



GTD MG500

SOLIDS CONTROL EQUIPMENT

SPEC SHEET

GTD MG500 SOLIDS CONTROL EQUIPMENT

The **MG500 Mud Recycling System** is designed to **improve drilling efficiency** by effectively separating and recycling drilling fluids on site. Capable of processing up to **400–500 gallons per minute (1,500–1,900 L/min)** with a separation point **down to 15 micrometers**, the system ensures cleaner drilling fluid and more **consistent performance** throughout the drilling operation.

Built with a **large shale shaker deck**, **multiple hydrocyclone cones**, and a high-capacity tank system, the MG500 **efficiently** removes solids while **maintaining a steady supply** of conditioned drilling fluid. Features such as the adjustable shaker angle, Venturi mud mixing hopper, and **pump-back capability to the rig** allow operators to fine-tune the system to changing ground conditions while **keeping drilling operations running smoothly**.

**FIELD-PROVEN
UPTIME AND
PERFORMANCE,
BACKED BY
CUSTOMER
RESULTS**



**1,665 GAL (6,300 L)
COMBINED CAPACITY**

**148HP
CUMMINS ENGINE**

**4X3X13
CENTRIFUGAL PUMP**

**3.4m² (36ft²)
SHAKER DECK**

**8 X 5"
DESTILER HYDROCLONES**

MUD SYSTEM

- ▶ Shale Shaker Deck - 8 x 5" Cones, with a Shaker Area of 3.4 m² (36 ft²)
- ▶ Screens - 60 Mesh (Bottom) / API 120 Mesh (Top)
API RP 13C Oil & Gas Shaker Screens
- ▶ Destiler Hydroclones (Cones) - 8 x 5"
(Separation Down to 15 Micrometers)
- ▶ Total Tank Capacity - 1,665 gal (6,300 L)
- ▶ Mud Mixing / Storage Tank Capacity - 740 gal (2,800 L)
- ▶ Centrifugal Pump - 4x3x13 Single Stage (x3)
- ▶ V-Shaped Tank Design
(Minimizes Solids Build-Up)
- ▶ OLI 7 G-Force Linear Motors: For Increased Processing Capacity over Optical Motors
- ▶ Pump Back to Rig Capability: For Priming and Supercharging Mud Drilling Pumps
- ▶ Adjustable Shaker Angle of -10° / +6°: For Easy Fine Tuning to Changes in Geology
- ▶ Venturi Mud Mixing Hopper

DIMENSIONS & WEIGHT

- ▶ Length 20' 9" (6.3 m)
- ▶ Width 7' 8" (2.3 m)
- ▶ Height 11' 6" (3.5 m)
- ▶ Weight 30,800 lbs (14,000 kg)



TRACKED CARRIER

- ▶ SOLAR 75 Model
- ▶ Tracking Speed (Lo-Hi)
1.5mph (2.5 km/h) ~ 2.5mph (4 km/h)
- ▶ Gradeability 25°
- ▶ Track Width - 17.7" (450 mm)
- ▶ Steel with Rubber Pads

