

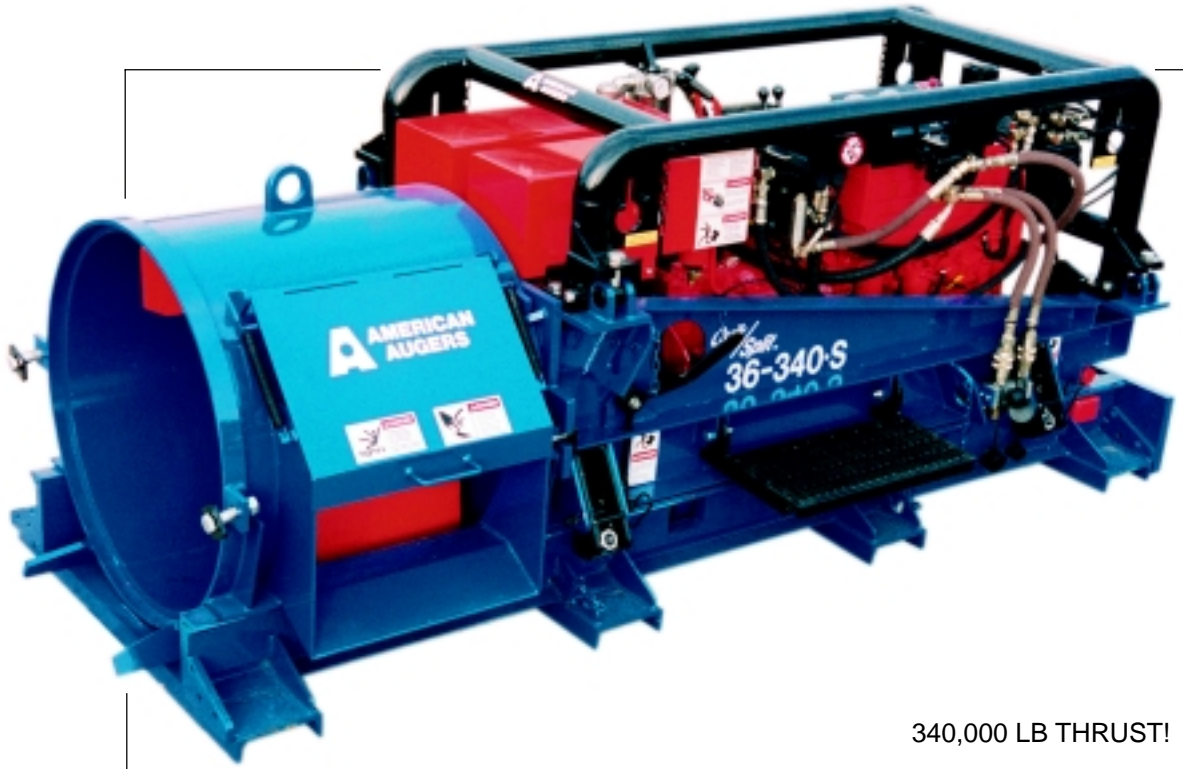


36-340™

36 INCH (914 mm)

Horizontal Earth Boring Machine

Photo may show optional equipment



340,000 LB THRUST!

Optimum boring power in a compact package.

The American Augers model 36-340 Boring Machine gives you more power and more torque to get the job done, but in a package that is lighter to lift. It's designed to offer you the optimum power package without excess machine weight.

A dependable Deutz diesel engine is coupled to a four-speed transmission and high ratio planetary gear box. A high volume hydraulic pump supplies three hydraulic cylinders which develop 340,000 pounds of thrust to drive casing the full distance.

