Parameters
1	Fuel Tank	43 gal
2	Hydraulic Tank	135 gal
3	Antifreeze Tank	25 gal
Features		Parameters
1	Stake down System	2 piece Auger system
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Wireless Remote Control	Yes
8	Auto Greaser	Yes
9	Operator's Cab	Glassed Cab (Heater & Air Conditioner, Aurora Digitrak Display, Video Camera with LCD monitor)
10	Extreme Weather Package	Engine Preheater, Heated Rack and heated hydraulic oil



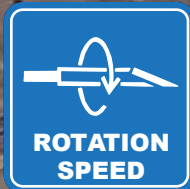
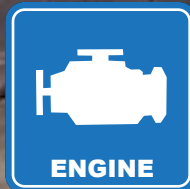


**15 ft**  
DRILL ROD  
OPTION**20 ft**  
DRILL ROD  
OPTION

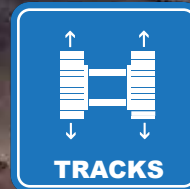
- AUTO-GREASER
- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- STEEL TRACKS WITH RUBBER PADS
- MANUAL OVERRIDE
- MUD FLOW METER



110,000 LB\*

6,000/  
12,000 FT/LB0-140 RPM (HIGH)  
0-70 RPM (LOW)TURBOCHARGED  
305 HP

228 GAL/MIN



STEEL



Spacious cab provides operator comfort and improved visibility. An intuitive instrument panel layout for ease of operation reduces operator fatigue. Includes heater & air conditioner, MFD Digitrak Display, Video Camera with LCD monitor.



Sectional double rack & pinion can be easily maintained and replaced to reduce downtime and cost of maintenance.



These steel heavy-duty track provide high traction control and maneuverability practically on any surface. Designed to last and withstand high rates of wear and tear.





- WIRELESS REMOTE CONTROL
- OPTIONAL WINTER OR TROPICAL PACKAGES
- HEAVY-DUTY STEEL TRACKS
- DUAL SECTIONAL RACK & PINION



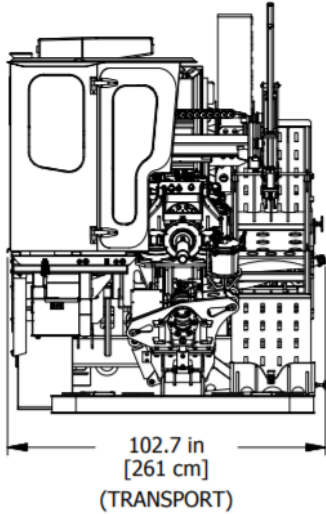
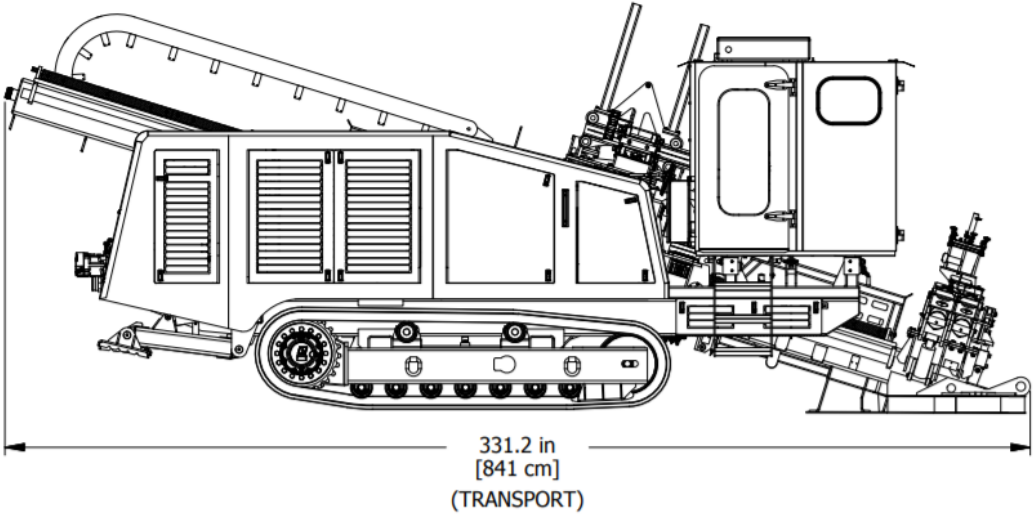
The break-out system features heavy-duty replaceable jaws designed to last and open-top architecture for additional visibility. Also featuring automatic greaser to speed-up working cycle and improve safety.

Over-the-top rod-loader makes it easy to operate and load rods on the fly. Open architecture and design makes it easy to service and perform maintenance.

UNI 110x120 come equipped with on-board Kerr mud pump, which delivers up to 228 g/min. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.

SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	331" (15ft)   390" (20ft)
2	Width (Transport position)	102"
3	Width (With Cab, Transport Position)	102"
4	Height (Transport position)	121"
5	Height (With Cab)	121"
6	Weight	52,500 lbs
7	Weight (With Cab Option)	52,500 lbs
Engine		Parameters
1	Make and Model	Perkins Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	305 H.P.
4	Number of Cylinders	6
5	Rated RPM	2,400 RPM
6	EPA Certification	Tier IV Final
Operational		Parameters
1	Maximum Thrust	110,000 Lbs
2	Maximum Pullback	110,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	12,000 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	24,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	70 RPM
6	Maximum Rotation Speed (Low Displacement)	140 RPM
7	Maximum Ground Drive	2.8 mph
8	Automated Rod Loader	Over Head
9	Tracks	Steel
10	Drill Rack Angle	18 deg
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	28
Drilling Fluid System		Parameters
1	Make and Model	N/A
2	Maximum Flow	N/A
3	Maximum Pressure	N/A
Fluid Capacities		Parameters
1	Fuel Tank	85 gal
2	Hydraulic Tank	140 gal
3	Antifreeze Tank	25 gal
Features		Parameters
1	Stake down System	Optional
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Wire Line Ready	Commentating Ring, Wire line Spool
8	Wireless Remote Control	Yes
9	Auto Greaser	Yes
10	Operator's Cab	Glassed Cab (Heater & Air Conditioner, Aurora Digitrak Display, Video Camera with LCD monitor)
11	Extreme Weather Package	Engine Preheater, Heated Rack and heated hydraulic oil



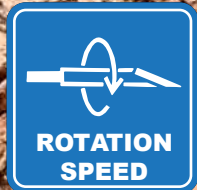
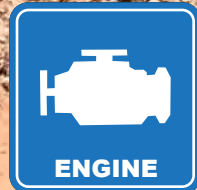




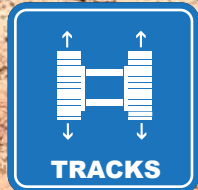
- AUTO-GREASER
- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- MUD FLOW METER
- MANUAL OVERRIDE
- MUD FLOW METER
- ON-BOARD CRANE
- AUTOMATIC ROD LOADING ARM


**THRUST/  
PULLBACK**

160,000 LB\*


**TORQUE**
12,000/  
24,000 FT/LB
**ROTATION  
SPEED**
0-120 RPM (HIGH)  
0-60 RPM (LOW)
**ENGINE**
TURBOCHARGED  
400 HP JOHN DEERE
**MUD PUMP**

3 1/2 GAL/MIN


**TRACKS**

STEEL



The rig comes equipped with rod-loading arm which reduces loading and unloading time, cuts manpower cost, and improves safety.



