



RC SERIES

# GTD RC45

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EXPLORATION - REVERSE CIRCULATION DRILL RIG

SPEC SHEET

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## GTD RC45 DRILL RIG

The RC45 builds on the trusted performance of our GT SERIES, offering unparalleled efficiency and safety in Exploration drilling. With the innovative double-headed design, the RC45 ensures borehole stability even in the most challenging formations and able to reach depths beyond 1,000 feet (800 m).

The RC45 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

46,300 LBS  
PULL - BACK

380HP  
CUMMINS ENGINE

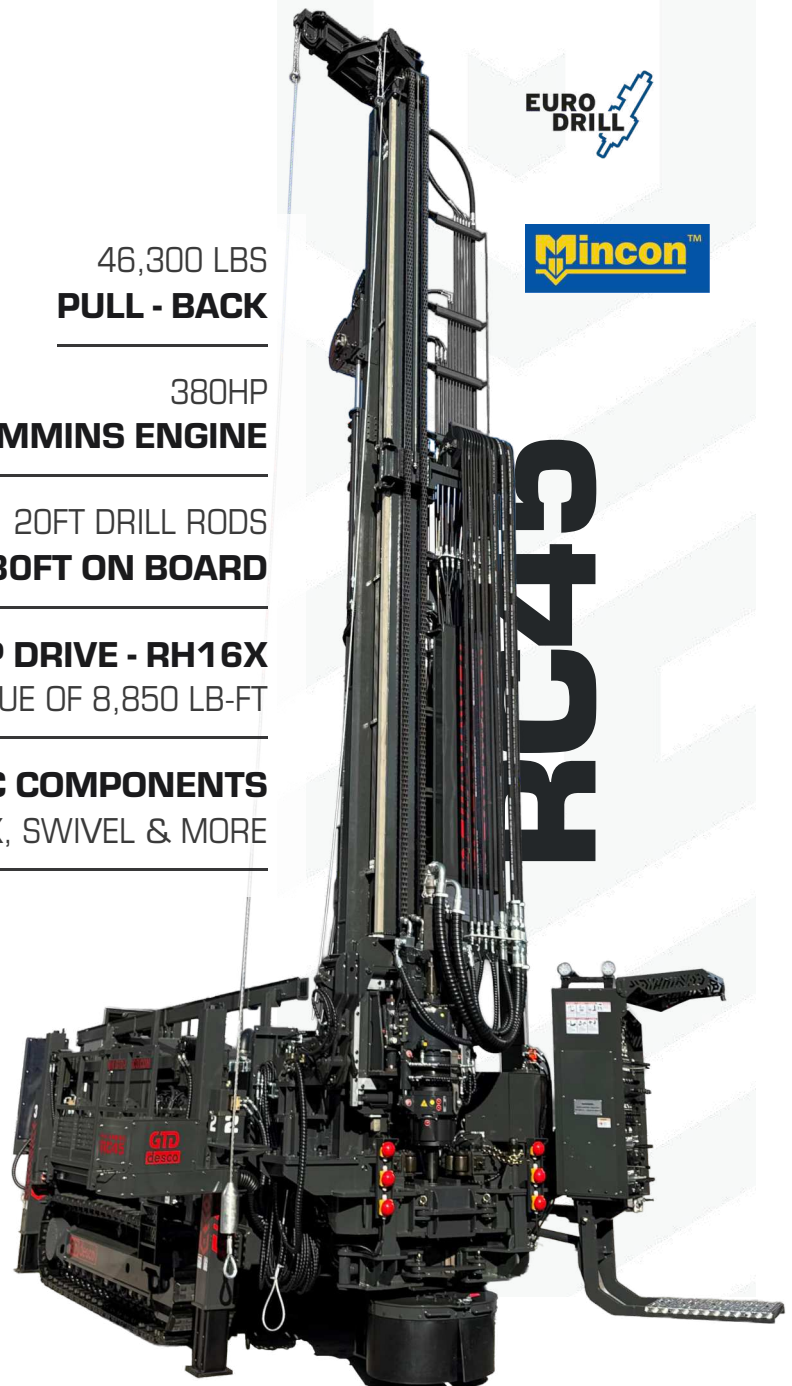
20FT DRILL RODS  
880FT ON BOARD

EURODRILL TOP DRIVE - RH16X  
TORQUE OF 8,850 LB-FT

RC COMPONENTS  
BLAST BOX, SWIVEL & MORE

## DRILL DEEPER AND FASTER WITH MINIMAL COMPROMISE

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EURO  
DRILL

Mincon™

## DIMENSIONS & WEIGHT

- ▶ Length 38' 7" (11.8 m)
- ▶ Width 7' 11" (2.4 m)
- ▶ Height 10' 5" (3.2 m)
- ▶ Weight 57,320 lbs - 70,550 lbs  
(26,000 kg - 32,000 kg)  
Actual weight will vary depending on the options selected and installed, e.g. Rods...

## DERRICK & FEED SYSTEM

- ▶ 46,300 lbs (21,000 kg) pull-back
- ▶ 17,640 lbs (8,000 kg) push-down
- ▶ 24' 7" (7.5 m) top head stroke

## DRILL PIPE & CASING

- ▶ 3½" (88.9 mm) × 20' (6 m)  
