

36-600™

36 INCH (914 mm)



Horizontal Earth Boring Machine

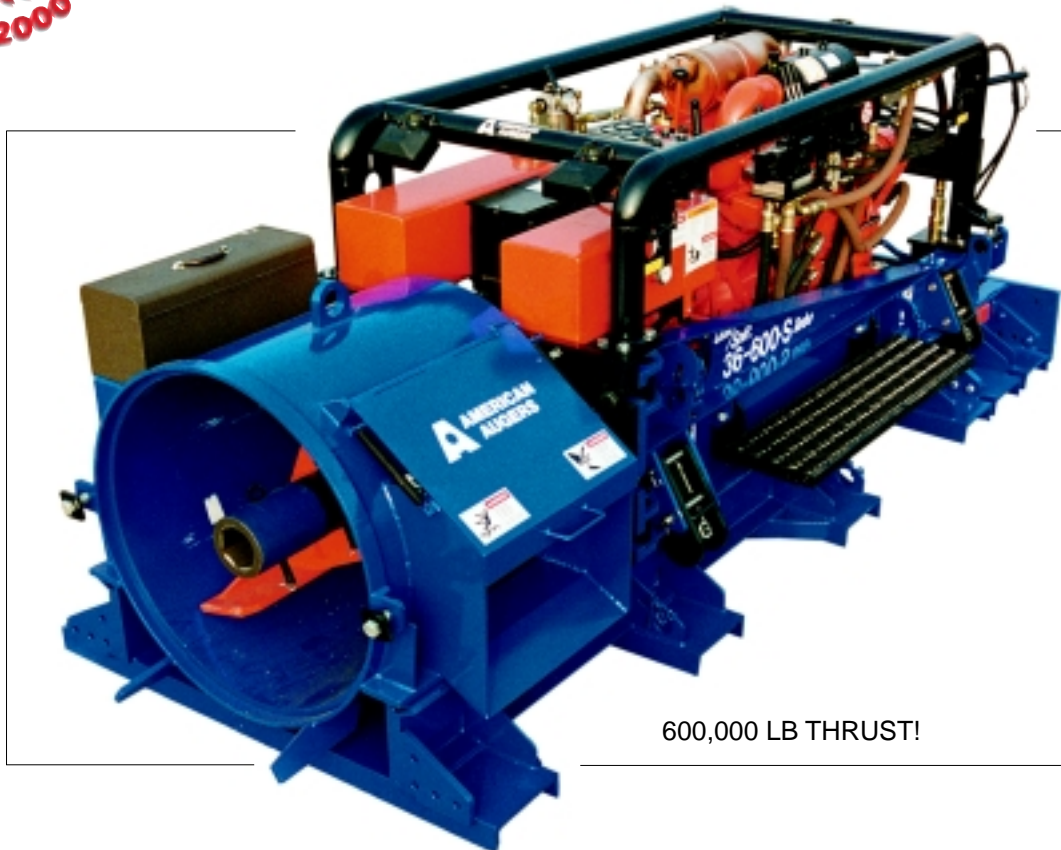


Photo may show optional equipment

The performance you expect from American Augers!

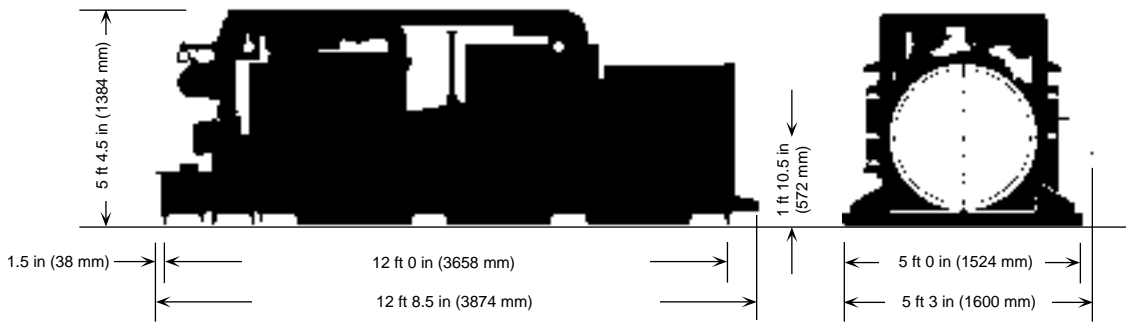
For rugged power in a compact package and a broad boring capacity from 12 to 36 inch casing diameter, contractors choose the American Augers 36-600. The proven four cylinder Deutz turbocharged diesel engine is coupled to a five speed transmission and planetary gear box. The load sense piston hydraulic pump supplies 38 GPM to two hydraulic cylinders to develop 600,000 pounds of forward thrust. The secondary hydraulic pump supplies the

push bar lock and winch, and provides for faster cylinder retraction.

American Augers' unitized box frame construction provides lasting alignment of the power train. In over 30 years of boring machine production, we have never had a frame failure. The low center line and wide stance create a low machine profile. True Quik-Split design permits the machine to separate into sections for faster, easier lifts into and out of the pit.

Machine controls are clustered for easy operation. The 36-600 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 within easy reach. A spring loaded spoil chamber door deflects thrown debris. Vivid graphics guide safe and proper operation.

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Power train

Engine type	DEUTZ BF4M1013 turbodiesel Water cooled with electric start
Rating	126.5 HP (94 kW) @2300 RPM maximum power 106 HP (79 kW) @2300 RPM continuous duty
Fuel capacity	10 U.S. gallons (37.9 L)
Clutch	Dry, spring applied 13 inch (330 mm) diameter
Transmission	Spicer five speed constant mesh
Ratios	1st gear — 7.17:1 2nd gear — 4.21:1 3rd gear — 2.54:1 4th gear — 1.45:1 5th gear — 1.00:1 Reverse — 7.17:1
Gearbox ratio	54.2:1
Auger drive	3 inch (76.2 mm) hex or 4 inch hex (101.6 mm)
Working range	12 to 36 inch (305 to 914 mm) casing diameter

Torque & speed (max)[†]

1st gear	116,000 ft lb (157,000 Nm), 6 RPM
2nd gear	68,000 ft lb (92,000 Nm), 10 RPM
3rd gear	41,000 ft lb (56,000 Nm), 17 RPM
4th gear	23,000 ft lb (32,000 Nm), 29 RPM
5th gear	16,000 ft lb (22,000 Nm), 42 RPM
Reverse	116,000 ft lb (157,000 Nm), 6 RPM

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

Weights (approximate)

Base unit, split machine	3,800 lb (1,725 kg)
Power package, split machine	6,200 lb (2,815 kg)
Casing pusher	1,000 lb (500 kg)
Master track	3,000 lb (1,400 kg)
Extension track	2,000 lb (900 kg)
Lifting sling w/chain	200 lb (91 kg)

Hydraulic system

Pressure	6,000 PSI (41,370 kPa)
Thrust (max)	600,000 lb (2,669 kN)
Primary pump	Piston, load sensing with adjustable flow range
Output	38 GPM (144 L/min)
Secondary pump	Gear, 10 GPM (37.9 L/min)
Cylinders	Two 8 inch bore x 35 inch stroke (203.2 x 889 mm)
Filter	Suction: 100 micron in tank Return: 10 micron replaceable element

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 36-600 comes with four base unit hook-roller hold-down assemblies, low center line and wide stance to provide stability and to aid in the prevention of machine rollover. 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. Work lights are standard.

Winch

The model 36-600 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.

Quik/Split™ design separates into parts for lighter lifts.
Aligns easily, perfect positioning is not required.



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