Spacious cab provides operator comfort and improved visibility. An intuitive instrument panel layout for ease of operation reduces operator fatigue. Includes heater & air conditioner, Digitrak Display, Video Camera with LCD monitor.



Optional on-board Apex mud pump, which delivers up to 312 g/min. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.



- WIRELESS REMOTE CONTROL
- OPTIONAL WINTER OR TROPICAL PACKAGES
- HEAVY-DUTY STEEL TRACKS
- DUAL SECTIONAL RACK & PINION
- WIRELINE SYSTEM READY



The break-out system features heavy-duty replaceable jaws designed to last and open-top architecture for additional visibility. Also featuring Active Centralizer System (ACS) to reduce wear on drill stems.



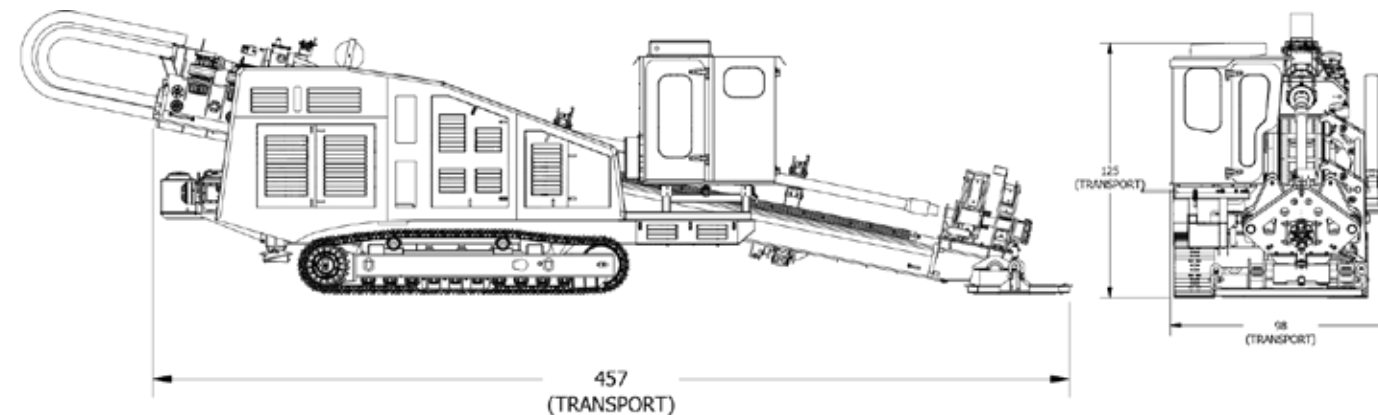
Sectional double rack & pinion can be easily maintained and replaced to reduce downtime and cost of maintenance.



On-board crane with superior lift-to-weight ratio, long-reach capabilities, and wireless remote control.

### SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	456"
2	Width (Transport position)	98"
3	Width (With Cab, Transport Position)	98"
4	Height (Transport position)	123"
5	Height (With Cab)	125"
6	Weight	58,500 lbs
7	Weight (With Cab Option)	58,500 lbs
Engine		Parameters
1	Make and Model	John Deere Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	400 H.P.
4	Number of Cylinders	6
5	Rated RPM	2,200 RPM
6	EPA Certification	Tier IV
Operational		Parameters
1	Maximum Thrust	160,000 Lbs
2	Maximum Pullback	160,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	12,000 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	24,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	60 RPM
6	Maximum Rotation Speed (Low Displacement)	120 RPM
7	Maximum Ground Drive	2,6 RPM
8	Crane on board	Yes
9	Tracks	Steel
10	Drill Rack Angle	12-16 deg
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	N/A
Drilling Fluid System		Parameters
1	Make and Model	Aplex "SC-1170L"
2	Maximum Flow	312 GMP
3	Maximum Pressure	1136 PSI
Fluid Capacities		Parameters
1	Fuel Tank	146 gal
2	Hydraulic Tank	215 gal
3	Antifreeze Tank	25 gal
Features		Parameters
1	Stake down System	Optional
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Wire Line Ready	Commentating Ring, Wire line Spool
8	Wireless Remote Control	Yes
9	Auto Greaser	N/A
10	Operator's Cab (Standard)	Glassed Cab (Heater & Air Conditioner, Aurora Digitrak Display, Video Camera with LCD monitor)
11	Extreme Weather Package (Optional)	Engine Preheater, Heated Rack and heated hydraulic oil

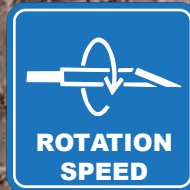




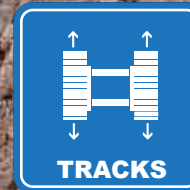
- AUTO-GREASER
- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- AIR HAMMER SETUP
- AUTO CURVE
- STEEL TRACKS WITH RUBBER PADS
- MUD FLOW METER
- MANUAL OVERRIDE
- MUD FLOW METER



220,000 LB\*

12,000/  
24,000 FT/LB0-120 RPM (HIGH)  
0-60 RPM (LOW)TURBOCHARGED  
400 HP JOHN DEERE

3 1/2 GAL/MIN



STEEL



Our high performance motors produce high volumetric and mechanical efficiencies. Built to be reliable, safe and easy to service for years to come.



The rig comes equipped with rod-loading arm which reduces loading and unloading time, cuts manpower cost, and improves safety.



Optional on-board Apex mud pump, which delivers up to 312 g/min. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.





- WIRELESS REMOTE CONTROL
- OPTIONAL WINTER OR TROPICAL PACKAGES
- HEAVY-DUTY STEEL TRACKS
- DUAL SECTIONAL RACK & PINION
- WIRELINE SYSTEM READY



Sectional double rack & pinion can be easily maintained and replaced to reduce downtime and cost of maintenance.



