



# GTD GT65DR DRILL RIG

The GT65DR builds on the trusted performance of our GT series, offering unparalleled efficiency in Geothermal drilling. With the innovative double-headed design, the GT65DR ensures borehole stability even in the most challenging formations and able to reach depths beyond 1000 feet (800 m) using mud, air, and hammer drilling methods

The GT65DR comes complete with our unique rod rack and loading system, the most robust, reliable, and safest rod handling system on the market, ensuring maximum safety and efficiency in all drilling operations.

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

65,000 LBS  
**PULL - BACK**

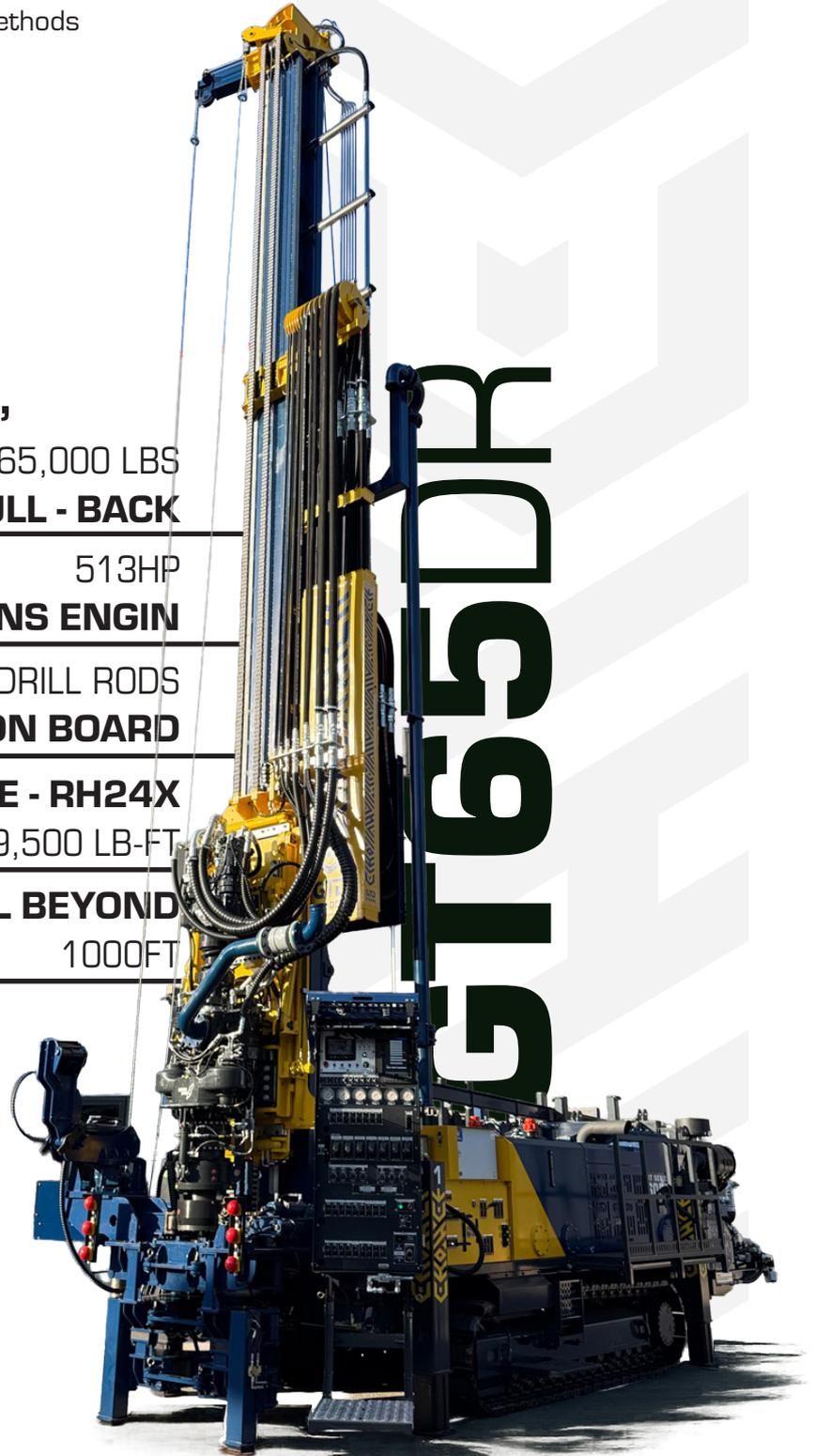
513HP  
**CUMMINS ENGINE**

25FT DRILL RODS  
**960FT ON BOARD**

**EURODRILL TOP DRIVE - RH24X**  
TORE OF 29,500 LB-FT

**DRILL BEYOND**  
1000FT

**DRILL  
DEEPER AND  
FASTER WITH  
MINIMAL  
COMPROMISE**



## DIMENSIONS & WEIGHT

- ▶ Length 41' (12.5m)
- ▶ Width 8' 2" (2.5m)
- ▶ Height 10' 3" (3.2m)
- ▶ Weight 66,000 lbs - 77,000 lbs  
(30,000 kg - 35,000 kg)  
Actual weight will vary depending on the options selected and installed, e.g. Rods...

## DERRICK & FEED SYSTEM

- ▶ 55,000 lbs - 66,000 lbs (25,000 kg - 30,000kg) pull-back
- ▶ 26,455 lbs (12,000 kg) push-down
- ▶ 25' (7.62 m) top head stroke

## DRILL PIPE & CASING

- ▶ 3½" (88.9 mm) x 20' (7.62 m)  
48 rod capacity - 960' (288 m)
- ▶ 3¾" (95 mm) x 20' (6 m)  
44 rod capacity - 880' (264 m)
