



# AMERICAN AUGERS®

an Astec company



## DD-10

Horizontal Directional Drill

The American Augers line of underground construction equipment is second-to-none.

- Auger Boring Machines
- Maxi-Rig & Mid-Size Directional Drills
- Oil & Gas Drilling Rigs
- Mud Pump & Cleaning Systems
- Product Tooling & Accessories

American Augers products are manufactured at the company's 241,000 square-foot facility in West Salem, Ohio, in the heart of Amish country between Columbus and Cleveland.

Since the founding of American Augers in 1970, there has never been a change in the company's core value: having products developed by a can-do work force that focuses on mechanical, technological and customer-based design improvements. Our goal is to always exceed customer expectations by providing products that are not a cost of doing business, but an **Investment in Success.**

**Did You Know?** American Augers was the first HDD manufacturer to eliminate chain and utilize a rack and pinion carriage design which is now the industry standard. Our rack and pinion drive provides smoother carriage movement, more precise operating control, long system life and no complicated parts.

American Augers machines are supported through a dedicated parts and technical service department. We are here to help whenever you need us 24 hours a day, 7 days a week, emergency or not.

[www.AmericanAugers.com](http://www.AmericanAugers.com)



### Operator's Cabin

Climate controlled, microprocessor control system, mud pressure gauge, digital mud flow meter and rotary tachometer, pressure control for rotary/thrust, variable rotary speed, ergonomic joy stick



### Quiet Pak®

Noise reduction system

### High Rotary Torque

Most rotary torque in its class

### Superior Thrust / Pullback

### Rack and Pinion

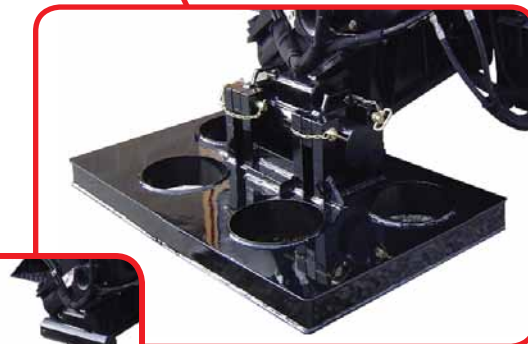
design is a field-proven feature that maximizes overall equipment performance, strength and reliability



### On-Board Mud Pump

Compact self-contained design

### Rear Thrust Stabilizers



### Optional Quick Disconnect Anchor Plate

Allows for multiple drilling angles



### Mechanized Pipe Loading and Removable Pipe Baskets

with a working capacity of 420 ft. (128 m) of on-board pipe; baskets hold 9 pieces of drill pipe each

### Rubber Tracks

for positive travel over a variety of terrain with little damage to surface

### Optional 15 ft. (4.5 m) Pipe Loader

# PERFORMANCE SPECIFICATIONS

## Power Train

Engine:	Caterpillar C-6.6 Tier III Diesel
Rating:	230 HP (171.5 kW)
Fuel Capacity:	67 U.S. Gallons (254 L)
Fuel Duration Rating:	8 Hour Continuous Operation
Hydraulic Capacity:	107 U.S. Gallons (405 L)
Battery:	(3) Deka 1131PMF, 12 V, 925 CCA
Noise Rating:	78 dB(A)

## Carriage System

Carriage System:	Rack and Pinion, (6) Pinion Drive with Adjustable Force Limiter
Maximum Thrust/Pullback:	100,000 lbs. (45 Tonnes)
Maximum Carriage Speed:	106 ft. (32.3 m)/minute
Carriage Motor:	(6) Hydraulic, LSHT, Dual Displacement
Carriage Gearbox:	(6) Planetary Drive-SGL SAE A

## Rotary Drive

Rotary Drive:	(2) Pinion and Gear Drive with Infinitely Variable Torque
Maximum Rotary Torque:	14,000 ft.-lbs. (18,982 Nm)
Maximum Rotary Speed:	150 RPM
Rotary Motor:	(2) 80cc Variable Displacement
Rotary Brakes:	(1) Spring Applied/Hydraulic Release SAE C
Rotary Gearbox:	(2) Planetary Drive-SGL, SAE-C
Fluid Course:	2 in. (50 mm)
Maximum Flow:	250 U.S. Gallons (945 L)/minute
Maximum Pressure:	1,500 psi (103 bar)
Side-Entry Sub:	2 7/8 in. (73 mm) IF
Slip Spindle:	2 7/8 in. (73 mm) IF
Misc:	Wireline Commutator, Slip Ring