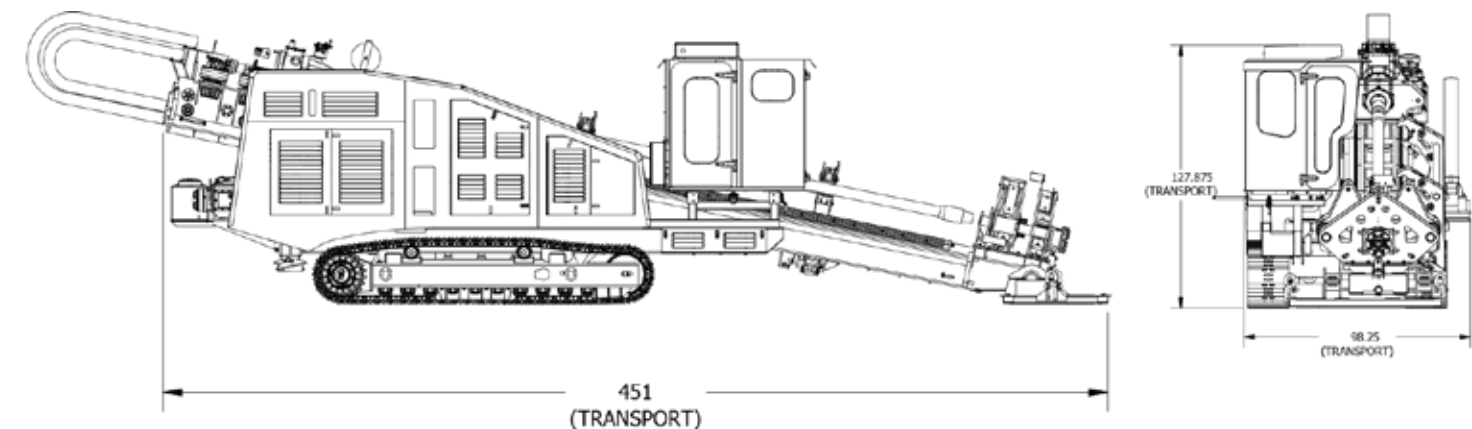
The break-out system features heavy-duty replaceable jaws designed to last and open-top architecture for additional visibility. Also featuring Active Centralizer System (ACS) to reduce wear on drill stems.



On-board crane with superior lift-to-weight ratio, long-reach capabilities, and wireless remote control.

### SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	456"
2	Width (Transport position)	98"
3	Width (With Cab, Transport Position)	98"
4	Height (Transport position)	123"
5	Height (With Cab)	125"
6	Weight	62,500 lbs
7	Weight (With Cab Option)	62,500 lbs
Engine		Parameters
1	Make and Model	John Deere Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	400 H.P.
4	Number of Cylinders	6
5	Rated RPM	2,100 rpm
6	EPA Certification	TierIV
Operational		Parameters
1	Maximum Thrust	220,000 Lbs
2	Maximum Pullback	220,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	12,000 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	24,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	60 RPM
6	Maximum Rotation Speed (Low Displacement)	120 RPM
7	Maximum Ground Drive	1,8 mph
8	Crane on board	Yes
9	Tracks	Steel
10	Drill Rack Angle	12-16 deg
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	N/A
Drilling Fluid System		Parameters
1	Make and Model	Aplex "SC-1170L"
2	Maximum Flow	312 GMP
3	Maximum Pressure	1136 PSI
Fluid Capacities		Parameters
1	Fuel Tank	146 gal
2	Hydraulic Tank	215 gal
3	Antifreeze Tank	25 gal
Features		Parameters
1	Stake down System	Optional
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Wire Line Ready	Commentating Ring, Wire line Spool
8	Auto Greaser	N/A
9	Operator's Cab (Standard)	Glassed Cab (Heater & Air Conditioner, MFD Digitrak Display, Video Camera with LCD monitor)
10	Extreme Weather Package (Optional)	Engine Preheater, Heated Rack and heated hydraulic oil



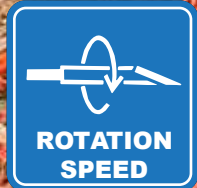


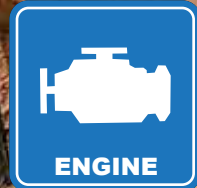
- AUTO-GREASER
- HIGH PERFORMANCE MUD PUMP, BEST IN ITS CLASS
- AIR HAMMER SETUP
- AUTO CURVE
- STEEL TRACKS WITH RUBBER PADS
- MUD FLOW METER
- MANUAL OVERRIDE
- MUD FLOW METER


**THRUST/  
PULLBACK**

250,000 LB\*


**TORQUE**

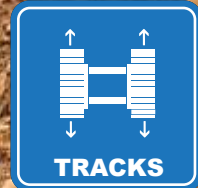
 20,000/  
40,000 FT/LB

**ROTATION  
SPEED**

 0-100 RPM (HIGH)  
0-50 RPM (LOW)

**ENGINE**

 TURBOCHARGED  
400 HP JOHN DEERE

**MUD PUMP**

312 GAL/MIN


**TRACKS**

STEEL



The break-out system features heavy-duty replaceable jaws designed to last and open-top architecture for additional visibility. Also featuring Active Centralizer System (ACS) to reduce wear on drill stems.



On-board crane with superior lift-to-weight ratio, long-reach capabilities, and wireless remote control.



Optional on-board Apex mud pump, which delivers up to 312 g/min. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.





- WIRELESS REMOTE CONTROL
- OPTIONAL WINTER OR TROPICAL PACKAGES
- HEAVY-DUTY STEEL TRACKS
- DUAL SECTIONAL RACK & PINION
- WIRELINE SYSTEM READY



Our high performance motors produce high volumetric and mechanical efficiencies. Built to be reliable, safe and easy to service for years to come.



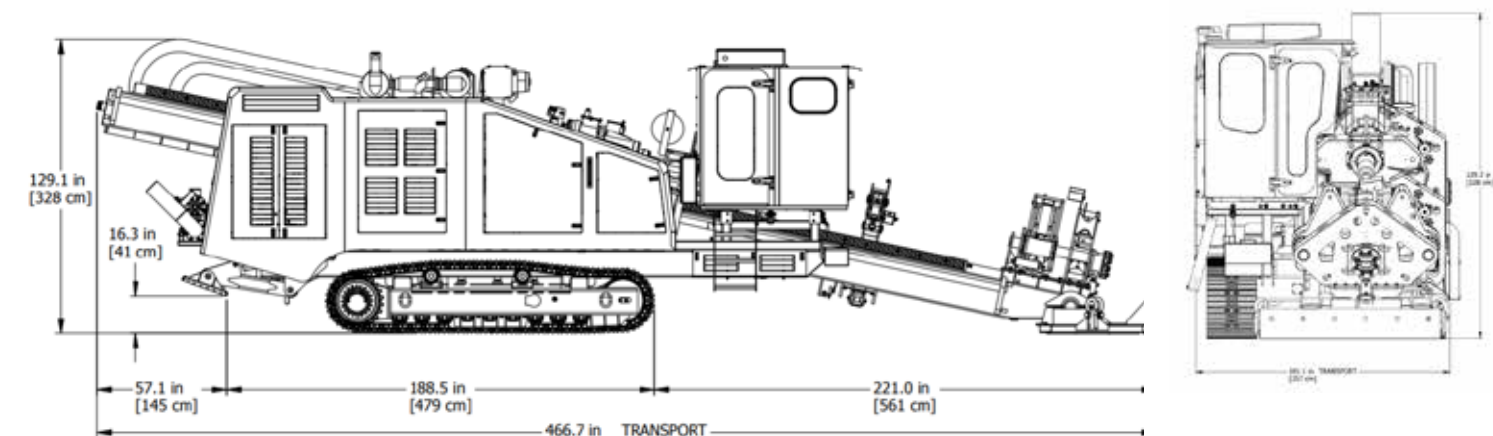
Spacious cab provides operator comfort and improved visibility. An intuitive instrument panel layout for ease of operation reduces operator fatigue. Includes heater & air conditioner, Digitrak Display, Video Camera with LCD monitor.