40 rod capacity – 880' (264 m)  
(OTHER SIZES AVAILABLE)
- ▶ 3¾" (95 mm) × 20' (6 m)  
36 rod capacity – 720' (216 m)
- ▶ Max diameter 12½" (320 mm)

## ROTARY HEAD - RH16X

- ▶ EA61V head motors
- ▶ Swivel with 2½" thru-hole
- ▶ 202rpm at 3,717 lb-ft (5.04 kNm)
- ▶ 63rpm at 11,897 lb-ft (16.13 kNm)
- ▶ Floating spindle (shock absorber)

## RC COMPONENTS

- ▶ Blast Box
- ▶ Blowdown Valves
- ▶ Swivel
- ▶ Sampling Splitter

## ENGINE

- ▶ Cummins L9 (Stage 5)
- ▶ 380 hp (283 kW)

## CRAWLER (TRACK) BASE

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

## GTD STANDARD FEATURES

- ▶ Sideshift - Sliding Drill Head
- ▶ Swivel & Floating Spindle Sub
- ▶ Height Adjustable Working Table
- ▶ Double Clamps – One rotating
- ▶ Hydraulic Centralizing Rollers
- ▶ Hydraulic Breakout Chain Wrench
- ▶ Auxiliary Hydraulic Ports and Controls
- ▶ Main Winch - 11,000 lbs (5,000 kg)
- ▶ Wire/Sandline Winch
- ▶ Water Injection Mist Pump (MP75)
- ▶ DTH Lube System
- ▶ Rod Rack & Rod Loader
- ▶ Hydraulic Welder & Generator (7.5 kW)
- ▶ Self Loading Jacks/ Outriggers
- ▶ Air Compressor: 24 cfm (673 lpm), 130 psi (9 bar)
- ▶ Centrifugal Pump: 4x3x13 Single-stage or Multi-stage
- ▶ Tablet Computer & Engine Diagnostics Software
- ▶ Sandline Winch Length - 300 m / 8 mm (1,000 ft / ¼")
- ▶ 5 x 6 Triplex Piston Pump: 317 gpm @ 580 psi (1,200 lpm @ 40 bar)