## Wrench

Wrench Design:	Open-Top Style
Clamp/Grip Range:	2 7/8 in. - 4 1/8 in. (73 - 104.8 mm)
Maximum Breakout Torque:	32,000 ft.-lbs. (43,390 Nm)
Maximum Makeup Torque:	26,000 ft.-lbs. (35,250 Nm)
Fixed Hydraulic Cylinder:	(2) 6 in. Bore x 4 in. Stroke (152.4 - 101.6 mm)
Rotational Hydraulic Cylinder:	(2) 6 in. Bore x 4 in. Stroke (152.4 - 101.6 mm)
Breakout Hydraulic Cylinder:	(1) 3.5 in. Bore x 4.47 in. Stroke (88.9 - 113.5 mm)

## Drilling Fluid Pump

Pump:	Triplex Piston Pump with Non-Electric Liner Wash
Maximum Flow:	200 U.S. Gallons (757 L)/minute
Maximum Pressure:	1,100 psi (75.8 bar)

## Pipe Loader

Maximum Pipe Basket Capacity:	20 ft. (6.1 m) Standard, 15 ft. (4.5 m) Optional
Total Drill Pipe Length (per basket):	(9) Pieces of 20 ft. (6.10 m) Drill Pipe
Maximum On-Board Pipe Baskets (Working):	180 ft. (55 m)
Drill Pipe in On-Board Staging Area:	(2) for 360 ft. (110 m) of Drill Pipe
Total Drill Pipe Length (Working):	(3) Pieces of 20 ft. (6.10 m) Drill Pipe
Maximum On-Board Pipe Baskets (Transport):	420 ft. (128 m)
	(1)

## Working Range

Drill Angle:	Fixed at 15°/27% Grade or Optional Quick Disconnect Anchor Plate
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## Drill Pipe

Length:	20 ft. (6.10 m)
Outside Tube Diameter:	3 1/2 in. (89 mm)
Tool Joint Outside Diameter:	4 1/8 in. (104.8 mm)
Thread Type:	2 7/8 IF Pin x Box (73 mm)
Water Course:	2 1/8 in. (54 mm)
Weight:	358 lbs. (162.4 kg) each

## Drill Rig Mounting

Travel System:	Self-Propelled on Track Crawler Assembly
Track Material:	Polyurethane Rubber
Flat Surface Travel Speed:	2.25 mph (3.62 km/h) Forward and Reverse
Ground Bearing Pressure:	10.6 psi (0.73 bar)

## Safety

### Safety Features

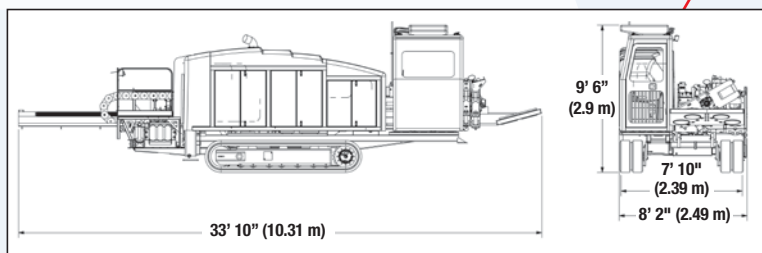
- Es!Lok – Exit Side Lockout System
- Zap-Alert Electrical Detection Device
- Emergency Shutdown Switch at Operators Console
- Electrical Grounding Rods
- Work Lights: (3) 12 Volt

## Weight

Drill Rig Weight (w/o Drill Pipe):	36,728 lbs. (16,660 kg)
Drill Rig Weight (Transport):	(1) Pipe Basket (9) Pieces of Drill Pipe + (3) Pieces of Drill Pipe from Staging Area 41,024 lbs. (18,608 kg)
Drill Rig Weight (Working):	(2) Pipe Baskets with (18) Pieces of Drill Pipe + (3) Pieces of Drill Pipe from Staging Area 44,246 lbs. (20,069 kg)

## Transport Mode Dimensions

Length:	33 ft. 10 in. (10.31 m)
Width:	8 ft. 2 in. (2.49 m)
Track Width:	7 ft. 10 in. (2.39 m)
Height:	9 ft. 6 in. (2.9 m)



## Environmental Commitment

American Augers is committed to manufacturing equipment that helps to preserve the sanctity of the global environment, and has done so by reducing noise and/or emissions outputs, and emphasizing the fact that our trenchless technology equipment requires little or no open cutting, which has very minimal impacts on natural surfaces, features, or habitats.