Double back breakdown provide enhanced support and stability for the rig during a drilling cycle. Two steakdowns can be independently adjusted depending on terrain.

### SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	456"
2	Width (Transport position)	99"
3	Width (With Cab, Transport Position)	99"
4	Height ((Transport position)	125"
5	Height (With Cab)	125"
6	Weight	64,500 lbs
7	Weight (With Cab Option)	64,500 lbs
Engine		Parameters
1	Make and Model	John Deere Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	400 H.P.
4	Number of Cylinders	6
5	Rated RPM	2,200 RPM
6	EPA Certification	Tier IV Final
Operational		Parameters
1	Maximum Thrust	250,000 Lbs
2	Maximum Pullback	250,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	20,000 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	40,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	50 RPM
6	Maximum Rotation Speed (Low Displacement)	100 RPM
7	Maximum Ground Drive	2.8 mph
8	Crane on board	Yes
9	Tracks	Steel
10	Drill Rack Angle	12-16 deg
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	N/A
Drilling Fluid System		Parameters
1	Make and Model	Aplex "SC-170L"
2	Maximum Flow	312 GMP
3	Maximum Pressure	1136 PSI
Fluid Capacities		Parameters
1	Fuel Tank	146 gal
2	Hydraulic Tank	215 gal
3	Antifreeze Tank	25 gal
Features		Parameters
1	Stake down System	Optional
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Wire Line Ready	Commentating Ring, Wire line Spool
8	Wireless Remote Control	Yes
9	Auto Greaser	N/A
10	Operator's Cab	Glassed Cab (Heater & Air Conditioner, Aurora Digitrak Display, Video Camera with LCD monitor)
11	Extreme Weather Package	Engine Preheater, Heated Rack and heated hydraulic oil





CUSTOM HDD RIGS  
UNI 360x500

SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	645"
2	Width (Transport position)	99"
3	Width (With Cab, Transport Position)	100"
4	Height ((Transport position)	138"
5	Height (With Cab)	138"
6	Weight	88,500 lbs
7	Weight (With Cab Option)	88,500 lbs
Engine		Parameters
1	Make and Model	John Deere Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	600 H.P.
4	Number of Cylinders	6
5	Rated RPM	2,200 RPM
6	EPA Certification	Tier IV
Operational		Parameters
1	Maximum Thrust	360,000 Lbs
2	Maximum Pullback	360,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	25,000 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	50,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	40 RPM
6	Maximum Rotation Speed (Low Displacement)	80 RPM
7	Maximum Ground Drive	2,4 mph
8	Crane on board	Yes
9	Tracks	Steel
10	Drill Rack Angle	12-16 deg
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	N/A
Drilling Fluid System		Parameters
1	Mud Pump	N/A
Fluid Capacities		Parameters
1	Fuel Tank	208 gal
2	Hydraulic Tank	245 gal
3	Antifreeze Tank	25 gal
Features		Parameters
1	Stake down System	Optional
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Wire Line Ready	Commentating Ring, Wire line Spool
8	Wireless Remote Control	Yes
9	Auto Greaser	N/A
10	Operator's Cab (Off Board) in the form of 20' Con-tainer with glassed windows (Included)	Heater & Air Conditioner, "Aurora" Digitrak Display, two Video Cameras with two LCD monitors
11	Extreme Weather Package (Included)	Engine Preheater, Heated Rack and heated hydraulic oil

UNI 500x700

SPECIFICATION

General Dimensions and Weight		Parameters
1	Length (Transport position)	645"
2	Width (Transport position)	98"
3	Width (With Cab, Transport Position)	100"
4	Height ((Transport position)	138"
5	Height (With Cab)	138"
6	Weight	92,500 lbs
7	Weight (With Cab Option)	N/A
Engine		Parameters
1	Make and Model	John Deere Turbo Diesel
2	Fuel Type	Diesel
3	Gross Horsepower	600 H.P.
4	Number of Cylinders	6
5	Rated RPM	2,100 RPM
6	EPA Certification	Tier IV Final
Operational		Parameters
1	Maximum Thrust	500,000 Lbs
2	Maximum Pullback	500,000 Lbs
3	Maximum Spindle Torque (Low Displacement)	35,000 Ft/Lb
4	Maximum Spindle Torque (High Displacement)	70,000 Ft/Lb
5	Maximum Rotation Speed (Low Displacement)	40 RPM
6	Maximum Rotation Speed (Low Displacement)	80 RPM
7	Maximum Ground Drive	2.3 m/ph
8	Crane on board	Yes
9	Tracks	Steel
10	Drill Rack Angle	12-16 deg
11	Travel Type	Dual Rack & Pinion
12	Rod Basket Capacity	N/A
Drilling Fluid System		Parameters
2	Maximum Flow	650 G/pm
3	Maximum Pressure	1,500 PSI
Wrench (Breakout System)		Parameters
1	Maximum Breakout Torque	154,000 ft/lb
2	Maximum Makeup Torque	101,700 ft/lb
3	Wrench Travel	Wrench has full lengths thrust frame travel
Fluid Capacities		Parameters
1	Fuel Tank	208 gal
2	Hydraulic Tank	245 gal
3	Antifreeze Tank	25 gal
Features		Parameters
1	Stake down System	Optional
2	Zap/Strike Alert	Yes
3	Mud Flow Indicator	Yes
4	Drilling Lights	Yes
5	Auto Curve	Yes
6	Air Hammer ready	Yes
7	Wire Line Ready	Commentating Ring, Wire line Spool
8	Auto Greaser	N/A
9	Operator's Cab (separate off board )	Containerized Cab (Heater & Air Conditioner, Aurora Digitrak Display, Video Camera with LCD monitor)
10	Extreme Weather Package (Optional)	Engine Preheater, Heated Rack and heated hydraulic oil



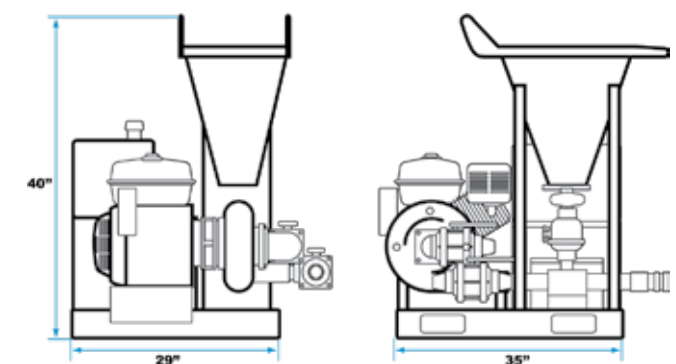


**PUMP OUTPUT:** 370 g/min  
**ENGINE:** 13.0 H.P Honda  
**FUEL TYPE:** Gasoline



### SPECIFICATION

UNIMIX 13.0	
ENGINE	HONDA 13.0 HP
ENGINE TYPE	AIR-COOLED, 4-STROKE, OHV, SINGLE CYLINDER
ENGINE FEATURES	OIL ALERT
STARTER	RECOIL OR ELECTRIC STARTER
FUEL CAPACITY	6.4 QT (6.1 LIT)
FUEL TYPE	GASOLINE
PUMP (OUTPUT)	370 GPM (1,400 LIT)



### CENTRIFUGAL PUMP

The centrifugal pump is designed to handle abrasive, corrosive dirty and reclaim process fluids. Its heavy-duty rotating impeller is designed for high volume pressure and increasable durability.

