



DRILLING DOWN
THE COST PER METRE



THE GTD
BROCHURE

SPRING 2022

DRILLING DOWN THE COST PER METRE

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➤ GROWTH OPPORTUNITIES IN GROUND SOURCE DRILLING

LOOKING TO IMPROVE, EXPAND OR SET UP A NEW GROUND SOURCE DRILLING OPERATION?

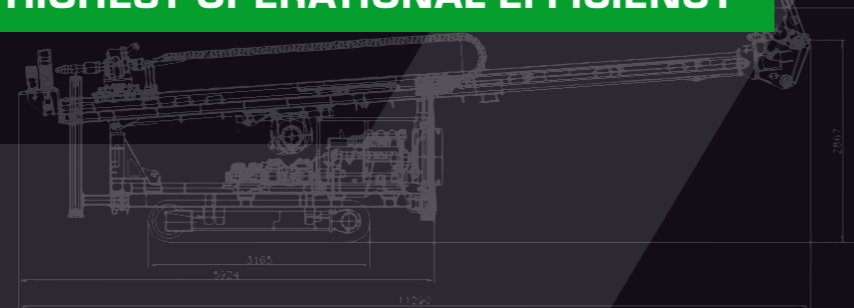
The demand for Ground Source Heating and Cooling (GSHC) drilling specialists is growing exponentially. Sources indicate that the sector is currently operating at under 1% of the potential market share.

Local and International Government Net Zero Carbon targets, combined with significant legislation changes, are creating expansion opportunities and accelerating demand way beyond the capacity of the current number of operational rigs.



GTD'S EQUIPMENT IS DESIGNED SPECIFICALLY FOR THE GROUND SOURCE DRILLING INDUSTRY ALLOWING THE HIGHEST OPERATIONAL EFFICIENCY

There is a seismic shift in the climate conscience of the public, planners and politicians. Ground Source drilling is on the right side of the argument and will continue to grow traction as the cleanest, greenest and most sustainable energy source for 'Climate Control' in every sense of the word! (Greta you can borrow that line if you fancy!)



➤ ABOUT GTD

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 systems has historically been the cost of installation. Let's be honest; it still is - but doesn't have to be! GTD can drill down the cost per metre for ground source 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.

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 a complete balanced drilling system, fine-tuned for optimum drilling potential - after all productivity is king.

GTD can help you achieve the most metres possible in every hour of the 256 working days we have in the UK.

WHO ARE GTD?

GTD are unique as we are dedicated manufacturers & suppliers of ground source drilling equipment, but also operators who have a vast experience 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 PROVIDE:

- Complete turn key drilling packages
- Training and development
- Operating procedures and operational assistance
- Access to large scale contracts
- Access to loan equipment pool (compressors etc.)
- Supervision and management support
- Service and maintenance
- National and regional advertising & promotion



GTD DRILL RIGS



➔ GTD6500R DRILL RIG

GTD6500R DRILL RIG

The GTD6500R has been designed and engineered specifically for geothermal drilling & complex geology. Suitable for both domestic and commercial drilling. It can drill beyond 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. It comes complete with 240m rods (BR50 thread, 6m long with 10mm 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 a 292 BHP! 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 triplex piston pump & dual Caprari centrifugal mud pump capable of drilling down beyond 200m, lifting heavy London clays with ease. (Optional duplex piston pump for drilling beyond 200m)



- 292 BHP (TIER 4)
- 16 TON PULL BACK
- 6 TON PUSH DOWN
- TRIPLE CLAMPS
- 40 X 6.0M RODS
- AUTOMATED ROD HANDLING
- DUAL MUD PUMP
- TRIPLEX PISTON MIST PUMP
- WIRELESS REMOTE CONTROL
- WINCH
- WIRELINE
- BREAKOUT CHAIN WRENCH
- HYDRAULIC ROD SPANNER
- SAFETY CAGE
- WELDER / 7.5KW GENERATOR

➔ GTD6500R DRILL RIG

WHY GTD DRILLING RIG?

The answer is simple... productivity!

Quite literally, our rigs drill down your cost per metre, both in purchase price and increased productivity. How? By outperforming other manufactures currently used in the ground source industry. A bold statement, but one that is backed up by fact and experience*.

These rigs hold the record for the most metres drilled, in the UK and Europe, both on a single day and over the course of a year. The long rod length, automated handling system and powerful engine means they are fast and capable. It is purposefully designed to simplify its operation, maintenance and fixes. The net result is less downtime and higher productivity.