- ▶ 4" (101.6 mm) x 20' (6 m)  
30 rod capacity - 600' (180 m)
- ▶ Max diameter 12½" (320 mm)

## ROTARY DRILL HEAD - RH24X

- ▶ EA61V head motors
- ▶ Swivel with 2" or 3" thru-hole
- ▶ 220rpm at 3,319 lb-ft (4.5 kNm)
- ▶ 77rpm at 9,293 lb-ft (12.6 kNm)
- ▶ Floating spindle (shock absorber)

## CASING HEAD - EURODRILL RH40X

- ▶ Rotation: 180 rpm
- ▶ Torque 29,500 lb-ft (40 kNm)
- ▶ Dual Head Tip Out System
- ▶ Head 30° Angled Tip Out System
- ▶ Diverter: 4" (102 mm) with  
Hydraulic adjustable compression
- ▶ Chuck: 3½" (89 mm), 5" (152 mm),  
6" (168 mm), 7" (178 mm)

## ENGINE

- ▶ Cummins X12 Tier 4 (Stage 5)  
513 hp (377 kW)

## CRAWLER (TRACK) BASE

- ▶ Doosan Solar 130
- ▶ Steel with rubber pads
- ▶ Wireless remote travel

## GTD STANDARD FEATURES

- ▶ Sideshift - Sliding Drill Head
- ▶ KING OIL Swivel & Floating Spindle Sub 
- ▶ Height adjustable working table
- ▶ Triple Clamps - One rotating
- ▶ Hydraulic Centralizing Rollers
- ▶ Hydraulic Breakout Chain Wrench
- ▶ Auxiliary Hydraulic Ports and Controls
- ▶ Main Winch - 22,000 lbs (10,000 kg)
- ▶ Wire/Sandline Winch
- ▶ Water Injection Mist Pump
- ▶ DTH Lube System
- ▶ Rod Rack & Rod Loader
- ▶ Self Loading Jacks/ Outriggers
- ▶ Air Compressor: 24 cfm (673 lpm),  
130 psi (9 bar)
- ▶ Centrifugal Pump: 4x3x13 Single-stage
- ▶ 5x6 Triplex Piston Pump: 317 gpm @ 580 psi  
(1200 lpm @ 40 bar)
- ▶ Tablet Computer & Engine Diagnostics  
Software
- ▶ Sandline Winch Length 1,000' - 6,500'  
(300 m - 2,000 m)