ENGINE

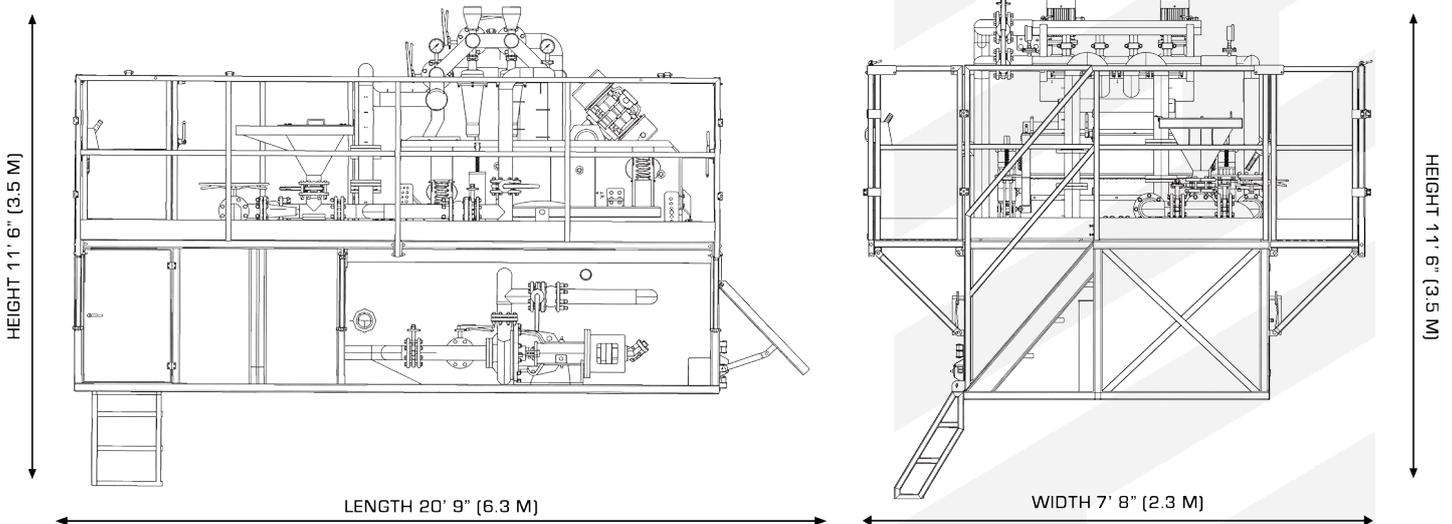
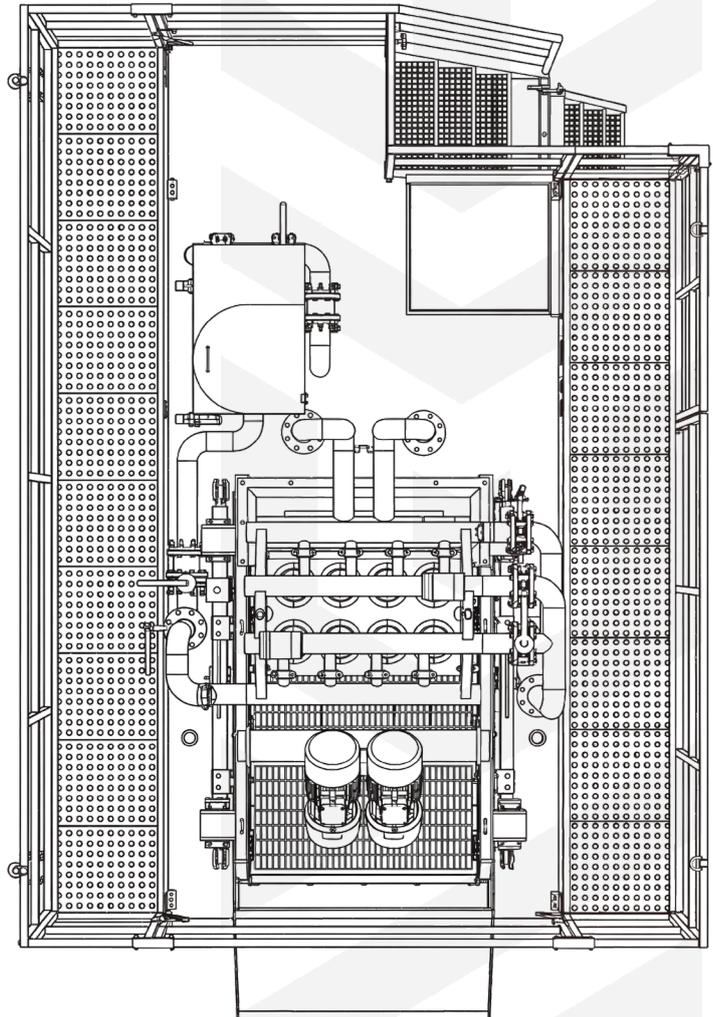
- ▶ Cummins F3.8 (Stage V)
148 hp (82 kW) @ 2,200rpm
- ▶ Fuel Tank - 32 gal (120 L)
- ▶ 12V DC



GTD MG500 DIMENSIONS

COME SEE A GT SERIES RIG IN ACTION AND MEET THE TEAM

We strongly encourage site-visits to see our **GT Series** rigs & our **solids control equipment**, operating on 'live' commercial projects. This offers an authentic, real-world perspective on why our rigs are **productive, safe, and user-friendly**. Also you get to **meet the team** to understand the additional value their **experience, abundance attitude and driller focused knowledge** to maximise the return on any investment in **GTD desco** equipment.