### VALVES

UNIMIX series mixers come outfitted with noncorrosive and durable valves, designed for maximum flow efficiencies with high pressure ratings. They feature a dial handle for easy flow regulation and visual indication of valve setting, plus Teflon seats for dependable sealing.

### HONDA 13.0 HP ENGINE

With 4-cycle 13.0 horsepower, Honda high-output, environmentally friendly engine, gives you more power to insure stable flow of mud fluid. Honda has taken their technology one step further with the development of the GX Series, a line of rugged, powerful and economical engines.

### ELECTRIC STARTER

Build and designed for every-day use, all UNIMIX models are equipped with electric starter for easy and more convenient starts. Every mixer also feature newly designed recoil starter which has a larger starter reel making manual starting fast and easy.





**PUMP OUTPUT:** 430 g/min  
**ENGINE:** 13.0 H.P Honda  
**FUEL TYPE:** Gasoline



### SPECIFICATION

UNIMIX 24.0	
ENGINE	HONDA 24.0 HP
ENGINE TYPE	AIR-COOLED, 4-STROKE, OHV, 90L V-TWIN
ENGINE FEATURES	OIL ALERT
STARTER	RECOIL OR ELECTRIC STARTER
FUEL CAPACITY	6.4 QT (6.1 LIT)
FUEL TYPE	GASOLINE
PUMP (OUTPUT)	370 GPM (1,400 LIT)

### DESIGN

All UNIMIX series mixers designed for both easy transportation and maximum productivity. It is an optimal balance between efficiency, power and portability. The heavy duty and innovative design delivers high shearing capability and requires low maintenance.

### ELECTRIC STARTER

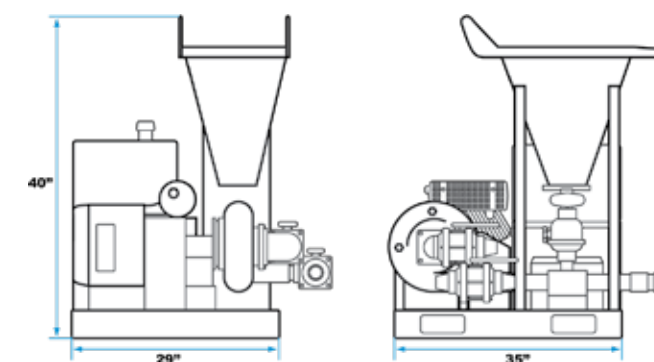
Build and designed for everyday use, all UNIMIX models are equipped with electric starter for easy and more convenient starts. Every mixer also feature newly designed recoil starter which has a larger starter reel making manual starting fast and easy.

### VALVES

UNIMIX series mixers come outfitted with noncorrosive and durable valves, designed for maximum flow efficiencies with high pressure ratings. They feature a dial handle for easy flow regulation and visual indication of valve setting, plus Teflon seats for dependable sealing.

### CENTRIFUGAL PUMP

The centrifugal pump is designed to handle abrasive, corrosive dirty and reclaim process fluids. Its heavy-duty rotating impeller is designed for high volume pressure and increasable durability.



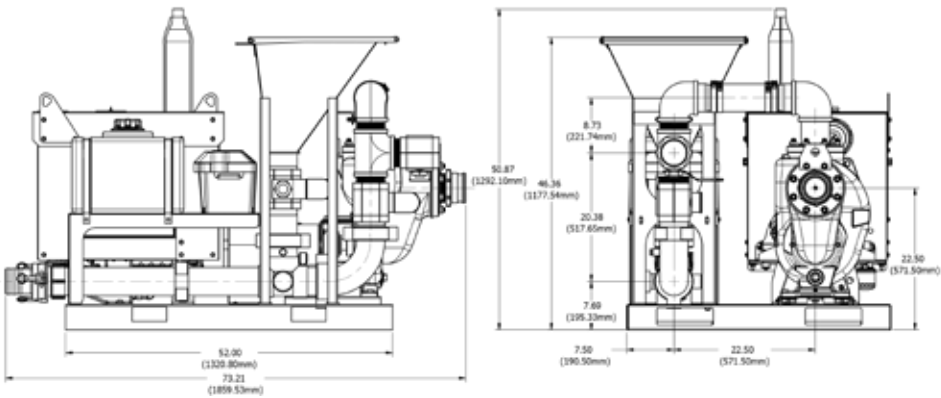


**PUMP OUTPUT:** 640 g/min  
**ENGINE:** 42 H.P Kubota  
**FUEL TYPE:** Diesel



SPECIFICATION

UNIMIX 440	
ENGINE	KUBOTA 42 HP
ENGINE TYPE	AIR-COOLED, 4-STROKE, OHV, 90L V-TWIN
ENGINE FEATURES	OIL ALERT
STARTER	RECOIL OR ELECTRIC STARTER
FUEL CAPACITY	12.0 GAL
FUEL TYPE	DIESEL
PUMP (OUTPUT)	640 GPM (2,422 LIT)



# UNITANKS



## DESIGN

Efficient, portable, heavy-duty, and cost-effective, all our water tanks are designed specifically for horizontal directional drilling industry.

## DURABLE

These mud storage tanks are made to last. Our mud tanks are tough enough to meet the standards of the U.S. Department of the Interior, USDA and the Department of Transportation.

## TRANSPORTATION

Our mud tanks are light-weight and easy to handle. Often times mud tanks must be placed in a location not easily accessible. Universal HDD mud tanks can be easily maneuvered, and lifted into position. Simply install on native soil or sand pad.

## TANK JETS

Every UNITANK series water tank features a set of high-performance tank jets. These tank jest are constructed from industrial strength materials, and are able to deliver prompt and thorough yield. In turn, this means faster and higher quality yield.



UNITANK	1000		750	
	U.S.	METIC	U.S.	METIC
CAPACITY	1,000 GAL	3,785 LIT	750 GAL	2,835 LIT
TANK JETS	4	4	3	3
LENGTH	141 INCH	358 CM	105 INCH	268 CM
HEIGHT	69 INCH	175 CM	66 INCH	168 CM
WIDTH	48 INCH	122 CM	48 INCH	122 CM
WEIGHT (EMPTY)	1,300 LB	591 KG	450 LB	200 KG
WEIGHT (FULL)	9,600 LB	4,364 KG	4,630 LB	2,100 KG





Skid mount pump provides a complete, self-sustaining, mud delivery package. Combining a unique mounting platform, for fixed or mobile positioning of the unit, with a fully integrated 275 H.P. John Deere Turbo diesel engine and plumbing system for up to 320 g/min of mud delivery capability.