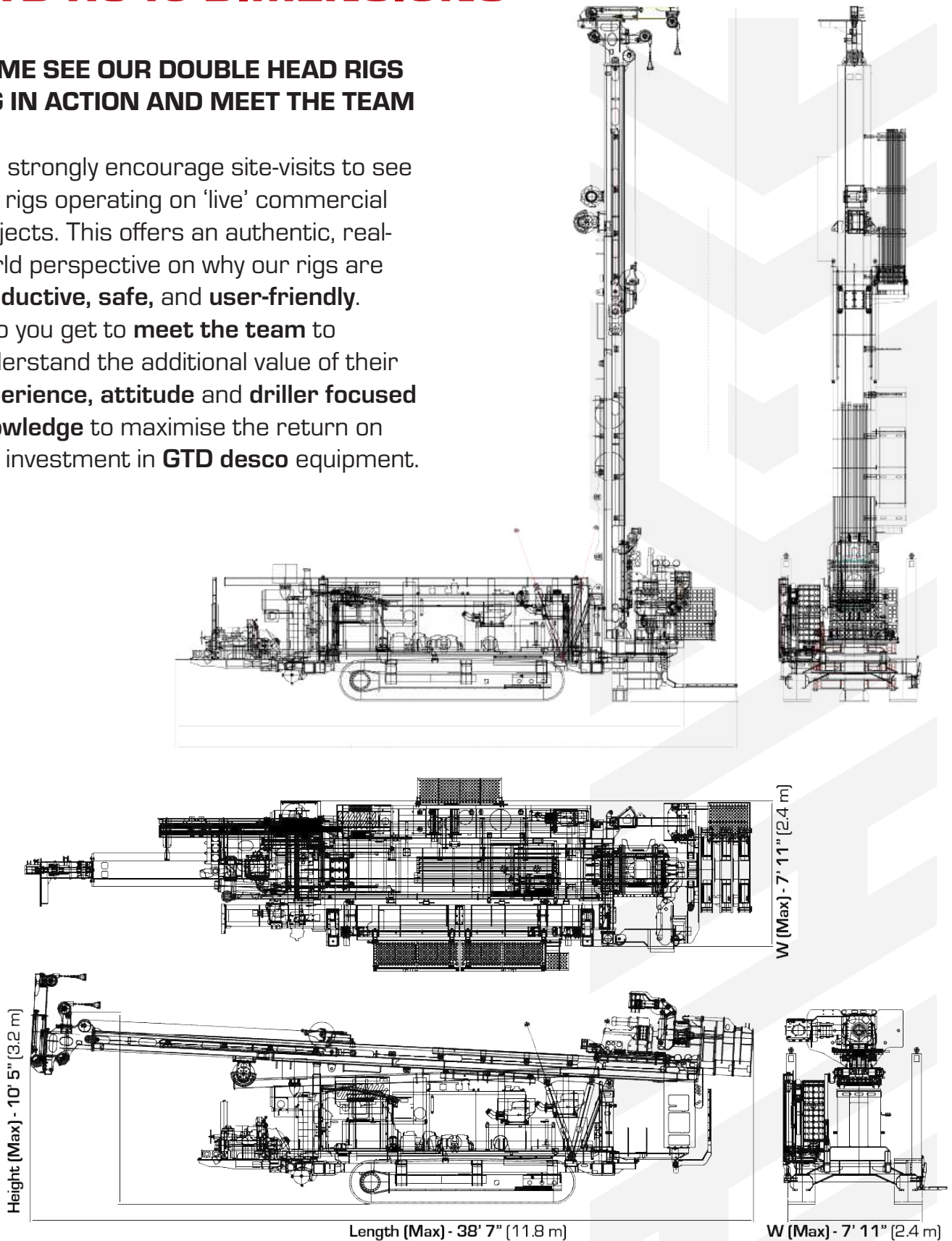
## OPTIONS

- ☐ Hydraulic Sliding Rod Wrench
- ☐ Safety Cage
- ☐ Head 30° Angled Tip Out System
- ☐ Angled Drilling (45°)
- ☐ Triple Clamps

# GTD RC45 DIMENSIONS

## COME SEE OUR DOUBLE HEAD RIGS RIG IN ACTION AND MEET THE TEAM

We strongly encourage site-visits to see our 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 of their **experience, 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 DEPENDENT ON FINAL DESIGN SPECIFICATIONS. SPECIFICATIONS SHOWN ARE ONLY INDICATIVE AND SUBJECTED TO CHANGE WITHOUT PRIOR NOTICE

