DRILLING PACKAGES

WHY BUY A COMPLETE PACKAGE?

- IT’S EVERYTHING YOU NEED - WHETHER YOU ARE A START-UP, EXPANDING OR DIVERSIFYING
- METICULOUSLY ENGINEERED AND SPECIFIED TO WORK TOGETHER
- THE MOST AFFORDABLE WAY TO BUY EQUIPMENT
- A SINGLE FINANCE PACKAGE
- ONE DELIVERY DATE
- REDUCED RISK (FINANCIALLY, NON-COMPATIBILITY AND TO PRODUCTIVITY)

Leverage our decades of experience as experts in geothermal ground source drilling when specifying the most relevant package for your needs.

Our packages aren’t just about equipment sales, we provide consultation, training, support (pre and post purchase) along with a complete ecosystem of supplies and consumables.

We can even provide qualified access to drilling contracts as part of the wider GTD Drillers Co-operative.

CONTACT US AT INFO@GTD-DRILLING.COM WWW.GTD-DRILLING.COM
ABOUT GTD & THE EMERALD DRILLING PACKAGE

GROWTH OPPORTUNITIES IN GROUND SOURCE DRILLING

ABOUT GTD & THE EMERALD DRILLING PACKAGE

GTD DESCORIG

GTD MUD GUZZLER (DRILLING FLUID RECYCLING SYSTEM)

LOOP REELER

GROUTER

TRAILER & GENERATOR

SPARES & CONSUMABLES
ABOUT GTD AND THE EMERALD DRILLING PACKAGE

Projects are getting bigger and boreholes are getting deeper, with this in mind each component you'll find in this brochure has been carefully considered, designed and developed to reduce strain on your equipment and your personnel whilst increasing productivity.

One of the most significant barriers to ground source geothermal systems is the cost of installation. Let’s be honest, it still is - but doesn’t have to be! Let GTD help you drill down your costs for ground source geothermal operations, improving profits, scalability and competitive opportunities.

Whether you are an established business wanting to expand your capabilities, capacity and productivity or looking to explore the prospect of a new start-up operation, GTD is here to help you with access to a complete ecosystem of equipment, supplies and support.

GTD are unique as we are dedicated manufacturers & suppliers of ground source geothermal drilling equipment, but also operators who have a vast experiences in UK & European ground source drilling as well as more recent operations in North America, Africa & Asia. We understand the balance required between cost and capability, to ensure that you have the right equipment ...at the right price...right now.

GTD EMERALD PACKAGE:
• GTD DESCO 6500R Geothermal Drill Rig
• GTD Mud Guzzler SC1200-2 – shaker & hydrocyclones
• 40 x 20’ (6.0m) BR50 thread drill rods
• Casing – 18 x 10’ (3.0m) & Racking
• GTD LR1 Double wheel loop reeler
• PFT Grouter
• Ifor Williams/ Big Tex Trailer
• Pramac GBW22P Generator
• Starter pack of drill bits and tooling
• Extensive spares and consumables package

WHO ARE GTD?
GTD are passionate about delivering a high-quality product. Our focus is on providing you with a complete drilling solution. We offer a comprehensive range of drilling equipment, supplies and support services. Our team is dedicated to helping you achieve your drilling goals. Whether you are a small, independent operator or a large, multinational corporation, we have the experience and expertise to meet your needs. We are committed to providing you with the best possible service and support, so you can focus on your drilling projects and maximize your profitability.

WHY BUY GTD EQUIPMENT?
GTD equipment is designed & engineered by geothermal ground source drillers and engineers specifically for the industry.

Each individual component has been specified to work together as an efficient and cost-effective drilling system, fine-tuned for optimum drilling potential - after all productivity is king.
The GTD DESCO 6500R has been designed and engineered specifically for ground source geothermal drilling & complex geology. Suitable for both domestic and commercial drilling. It can drill beyond 1300’ (400m) and can perform mud, air and hammer drilling.

The unique built-in rod rack and automated handling system performs safely and efficiently, increasing productivity whilst reducing manual handling and risk of injury. The rod rack holds 800’ (240m) rods (3 1/2" (89mm) diameter, 20’ (6m) long with heavy duty wall thickness and extra-long tool joints). The increased rod length and internal diameter vastly reduce wear and tear on the rig and ancillaries whilst increasing productivity.