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

CALL NOW +44 (0) 1580 388792



DIMENSIONS & WEIGHT	
Length-transport	12.5M
Width	2.5M
Height-transport	3.1M
Weight	18.5 ton
ENGINE	
Model	Doosan DL08 - Tier4
Rated power	292HP
Fuel capacity	300L
DRILL HEAD & ROTATION	
Rotary head with side shift	
Swivel & Shock Absorber (Φ60mm)	
Two motors - Series and Parallel Flow	
High speed low torque	1 ST : 0~180rpm
Low speed high torque	2 ND : 0~90rpm
FEED SYSTEM	
Head travel	7.5M
Pull-up capacity	16 ton
Pull-down capacity	6 ton

WORKING TABLE & HYDRAULIC CLAMP	
Triple Clamps - one roating	
Max. diameter	320mm
Hydraulic rod spanner	89mm
Hydraulic breakout chain wrench	
DRILL PIPE & CASING	
Drill pipe length	Φ89mm X 6.0M
Max. diameter	304mm
HYDRAULIC JACKS & OUTRIGGERS	
Ground clearance	600mm
Width	3000mm
Load pads	
CRAWLER BASE	
Crawler model	Doosan Solar 75
Crawler type	Steel with rubber pads
Crawler speed	2.5 km/h
AUTOMATED ROD RACK & HANDLING SYSTEM	
89mm x 6.0m x 40 (BR50 thread, 250mm tool joints) 240m capacity	
ANCILLARIES	
Winch	20M / 5 ton (12mm)
Wireline	300m x 6mm

➔ GTD5500R DRILL RIG

GTD5500R DRILL RIG

The GTD5500R is our compact model and capable of both domestic and commercial drilling. It can drill beyond 200m in all conditions with ease and can perform both mud or air drilling.

This model also features our unique rod rack and automated handling system which performs safely and efficiently, increasing productivity whilst reducing manual handling and risk of injury. It comes complete with 180m rods (BR50 thread, 4.5m long with 10mm wall thickness and extra-long tool joints).

It is fitted with the powerful, world-renowned Doosan DL06 engine, producing a 192 BHP which is capable of supplying the mud pump and auxiliary pit pump.

It comes complete with a Triplex piston mist pump & twin stage centrifugal mud pump capable of drilling down beyond 200m, lifting heavy London clays with ease.

- 192 BHP (TIER 4)
- 11 TON PULL UP
- 6 TON PULL DOWN
- DOUBLE CLAMPS
- 40 X 4.5M RODS
- AUTOMATED ROD HANDLING
- CENTRIFUGAL MUD PUMP
- TRIPLEX PISTON MIST PUMP
- WIRELESS REMOTE CONTROL
- WINCH
- BREAKOUT CHAIN WRENCH
- SAFETY CAGE



DIMENSIONS & WEIGHT	
Length-transport	9.2M
Width	2.3M
Height-transport	2.6M
Weight	14.5 ton
ENGINE	
Model	Doosan DL06 - Tier4
Rated power	192HP (141.2kW)
Fuel capacity	300L
DRILL HEAD & ROTATION	
Rotary head with side shift <i>(For ease of handling & alignment of rods/casings)</i>	
Swivel & Shock Absorber Φ60mm	
Two motors - Series and Parallel Flow	
Bullshaft	3-1/2 API IF
Max. RPM	1 st : 0-200 2 nd : 0-100
Max. Torque	1 st : 350kg.M 2 nd : 700kg.M
FEED SYSTEM	
Head travel	5.5M
Pull-up capacity	11 ton
Pull-down capacity	6 ton

WORKING TABLE & HYDRAULIC CLAMP	
Double Clamps - one rotating	
Max. diameter	304mm
DRILL PIPE & CASING	
Drill pipe length	Φ89mm X 4.5M
Max. diameter	304mm
HYDRAULIC OUTRIGGERS	
4 x Hydraulic Jacks & Outriggers	
Ground clearance	1450mm
Width	3000mm
WINCH	
Winch	20M / 5 ton (12mm)
CRAWLER BASE	
Crawler model	Doosan Solar 55
Crawler type	Steel type with rubber pads
Crawler speed	2.5 km/h
ROD RACK & FEEDER	
Integrated Rod Rack Handling & Feeder System	89mm x 4.5m x 40 BR50 thread rods

GTD MUD CLEANING & RECYCLING SYSTEMS



➤ GTD MUD CLEANING & RECYCLING SYSTEMS

GTD DESIGN AND MANUFACTURE A COMPLETE RANGE OF MUD RECYCLING EQUIPMENT, FROM SIMPLE SHAKER UNITS TO FULL OIL & GAS FIELD SYSTEMS.