NOTE: THE MEASUREMENTS ABOVE ARE THE BASE DIMENSIONS WHICH MAY BE SUBJECT TO VARIATION DEPENDANT OF THE FINAL DESIGN SPECIFICATIONS SPECIFICATIONS SHOWN ARE ONLY INDICATIVE AND SUBJECT TO CHANGE WITHOUT NOTICE

GTD MG500 CORE FEATURES

The **MG500** is the benchmark for geothermal contractors worldwide, known for its reliability, performance, and value. **Mounted on the robust TC24** with a powerful **Cummins engine**, the MG500 offers **excellent mobility and reliability** on demanding sites. Its combination of **high processing capacity, flexible configuration, and durable design** makes it an essential piece of support equipment for geothermal and water well drilling operations seeking **greater productivity and reduced downtime**.

8 X 5"
DESTILER HYDROCLONES

VENTURI MUD MIXING HOPPER

3.4m² (36ft²)
SHAKER DECK



API 60 MESH (TOP)
API 120 MESH (BOTTOM)

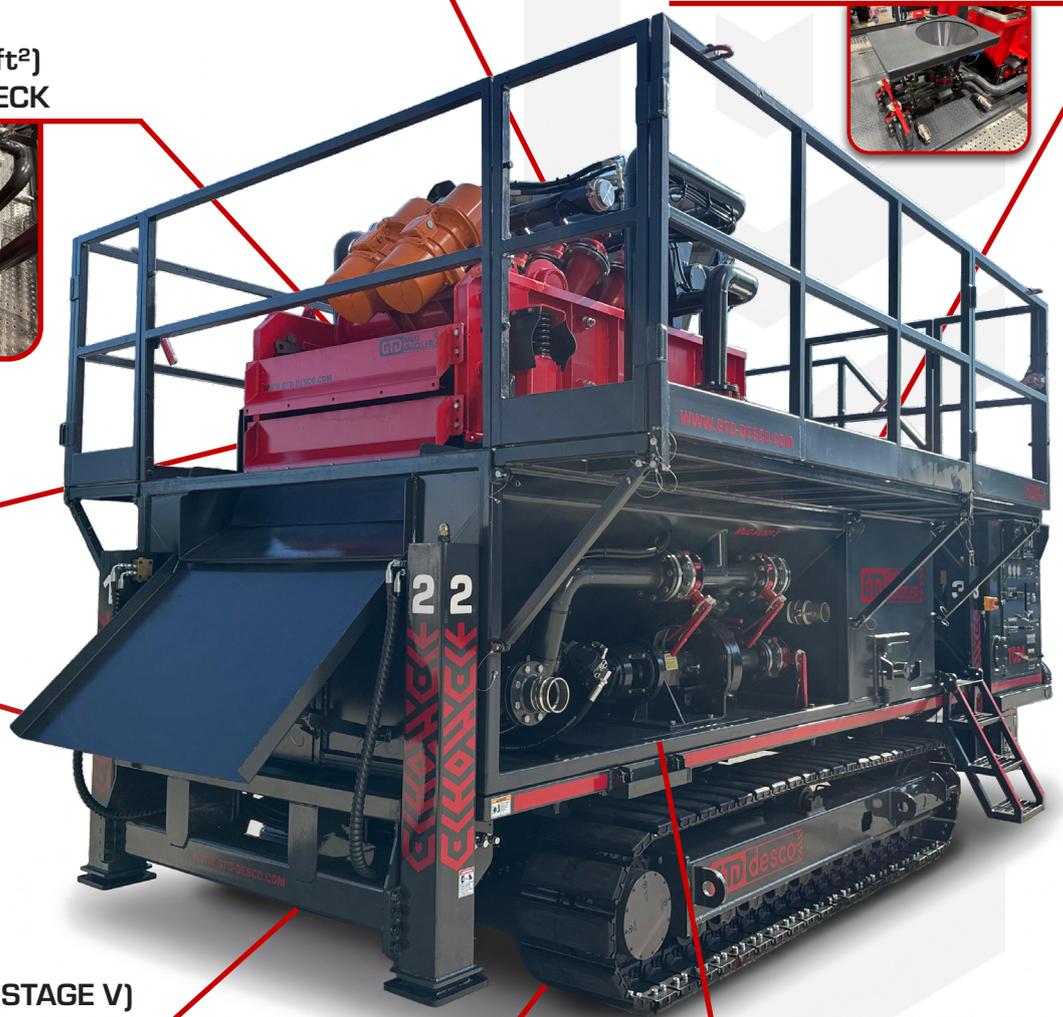
1,665 GAL (6,300 L)
TOTAL TANK CAPACITY



CUMMINS F3.8 (STAGE V)
148HP @ 2,200 RPM

SOLAR 75 TRACKS (TC24)

4X3X13 (x3)
CENTRIFUGAL PUMPS



DATA MONITORING SYSTEM

TURN YOUR DRILL SITE INTO A SMART, CONNECTED SYSTEM WITH GTD.

