



# 48-900™

48 INCH (1219 mm)



## Horizontal Earth Boring Machine



### Big machine features with driveline torque to spare!

For all the big machine features with a broad boring range, choose the American Augers 48-900. The high-torque turbocharged Deutz diesel engine is coupled to a heavy-duty gearbox which delivers over 116,000 ft-lbs! The 48-900 will make bores from 12 to 48 inches with power to spare. The radial piston hydraulic pump supplies 38 GPM at 6,000 PSI to three hydraulic cylinders to develop 900,000 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 48-900 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 48-900 Earth Boring Machine



## Power train

Engine type	DEUTZ BF4M1013 turbodiesel water cooled with electric start
Rating	126.5 HP (94.4 kW) @2300 RPM maximum; 106 HP (79 kW) @2300 RPM continuous duty
Torque	342 ft lbs (463 Nm) @1400 RPM
Fuel capacity	15 U.S. gallons (55 L)
Clutch	Dry, spring applied
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	4 inch hex (101.2 mm)
Working range	12 to 48 inch (305 to 1219 mm) casing diameter

## Torque & speed (max)<sup>†</sup>

1st gear	16,000 ft lb (21,958 Nm), 6 RPM
2nd gear	68,000 ft lb (92,442 Nm), 10 RPM
3rd gear	41,000 ft lb (55,773 Nm), 17 RPM
4th gear	23,000 ft lb (31,839 Nm), 29 RPM
5th gear	16,000 ft lb (21,958 Nm), 42 RPM
Reverse	116,000 ft lb (157,437 Nm), 6 RPM

<sup>†</sup>These are net figures. A deduction has already been taken in consideration of hydraulic and mechanical loss

## Hydraulic system

Pressure	6,000 PSI (421.9 bar)
Thrust (max)	900,000 lb (4004 kN)
Pump type	Axial piston with load sensing constant speed or pressure control
Output	38 GPM (144 L/min)
Aux. hyd. pump	Gear type, 9 GPM (34 L/min)
Cylinders	Three 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	7,900 lb (3,585 kg)
Sub-frame ass'y, split machine	6,200 lb (2,815 kg)
Casing pusher	1,200 lb (545 kg)
Master track	1,000 lb (454 kg)
Extension track	2,000 lb (910 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 48-900 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 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.

## Winch

The model 48-900 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. American Augers, Inc., 135 U.S. Route 42, P.O. Box 814, West Salem, OH 44287  
 TEL: (419) 869-7107 • FAX: (419) 869-7425 • USA Toll Free (800) 324-4930  
 e-mail: [allsales@americanaugers.com](mailto:allsales@americanaugers.com) • <http://www.americanaugers.com>