- Skid, trailer, track or vehicle mounted
- Self powered, electric or hydraulic
- Off the shelf items or completely custom to your needs
- Complete after sale service, including on site training



WE LOVE TALKING DIRTY, ISN'T IT TIME WE HAD A CONVERSATION ABOUT HOW MUD RECYCLING UNITS WILL DRILL DOWN YOUR COST PER METRE!



➤ MUD RECYCLING SYSTEMS EXPLAINED: 3 MAIN STAGES



1. SHAKER

Removes the largest material and majority of the solids from the drilling fluids. The bigger the shaker screen area the larger volumes of flow it can handle.



2. HYDROCYCLONE

The size of the cone diameter defines the separation point. The smaller the cone the finer it can separate. Typically they are divided into Desander and Desilter. Usually a cone diameter of more than 6" is called Desander, we use 8" and 10" cone desanders to separate solid-phase particle size 47-76µm. With smaller 4" 'Desilter' cones separating down to 20 -25µm.



3. CENTRIFUGE

For barite recovery and fine / ultra fine solids separation. Essential when drilling through clays where the constant circulation of fluids breaks down the solids into fine / ultra fine material.

➔ GTD MUD CLEANING & RECYCLING SYSTEMS

HOW TO SPEC YOUR MUD RECYCLING SYSTEM:

1. CAPACITY

This is probably the most important factor when choosing/specifying a system. Let us know how much fluid you are pumping down the hole and we can match a system to your needs.

2. FUNCTIONALITY

There are so many different options, and each user has their own specific requirements. We offer bespoke equipment tailored to your exacting needs. From lightweight trailer mountable units, remote control tracked units, containerised and vehicle mounted systems.

3. DIMENSIONS

Often the biggest constraint when picking a system is size and weight. We pride ourselves on finding solutions to best match your needs with efficient, purposeful design and engineering.



OUR CLEAN, GREEN, TRACKED MUD CLEANING MACHINE



SKID? ... TRAILER? ... TRACKED? ... OR A BESPOKE SYSTEM?
OFTEN THE BIGGEST CONSIDERATION WHEN SPECIFYING A SYSTEM IS SIZE AND WEIGHT...



