

PERFORMANCE SPECIFICATIONS

Power Train

Engine:	Deutz TCD914LO6 Tier III Diesel	
Rating:	174 HP (130 kW)	
Maximum Engine Speed:	2300 RPM	
Engine Torque:	373 ft.-lbs. (505.7 Nm)	2300 RPM
	468 ft.-lbs. (634.5 Nm)	1600 RPM
Maximum Noise Rating:	106 dB(A)	
Fuel Capacity:	39 U.S. Gallons (148 L)	
Hydraulic Capacity:	22 U.S. Gallons (83 L)	
Battery:	(1) Deka 634MF 12 V, 690 CCA	

Transmission

Type:	Eaton FS-5205A	
Transmission Ratios:	Gear	Ratio
	1st Gear	7.52:1
	2nd Gear	4.35:1
	3rd Gear	2.54:1
	4th Gear	1.52:1
	5th Gear	1.00:1
	Reverse	6.27:1

Clutch: Spring Applied with 14 in. (356 mm) Diameter Single Disk/Hydraulically Assisted Clutch Actuator

Gearbox

Ratio: 38.8:1

Torque & Speed

Torque Requirements:	(2300 RPM)		
	Gear	Output	Max. Speed
	1st	108,832 ft.-lbs. (147,600 Nm)	8 RPM
	2nd	62,955 ft.-lbs. (85,360 Nm)	14 RPM
	3rd	36,760 ft.-lbs. (49,840 Nm)	23 RPM
	4th	21,998 ft.-lbs. (29,830 Nm)	39 RPM
	5th	14,472 ft.-lbs. (19,620 Nm)	59 RPM
	Reverse	90,742 ft.-lbs. (123,000 Nm)	9 RPM
	(1600 RPM)		
	Gear	Output	Max. Speed
	1st	136,551 ft.-lbs. (185,089 Nm)	5 RPM
	2nd	78,989 ft.-lbs. (107,100 Nm)	9 RPM
	3rd	46,122 ft.-lbs. (62,530 Nm)	16 RPM
	4th	27,601 ft.-lbs. (37,420 Nm)	27 RPM
	5th	18,158 ft.-lbs. (24,620 Nm)	41 RPM
	Reverse	113,853 ft.-lbs. (154,353 Nm)	7 RPM

*These are net figures. A deduction has already been taken into consideration for hydraulic and mechanical loss.

Hydraulic System

Maximum Thrust:	900,000 lbs. (408 Tonnes)
Hydraulic Pump:	Axial Piston Pump with Load Sensor
Gear Pump:	57cc Piston
Maximum Pump Pressure:	4,750 psi (327 bar)
Maximum Pump Output:	38 U.S. Gallons (144 L)/minute
Hydraulic Motors:	(2) 60 CIR, LSHT, TPR
Hydraulic Push Bar Cylinder:	(1) 2 in. Bore x 4 in. Stroke (51 mm x 102 mm)
Hydraulic Clutch Cylinder:	(1) 1 1/2 in. Bore x 4 in. Stroke (38 mm x 102 mm)
Hydraulic Thrust Cylinder:	(3) 9 in. Bore x 35 in. Stroke (229 mm x 889 mm)
Hydraulic Suction Strainer Filter:	Suction Strainer with 100 Mesh Screen
Hydraulic Return Filter:	High Pressure Return Filter to 6 Micron ABS with Replaceable Element

Master Pusher

Diameter:	48 in. (1,219 mm)
Working Range:	24 in. – 54 in. (610 – 1,372 mm) Casing Diameter
Hex Drive:	4 in. (102 mm)

Quik Split™

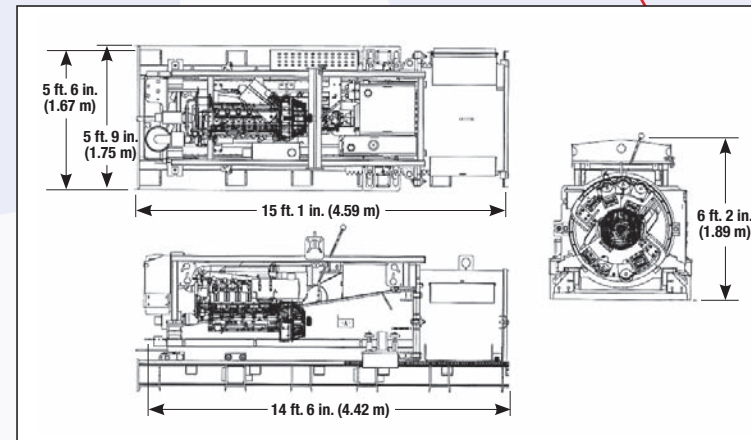
The Quik Split™ frame design allows the machine to be separated into sections to accommodate lighter and faster lifts into and out of the bore pit, and aids the operator in being able to facilitate better and safer machine positioning.

Spoil Door

With a Safety-First commitment all American Augers horizontal earth boring machines are equipped with a gravity activated-manual spoil door, which deflects thrown debris from the spoil chamber.

