AMERICAN AUGERS® an Astec company

MPR-6000 Drilling Fluid Mixing, Pumping, and Recycling System

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.

American Augers recognizes the essential part that drilling fluid (mud) plays in successful directional drilling, and knows that jobsite success is dependent upon having equipment that equals the technical benefits of the process, and has designed mud equipment for jobs of every size.

Why American Augers Mud Cleaning Systems?

American Augers mud cleaning systems use linear motion shakers instead of random shakers that are found in competitor models. This "Contractor First" design increases the efficiency the driller has in being able to recycle mud!

The MPR-6000 is pure innovation for self contained drilling fluid technology. The MPR-6000 is a high capacity system that has the ability to Mix, Pump, and Provide large volumes of mud down-hole for use with mud motors or large reamers. Improvements in overall recycling and cleaning capacities makes this unit a must have for all horizontal directional drilling projects.

EXCEPTIONAL FORG





- MIXES, PUMPS, CLEANS, AND RECYCLES Drilling Fluid at the Same Time
- ON BOARD Diesel Power Train and Electrical Generator Set
- RECLAIMS BENTONITE to Minimize Use
- LARGE FLUID PROCESSING TANKS
- REDUCES VOLUME OF SOLIDS for Disposal by Controlling Moisture Content
- QUINTIPLEX MUD CIRCULATION PUMP

- CENTRIFUGAL MUD CLEANING PUMP
- LINEAR MOTION SHAKER SCREENS
- TANK FLOOR MUD AGITATION SYSTEM
- DESILTING CONES Manifold Mounted
- HIGH PRESSURE Wash Down System
- STANDARD Rock-over Design on a Tri-Axle Suspension
- WORLDWIDE SERVICE AND SUPPORT



PERFORMANCE SPECIFICATIONS

Power Train

Engine:	Caterpillar [®] C-15 Tier III Diesel
Rating:	475 HP (354 kW)
Noise Rating:	1 Meter Distance 104 dB(A)
C	3 Meter Distance 95 dB(A)
Transmission:	Eaton FRO-16210B 10 Speed
Clutch:	14 in. (355 mm) Diameter Dual Plate
	with Air Actuator
Battery:	(2) Deka 908DMF 12V, 1450 CCA
Generator Set:	Caterpillar [®] D125-6 114 kW Prime Rating - 60 Hz
Generator Set	
Noise Rating:	97 dB(A) without attenuation
Fuel Capacity:	255 U.S. Gallons (965 L)

Operating Controls

Remote Controls: Mud Pump Throttle, Mud Pump Start/Stop, Clutch Actuator, Horn Remote

Instruments: **Digital Mud Flow Meter** (gallons per minute/liters per minute) Analog Engine Tachometer

Mud Pumping System

Quintiplex, piston and liner Main Pump: Bore x Stroke - 4.5 in. x 4.5 in. (114 x 114 mm) Maximum Flow: 500 U.S. Gallons* (1,893 L)/minute * Note: Pumping Capacities will Vary Depending on the Overall Mud Weight, Drilling Fluid Mixture/Content, and the Working Environment

Maximum Pressure: 1,500 psi (103 bar)

(1) 3-Phase Electric 30 HP (22 kW) 480 V **Pump Motors:** for Mixing/Agitation • Inlet Size: 6 in. (152.4 mm) • Outlet Size: 5 in. (127 mm) • Impeller Size: 10 in. (254 mm) (1) 3-Phase Electric 30 HP (22 kW) 480 V for Charging of Hydro-Cyclones Inlet Size: 6 in. (152.4 mm) • Outlet Size: 5 in. (127 mm) • Impeller Size: 10 in. (254 mm) (1) 3-Phase Electric 20 HP (14.9 kW) 480 V for Supercharging of Quintiplex Pump • Inlet Size: 6 in. (152.4 mm) Outlet Size: 5 in. (127 mm) • Impeller Size: 9.5 in. (241.3 mm)

System with Supply Tank

Bentonite Mixer: Discharge Hose:

Other Features:

Polyethylene constructed Dry Bentonite Mix Hopper (4) 3 in. x 25 ft. (76.2 mm x 7.6 m) Pulsation Dampeners on inlet and discharge 33 U.S. Gallons (125 L)/ minute Liner Wash

Cleaning System

Linear Motion	
Shakers:	1st with 27 ft. ² (2.51 m ²) area
	2nd with 18 ft. ² (1.67 m ²) area
Shaker Screens:	(3) 50 mesh included
	(2) 140 mesh included
	Various other Mesh Sizes Available

1st Cut Shaker

Cleaning Capacity: Estimated 300 U.S. Gallons* (1,136 L)/ minute * Note: Cleaning Capacities will Vary Depending on the Overall Mud Weight, Drilling Fluid Mixture/Content, and the Working Environment

(9) 5 in. (127 mm) Desilter **Desilting System:** Hydro-Cyclones - manifold mounted

Cleaning System (continued)

Desilting System

Cleaning Capacity: Estimated 720 U.S. Gallons* (2,725 L)/minute * Note: Cleaning Capacities will Vary Depending on the Overall Mud Weight, Drilling Fluid Mixture/Content, and the Working Environment

Supply Tanks

Screen Tank: Clean Fluid/ Mixing Tank: Other Features: 2,000 U.S. Gallons (7,571 L) capacity

4,000 U.S. Gallons (15,140 L) capacity Tanks designed with 18 in. (457 mm) Cleanout Ports

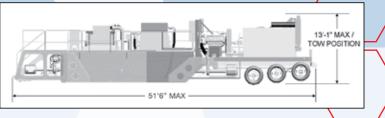
Transport

Mounting: Axle Spacing: Kingpin Diameter: Lift Jacks:

Lift Jack Cylinder:

Rock-over Design on Tri-Axle suspension 4 ft. (1.22 m) 2 in. (51 mm) (2) Hydraulically operated lift jacks raise the front to 52 in. (1,321 mm) clearance at the kingpin (2) 5 in. Bore x 42 in. Stroke (127 mm x 1,067 mm)

Lift Jack Motor:



Dimensions

Length: Height: Width:

51 ft. 6 in. (15.7 m) 13 ft. 1 in. (4 m) 98.4 in. (2.5 m)

(1) 10 HP (7.5 kW)

56,000 lbs. (25,400 kg)

Total Weight:

Weight

Safety **Protective Equipment:**

• Anti-Slip Walkways with Hand Rails

- Stairway & Ladder with Anti-Slip Treads
- Emergency Shutdown Switch on Operators Control Panel
- Electrical Grounding Stake with Cable
- (4) 500 Watt Quartz Work Lights

luid Tank:	110 U.S. Gallons (416 L) Polyethylene Tank
laximum	
ressure:	1,500 psi (103 bar)
luid Discharge:	4 U.S. Gallons (15 L)/minute capacity
lose:	100 ft. (30.5 m)
lisc.:	Hose Reel with Wash Down Sprayer (included)
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Product Options

Generator Set: 50 Hz Electrical Operating System

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.

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Wash Down System Fluid T

Maximum	
Pressure:	1
Fluid Discharge:	4
Hose:]
Misc.:	F