**PUMP OUTPUT:** 320 g/min  
**MAX PSI:** 1,000 PSI  
**ENGINE:** 275 H.P. John Deere  
**FUEL TYPE:** Diesel



UNI-GEL – sodium bentonite is used for drilling as a preparation base of drilling fluids with necessary technical parameters; Uni-GEL\* viscosifier is a premium bentonite blended with special extenders, capable of yielding more than twice as much viscosity as regular bentonite.



UNI-BORE – prepared mixture of drilling fluid based on sodium bentonite for MINI and MIDI classes for work in clay as well as sandy clay. For drilling in more complicated soil (clay, sand, gravel, etc.) or MAXI and MEGA classes, it is recommended to use polymer additives (depends on soil condition); UNI-BORE HDD system provides suspension, wellbore stability and filtration control. The system also helps reduce torque and drag for water-base applications and is designed to minimize environmental impact.



UNI-PHPA-partially hydrolyzed polyacrylamide is used for drilling in cohesive soil (inactive and active clay) for the purpose of clay fraction encapsulation, well cleaning and prevention of adhesion on the tooling; UNI-PHPA is a readily dispersible product designed to provide cuttings encapsulation and shale stabilization. It is formulated for easy mixing with improved dispersion to eliminate “fish eyes.” This is beneficial when rapidly mixing either large quantities or high concentrations of polymer where good mixing equipment is unavailable.

## UNIMUD 560 DUAL



**PUMP OUTPUT:** 560 g/min (Dual Pumps)  
**MAX PSI:** 1,100 PSI  
**ENGINE:** 400 H.P. John Deere  
**FUEL TYPE:** Diesel

Trailer mounted option provides a fully mobile and self-sustaining mud delivery package. Utilizing a heavy duty trailer with fuel tank for extended operations, a fully integrated 400 H.P. John Deere Turbo diesel engine and plumbing system for up to 560 g/min of mud delivery capability.

Featuring two on-board Apex mud pumps designed and manufactured to deliver high flows of mud for any type of drilling application. The innovative design allows easier access to the impeller, seals, other critical components and makes routine maintenance easier.



UNI-PAC polyanionic cellulose is effective in low concentrations, with the normal fluid-loss treatment ranging from 0.25 to 1 lb/bbl (0.71 to 2.85 kg/m<sup>3</sup>). This product is applicable in all water-base muds, ranging from low-solids, non-dispersed polymer systems to high-density, dispersed systems. It is used as a filtrate reducer and borehole stabilizer in water-base drilling applications.



UNI-VIS biopolymer is used for drilling in non-cohesive soil (sand, gravel, etc.) for the purpose of increasing rheological characteristics (carrying capacity, gel strength). On high complexity job sites preferably to use it in combination with UNI-PAC; UNI-VIS is a dispersible, non-clarified, high-molecular weight biopolymer used for increasing viscosity in water-base base drilling fluid systems.



UNI-LUB – lubricant additive for all drilling fluid types is used for coefficient friction reducing, protection against tool corrosion as well as prevention of adhesion on the tooling





AUTHORIZED DEALER

UNIVERSAL HDD IS AN AUTHORIZED DEALER OF HUNTING IBERIA. AND WE OFFER A COMPLETE LINE OF HUNTING'S HDD DRILL RODS.

It's not just a stick of pipe. It's the lifeline of your next job. If it fails, you fail. That's why Hunting pioneered the one-piece, upset-forged design around a zero-fail philosophy. From raw materials to final machining, every stick of Hunting drill pipe and tooling is built to tougher standards than any other pipe in the industry.

HIWS1

HXT

Thread	Tool Joint OD (in)	Pipe OD (in)	Pipe Length (in) Shoulder-To-	Pin Length (in)	Overall Length (in)	Torque (ft-lb)	Bend Radius (ft)	% Slope Per Rod
#200	1.875	1.315	72	2	74	900	57.3	0.099
#200	1.875	1.66	72	2	74	1500	95.5	0.062
#200	1.875	1.66	120	2	122	1500	95.5	0.105
#250	2.125	1.9	120	2.5	122.5	2000	98.7	0.102
#400	2.25	2.06	120	2.5	122.5	2600	101.9	0.098
#600	2.625	2.375	120	2.5	122.5	4000	108.2	0.093
#600	2.625	2.375	180	2.5	182.5	4000	108.2	0.139
#700	3.1	2.625	120	3	123	5000	145	0.069
#700	3.1	2.625	180	3	183	5000	145	0.104
#900	3.25	2.875	120	3.5	123.5	9000	168.7	0.058
#900	3.25	2.875	180	3.5	183.5	9000	168.7	0.087
#800	3.625	3.5	180	3.5	183.5	10000	197.4	0.075
#1000	4.375	3.5	240	3.5	243.5	15000	197.4	0.102
#402	2.5	2.062	120	2.75	122.8	3300	101.9	0.098
#602	2.75	2.375	120	2.75	122.8	5000	108.2	0.093
#602	2.75	2.375	180	2.75	182.8	5000	108.2	0.139
#602F	2.8	2.625	180	2.75	182.8	5000	145	0.104
#902	3.875	2.875	180	3.5	183.5	13000	168.7	0.089
#802	4.125	3.5	240	3.5	243.5	18000	197.4	0.101
#802	4.125	3.5	180	3.5	183.5	18000	197.4	0.075
6010	2.25	2.062	120	2.5	122.5	1500	101.9	0.098
6030	2.625	2.375	120	2.5	122.5	4000	108.2	0.093
2020	2.625	2.375	120	2.5	122.5	4000	108.2	0.093

HIWS1 DRILL PIPE

The HIWS1 drill pipe is a premium stem manufactured from a special I-135-grade alloy material; heat-treated and forged, machined and inspected to precision specifications to ensure a high-quality drill pipe. HIWS1 is designed with a deep-stabbing course thread design that allows for faster make up and break out. HIWS1 is the original top-performing drill pipe on the market.

Design Components of the HIWS1 Drill Pipe:

- Steep-tapered, deep-stabbing connection
- Fast-pitch thread for quick make up
- Double-shouldered design for added torque
- Internal and external upset to optimize strength and performance
- Shot blast on connections to adhere thread compound & increase thread life
- Protectors applied to pin and box connections to prevent damage

HIWS1 DRILL PIPE

A patented Hunting design that is an exclusive in the HDD industry. The HXT™ Drill Pipe is built to the same standards as the HIWS1 while offering a patented design to increase torque capabilities as it resists flaring. The HXT™ is also designed with larger IDs to allow an increase in flow capacity. HXT™ is designed to run on higher torque machines for drilling in today's tougher conditions. The Hunting HXT™ is the original top-performing high-torque drill stem on the market.

