



GT SERIES

GTD GT35

GEOTHERMAL & WATER WELL DRILL RIG

SPEC SHEET

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GTD GT35 DRILL RIG

The **GT series of drill rigs** are known for their **high productivity** and **reliability** in geothermal drilling, with **proven performance** in both domestic and commercial applications around the world. These rigs are the **number one choice** for **leading industry professionals**, thanks to their **versatility** and ability to handle a variety of drilling conditions with **precision** and **efficiency**.

The **GT35** model is designed to drill up to **650ft deep boreholes** productively but can reach depths beyond **1,300 feet** (400 meters) using **mud, air,** and **hammer** drilling methods. It is equipped with our unique **rod rack and loading system**, which is 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**

35,000 LBS
PULL - BACK

290HP
DOOSAN ENGINE

20FT DRILL RODS
800FT ON BOARD

**DRILL BEYOND
650FT**

**DRILL
DEEPER AND
FASTER WITH
MINIMAL
COMPROMISE**

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DIMENSIONS & WEIGHT

- ▶ Length 38' 7" (11.8m)
- ▶ Width 7' 8" (2.4m)
- ▶ Height 10' 3" (3.2m)
- ▶ Weight 44,000 lbs - 55,000 lbs
(20,000 kg - 25,000 kg)
Actual weight will vary depending on the options selected and installed, e.g. Rods...

DERRICK & FEED SYSTEM

- ▶ 35,274 lbs (16,000 kg) pull-back
- ▶ 14,330 lbs (6,500 kg) push-down
- ▶ 24' 7" (7.5 m) top head stroke

DRILL PIPE & CASING

- ▶ 3½" (88.9 mm) x 20' (6 m)
- ▶ 40 rod capacity - 800' (240 m)
- ▶ Max diameter 12½" (320 mm)

ENGINE

- ▶ Doosan DL08 Tier 4 (Stage 5)
290 hp (213 kW)
- ▶ Typical engine speed - 1600 rpm
- ▶ Max engine speed - 1800 rpm

ROTARY DRILL HEAD

- ▶ Variable twin Eaton motor head
with 2" (60 mm) thru-hole
- ▶ 0-135 rpm @ 6195 lb-ft
- ▶ 0-260 rpm @ 3097 lb-ft

CRAWLER (TRACK) BASE

- ▶ Doosan Solar 75
- ▶ Steel with rubber pads
- ▶ Wireless remote travel

GTD STANDARD FEATURES

- ▶ Sideshift - Sliding Drill Head
- ▶ KING OIL 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
- ▶ Self Loading Jacks/ Outriggers
- ▶ Air Compressor: 24 cfm (673 lpm),
130 psi (9 bar)
- ▶ Centrifugal Pump: 4x3x13 Single-stage
- ▶ Triplex Piston Pump (MP1000) 4.5x5.5:
264 gpm @ 580 psi (1000 lpm @ 40 bar)

OPTIONS

- ☐ Hydraulic Sliding Rod Wrench
- ☐ Angled Drilling
- ☐ Triple Clamps
- ☐ Air Drilling Skirt
- ☐ Safety Cage
- ☐ EURODRILL RH16X Rotary Drill Head
(11,896 lb-ft)
- ☐ Hydraulic Welder & Generator (7.5 kW)
- ☐ High Torque Head Motors and Reduction
Gearbox (24% increase in Torque)
- ☐ Triplex Piston Pump (MP1200) 5X6 : 317
gpm @ 580 psi (1200 lpm @ 40 bar)

