

GTD GT45

GEOTHERMAL & WATER WELL DRILL RIG



GTD desco

GTD GT45 DRILL RIG

The **GTD** 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 **GT45** model is ideal for drilling 800ft - 1000ft boreholes productively 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.

DIMENSIONS & WEIGHT

- ▶ Length 38' 8" (11.79m)
- ▶ Width 7' 10" (2.39 m)
- ▶ Height 11' 2" (3.4m)
- ▶ 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

- ▶ 3 1/2" (88.9 mm) x 20' (or 6 m)
44 rod capacity - 880' (or 264 m)
- ▶ 3 3/4" (95 mm) x 20' (or 6 m)
36 rod capacity - 720' (or 216 m)
- ▶ Max diameter 12 1/2" (320 mm)

ENGINE

- ▶ Cummins L9 (Stage 5)
- ▶ 380 hp (283 kW)
- ▶ Typical engine speed - 1400 rpm - 1600 rpm
- ▶ Max engine speed - 1800 rpm

ROTARY DRILL HEAD - RH16X

- ▶ Swivel with 2 1/2" thru-hole
- ▶ 202rpm at 3,717 lb-ft (5.04 kNm)
- ▶ 63rpm at 11,897 lb-ft (16.13 kNm)
- ▶ Chuck and Floating Head

CRAWLER (TRACK) BASE

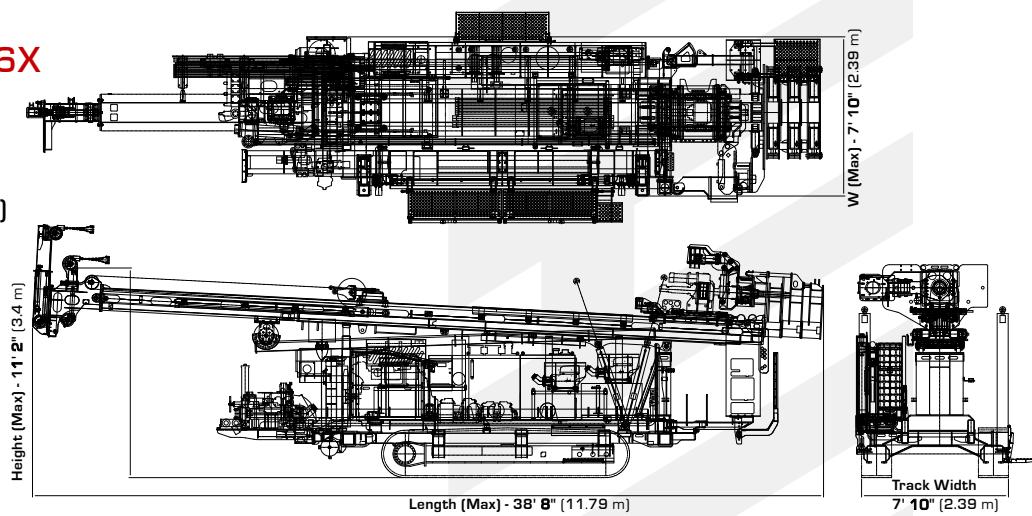
- ▶ Doosan Solar 130
- ▶ Steel with rubber pads
- ▶ Wireless remote travel

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
- ▶ 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
- ▶ 5x6 Triplex Piston Pump:
317 gpm @ 580 psi (1200 lpm @ 40 bar)
- ▶ Tablet Computer & Engine Diagnostics Software

OPTIONS

<input type="checkbox"/> Hydraulic Sliding Rod Wrench	<input type="checkbox"/> Angled Drilling
<input type="checkbox"/> Triple Clamps	<input type="checkbox"/> Safety Cage
<input type="checkbox"/> Head 30° Angled Tip Out System	