Design components of the HXT™ Drill Pipe:

- Same stabbing and make up capabilities as the HIWS1
- Larger internal bore sizes for increased flow needs
- Patented design for high-torque applications
- Internal and external upset to optimize strength and performance
- Shot blast on connections to adhere thread compound & increase thread life
- Protectors applied to pin and box connections to prevent damage



AFTER-MARKET DRILL RODS

FORGED S-135 STEEL

Manufactured from highest-quality steel which delivers optimal balance between toughness and flexibility.

DESIGN

Designed for high-performance, high torque, and maximum resistance to abrasive environment.

QUALITY

All the machining is performed at very high precision levels and and quality inspections are performed during every production stage and process.

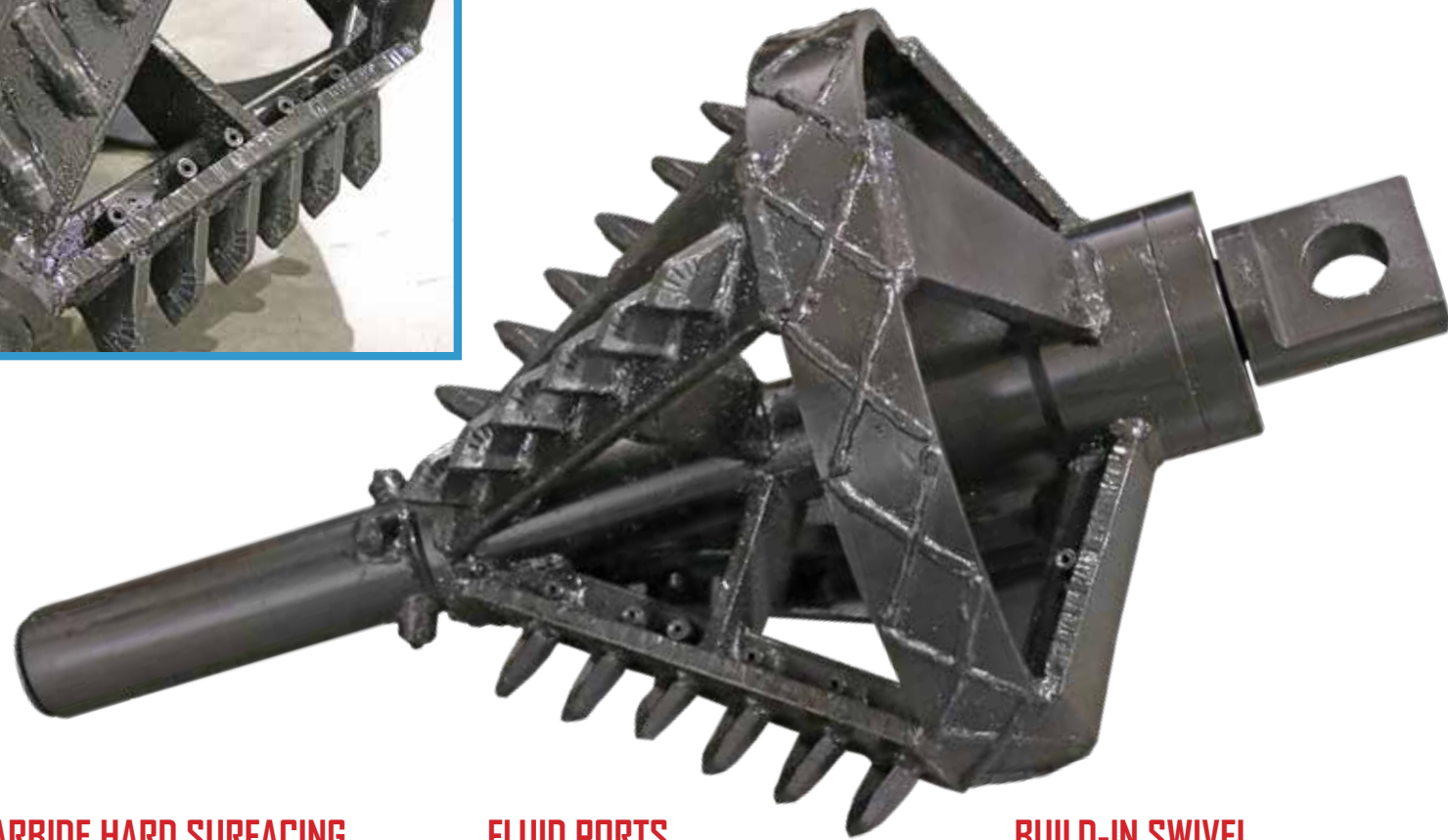
VERMEER COMPATIBLE

Rig	Thread	Tool Joint OD (in)	Pipe OD (in)	Pipe Length (in) Shoulder-To-Shoulder	Pin Length (in)	Torque (ft-lb)
D7x11	#200	1.875	1.66	72	2	1500
D16x20   D18x22	#200	1.875	1.66	120	2	1500
D24x40	#600	2.625	2.375	120	2.5	4000
D36x50 10'	#650	2.75	2.375	120	2.5	5000
D36x50 15'	#650	2.75	2.375	180	2.5	5000
D36x50 10'	#700	3.1	2.625	120	3	5000
D36x50 15'	#700	3.1	2.625	180	3	5000
D50x100	#900	3.25	2.875	180	3.5	9000
D80x100	#800	3.625	3.5	180	3.5	10000

DITCH WITCH COMPATIBLE

Rig	Thread	Tool Joint OD (in)	Pipe OD (in)	Pipe Length (in) Shoulder-To-Shoulder	Bend Radius (ft)
JT920	1.41	2	1.66	78.75	98
JT920L	1.41	2	1.66	118	98
JT1720	1.69	2.5	2.063	118	122
JT2020	1.94	2.625	2.063	118	112
JT2720	2.11	2.75	2.375	118	140
JT2720 MI	2.11	3	2.375	118	140



