



Mid-Size

Horizontal Directional Drills

DD-110(S)

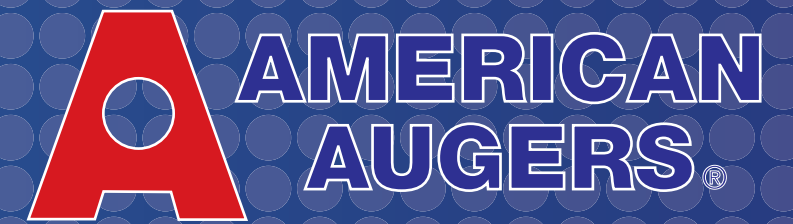
DD-155T

DD-220T



DD-110 / DD-110S

Horizontal Directional Drill



Our #1 Selling Rig!

110,000 lbs. (50 Tonnes)
Thrust / Pullback

Pipe Loader available in:

20 ft. (6 m): DD-110

15 ft. (4.5 m): DD-110S

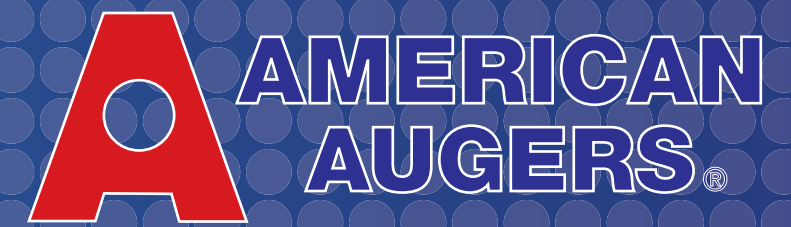
- A** Adjustable thrust and torque for mud motor and air hammer operations
- A** Plumbing for using a steerable air hammer is standard
- A** Wireline capable components come standard

- Offers the right features for performance and reliability yet it is the simplest design in the 100,000 lb. (50 tonne) class
- Standard Quick Disconnect Anchor Plate
for multiple drilling angles
- On-board Mud Pump
- **Wiggle Steer** when maneuvering in variable conditions becomes challenging
- Rear Thrust Stabilizers
- Mechanized pipe loading and removeable pipe baskets
- Rubber tracks
- **QUIET-PAK** Noise Reduction System



DD-155T

Horizontal Directional Drill



**155,000 lbs. (70 Tonnes)
Thrust / Pullback**

The Perfect Rig for Urban Areas!

20 ft. (6 m) Drill Pipe

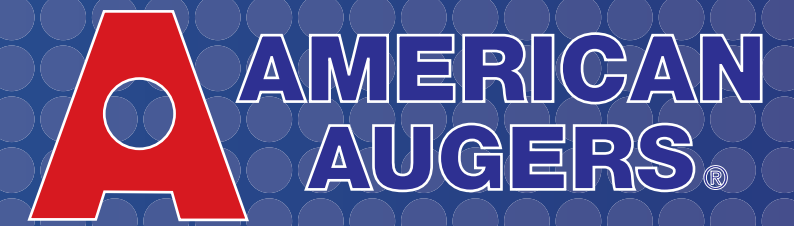


- Utilizes an off-board mud pump so all engine power goes to the thrust and rotation to ensure maximum production
- Advanced **QUIET-PAK** Technology with variable cooling: *hold a conversation next to the rig at full throttle!*
- The off-board cabin increases operator visibility and reduces operator fatigue from vibration
- A large display screen provides vital readouts to monitor operational loads
- Equipped with an optional multi-pipe loader or single pipe operation

- 30,000 ft. lbs. (40,674 Nm) of Rotary Torque *the floating carriage extends the thread life of the drill pipe*
- Maximum rotary speeds developed to work with large HDD tooling
- 12° to 22° drilling angle

DD-220T

Horizontal Directional Drill



The Maximum Power in a Mid-Size Rig!

**220,000 lbs. (100 Tonnes)
Thrust / Pullback**

Range II (34 ft. / 10.4 m) Drill Pipe



QUIET-PAK

- Range II drill pipe reduces the number of pipe connection/wireline connections vs. 20 ft. pipe options
- The off-board cabin provides space for the drill operator as well as the steering operator
- Adjustable wrenches allow for proper wrench alignment
- Optional sectionalized thrust frame for 20' pipe or easy transport
- Off-board mud pump allows all the engine power to go down hole for maximum production

Performance Specifications

**Note: All product performance specifications, components, weights, dimensions and other related information are subject to change without notice from the manufacturer.