## OPTIONS

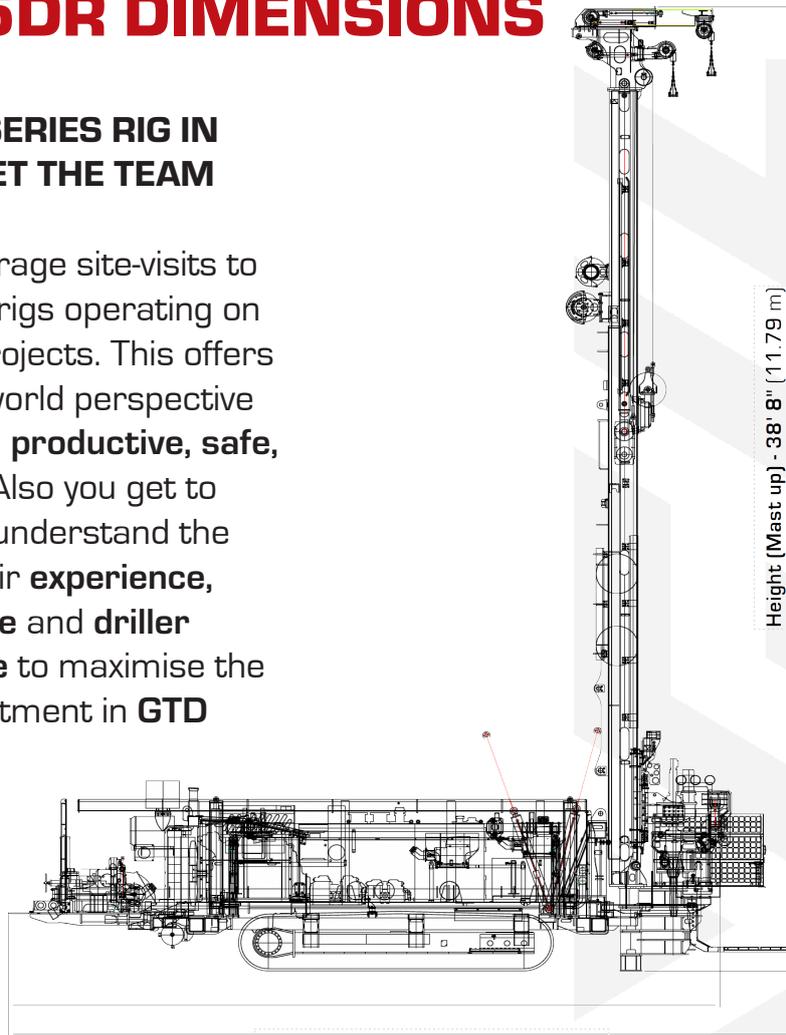
- Hydraulic Sliding Rod Wrench
- Angled Drilling
- Triple Clamps
- Safety Cage
- Head 30° Angled Tip Out System
- Hydraulic Welder & Generator (7.5 kW)



# GTD GT65DR DIMENSIONS

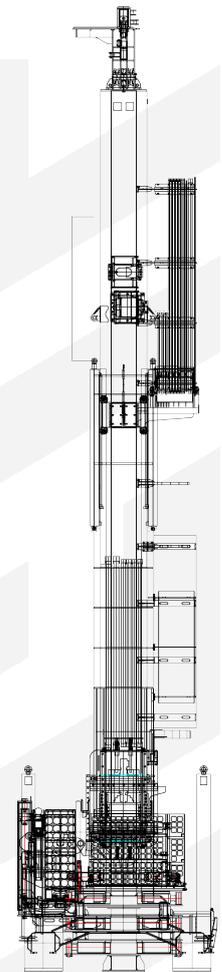
## COME SEE A GT SERIES RIG IN ACTION AND MEET THE TEAM

We strongly encourage site-visits to see our **GT Series** rigs 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.