The rugged box frame construction with the gearbox bolted to the header

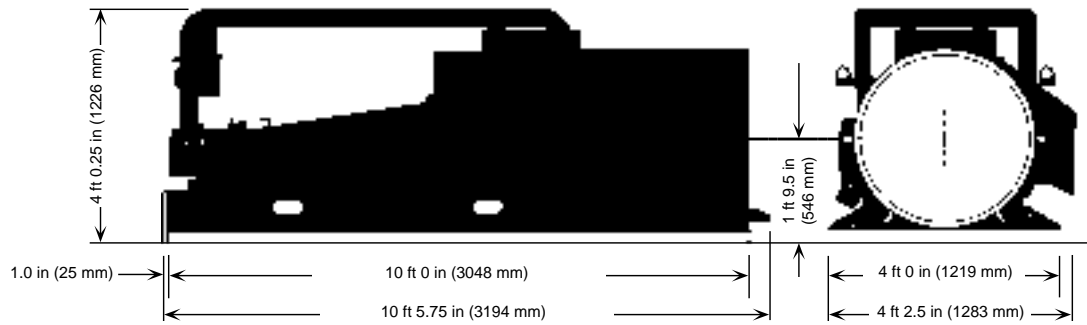
wall assures lasting alignment of the power train. We have never had a frame fail in over 25 years' production of auger boring machines. The machine's wide stance and low center line assure machine stability. We have provided portholes in the frame to permit servicing the drive train.

Cam rollers on the main frame and hook arms guide the machine smoothly along the track. A track brake keeps the machine from creeping while idling. Quik-Release hook rollers easily release the machine from the track. True Quik/Split™ design separates the machine into three components for lighter lift-

ing in and out of the pit.

The 36-340 has an electric starter and an emergency switch for total machine shutdown. Warning lights monitor engine oil pressure and the alternator. The tachometer, fuel and hydraulic system gauges are in direct view. The clutch and shift levers are easily handled without strain. A spring loaded spoil chamber door deflects thrown debris. An optional hydraulic push bar actuator provides easy machine advance. Vivid graphics and signs guide safe and proper machine operation.

36-340 Earth Boring Machine



Power train

Engine type	DEUTZ F4L1011F diesel air cooled with electric start
Rating	57 HP (42.5 kW) @3000 RPM continuous duty
Torque	119 ft lb (161Nm) @1800 RPM
Fuel capacity	10 U.S. gallons (38 litres)
Clutch	Dry, spring applied 11 inch (280 mm) diameter
Transmission	T-18 four speed constant mesh
Ratios	1st gear — 6.32:1 2nd gear — 3.09:1 3rd gear — 1.69:1 4th gear — 1.00:1 Reverse — 7.44:1
Gearbox ratio	58.4:1
Auger drive	3 inch hex (76.2 mm)
Working range	12 to 36 inch (305 to 914 mm) casing diameter

Torque & speed (max)[†]

1st gear	38,400 ft lb (52,100 Nm), 8 RPM
2nd gear	18,800 ft lb (25,500 Nm), 17 RPM
3rd gear	10,300 ft lb (13,900 Nm), 30 RPM
4th gear	6,100 ft lb (8,200 Nm), 51 RPM
Reverse	45,200 ft lb (61,300 Nm), 7 RPM

[†]These are net figures. A deduction has already been taken in consideration of hydraulic and mechanical loss.

Hydraulic system

Pressure	4,000 PSI (27,850 kPa)
Thrust (max)	340,000 lb (1,512 kN)
Pump type	High/low speed gear pump
Output	23 GPM (87 lit/min)
Cylinders	Three 6 inch bore x 36 inch stroke (152.4 x 914.4 mm)
Suction filter	100 mesh screen in tank
Return filter	10 micron replaceable element

Weights (approximate)

Base unit, split machine	4,800 lb (2,179 kg)
Power package, split machine	2,400 lb (1,090 kg)
Casing pusher	800 lb (363 kg)
Master track	1,300 lb (590 kg)
Extension track	1,100 lb (500 kg)

Accessories

American Augers supplies a full range of auger sections, dirt and rock cutting heads, hex adapters, casing size adapters, support equipment and repair components developed through our 25 years' experience in the auger boring industry.

Standard features

The model 36-340 comes with four base unit hook-roller holddown assemblies, low center line and wide stance to provide stability and to aid in the prevention of machine roll-over. The spoil door is spring-loaded to deflect thrown debris. There is an emergency shutdown switch at the operator's station. Vivid graphics guide proper machine operation. Instruments include: engine tachometer, engine warning lights, hydraulic thrust pressure gauge. Track brake keeps machine from creeping while idling. Quick release hook rollers easily release from track.

Winch

The model 36-340 has a power winch intended for rapidly pulling the boring machine back to its starting position on the track. The winch has a free-wheeling clutch to pay out wire rope. The winch can be controlled from the main hydraulic valve. The winch is not intended for pulling casing or auger sections.



Due to our continuing product improvement, specifications are subject to change without notice.

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