	DD-110 / DD-110S	DD-155T	DD-220T
Power Train	Engine: Cummins QS5B6.7 Tier 4i or Tier 3 <i>(depending on country of purchase)</i> Rating: 260 HP (164 kW) @ 2200 RPM Fuel Capacity: 67 U.S. Gallons (254 L) Hydraulic Capacity: 107 U.S. Gallons (405 L) Battery: (2) Deka 908DME, 12 V, 1450 CCA-24 V System Quiet Pak Technology	Engine: CAT C7, Tier 4i or CAT C6.6 Tier 3 <i>(depending on country of purchase)</i> Rating: 275 HP (205 kW) Fuel Capacity: 120 U.S. Gallons (454 L) Hydraulic Capacity: 145 U.S. Gallons (549 L) Hydraulic Filter: High Pressure Filtration to 6 micron ABS Advanced Quiet Pak Technology with Variable Cooling	Engine: Cummins QSL9 Tier 3 or Tier 4i <i>(depending on country of purchase)</i> Rating: Tier 3 - 365 HP (272 kW), Tier 4i - 380 HP (283 kW) Fuel Capacity: 140 U.S. Gallons (530 L) Hydraulic Capacity: 140 U.S. Gallons (530 L) Hydraulic Filter: High Pressure Filtration to 6 micron ABS Quiet Pak Technology
Carriage System	Carriage System: Rack & Pinion, (6) Pinion Drive with Adjustable Force Limiter Max. Thrust / Pullback: 110,000 lbs. (50 Tonnes) Max. Carriage Speed: 100 ft. (30.5 m) / minute Carriage Motors: (6) Hydraulic, LSHT, Dual Displacement Carriage Gearbox: (6) Planetary Drive-SGL SAE A	Carriage System: Rack & Pinion, (4) Pinion Drive with Adjustable Force Limiter Max. Thrust / Pullback: 155,000 lbs. (70 Tonnes) Max. Carriage Speed: 150 ft. (45.7 m) / minute Carriage Motors: (4) Hydraulic 80cc Carriage Gearbox: (4) Planetary Drives	Carriage System: Rack & Pinion, (6) Pinion Drive with Adjustable Force Limiter Max. Thrust / Pullback: 220,000 lbs. (100 Tonnes) Max. Carriage Speed: 90 ft. (29 m) / minute Carriage Motors: (6) Hydraulic 80cc Carriage Gearbox: (6) Planetary Drives
Rotary Drive	Rotary Drive: (2) Pinion and Gear Drive with Infinitely Variable Torque Max. Rotary Torque: 14,000 ft. lbs. (18,982 Nm) Max. 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) Max. Flow: 250 U.S. Gallons (945 L) / minute Max. 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	Rotary Drive: (1) Pinion and Gear Drive with Infinitely Variable Torque Max. Rotary Torque: 30,000 ft. lbs. (40,674 Nm) Max. Rotary Speed: 100 RPM Rotary Motor: (1) Hydraulic 250cc Axial Piston / Variable Displacement Rotary Brakes: (1) Spring Applied/Hydraulic Release Fluid Course: 2 9/16 in. (65 mm) Max. Flow: 450 U.S. Gallons (1700 L) / minute Max. Pressure: 1,500 psi (103 bar) Mud Swivel: Rear Mounted 3 1/2 in. IF L.H. x 3 in. NPT Slip Spindle: 4 1/2 in. (114.3 mm) API-IF Pin (NC-50) Misc: Wiggle Steer®, Adjustable Torque Limiter, Digital Tachometer	Rotary Drive: (2) Pinion and Gear Drive with Infinitely Variable Torque Max. Rotary Torque: 30,000 ft. lbs. (40,674 Nm) @ 0-50 RPM Max. Rotary Speed: 95 RPM Rotary Motor: (2) Hydraulic 110cc Axial Piston / Variable Displacement Rotary Brakes: (2) Spring Applied/Hydraulic Release Fluid Course: 3 in. (76 mm) Max. Flow: 650 U.S. Gallons (2460 L) / minute Max. Pressure: 1,500 psi (103 bar) Mud Swivel: Rear Mounted 4 in. N.P.T.L.H. x 3 in. Slip Spindle: 4 1/2 in. (114.3 mm) API-IF Pin Misc: Wiggle Steer®, Adjustable Torque Limiter, Digital Tachometer
Drill Rig, Wrench & Misc.	Wrench Design Open-Top Style Clamp/Grip Range: 2 7/8 in. - 4 1/8 in. (73-104.8 mm) Max. Breakout Torque: 32,000 ft. lbs. (43,390 Nm) Max. Makeup Torque: 26,000 ft. lbs. (35,250 Nm) Pump: Triplex Piston Pump Max. Flow: 200 U.S. Gallons (757 L) / minute Max. Pressure: 1,100 psi (75.8 bar) 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 in. (73 mm) IF Pin x Box Water Course: 1 3/4 in. (44.5 mm) Drill Angle: Fixed at 15° / 27% Grade Drill Pipe Length: 20 ft. (6 m) or 15 ft. (4.5 m) Max. Pipe Basket Capacity: (9) Pieces of Drill Pipe Total Drill Pipe Length Per Basket: 180 ft. (55 m) or 135 ft. (41 m) Max. On-Board Pipe Baskets (Working): 2 Max. On-Board Pipe Baskets (Transport): 1 Drill Pipe in On-Board Staging Area: (3) Pieces Total Drill Pipe Length (Working): 420 ft. (128 m) or 315 ft. (96 m)	Wrench Design Open-Top with 10 in. (254 mm) Separation Clamp/Grip Range: 2 7/8 in. - 6 5/8 in. (73-168 mm) Full Hole Max. Breakout Torque: 60,000 ft. lbs. (81,350 Nm) Max. Makeup Torque: 35,000 ft. lbs. (47,500 Nm) Crane: OPTIONAL Drill rig mounted with 4,300 lbs. (1950 kg) lift rating Drill Angle: 12° to 22° Drill Pipe Length: 20 ft. (6 m)	Wrench Design Open-Top with 10 in. (254 mm) Separation Clamp/Grip Range: 4 1/2 in. - 6 1/2 in. (114.3-165 mm) Full Hole Max. Breakout Torque: 60,000 ft. lbs. (81,350 Nm) Max. Makeup Torque: 25,000 ft. lbs. (33,900 Nm) Crane: OPTIONAL Drill rig mounted with 4,300 lbs. (1950 kg) lift rating Drill Angle: 10° to 18° Drill Pipe Length: Range II, 34 ft. (10.4 m)