## GTD RC45 CORE FEATURES

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

ANGLED DRILLING



RH16X ROTARY  
DRILL HEAD

SLIDING HEAD AND ADJUSTABLE  
HIGH / LOW ROTATION & TORQUE



SKID  
MOUNTED SAMPLING

SPINDLE MOUNTED  
DISCHARGE

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

REMOTE CONTROLLED

HYDRAULIC CENTRALIZING  
ROLLERS, SLIDING ROD  
WRENCH & CHAIN WRENCH

4x HYDRAULIC LEGS  
TO LIFT AND LEVEL

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

# GTDData MONITORING SYSTEM

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

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, ancillary 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>AIR FLOW (CFM)</b>            | Ensures consistent drilling parameters                           |
| <b>AIR PRESSURE (PSI)</b>        | Monitors true air pressure and performance                       |
| <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 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.

## 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...

Multiple strategically located facilities around the world enabling us to respond quickly, mobilise efficiently, and provide seamless support tailored to our customers' needs across regions, time zones, and operational demands.

#### 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

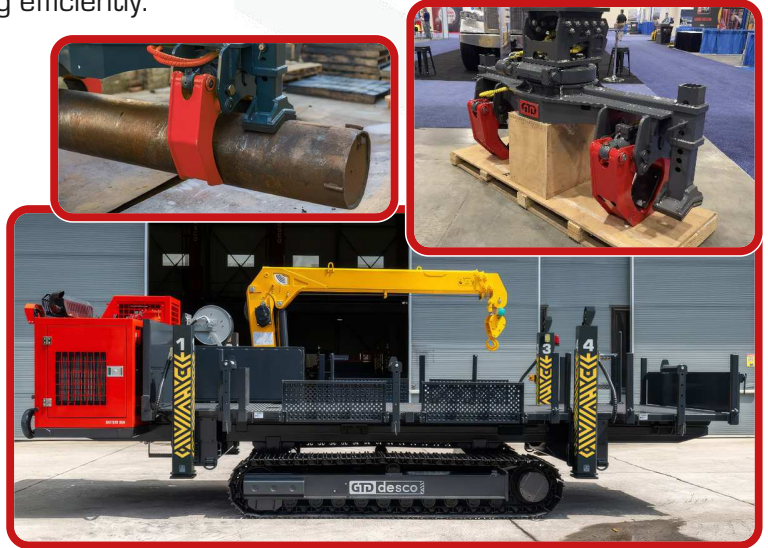
NAM-MYEON,  
JEOLLANAM-DO,  
SOUTH KOREA

## GTD TC48

The TC48 Tracked Carrier serves as a **multifunctional tool**, offering the flexibility to **transport (and power)** a diverse range of equipment and tooling efficiently.

It can be fitted with **Rod Rack and loading system** for when you are drilling beyond the onboard capacity of the rigs. It can also be equipped with a **Hiab hydraulic loader crane with a casing grab**, along with a **compressor, booster, fuel tank**, and other auxiliary equipment.

Furthermore, it acts as a **hydraulic power pack** that can **power auxiliary equipment**.



Fitted with the large **Cummins 200HP+ Powerplant** and larger **Doosan Solar 130 tracks** (same as on the 45/60 series drill rigs)

### OPTIONS

- ☐ Rod Rack System
- ☐ Hiab Hydraulic Loader Crane with Casing Grab



## GTD TRACKED COMPRESSOR



### FEATURES

- ▶ 1350CFM 507.5 PSI Air Compressors
- ▶ Equipped With **High Efficiency Two Stage Air-End**
- ▶ Powered By **Cummins X15 (675HP) Stage V Engine**

### OPTIONS

- ☐ Booster
- ☐ Bulk Fuel Tank

## 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**



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**RC45 SPEC SHEET**

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