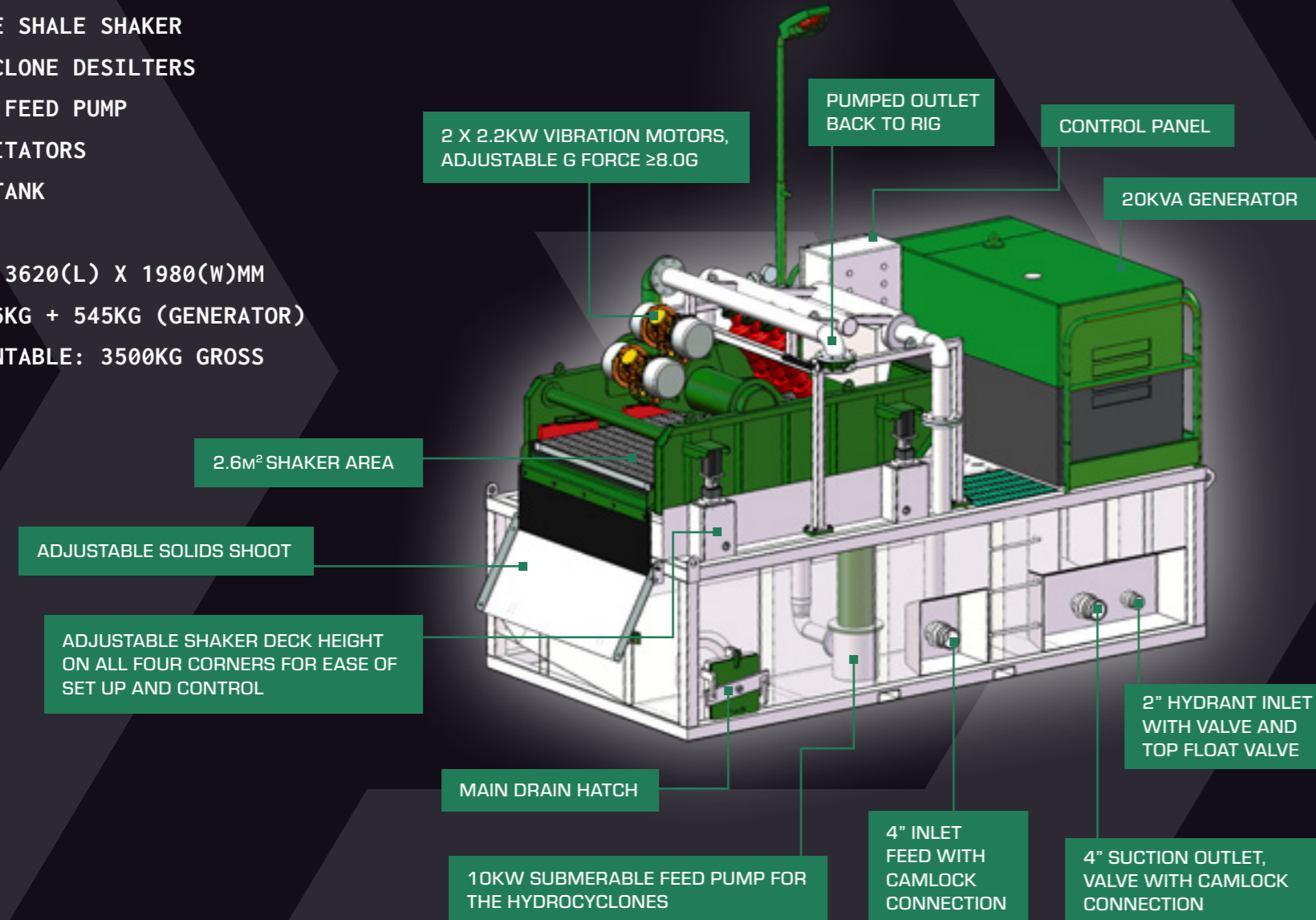
...WE PRIDE OURSELVES ON DELIVERING SOLUTIONS



➤ EXAMPLE MUD CLEANING & RECYCLING SYSTEMS:

GTD SC2300 - TRAILER MOUNTABLE MUD RECYCLING UNIT

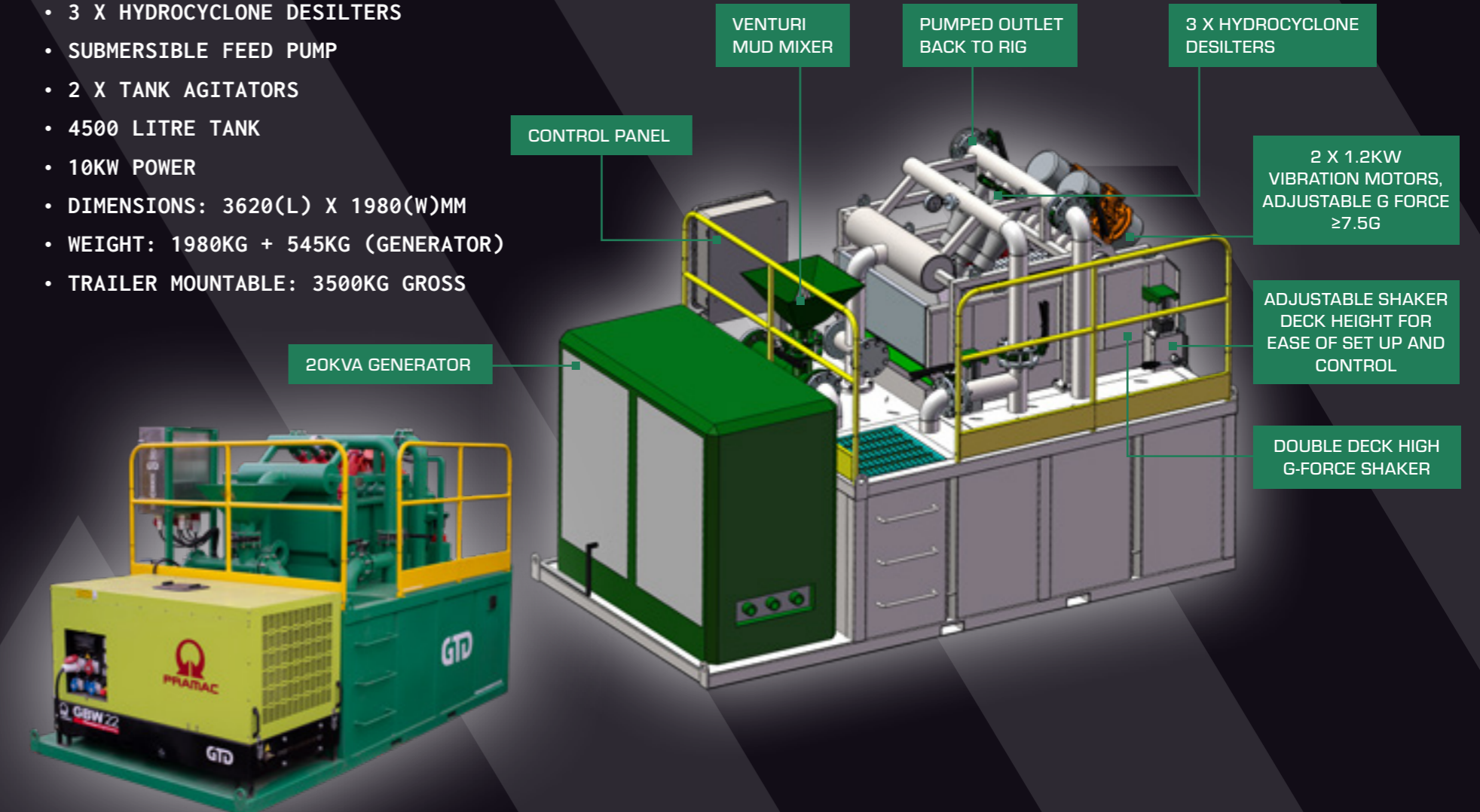
- 2300 LPM CAPACITY
- HIGH G FORCE SHALE SHAKER
- 3 X HYDROCYCLONE DESILTERS
- SUBMERSIBLE FEED PUMP
- 2 X TANK AGITATORS
- 6000 LITRE TANK
- <20KW POWER
- DIMENSIONS: 3620(L) X 1980(W)MM
- WEIGHT: 2136KG + 545KG (GENERATOR)
- TRAILER MOUNTABLE: 3500KG GROSS



➤ EXAMPLE MUD CLEANING & RECYCLING SYSTEMS:

GTD SC1200 - TRAILER MOUNTABLE MUD RECYCLING UNIT

- 1200 LPM CAPACITY
- HIGH G FORCE DOUBLE DECK SHALE SHAKER
- 3 X HYDROCYCLONE DESILTERS
- SUBMERSIBLE FEED PUMP
- 2 X TANK AGITATORS
- 4500 LITRE TANK
- 10KW POWER
- DIMENSIONS: 3620(L) X 1980(W)MM
- WEIGHT: 1980KG + 545KG (GENERATOR)
- TRAILER MOUNTABLE: 3500KG GROSS



➔ EXAMPLE MUD CLEANING & RECYCLING SYSTEMS:

GTD SC1200C - TRACK MOUNTED MUD RECYCLING UNIT

GTD's tracked, drilling mud recycling units are a three-stage separating system that comprises of a high G-force double deck shaker, three hydrocyclone desilters and a decanter centrifuge.

The equipment is combined on a 5.73m³ (1260gal) tank with sloped floor and internal tank mixers. Two submersible pumps feed both the hydrocyclones and centrifuge.

The system is mounted on top of a 25-ton crawler with steel tracks and rubber pads. Hydraulic legs are fitted to all four corners for levelling and lifting. The unit is powered by a 100kVA diesel engine generator.

The electric powered hydraulic tracks can be utilised as a hydraulic power pack when not being used for tracking, providing auxiliary hydraulics for ancillary equipment such as pit pumps.

The maximum capacity of the unit is approximately 1200lpm. This capacity is dependent on the screens mesh size and solid content of your fluids. The separation point is down to 2 -5 micron.