It is fitted with the powerful, world-renowned Doosan DL08 engine, producing 300HP! This is one powerful rig, and is capable of supplying the mud pump and auxiliary pit pump without compromising the drilling capability.

It comes complete with a triple piston mud, air, and centrifugal mud pumps, lifting dense geology with ease using high flow and pressure.

Mud pump options available on request. Double piston, triple piston, centrifugal or a combination of both.
ADJUSTABLE TABLE HEIGHT

+6’ / -3’
(+2m / -1m)

ADJUSTABLE HEAD SLIDES

TRIPLE CLAMPS
2 FIXED & 1 ROTATING
12½’ (320MM) OPENING

HYDRAULIC LEGS TO LIFT, STABILIZE & LEVEL THE RIG

STEEL TRACKS WITH RUBBER PADS

HYDRAULIC CHAIN WRENCH & TABLE SPANNER

ROD HANDLING WITH DUAL CONTROLS

AUTOMATED ROD RACK SYSTEM

CAN BE OPERATED BY THE LEAD DRILLER, SECOND MAN OR BOTH

CAN BE USED AS A CASING EXTRACTOR (GIVING EXTRA PULL BACK)

REMOTE CONTROL
SWITCHABLE & ADJUSTABLE HIGH / LOW ROTATION & TORQUE

MAIN WINCH & SANDLINE WINCH

WELDER & GENERATOR

MADE FOR POWERING SAND GUZZLERS, GROUTERS, LOOP REELERS ETC.

EURO DRILL HEAD

AUXILIARY HYDRAULICS

CONFIGURED FOR DUAL CENTRIFUGAL MUD PUMPS

DUPLEX HIGH PRESSURE PISTON PUMP OPTIONS

MIST PUMP FOR AIR DRILLING & PRESSURE WASHER

SCAN TO WATCH A VIDEO SHOWCASING ALL THESE GTD DESCO FEATURES AND OPTIONS
DOUBLE DECK HIGH G-FORCE SHAKER
65KVA GENERATOR
ADJUSTABLE DECK ANGLE FOR EASE OF SET UP AND CONTROL

CONTROL PANEL
2 X 1.2KW VIBRATION MOTORS, ADJUSTABLE G FORCE ≥7.5G
PUMPED BACK TO RIG FOR PRIMING & BOOSTING FLOW

3 X HYDROCYCLONE DESILTERS

KEY BENEFITS
• Removes low gravity solids for greater drilling efficiency
• Reduces water, mud, transportation and disposal costs
• Increases water storage capacity
• Reduces site footprint, site remediation and environmental management costs
• Improves on-site health and safety, reducing slips and hazards due to mud and water
• Easy to transport “single unit” package

...But it is an important part of an efficient operation. It is a false economy to make do without one if you are truly committed to drilling down your costs.

A proper smooth running reeler can reduce the amount of weight required to counteract the buoyancy of the loop, saving money. Smooth consistent unreeling of the loop means the risk of damage and stoppage is reduced. Quick, controlled unreeling saves time and manpower. A loop reeler can be the make or break element of whether the install goes to depth.

The Emerald package loop reeler is built to last. Its robust design means it will put up with the everyday strains of a drill site. Reinforced fork holes on all 4 sides enable lifting from any angle and easy positioning over the borehole.

Ball bearings on the drums ensure super smooth unreeling and the solid sides ensure the loop is contained and eliminates the risk of getting limbs caught in the rotating parts or loops popping out the side and kinking.

A LOOP REELER CAN OFTEN BE OVERLOOKED...

CONTACT US AT INFO@GTD-DRILLING.COM WWW.GTD-DRILLING.COM
MAKE LIFE EASY WITH A GEOThermal GROUTer

This grouter is a continuously operating mixing pump for ready-mixed dry grout. There is no need to mix sand, bentonite and water. Simply add dry bags of grout, either 55 lbs (25kg) or 2200 lbs (1000kg) bulk bags, straight into the hopper, and the G4 does the rest!

Easy, quick and efficient. At the push of a button, ready-mixed dry grout is automatically fed into the mixing pump, minimizing dust too. It is then mixed with water and pumped down the borehole.

It’s compact, easy-to-transport and offers a high delivery rate and large delivery range. The low filling height is ideally suited for filling by hand or bulk bags hang above.

Powered electrically, it can be run off the generator included in the package.