Performance Specifications

**Note: All product performance specification, components, weights, dimensions and other related information are subject to change without notice from the manufacturer.

DD-110

	DD-110 / DD-110S	DD-155T	DD-220T
Dimensions (for transport)	Length: DD-110 - 33 ft. (10 m) DD-110S - 28 ft. 6 in. (8.7 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)	Length: 37 ft. 6 in. (11.4 m) Width: 8 ft. 1 in. (2.46 m) Height: 10 ft. 6 in. (3.2 m)	Length: 43 ft. 6 in. (13.3 m) Width: 8 ft. 1 in. (2.46 m) Height: 12 ft. 6 in. (3.8 m)
Weights	Drill Rig Weight <ul style="list-style-type: none">• w/o Drill Pipe: 36,728 lbs. (16,660 kg)• Transport = (1) Pipe Basket (9) Pieces of Drill Pipe + 3 Pieces of Drill Pipe from Staging Area: 41,024 lbs. (18,608 kg)• Working = (2) Pipe Baskets (18) Pieces of Drill Pipe + 3 Pieces of Drill Pipe from Staging Area: 44,246 lbs. (20,069 kg) Drill Pipe Weight: 358 lbs. (162.4 kg) each	Total Weight: 57,000 lbs. (26,000 kg)	Total Weight: 61,000 lbs. (27,669 kg)
Included with Base Unit	Travel System <ul style="list-style-type: none">• Self-Propelled• Travel Speed: 2.25 mph (3.62 kph) forward & reverse• Ground Bearing Pressure: 10.6 psi (0.73 bar) Safety Features: <ul style="list-style-type: none">• es!Lok®: Exit Side Lockout System• ZAPALERT: Electrical Detection Device• Emergency Shutdown Switch at Operator's Console• Work Lights - (3) 12 Volt	Travel System <ul style="list-style-type: none">• Self-Propelled on Undercarriage Track Crawler Assembly• Travel Speed: 1.75 mph (2.8 kph)• Ground Bearing Pressure: 8.3 psi (0.57 bar) Safety Features: <ul style="list-style-type: none">• es!Lok®: Exit Side Lockout System• ZAPALERT: Electrical Detection Device• Rod Loader with Staging Area• Adjustable rear working platform for wireline	Travel System <ul style="list-style-type: none">• Self-Propelled on Undercarriage Track Crawler Assembly• Travel Speed: 2 mph (3.22 kph)• Ground Bearing Pressure: 8.6 psi (0.59 bar) Safety Features: <ul style="list-style-type: none">• es!Lok®: Exit Side Lockout System with 5,280 ft. (1.609 m) Range• ZAPALERT: Electrical Detection Device• Emergency Shutdown Switch at Operator's Console• Attachable Handrails for Full Length Thrustframe Walkway

Break Old Habits!

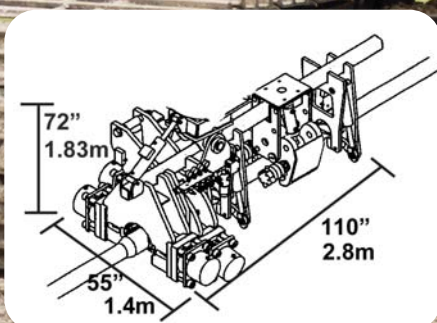
ESW-M

Exit Side Wrench: Mid-size

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- Up to 60,000 ft. lbs. (81,350 Nm) of Break-Out Torque
- Up to 45,000 ft. lbs (61,000 Nm) of Make-Up Torque
- 2,000 ft. lbs. (2,700 Nm) of Torque on Spinner
- Reduce labor and time when assembling a trail string on the exit side of the project
- Designed for 5 in. (127 mm) pipe stem, other sizes can be made available
- Adjustable for varying exit angles of the drill pipe
- Matches drill unit torque levels to ensure proper joint make up and/or break out when assembling or disassembling a pipe string
- Convenient wrench stand when not in use
- Lifting & tilting mechanisms use integrated counter balances for safety
- Wireless control with backup tethered operation

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Patent Pending

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