DIMENSIONS & WEIGHT	
Length-transport	4.1M
Width	2.4M
Height-transport	3.2M
Weight	12,500 KG

SHAKER	
Capacity	70m ³ /h (308gpm)
Upper screen area	0.68m ²
Lower screen area	1.35m ²
Motors	2 x 1.2kw
G - Force	7.5 G

HYDROCYCLONES	
Triple 4" Desilter Hydrocyclones	
Capacity	70m ³ /h (308gpm)
Separation point	15-45um

DECANTER CENTRIFUGE	
Bowl length	930mm
Bowl diameter	250mm
Capacity	≤5m ³ /h (22gpm)
Max bowl speed	4500rpm
Main Motor	11kw
Helper Motor	4kw

HYDRAULIC POWER PACK	
Electric motor	35kw
Operating pressure	250 bar
Operating flow	53lpm (14gpm)

SUBMERSIBLE MIXERS	
Power	0.75kw
Quantity	2 Mixers
Capacity	3.2m ³ /min

CRAWLER BASE	
Track width	450mm
Crawler type	Steel / rubber pads
Crawler speed	2.5kph

SUBMERSIBLE PUMP	
Capacity	100m ³ /h (440gpm)
Lift	28m
Motor	15kw

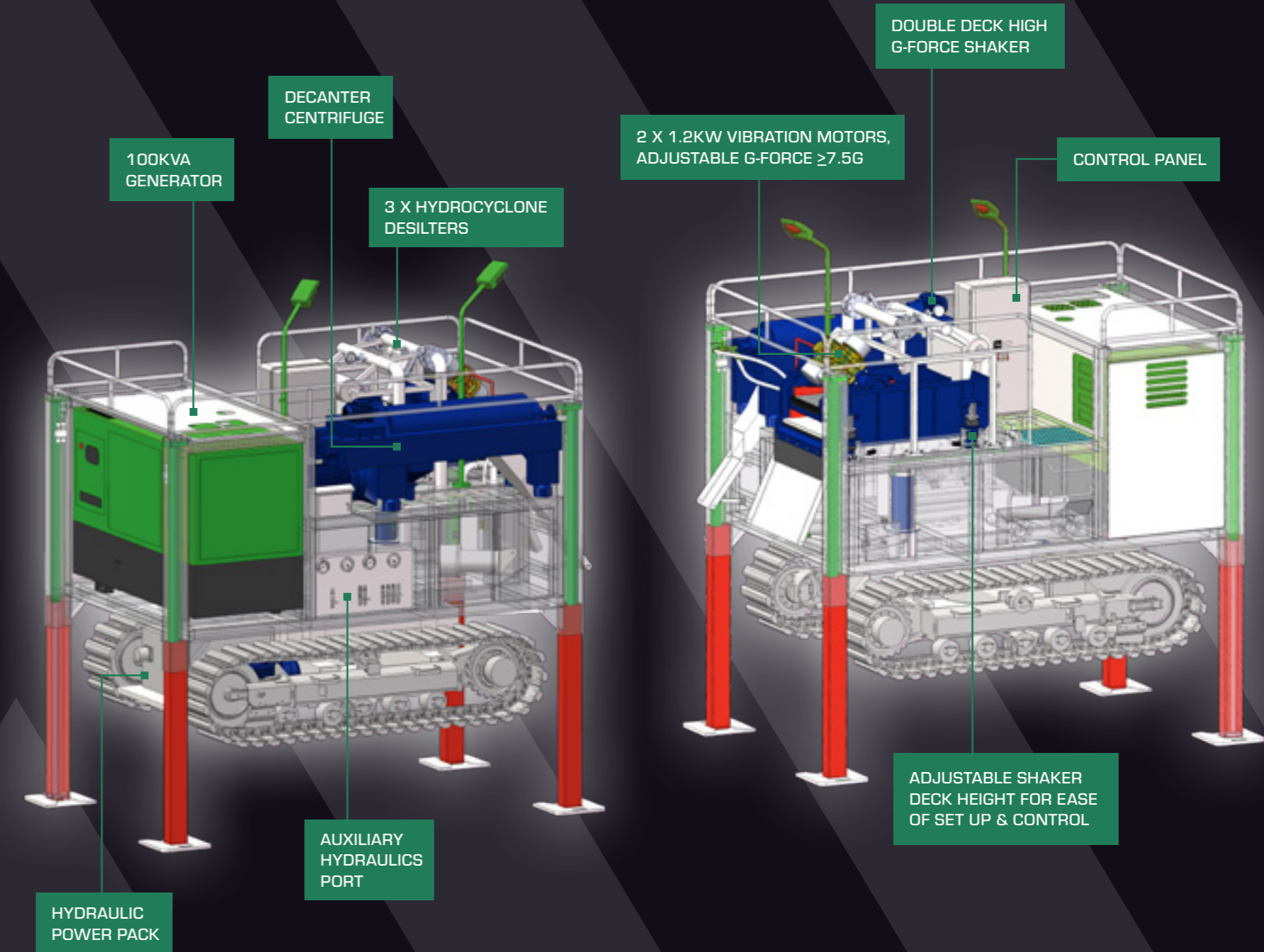
HYDRAULIC OUTRIGGERS	
4 x Hydraulic Stabilizers	
Ground clearance	1000mm
Width	2.4m