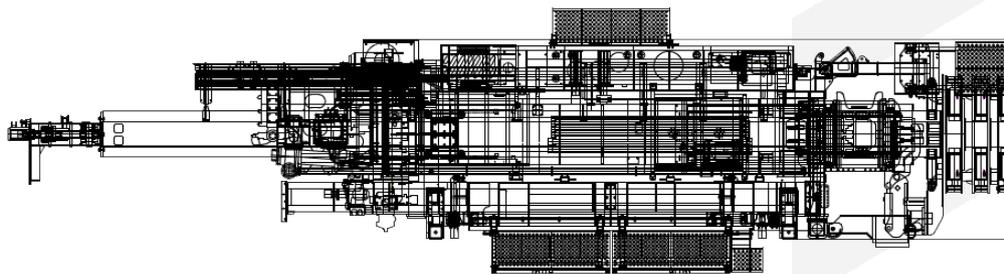


Height (Mast up) - 38' 8" (11.79 m)

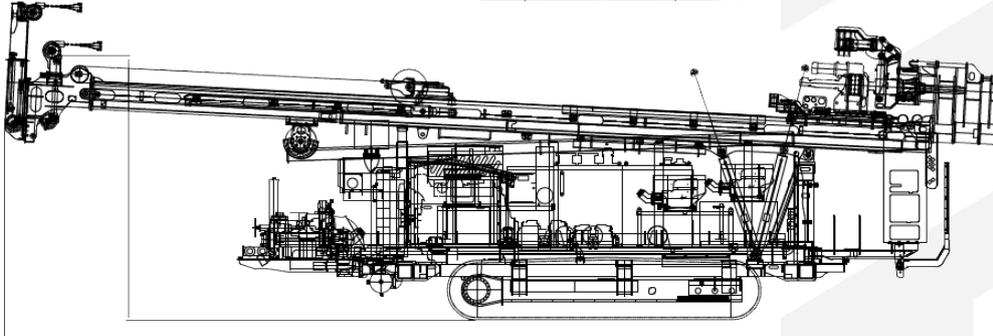
Length (Max) - 38' 8" (11.79 m)



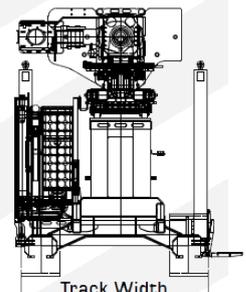
W (Max) - 7' 8" (2.4 m)



Height (Max) - 10' 3" (3.2 m)



