



GLADIATOR GSS-500

Dual-Stage Separation System

60-Micron Scalping Deck + 30-Micron Fine Solids Recovery Package

 **2,202 GPM** |  **132,120 GPH** |  **5,000 GALLONS**

TWO INDEPENDENT SEPARATION PLANTS
SIDE-BY-SIDE CONFIGURATION

Primary Separation System	Gladiator GSS 500 High-Capacity Separation System	Designed for HDD drilling fluid recycling and solids control applications.
Stage 1 Separation	Dual-Layer Shale Shaker Deck	Removes coarse and intermediate solids while maintaining maximum throughput.
Hydrocyclone Package	Dual 20-Inch Hydrocyclones	Primary separation down to approximately 60 microns.
Primary Processing Capacity	500m³/h (2,202 GPM)	132,120 Gallons Per Hour
Stage 1 Cut Point	60 Microns	Primary scalping and solids removal.
Secondary Separation System	Fine Solids Recovery Package	Dedicated secondary separation system.
Secondary Cut Point	30 Microns	Final fluid polishing and fine solids removal.
Bentonite Recovery	Enhanced Fluid Recovery	Reduces dilution requirements and fluid replacement costs.
Drilling Fluid Quality	Cleaner Recycled Fluid	Improves drilling performance and tooling life.
Tank Configuration	20-Foot Open-Top Container	Integrated transportable tank system.
Active Fluid Volume	3,000 Gallons	Integrated beneath the recycling package.
Buffer Tank Options	Optional Gladiator Buffer Tanks	Available in multiple capacities for large crossings and rock drilling applications.
Recommended Drill Class	500,000-750,000lb Rigs	Compatible with similar large HDD rigs.
Electrical Requirements	480V / 3-Phase / 60 Hz	Industrial power configuration.
Recommended Generator	250 kW	Recommended minimum operating generator.
Preferred Generator	300 kW	Provides reserve capacity for future expansion and centrifuge integration.



POWER REQUIREMENTS

Recommended Generator: 250 kW

Preferred Generator: 300 kW

Voltage: 480V

Phase: 3-Phase

Frequency: 60 Hz

APPLICATIONS

Gladiator G660

American Augers DD-660

Vermeer D500x500

CONTINUOUS FLUID PROCESSING

The Gladiator separation system combines a dual-screen primary scalping deck with large hydrocyclones and triple-deck fine shaker equipped with dual 20-inch hydrocyclones for continuous solids removal and fluid recovery.

Whether the crew is adding rods or the drill is temporarily stopped, the system keeps processing material to maintain optimal mud quality, reduce downtime and increase overall jobsite efficiency.



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