MUD TANK	
Dimensions	3m x 2.4 x 1m
Capacity	5730m ³ / 1260 gal

CONTROL PANEL	
Stainless steel with VFD's and soft starts	
Remote control	

GENERATOR	
Model	Pramac Perkins
Rated power	100kVA
Fuel capacity	209 ltr

ISN'T IT TIME YOU GOT YOUR MUD RECYCLING UNIT ON TRACK?



➔ EXAMPLE MUD CLEANING & RECYCLING SYSTEMS:

GTD SC100C - SKID MOUNTED DECANter CENTRIFUGE

The GTD-SC100C Decanter Centrifuge is designed and purpose-built for the removal of low gravity or small particle size solids in all solids control applications.

Unit effective capacity 6m³/h.v



MUD CLEANING EQUIPMENT CAN TRANSFORM YOUR DRILLING OPERATION

HOW DOES IT WORK?

Drill fluid is pumped to the Decanter Centrifuge tank from either the drill collar or upstream solids control equipment, such as the GTD-SC1200.

The fluid is then drawn up from the tank by the Progressing Cavity Pump or submersible, then fed into the high-speed centrifuge, which removes solids down to 2-5 microns before returning the cleaned drill fluid to the drilling process.

In tank submersible mixers keep the fluids circulating and solids in suspension.

TOTAL UNIT	
Length	3,340mm (10.93ft)
Width	1,370mm (4.49ft)
Height	1,945mm (6.3ft)
Tank Volume	3m ³
Unit Capacity	26 Gpm / 100 Lpm
Total Power	21kw

CENTRIFUGE - VFD	
Bowl Length	670mm (26")
Bowl Diameter	220mm (9")

FEED PUMP	
Model	NETZSCH / Seepex
Motor	3kw
Flow	6m ³ / h

FEED PUMP	
Model	NETZSCH / Seepex
Motor	3kw
Flow	6m ³ / h

SUBMERSIBLE TANK MIXERS	
Capacity	2 x 3.2 m ³ / min

KEY BENEFITS - GTD-SC150C

- Removes low gravity solids for greater drilling efficiency
- Reduces water, mud, transportation and mud disposal costs
- Eliminates the cost of digging sumps
- Reduces site footprint, site remediation and environmental management costs
- Reduces wear and tear on drill components
- Improves on-site health and safety, reducing slips and hazards due to mess, mud and water
- Easily used in combination with other GTD equipment to provide enhanced mud recycling and cleaning



SEPERATES DOWN TO 2-5 MICRONS WITH A DECANter CENTRIFUGE



IMPROVING EFFICIENCY & PRODUCTIVITY

The unit's high speed decanting centrifuge is specifically adapted for drilling operations, generating huge G-forces, to remove solids down to 2-5 microns keeping drilling fluids in excellent condition.

This unit can be used independently or in combination with other solids control equipment. The GTD-SC100C can provide cleaning of the drilling fluids directly from the collar with process rates up to 100L/min.

In higher flow rate applications, the unit can provide additional low particle size removal as part of a bypass loop when paired with other equipment.

➤ EXAMPLE MUD CLEANING & RECYCLING SYSTEMS:

DECANTER CENTRIFUGE

GTD have a full range of Decanter Centrifuges, with bowl diameter from 250mm up to 600mm, with processing capacity ranging from 5m³/h to 100m³/h.

For the geothermal drilling application our smallest centrifuge, with a 250mm bowl and ≤5m³/h capacity, is adequate for processing one rigs drilling fluids.

They are used in conjunction with the shaker and cones and reduce the build up of 'fines' in the fluid, capable of removing solids down to 2 - 5µm. Although not essential all the time, in some conditions it's almost impossible to live without them.