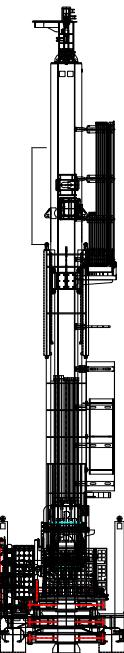
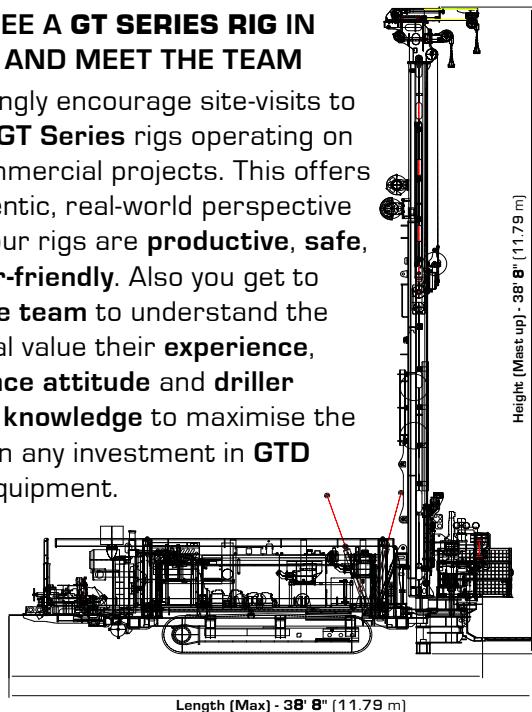


NOTE: THE MEASUREMENTS ABOVE ARE THE BASE DIMENSIONS WHICH MAY BE SUBJECT TO VARIATION DEPENDENT ON FINAL DESIGN SPECIFICATIONS. SPECIFICATIONS SHOWN ARE ONLY INDICATIVE AND SUBJECTED TO CHANGE WITHOUT PRIOR NOTICE - TECHNICAL DRAWING IS FOR VISUALIZATION PURPOSES ONLY.

GTD GT45 DRILL RIG

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.



CUSTOMER INSIGHT

PRESIDENT OF PANTERRA ENERGY, SHARES INSIGHTS ON GTD DESCO'S UNIQUE SERVICE

DON'T BASE YOUR DECISION ON SPECS ALONE, COME & SEE THE RIG IN ACTION...



GTD DESCO THE NO.1 CHOICE FOR GEOTHERMAL INDUSTRY LEADERS

GTD GT45 DRILL RIG

ROD LOADER



ROD RACK SYSTEM



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

HEIGHT ADJUSTABLE WORKING TABLE



CAN BE USED AS A CASING EXTRACTOR

SLIDING HEAD



ADJUSTABLE HIGH / LOW ROTATION & TORQUE

TRIPLE CLAMPS
1 ROTATING & 2 FIXED
12½" (320 mm) OPENING



HYDRAULIC CHAIN WRENCH



HYDRAULIC CENTRALIZING ROLLERS



HYDRAULIC SLIDING ROD WRENCH

REMOTE CONTROL



STEEL TRACKS WITH RUBBER PADS

ANGLED DRILLING

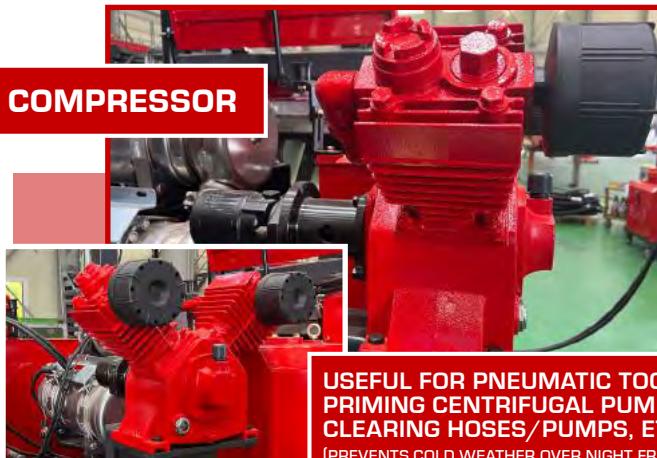


SELF LOADING

4 x HYDRAULIC LEGS TO LIFT & LEVEL THE RIG



GTD GT45 DRILL RIG



AUXILIARY HYDRAULICS



TABLET COMPUTER & ENGINE DIAGNOSTICS SOFTWARE



CONFIGURED FOR DUAL MUD PUMPS



THE DUAL PUMP SETUP PROVIDES A BACK-UP AND VERSATILITY IN CHANGING DRILLING CONDITIONS