TRaILER & GENERATOR

The Ifor William or Big Tex flat bed are ultra-strong, robust and versatile. They have been picked specifically to work in conjunction with the Mud Recycling unit.

The system, including the generator, can be transported on the trailer and remain under the weight limit permitted. Additional stabilisation legs/supports have been added to all four corners, to allow the system to be used whilst mounted on the trailer.

HAVing your own power supply on-site has huge advantages regarding self-sufficiency. This reduces the risk of delays, potentially waiting on others, and helps productivity!

The generator is designed to be mounted on the deck of the mud recycling unit, powering its systems. It also has an additional connection points for powering other on-site equipment such as sump pumps, etc.

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**GTD EMERALD PACKAGE ➔ STARTER PACK & SPARES**

We’ll get you drilling and keep you drilling.

So that downtime is kept to a minimum and productivity is at the maximum, we provide a huge spares parts package to go with the set-up.

We also supply a starter pack of tooling, which includes a large selection of drill bits, subs & saver subs.

### GTD EMERALD - TOOLING STARTER PACK

<table>
<thead>
<tr>
<th>Unit</th>
<th>Part Description</th>
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<tbody>
<tr>
<td>2</td>
<td>5 1/8&quot; - 4 Wing Stepped PDC</td>
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<tr>
<td>2</td>
<td>5 5/8&quot; - 4 Wing Stepped PDC</td>
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<tr>
<td>2</td>
<td>5 1/8&quot; - 3 Wing Rounded PDC</td>
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<tr>
<td>2</td>
<td>5 5/8&quot; - 3 Wing Rounded PDC</td>
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<td>1</td>
<td>5 1/8&quot; - Rock Roller</td>
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<tr>
<td>1</td>
<td>5 5/8&quot; - Rock Roller</td>
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<tr>
<td>1</td>
<td>Sub 3 1/2&quot; IF Box - BR50 Pin</td>
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<tr>
<td>1</td>
<td>Sub BR50 Box - 2 7/8&quot; Reg Box</td>
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<td>1</td>
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<td>1</td>
<td>Sub BR50 Box - BR50 Box</td>
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<tr>
<td>1</td>
<td>Chain Wrench Spanner</td>
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### A HUGE SELECTION OF SPARES THAT WILL ENABLE YOU TO SERVICE EQUIPMENT UP TO 3 YEARS (BASED ON RECOMMENDED 500HR SERVICES)

- Included tablet computer with full factory Doosan Licensed diagnostic program
- A huge selection of spares that will enable you to service equipment up to 3 years (based on recommended 500hr services)

**SPARES & CONSUMABLES**

Contact us at info@gtd-drilling.com | www.gtd-drilling.com

**GTD ALSOStocks An Extensive Range Of Our Exclusive Pink Penetrator Drill Bits And A Complete Ecosystem Of Consumables**
IN THE PRESS

GTD DESC0 6500R, COVER STORY OF THE GEODRILLING INTERNATIONAL MAGAZINE

READ ALL ABOUT IT IN THE FULL ARTICLE PUBLISHED IN DEC 2021 - SCAN QR CODE

WHAT SOME OF OUR GLOBAL CUSTOMERS ARE SAYING

“MEGA RIG – DOES EXACTLY WHAT IT SAYS ON THE TIN”
ACE DRILLING SERVICES (UK)

“I CAN NOW SEE WHY THIS RIG HAS BROKEN SO MANY RECORDS IN EUROPE. THE ROD HANDLER IS A DREAM!”
GC GEOTHERMAL (USA)

“GTD EQUIPMENT HAVE ENABLED US TO SET NEW STANDARDS IN PRODUCTIVITY NEVER ACHIEVABLE BEFORE!”
GEOTECH BV (HOLLAND)

“IF YOU ARE DIVERSIFYING INTO GEOTHERMAL DRILLING LIKE US, GTD REALLY ARE THE ONLY CHOICE. THEY CONTINUE TO SUPPORT US ALL THE WAY”
FUTURE DRILLING SERVICES (UK)

“THE TRACKED MUD UNIT IS AN ABSOLUTE GAME CHANGER”
AW SYNERGY (UK)

“THE 6500R MAKES LIGHT WORK OF THE CHANGING & CHALLENGING GEOLOGY ACROSS FRANCE”
SYNERGIE FORAGE (FRANCE)