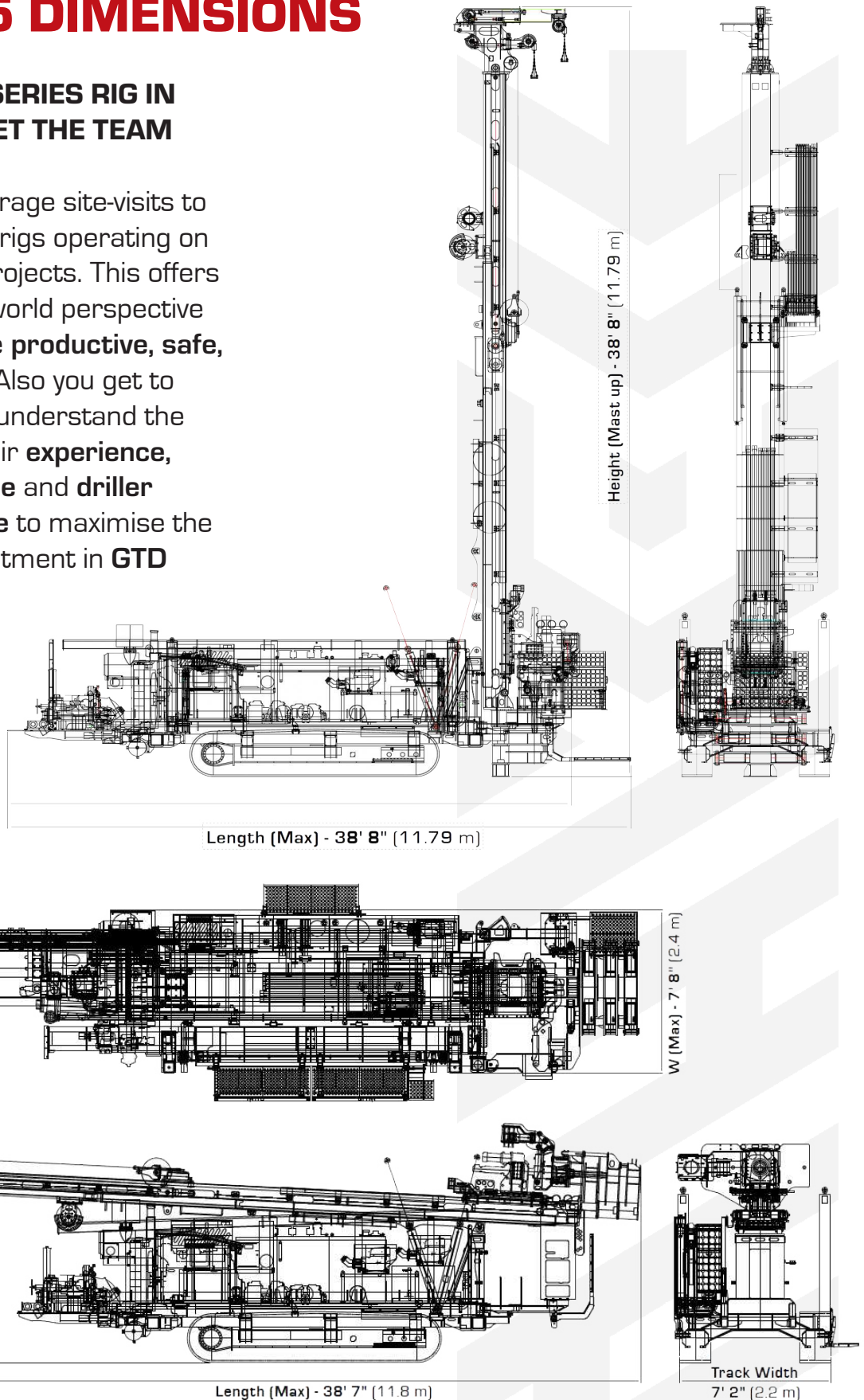
**EURO
DRILL**



GTD GT35 DIMENSIONS

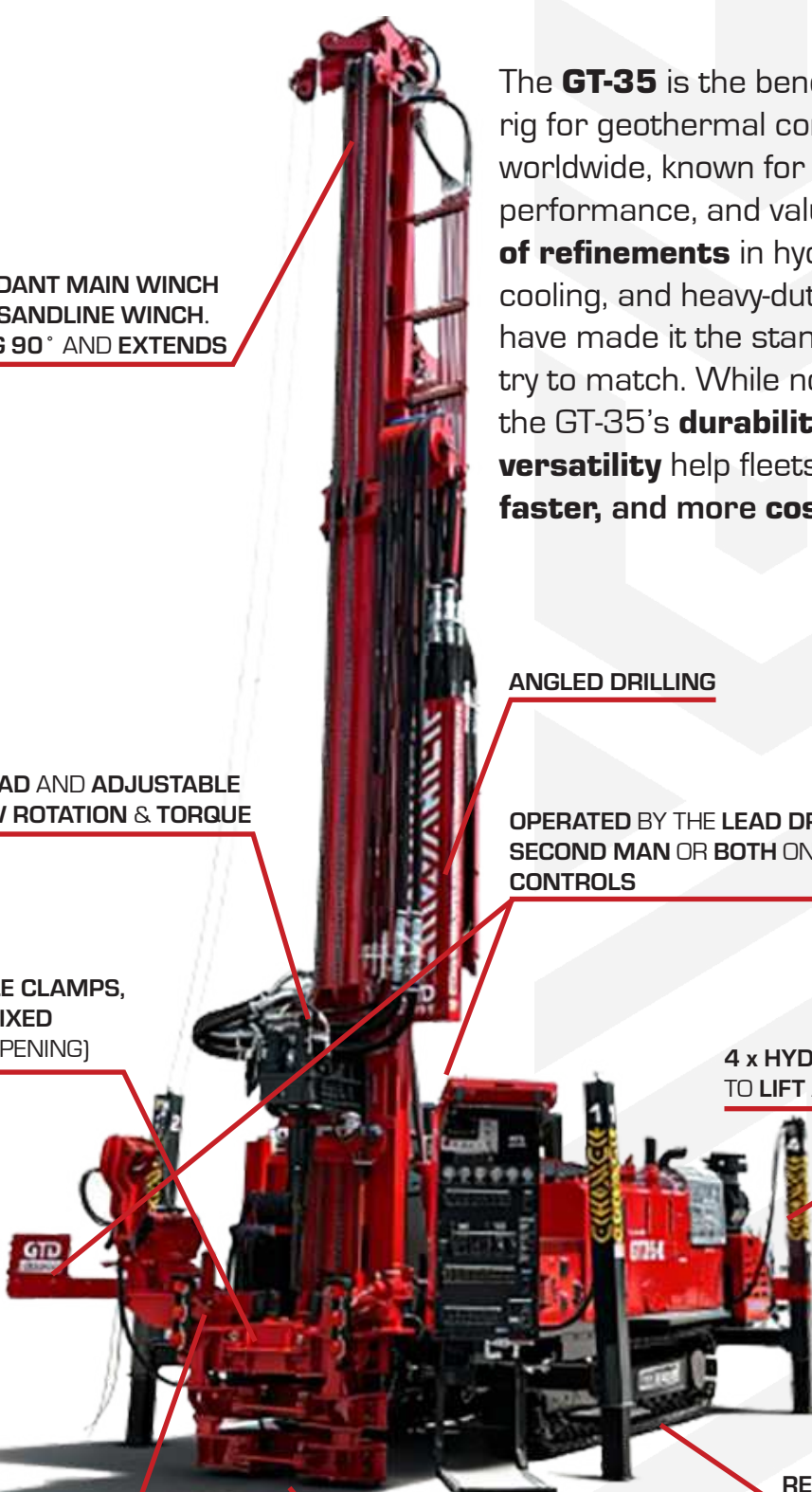
COME SEE A GT SERIES RIG IN ACTION AND MEET THE TEAM

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.



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 GT35 CORE FEATURES

A red GTD GT35 geothermal drilling rig is shown from a side profile. It has a tall vertical mast, a base with four hydraulic legs, and a control panel. Red lines connect various parts of the rig to descriptive text boxes.

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

The **GT-35** 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 GT-35's **durability** and **proven versatility** help fleets **drill deeper, faster, and more cost-effectively**.

SLIDING HEAD AND ADJUSTABLE
HIGH / LOW ROTATION & TORQUE

ANGLED DRILLING

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

DOUBLE OR TRIPLE CLAMPS,
1 ROTATING & 2 FIXED
(12½" (320MM) OPENING)

4 x HYDRAULIC LEGS
TO LIFT AND LEVEL

HYDRAULIC CENTRALIZING
ROLLERS, SLIDING ROD
WRENCH & CHAIN WRENCH

REMOTE CONTROL

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

GTD GT35 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.

TRIPLE 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 RH16X

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

SAFETY 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.



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, 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
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 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 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**



GT35 SPEC SHEET

WWW.GTD-DESCO.COM