

72-1200

72 INCH (1829 mm)

Horizontal Earth Boring Machine

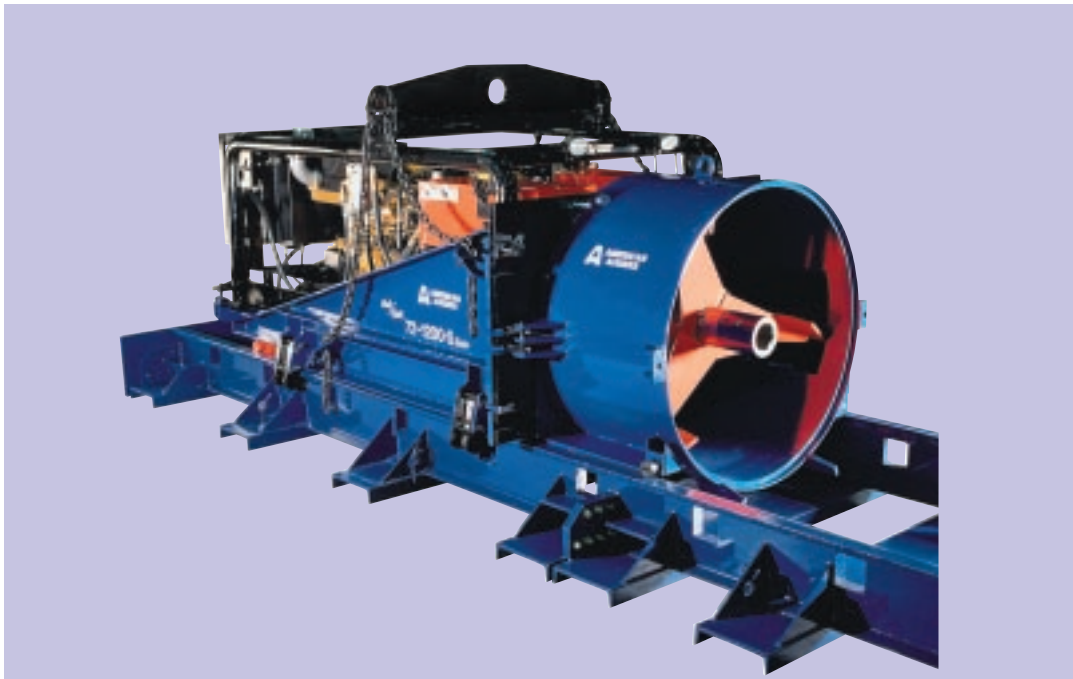


Photo shows optional 60" Master Pusher.

Top-of-the-line quality with bottom line results!

American Augers offers a true 72" boring machine to complete the toughest bores and handle the large diameter jobs that today's market demands! The American Augers 72-1200 delivers over 200,000 ft-lbs of output torque, with its six-cylinder Caterpillar® 3126B diesel engine coupled to a six-speed transmission and S80 gearbox. The 72-1200 will make bores from 24 to 72 inches with plenty of power to spare. The axial piston hydraulic pump supplies 38 GPM to four hydraulic cylinders which pro-

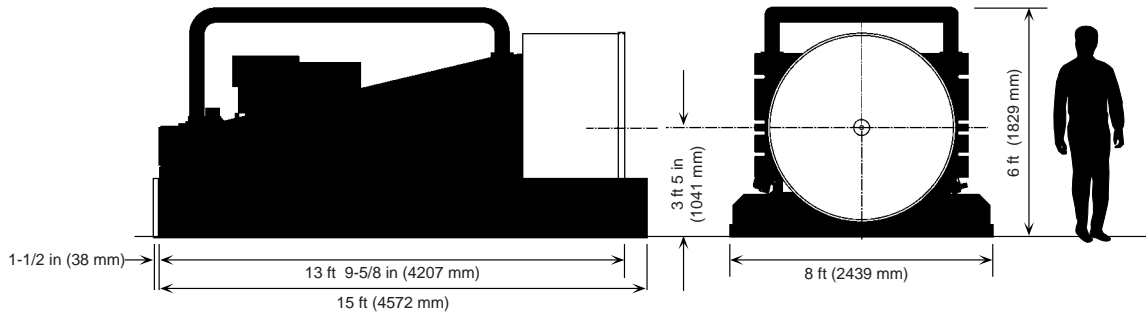
vide 1,200,000 pounds of forward thrust. The secondary hydraulic pump supplies the push bar lock and winch, and provides for faster cylinder retraction.

The 72-1200 has a triple bladed spoil panel for quick removal of high volumes of material, and American Augers' unitized box frame construction provides lasting alignment of the power train. In over 30 years of boring machine production, American Augers has 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, gauges and warning lights are clustered in direct view for easy operation. The clutch and shift levers are easily handled without strain. The 72-1200 has an emergency switch for total machine shutdown. For additional safety, a spring-loaded spoil chamber door deflects thrown debris.

Model 72-1200 Earth Boring Machine



Power train

Engine type	Caterpillar® 3126B DIT ATAAC water-cooled diesel with electric start
Rating	250 HP (186 kW) @2100 RPM maximum
Torque	625 ft-lbs (848 Nm) @2100 RPM 815 ft-lbs (1,105 Nm) @1500 RPM
Fuel capacity	58 U.S. gallons (220 L)
Clutch	Dual plate assembly with Hydraulically assisted clutch actuator
Transmission	14 inch (356 mm) diameter twin disk
Ratios	FS-6406A Eaton Fuller 1st gear — 9.01:1 2nd gear — 5.27:1 3rd gear — 3.22:1 4th gear — 2.04:1 5th gear — 1.36:1 6th gear — 1.00:1 Reverse — 9.01:1
Gearbox ratio	35.71:1
Auger drive	5 inch hex (125 mm)
Working range	24 to 72 inch (610 to 1829 mm) casing diameter

Torque & speed (max)

1st gear	201,168 ft-lb (272,748 Nm), 7 RPM
2nd gear	117,665 ft-lb (159,533 Nm), 11 RPM
3rd gear	71,894 ft-lb (97,476 Nm), 18 RPM
4th gear	45,548 ft-lb (61,755 Nm), 29 RPM
5th gear	30,365 ft-lb (41,170 Nm), 43 RPM
6th gear	22,327 ft-lb (30,272 Nm), 59 RPM
Reverse	201,168 ft-lb (272,748 Nm), 7 RPM

Weights (approximate)

Base unit, split machine	13,000 lb (5,897 kg)
Power package, split machine	7,100 lb (3,221 kg)
Casing pusher	6,000 lb (2,722 kg)
Master track	6,000 lb (2,722 kg)
Extension track	4,000 lb (1,814 kg)

Hydraulic system

Pressure	6,000 PSI (413.78 Bar)
Thrust (max)	1,200,000 lb (5,338 kN)
Pump type	Axial Piston with load sensing Adjustable peak flow rate
Output	38 GPM (44 L/min)
Cylinders	Four 8-inch bore x 35 inch stroke (203.2 x 889 mm)
Suction filter	149 mesh screen
Return filter	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 more than 30 years' experience in the auger boring industry.

Standard features

The model 72-1200 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. A three-bladed spoil paddle assembly removes high volumes of material quickly and effectively. There is an emergency shutdown switch at the operator's station. Instruments include: engine tachometer, engine warning lights and hydraulic thrust pressure gauge. A track brake keeps the machine from creeping while idling. Quick release hook rollers allow fast separation of the machine from the track.

Winch

The model 72-1200 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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