Dimensions

Length:	14 ft. 6 in. (4.42 m)
Width:	5 ft. 9 in. (1.75 m)
Height:	6 ft. 2 in. (1.89 m)
Master Track Length:	15 ft. (4.57 m) w/1 in. (25 mm) back plate
Master Track Width:	5 ft. 6 in. (1.67 m)
Centerline:	32.89 in. (835.4 mm)
Extension Track Length:	10 ft. (3 m)
Extension Track Width:	5 ft. 6 in. (1.67 m)



Weight

Base Unit (Split Weight):	6,200 lbs. (2,812 kg)
Power Pack (Split Weight):	7,200 lbs. (3,266 kg)
Master Pusher:	1,700 lbs. (771 kg)
Master Track:	3,700 lbs. (1,678 kg)
Lifting Sling:	200 lbs. (91 kg)
Total Weight:	19,000 lbs. (8,618 kg)
Extension Track:	2,800 lbs. (1,270 kg) each
Master Saddle:	310 lbs. (140 kg)

Misc.

Work Lights:	(3) 12 Volt
Extension Track:	(2)
Master Saddle:	(1) 48 in. (1,219 mm) compatible



AMERICAN AUGERS®

an Astec company



48/54-900

Auger Boring Machine



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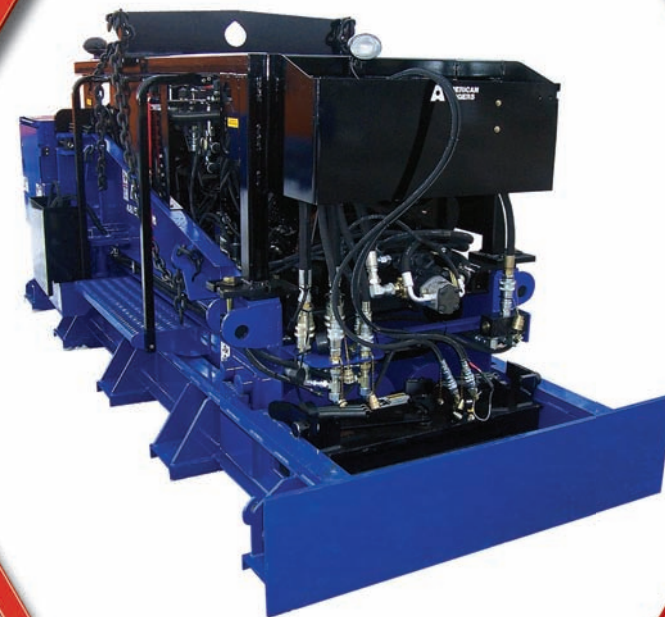
Since 1970 American Augers has been a devoted supplier of underground technology equipment that maintains rugged strength, unsurpassed power, and industry leading designs.

Never has there been a change in American Augers core value of having products developed by a can-do workforce that focuses on mechanical, technological, and customer based design improvements that from continent to continent meets American Augers goal of always exceeding customer expectations by providing products that are not a cost of doing business, but an **Investment in Success!**

Did You Know: Auger Boring Machines were first produced by American Augers in a small-rented garage in Wooster, Ohio. Even now with experience and increased manufacturing capacity American Augers realizes that the textbook method of auger boring may never change, but American Augers can still redefine the machines, so customers excel with enough thrust, torque, and technology to succeed in cobble, rock and other intrusive soils.

Environmental Commitment

American Augers is committed to manufacturing equipment that helps to preserve the sanctity of the global environment, and has done so by reducing noise and/or emissions outputs, and emphasizing the fact that our trenchless technology equipment requires little or no open cutting, which has very minimal impacts on natural surfaces, features, or habitats.



48/54-900 NG

The 48/54-900 NG is the next generation of auger boring machine that offers a highly productive rack and pinion system for rapidly pulling the machine back to its starting position on the track without dogging or winching. No more handling of greasy or frayed cables and wire rope knots. The patented rack and pinion drive system is ready to go full time just the start the machine and you are there. Clean, Quick, Efficient, and Safe.



Why Next Generation Auger Boring Machines from American Augers?

- INCREASED SPEED for Pulling Auger, Steering Rods, and Pushing Product
- INCREASED VISIBILITY to the Master Pusher
- LOW CENTERLINE AND WIDE STANCE Provides Increased Stability
- HYDRAULICALLY Assisted Clutch is Easier and More Comfortable to Operate
- NO HOOK ROLLERS as the Machine Locks Safely to the Track
- ERGONOMIC Operating Control Allows for Feathering of the Rotation and Slow Turn of the Shaft for Easy Auger Installation
- VIVID Graphics Guide Safe and Proper Machine Operation
- UPDATED GAUGE SYSTEM includes: Engine Tachometer, Engine Warning Light, Hour Meter, and Thrust Pressure Reading
- QUIK TRAN®
- QUIK SPLIT™ Frame Design
- WORLDWIDE SERVICE AND SUPPORT

What is Quik Tran®?

Quik Tran® is the fast return system available exclusively from American Augers, as it provides up to 10,000 lbs. (4,536 kg) of push/pull at high speed, and there will be no dogging or winching during retract, as the Quik Tran system engages directly to the machine track. Quik Tran's® benefit will be easier machine operation in challenging work climates or conditions.

EXCEPTIONAL FORCE

RELIABLE RESULTS