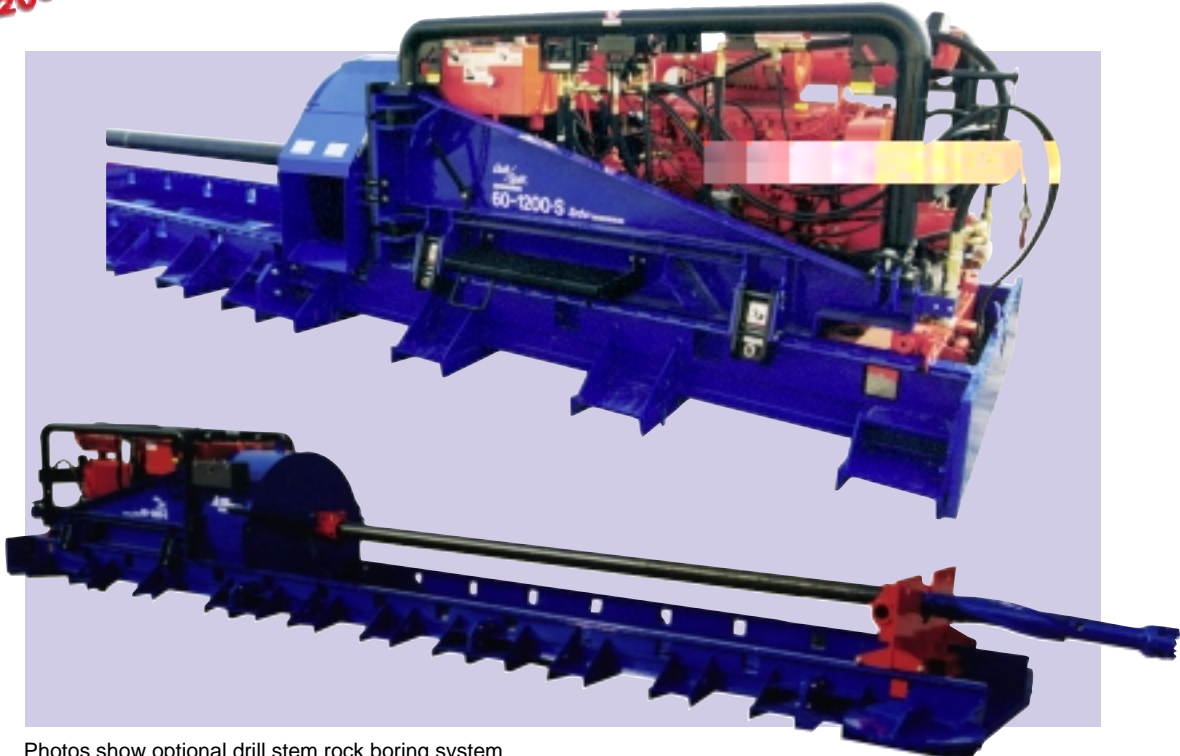


60-1200™

60 INCH (1524 mm)



Horizontal Earth Boring Machine



Photos show optional drill stem rock boring system

Brawny boring machine packs 1.2 million pound thrust!

The king of boring machines is the American Augers 60-1200. The six cylinder turbocharged Deutz diesel engine is coupled to a five speed transmission and planetary gearbox which delivers over 129,000 ft-lbs of output torque. The 60-1200 will make bores from 12 to 60 inches with power to spare. The axial piston hydraulic pump supplies 38 GPM to four hydraulic cylinders to develop 1,200,000 pounds of forward thrust. The secondary hydraulic pump supplies the push bar lock and winch,

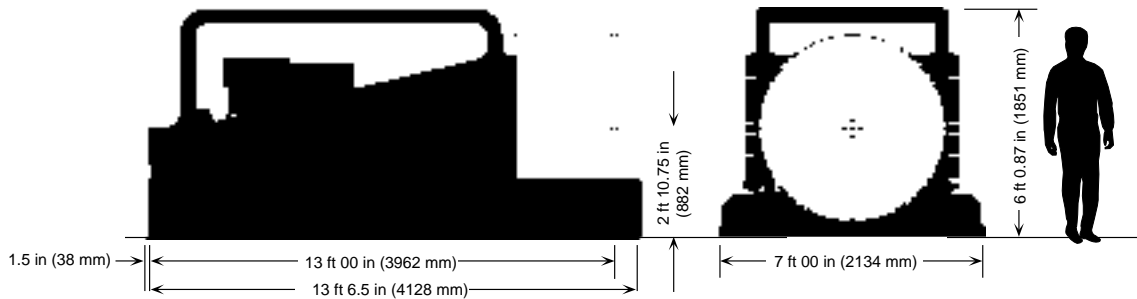
and provides for faster cylinder retraction.

American Augers' unitized box frame construction provides lasting alignment of the power train. In over 25 years of boring machine production, we have never had a frame fail. 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 60-1200 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. Vivid graphics and signs guide safe and proper machine operation.

Model 60-1200 Earth Boring Machine



Power train

Engine type	DEUTZ BF6M1013 turbodiesel water cooled with electric start
Rating	192 HP (143.2 kW) @ 2300 RPM maximum; 162 HP (120.8 kW) @ 2300 RPM continuous duty
Torque	518 ft-lb (703 Nm) @ 1400 RPM
Fuel capacity	30 U.S. gallons (118 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	39.71:1
Auger drive	4 inch hex (101.2 mm)
Working range	12 to 60 inch (305 to 1524 mm) casing diameter

Torque & speed (max)[†]

1st gear	129,158 ft lb (175,139 Nm), 8 RPM
2nd gear	75,838 ft lb (102,836 Nm), 14 RPM
3rd gear	45,755 ft lb (62,044 Nm), 23 RPM
4th gear	26,120 ft lb (35,419 Nm), 40 RPM
5th gear	18,014 ft lb (24,427 Nm), 58 RPM
Reverse	129,158 ft lb (175,139 Nm), 8 RPM

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

Hydraulic system

Pressure	6,000 PSI (41,370 kPa)
Thrust (max)	1,200,000 lb (5338 kN)
Pump type	Axial piston with load sensing. Adjustable peak flow rate
Output	38 GPM (144 L/min)
Cylinders	Four 8 inch bore x 35 inch stroke (203.2 x 889 mm)
Filter, suction	Screen, 149 mesh
Filter, return	Replaceable element, 10 micron

Weights (approximate)

Base ass'y, split machine	12,000 lb (5,448 kg)
Power package, split machine	6,900 lb (3,132 kg)
Casing pusher	1,900 lb (863 kg)
Master track	6,135 lb (2,785 kg)
Extension track	4,575 lb (2,077 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 60-1200 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 60-1200 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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