

A PERFORMANCE SPECIFICATIONS A

Power Train

Engine:	Caterpillar® C-9 Tier III Diesel Engine
Rating:	300 HP (224 kW)
Fuel Capacity:	270 U.S. Gallons (568 L)
Hydraulic Capacity:	270 U.S. Gallons (568 L)
Hydraulic Filter:	High Pressure Filtration Return to 6 Micron ABS
Battery:	Two, Deka 908DMF, 12 V, 1450 CCA

Carriage System

Maximum Thrust/Pullback:	210,000 lbs. (94 Tonnes)
Carriage System:	Rack & Pinion, (6) Pinion Drive with Adjustable Force Limiter
Maximum Carriage Speed:	95 feet (29 m)/minute
Carriage Motors:	Six, Hydraulic 80cc, Radial Piston, Dual Displacement
Carriage Brakes:	Three, Spring Applied/Hydraulic Release C-Input/C-Output
Planetary Gearbox:	Six

Rotary Drive

Rotary System:	(2) Pinion & Gear Drive with Infinitely Variable Torque
Maximum Rotary Torque:	25,000 ft-lbs (33,750 Nm) @ 0 – 50 RPM
Minimum Rotary Torque:	10,000 ft-lbs (13,500 Nm) @ 0 – 100 RPM
Maximum Rotary Speed:	100 RPM
Rotary Motors:	Two, Hydraulic 110cc, Axial Piston, Variable Displacement,
Rotary Brakes:	Two, Spring Applied/Hydraulic Release D-Input/C-Output
Fluid Course:	3" (76 mm)
Mud Flow Rate:	Permits up to 650 U.S. gallons (2,460 L)/minute
Maximum Mud Pressure:	1,500 psi (103 bar)
Slip Sub:	4 1/2" API-IF Box Pin
Wireline Commutator:	4 1/2 IF
Mud Swivel:	Rear Mounted, 4 N.P.T. L.H. Box Down Hole x 3
Other Features:	Digital Tachometer, Adjustable Torque Limiter, Wiggle Steer™

Drill Rig

Wrench/Clamp System:	Open Top Wrenches with 10" (245 mm) separation
Maximum Breakout Torque:	60,000 ft-lbs (80,000 Nm)
Maximum Makeup Torque:	25,000 ft-lbs (33,705 Nm)
Clamp/Grip Range:	2 3/4" – 10-3/4" (70 – 273 mm) OD
Drill Angle:	10° - 18°
Drill Pipe:	Range II – 34 ft (10.4 m)
Crane:	Drill Mounted with 8,000 lbs (3,629 kg) Lifting Capacity
Travel System:	Self Propelled on Excavator Track Ground Bearing Pressure: 8.4 PSI (0.5 bar)
Hold Down System:	H-Beam Type, Hold Down Stakes

Dimensions

Maximum Length:	Thrust Frame: 52 feet 6 inches (16 m) Travel System: 14 feet 9 inches (4.5 m) Under Carriage Assembly: 29 feet 9.6inches (9.1 m)
Maximum Height:	13 feet 6 inches (4.1 m)
Maximum Width:	8 feet 4.75 inches (2.6 m)

Weights

Total Weight:	58,600 lbs (26,580 kg)
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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.

A AMERICAN AUGERS®
an Astec company

Horizontal Directional Drill



DD 210

AMERICAN AUGERS an Astec Industries Company

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Since 1970 American Augers has been a devoted supplier of underground technology equipment that maintains rugged strength, unsurpassed power, and industry leading designs.

Never has there been a change in American Augers core value of having products developed by a can-do workforce that focuses on mechanical, technological, and customer based design improvements that from continent to continent meets American Augers goal of always exceeding customer's expectations by providing products that are not a cost of doing business, but an **Investment in Success!**



The DD 210 is a track mounted, surface launched, fluid assisted, mechanical directional drilling system that is the ideal piece of equipment for utility construction and smaller pipeline installation projects.

- Rack and Pinion Design for Unsurpassed Durability
- Superior Thrust Frame Structural Strength
- Self Propelled System on Excavator Tracks
- Adjustable Torque Limiter for Rotary and Makeup Force
- Field Proven Pipe Handling System with Remote Control Operated Hydraulic Crane
- Dedicated Pumps for Rotary and Thrust
- Dedicated Hydraulic Circuits
- Accommodates Range II Drill Pipe
- World Wide Service and Support

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. The American Augers rack and pinion drive provides smoother carriage movement, more precise operating control, longer system life, with less wear, and there are no complicated parts, that need to be consistently replaced. Innovations like these have allowed American Augers customers to perform at their best in all forms of utility installation and underground application projects.

Technology Spotlight: WIGGLE STEER™: American Augers Wiggle Steer™ system is a means to Rotate and Thrust the Drill Pipe in a Back & Forth motion to better open the bore path during Steering Operations. It is recommended for use when using a Mud Motor or a Jetting Head. The Wiggle Steer™ System will rotate the Drill Pipe in the Makeup (CW) direction while thrusting forward. It will then rotate the Drill Pipe in the Breakout (CCW) direction but will not thrust in the breakout direction. This method reduces the breakout torque and should prevent the drill string tool joints from parting down-hole. The Wiggle Steer™ System counts pulses from the RPM Sensors on the RPM Gear that are compiled in the RPM meter. The meter then sends a signal to the Carriage/Rotary Joystick(s) to control direction of both the Carriage and Rotary circuits. The speed of the Wiggle Steer™ Rotation and Thrust are controlled by the Carriage/Rotary Joystick(s).

EXCEPTIONAL FORCE

RELIABLE RESULTS