



A Division Of American Augers, Inc.



DD-330™

Directional Drill

Photo may show optional equipment

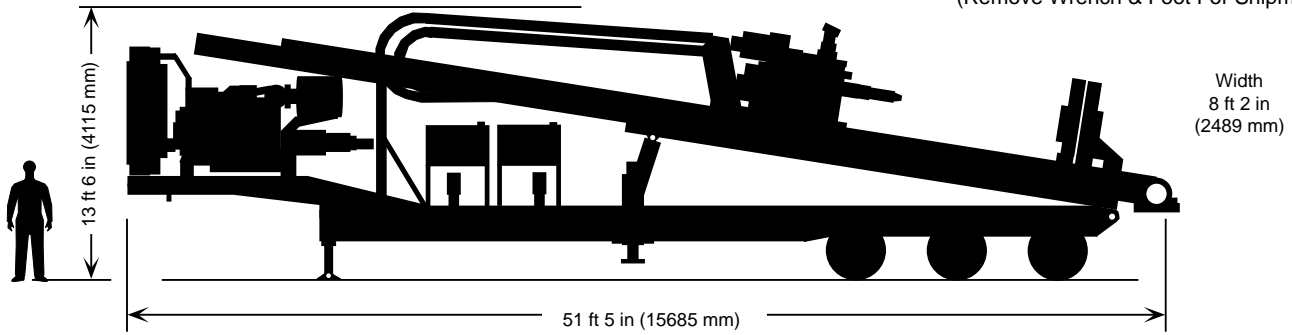


Compare These Features To Those Of Any Other Drill

- MANUFACTURED by the world's most experienced builder of directional drills
- 150 METRIC TONNES (330,000 lb) thrust/pullback force
- HIGH ROTARY TORQUE turns very large reamers in long bores (48,000 ft-lb, 65,000 Nm)
- RACK AND PINION thrust/pullback, two pinion drive
- PIPE SUPPORTS, hydraulically operated
- INDEPENDENT CONTROLS and hydraulic circuits for thrust/pullback, torque and auxiliary operations permits simultaneous full power operation
- ADJUSTABLE TORQUE LIMITER for rotary and makeup force
- CATERPILLAR™ diesel power
- ADJUSTABLE FORCE LIMITER for thrust and pullback
- WRENCH/CLAMP SEPARATION 0-12 inches (0-305 mm), travels full length of rack
- TRAILER MOUNTED on air ride suspension
- WIRELINE COMMUTATOR for speedy hookup of wireline guidance equipment with terminals at driller's console
- REAR MOUNTED mud swivel, 4 inch (102 mm) water course
- ES!LOK® LOCKOUT SYSTEM is standard equipment.
- ALSO AVAILABLE mounted on steel tracks or skid
- DRILLER'S CABIN with heat, air conditioning
- FACTORY DIRECT SERVICE for fast support by knowledgeable technicians
- MATCH UP WITH MUD SYSTEMS designed and built by American Augers such as the MP-400. This system has integral mixing, cleaning and pumping capability, and enough capacity for mud motor work and use of large reamers.

DD-330 Directional Drill

Travel Position
(Remove Wrench & Foot For Shipment)



Engine

Engine	Caterpillar® 3412E 12-cylinder turbodiesel, aftercooled
Rating	750 HP (559.5 kW) continuous duty
Fuel capacity	300 U.S. gallons (1135 L)

Rotary Drive

Rotary system	Pinion and gear drive Infinitely variable torque
Rotary (high torque)	48,000 ft-lb (65,000 Nm) @ 0-45 rpm
Rotary (low torque)	24,000 ft-lb (32,000 Nm) @ 0-80 rpm
Max. rotary speed	80 rpm
Other features	Rear mounted mud swivel, 4" (102mm) internal diameter, rotary drive brake, slip sub, digital tachometer, wireline commutator, adjustable torque limiter. Spindle thread: 6-5/8 API reg. pin. Customer specifies pipe connection thread adapter

Carriage Drive

Max. thrust/pullback	330,000 lb (1470 kN)
Carriage system	Rack and pinion, two pinion drive, with adjustable force limiter
Max. carriage speed	130 ft (39.6 m)/min

Drill Pipe

Length	Range 2 (to 34 ft) 10,360 mm
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Tooling

American Augers supplies a full range of dirt and rock bits, tri-cones, sonde housings, swivels, cutters, hole openers and reamers developed from making thousands of feet of bores.

Drill Rig

Wrench/clamp	Three jaw type, 12" (305 mm) separation. Wrench can travel full length of rack
Max. breakout torque	70,000 ft-lb (94,500 Nm)
Max. makeup torque	37,000 ft-lb (49,950 Nm)
Clamp grip range	2-3/4 - 10-3/4" outside diameter
Drill angle	10—18°
Weight	94,000 lb (42,680 kg) trailer mount 87,000 lb (39,500 kg) w/o wrenches
Hold down stakes	H-beam type

Protective Equipment

Each drill comes with safety mats and electrical grounding rods. A Zap-Alert system is standard equipment. Emergency shut down switch at driller's console and at remote control console. Carriage over ride switch disables carriage during wireline hookup, maintenance, etc. The **es!lok**® exit side lock-out system is standard equipment.

Trailer

Triaxle trailer with air ride suspension, fifth wheel hitch.

Driller's Cabin (option)

With heat and air conditioning, power distribution panel with circuit breakers, surveyor's table. Exterior steel siding. Insulation 3-1/2" in walls. Extra large windows with vandalism shields. Lifting eyes for job site mobility. Cabin size: 7 ft 9 in wide x 10 ft 10 in long x 8 ft 6 in high (2.5 x 3.3 x 2.6 m). Approx. shipping weight: 6,000 lb. (2,725 kg).