With real-time data and remote access, you can keep your team informed and in control — reducing risk, boosting performance, and cutting downtime.

WIRELESS SYNC

Wireless sync keeps your rig, solids control equipment, and data logger in constant communication.

Stay ahead with alerts that predict maintenance and catch anomalies early.

LIVE DATA

Live data puts speed, torque, and fluid control at your fingertips.

Cloud dashboards keep your data within reach, wherever you are.

HOW IT LOOKS



(Live data read-outs positioned above main drillers controls)

MONITORED PARAMETERS: WHAT YOU CAN SEE

PARAMETER	PURPOSE / INSIGHT
RATE OF PENETRATION (ROP)	Tracks drilling progress: alerted drop identifies bit wear
TORQUE	Prevents overloading; flags formation changes or stuck pipe
RPM	Optimizes bit performance and drilling efficiency
MUD PUMP PRESSURE	Ensures hole cleaning, formation stability, avoids stuck pipe
MUD VOLUME / FLOW RATE	Monitors fluid usage; supports environmental compliance
HYDRAULIC OIL TEMPERATURE	Prevents overheating; aligns with GTD's upgraded cooling systems
FUEL CONSUMPTION	Tracks rig efficiency vs. torque/RPM output
WEIGHT ON BIT (WOB)	Refines ROP control; critical for bit and formation optimization
DEPTH & DRILL TIME	Tracks progress; enables per-foot cost/performance KPIs
SYSTEMS DIAGNOSTIC LOG	Includes sensor health, alerts, and error messages

GTD SUPPORT

FULL LIFECYCLE SUPPORT

GTD'S COMMITMENT TO UPTIME DOESN'T END AT DELIVERY – IT BEGINS.

A well-maintained piece of GTD equipment delivers strong ROI, safer operations, and longer service intervals, ensuring expert support is always within reach, wherever your operation is based.

KEY SUPPORT FEATURES

- ▶ **Rapid spare parts replenishment** across the **USA, Canada, and the Rest of the World.**
- ▶ **Remote diagnostics and alert configuration** through GTD's **integrated data system.**
- ▶ Multiple **service hubs and parts stores** in **New Hampshire (USA) and Ontario (Canada) Tonbridge (UK).**
- ▶ **On-site commissioning, training, and inspections** by **GTD North American and Global Service Teams.**
- ▶ **Comprehensive service kit** covering the first **2,000+ operating hours.**
- ▶ **Fully bespoke support and service packages** and be created to **suit your business needs.**



GTD LOCATIONS

GTD'S GLOBAL SUPPORT HUB NETWORK MEANS WE CAN DELIVER, WHEREVER, WHENEVER...

A well-maintained GTD rig delivers strong ROI, safer operations, and longer service intervals, ensuring expert support is always within reach, wherever your operation is based.

GTD USA

75A BIRCH RD,
SWANZEY,
NH, 03446,
USA

GTD CANADA

57 INGRAM DR,
NORTH YORK,
ON, M6M 2L6,
CANADA

GTD UK - HQ

QUEEN ST,
PADDOCK WOOD,
TONBRIDGE,
TN12 6PJ
UNITED KINGDOM

GTD SOUTH KOREA

NAM-MYEON,
JEOLLANAM-DO,
SOUTH KOREA

GTD SUPPORT

GTD GLOBAL SUPPORT TEAMS

GTD DOESN'T JUST SELL RIGS — WE SUPPORT YOUR FLEET FOR LIFE.

Our North American field teams and global engineering group ensure your rigs stay productive, safe, and efficient year after year.

NORTH AMERICAN FIELD TEAM



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GET IN TOUCH NOW TO DISCUSS HOW WE CAN IMPROVE THE EFFICIENCY AND SAFETY OF YOUR DRILLING OPERATION...

For more information, contact us on INFO@GTD-DESCO.COM





MG500 SPEC SHEET

WWW.GTD-DESCO.COM