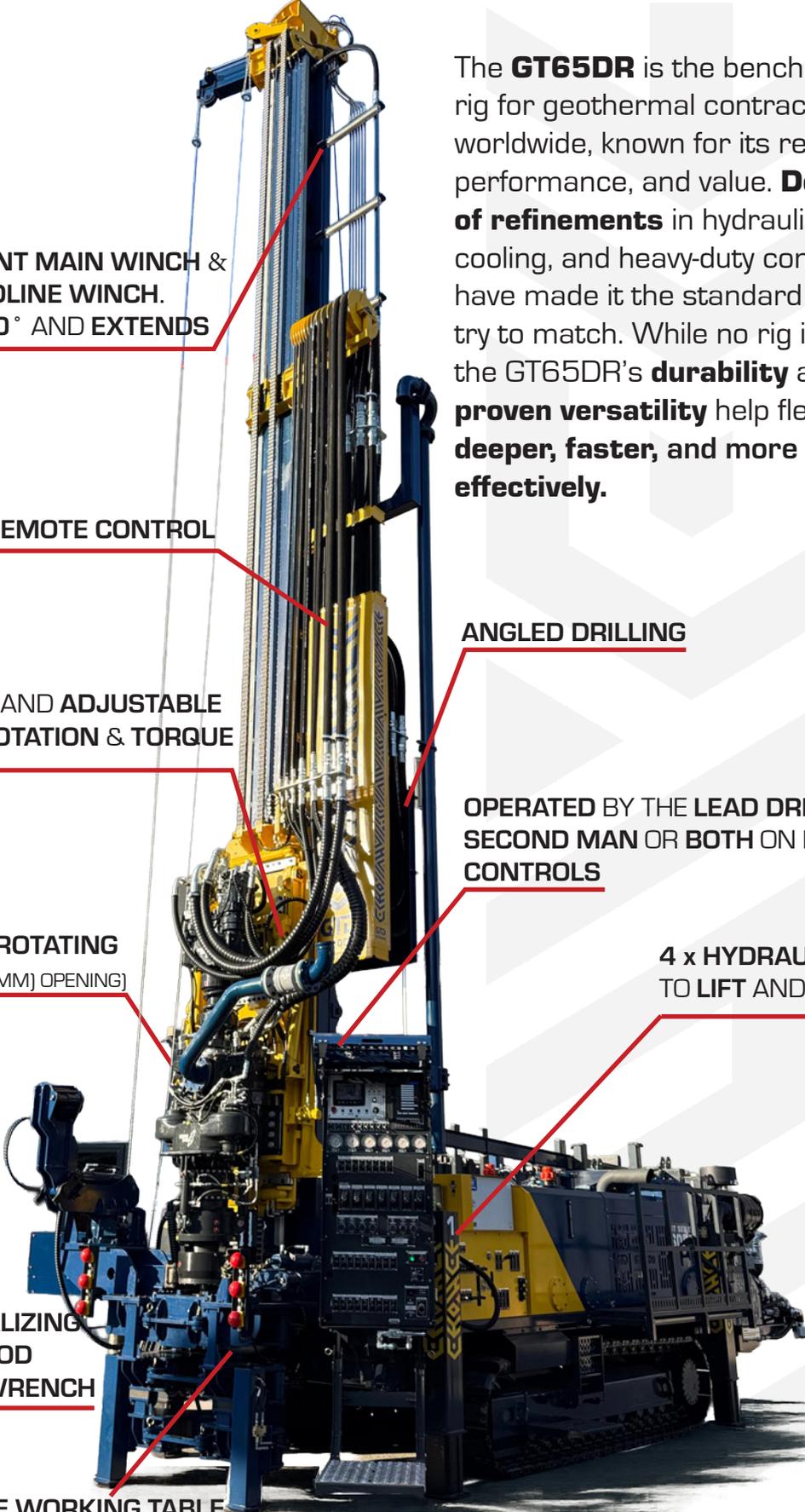
Length (Max) - 38' 7" (11.8 m)



Track Width  
7' 2" (2.2 m)

NOTE: THE MEASUREMENTS ABOVE ARE THE BASE DIMENSIONS WHICH MAY BE SUBJECT TO VARIATION DEPENDENT ON FINAL DESIGN SPECIFICATIONS. SPECIFICATIONS SHOWN ARE ONLY INDICATIVE AND SUBJECTED TO CHANGE WITHOUT PRIOR NOTICE

# GTD GT65DR CORE FEATURES



**INDEPENDANT MAIN WINCH & WIRE / SANDLINE WINCH. ROTATING 90° AND EXTENDS**

**REMOTE CONTROL**

**SLIDING HEAD AND ADJUSTABLE HIGH / LOW ROTATION & TORQUE**

**TRIPLE CLAMPS, 1 ROTATING & 2 FIXED (12½" [320MM] OPENING)**

**HYDRAULIC CENTRALIZING ROLLERS, SLIDING ROD WRENCH & CHAIN WRENCH**

**HEIGHT ADJUSTABLE WORKING TABLE CAN BE USED AS A CASING EXTRACTOR**

The **GT65DR** is the benchmark rig for geothermal contractors worldwide, known for its reliability, performance, and value. **Decades of refinements** in hydraulics, cooling, and heavy-duty components have made it the standard others try to match. While no rig is perfect, the GT65DR's **durability** and **proven versatility** help fleets **drill deeper, faster, and more cost-effectively.**

