

# GTD GT45

GEOTHERMAL & WATER WELL DRILL RIG



**GTD** desco

## GTD GT45 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 **GT45** model is able to reach **depths beyond 2,300 feet (700 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.

### DIMENSIONS & WEIGHT

- ▶ Length 38' 7" (11.8m)
- ▶ Width 7' 11" (2.41 m)
- ▶ Height 10' 5" (3.2m)
- ▶ 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
- ▶ 202 rpm at 3,717 lb-ft (5.04 kNm)
- ▶ 63 rpm at 11,897 lb-ft (16.13 kNm)
- ▶ Chuck and Floating Head

### CRAWLER (TRACK) BASE

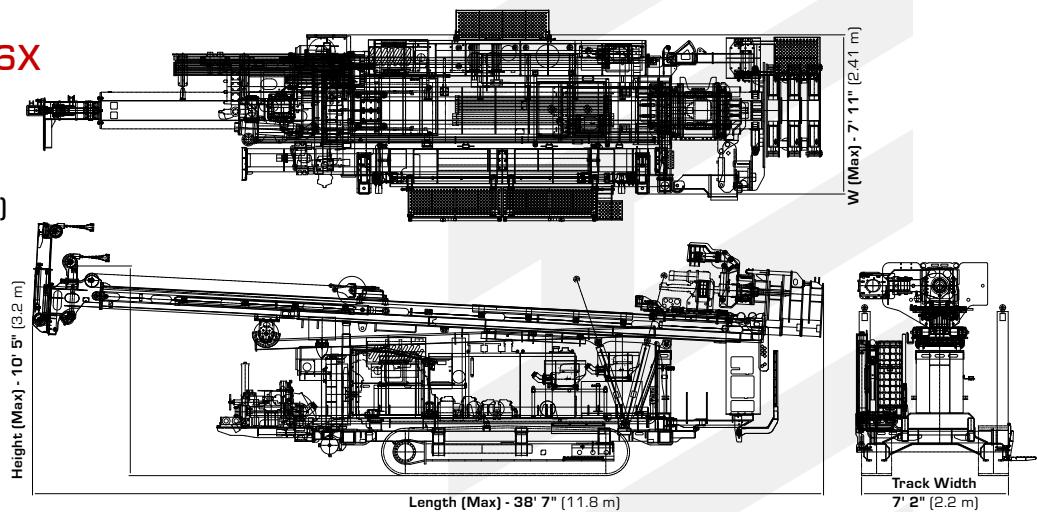
- ▶ Doosan Solar 130
- ▶ Steel with rubber pads
- ▶ Wireless remote travel

### 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

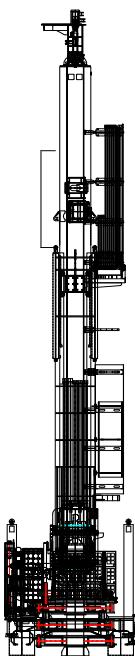
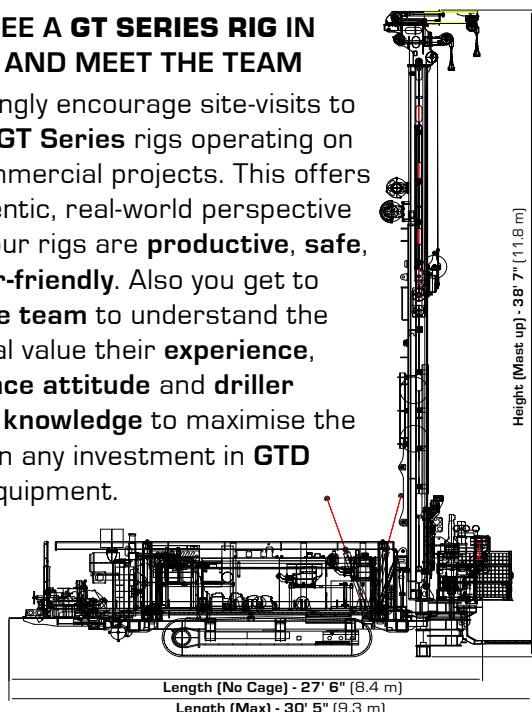
<input type="checkbox"/> Hydraulic Sliding Rod Wrench	<input type="checkbox"/> Angled Drilling
<input type="checkbox"/> Triple Clamps	<input type="checkbox"/> Safety Cage
<input type="checkbox"/> Head 30° Angled Tip Out System	



## 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 CENTRALIZING ROLLERS**

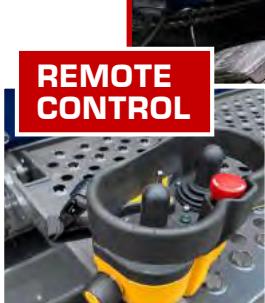


**HYDRAULIC CHAIN WRENCH**



**HYDRAULIC SLIDING ROD WRENCH**

**REMOTE CONTROL**



**STEEL TRACKS WITH RUBBER PADS**



**ANGLED DRILLING**

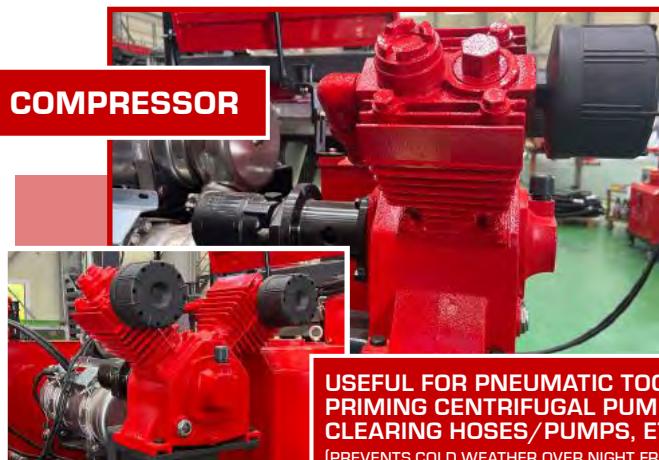


**SELF LOADING**



**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