**CARBIDE HARD SURFACING**

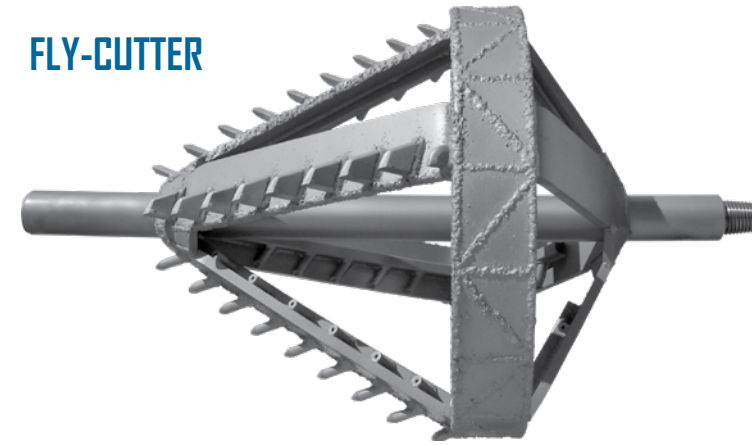
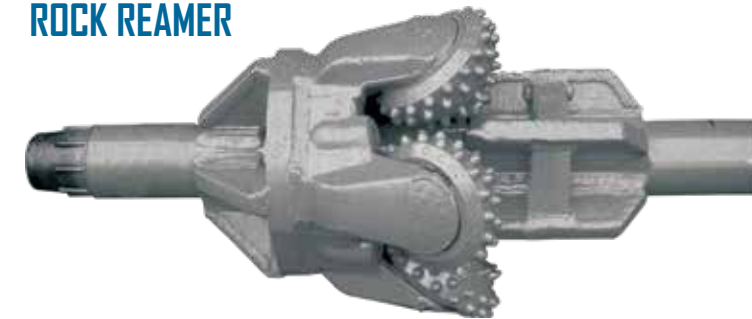
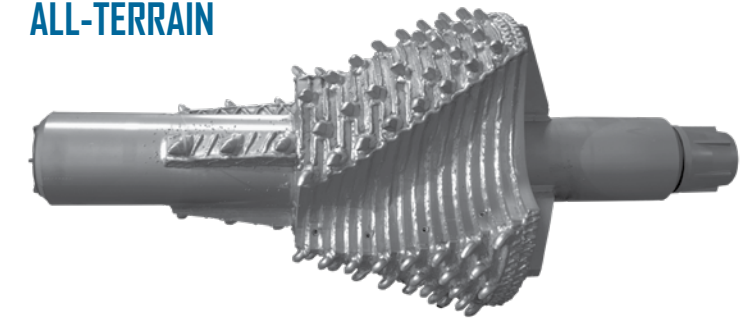
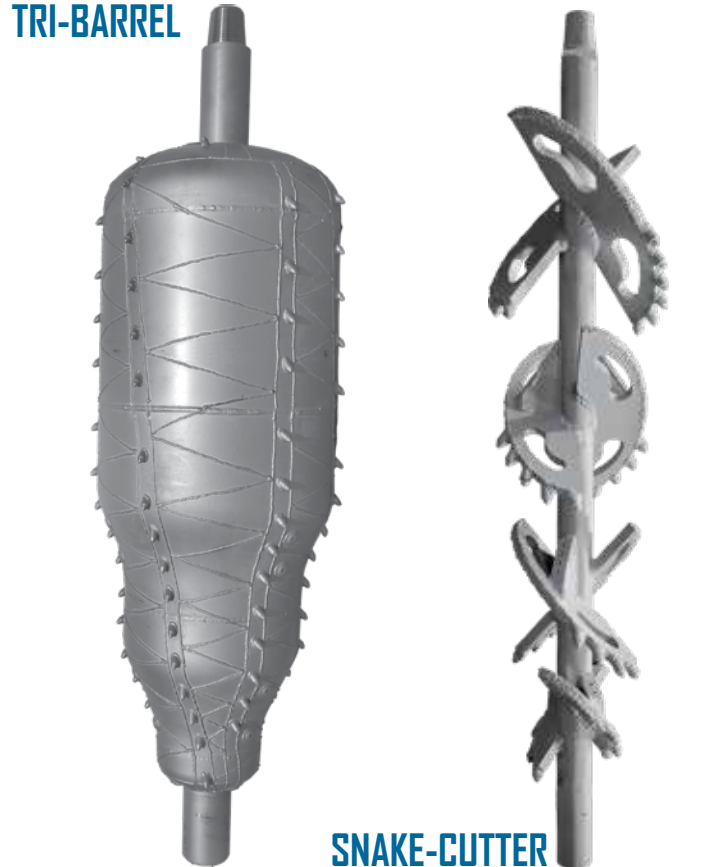
Heavy-duty carbide hard surfacing along the body of the reamer helps protect against abrasive ground and extend the life of the reamer. Carbide cutters placed along the body of the reamer, delivering superior cutting power.

**FLUID PORTS**

Replaceable fluid ports deliver high pressure fluid stream into the bore, softening the ground and cooling down tooling.

**BUILD-IN SWIVEL**

Fly-cutter and fluted reamers come standard with build-in 25 ton or 35 ton swivel. All mechanical components are manufactured from high strength alloy steel and are designed to withstand a straight tensile load.

**FLY-CUTTER****ROCK REAMER****ALL-TERRAIN****BLADE****TRI-BARREL****SNAKE-CUTTER****CUSTOM MAXI REAMERS**



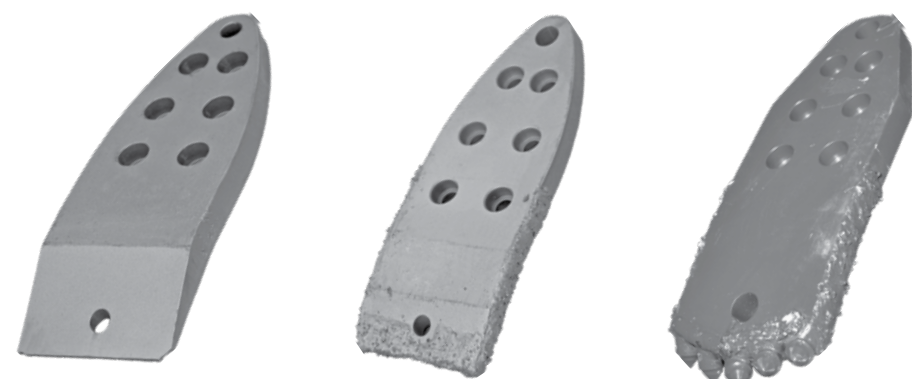
15 TON



25 TON



35 TON



WIDE SELECTION OF DRILL BITS

HEAVY-DUTY SONDE HOUSINGS



## USED EQUIPMENT

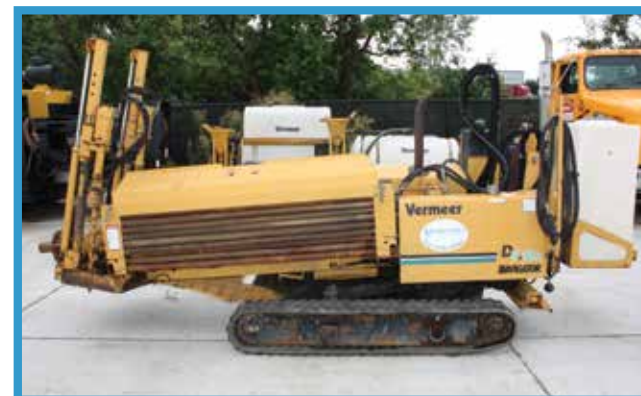
Universal HDD is proud to offer you the large selection of certified used and refurbished equipment. From small rigs to large rigs, we've got the equipment you've been looking for.

## TRADE-IN & BUY PROGRAM

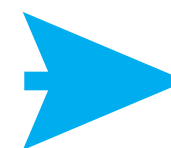
We buy and sell used equipment no matter what shape it is. If it is broken, we can fix it.

## REFURBISHING

Universal HDD offers 13-point inspection and restoration service on all used equipment. Our complete service includes: rebuilding, replacement of all broken equipment, repainting and complete testing.



BEFORE



AFTER



## UNIVERSAL HDD

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Email: [info@unihdd.com](mailto:info@unihdd.com)

Web: [www.unihdd.com](http://www.unihdd.com)

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](http://www.unihdd.com).