**ANGLED DRILLING**

**OPERATED BY THE LEAD DRILLER, SECOND MAN OR BOTH ON DUAL CONTROLS**

**4 x HYDRAULIC LEGS TO LIFT AND LEVEL**

## GTD GT65DR ADDITIONAL INFO

### HYDRAULIC WELDER

Ideal for welding casing and for on-site power and welding requirements.

### HYDRAULIC SLIDING ROD & WRENCH

Used if you are not confident with clamps and are worried about dropping rods.

### ANGLED DRILLING

Drill up to 45° angles. As standard 20 degrees is achievable, but for greater angles we recommend moving the table travel. Keeps the site tidy when not using surface casing and diverter when air drilling.

### TRIPPLE CLAMPS

Useful if drilling with a lot of casing.

### AIR DRILLING SKIRT

Keeps the site tidy when not using surface casing and acts as a diverter when air drilling.

### HIGH TORQUE MOTORS & REDUCTION GEARBOX

Upgrade the standard head with high-speed bent-axis motors and a reduction gearbox, giving a 24% increase in torque and increased motor life.

### EURODRILL RH24X

With almost double the torque of the standard GT35 drill head from a world-renowned manufacturer.



### SAFTEY CAGE

Meets your country-specific requirements with a safety cage and rotation cut-off.

### PUMPS

Centrifugal pump: 4×3×13 single-stage

Mud Puppy 250 or GTD own 4×3×13" heavy-duty chromoly pump  
Interchangeable parts between both

Configured for dual mud pumps of your choice:

- Two centrifugal pumps  
or
- One centrifugal and one piston pump

### High-Pressure Piston Pump

- MP1200 5×6 Triplex Piston Pump
- 317 gpm @ 580 psi (1,200 lpm @ 40 bar)

### RODS AND CASING

PP52 tapered flush thread delivers maximum flow and joint strength without the limitations of API designs, ensuring full hydraulic performance with leak-free connections.

Premium friction-welded joints with extended, thick transition zones reduce stress concentrations and improve resistance to cyclic fatigue under high torque.

## 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 right above main drillers controls)

## MONITORED PARAMETERS: WHAT YOU CAN SEE

PARAMETER	PURPOSE / INSIGHT
<b>RATE OF PENETRATION (ROP)</b>	Tracks drilling progress: alerted drop identifies bit wear
<b>TORQUE</b>	Prevents overloading; flags formation changes or stuck pipe
<b>RPM</b>	Optimizes bit performance and drilling efficiency
<b>MUD PUMP PRESSURE</b>	Ensures hole cleaning, formation stability, avoids stuck pipe
<b>MUD VOLUME / FLOW RATE</b>	Monitors fluid usage; supports environmental compliance
<b>HYDRAULIC OIL TEMPERATURE</b>	Prevents overheating; aligns with GTD's upgraded cooling systems
<b>FUEL CONSUMPTION</b>	Tracks rig efficiency vs. torque/RPM output
<b>WEIGHT ON BIT (WOB)</b>	Refines ROP control; critical for bit and formation optimization
<b>DEPTH &amp; DRILL TIME</b>	Tracks progress; enables per-foot cost/performance KPIs
<b>SYSTEMS DIAGNOSTIC LOG</b>	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 wellmaintained GTD rig 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.**
- ▶ Multipul **service hubs and parts stores** in **New Hampshire (USA) and Ontario (Canada) Tonbridge (UK).**
- ▶ **Onsite 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 wellmaintained 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 KORIA**

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](mailto:INFO@GTD-DESCO.COM)



**GT65DR SPEC SHEET**

[WWW.GTD-DESCO.COM](http://WWW.GTD-DESCO.COM)