- Removes low gravity solids for greater drilling efficiency
- Reduces water, mud, transportation and mud disposal costs
- Eliminates the cost of digging sumps
- Reduces site footprint, site remediation and environmental management costs
- Reduces wear and tear on drill components
- Improves on-site health and safety, reducing slips and hazards due to mess, mud and water
- Easily used in combination with other GTD equipment to provide enhanced mud recycling and cleaning



Our largest centrifuge features a 600mm bowl diameter and ≤100m³/h capacity.

This unit was used as part of an aggregate wash plant in the UK. Complete with dosing unit, liquid tank and solids removal auger.

➤ SOLIDS CONTROL EQUIPMENT

GTD DON'T JUST SUPPLY THE GEOTHERMAL DRILLING INDUSTRY...

WE ALSO SUPPLY THE FOLLOWING:
CORE DRILLING, HDD, TUNNELLING, AGGREGATE, O&G, FOOD & DRINK, RECYCLING AND MANY MORE.



SOME OF OUR CLIENTS INCLUDE:



GTD TOOLING

- DRILL BITS
- RODS
- CASING



➔ OUR DRILL BITS

NON CORE PDC

PDC bits in various body designs and sizes to cater for soft and medium formations

- All size available - All types available - All threads available
- 42CrMo4 body material - offers high tensile properties with shock resistant properties, combined with good wear resistance.
- JET flush or WIDE flush options - jet is required for clays and wide flush is great for sands.
- FLAT or CURVED face PDC cutters - flat for speed and soft formations, curved for impact resistance and harder formations

OUR BEST SELLERS:



STEPPED



ROUNDED



JUNK SLOT



PINK DRILL BITS PENETRATOR



➔ OUR DRILL BITS

ROCK ROLLERS

Open bearing Tungston Carbide Inserts (TCI)
Tricone/Rollers

GTD stock and supplies VALCO ROCK BITS - these are by far the best rock rollers for geothermal ground source drilling. Large button that drill quickly and last. Featuring short, strong bodies and large, high quality bearings.



WE ARE NOT JUST
HERE TO SELL BITS,
WE ARE HERE
IF YOU NEED
US TO HELP
ADVISE ON THE
MOST EFFICIENT
DRILL BIT FOR
YOUR OPERATION
TO INCREASE
YOUR R.O.P AND
REDUCE COST



RODS

As standard our rigs come with 89mm diameter rods with BR50 thread.

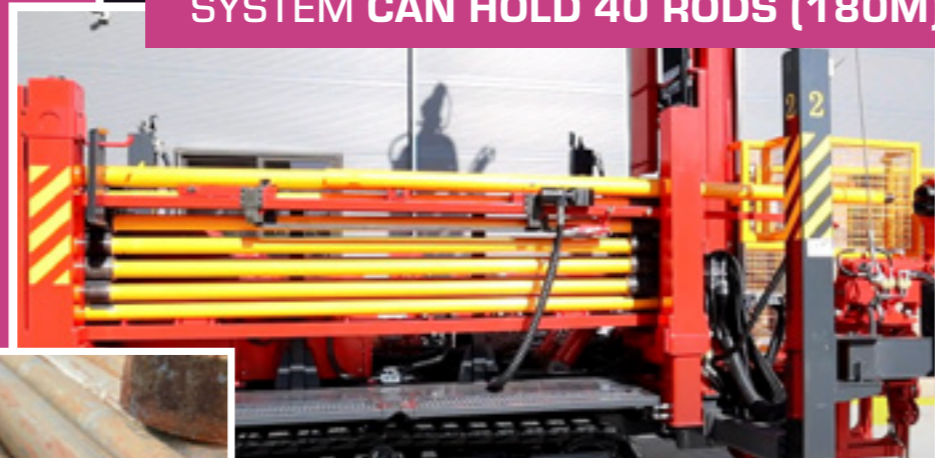
This thread has been selected as it offers one of the best combinations of strength and increased internal diameter on a 89mm rod.

Features:

- Extra long tool joints for added strength
- 10mm thick for extra strength and longevity
- 4 x Spanner flats



OUR GTD5500R RIG COMES WITH 4.5M RODS AND ITS AUTOMATED ROD HANDLING SYSTEM CAN HOLD 40 RODS (180M).



OUR GTD6500R RIG COMES WITH 6M RODS AND ITS AUTOMATED ROD HANDLING SYSTEM CAN HOLD 40 RODS (240M).

CASING

Due to complexity in geology casing of holes is inevitable. GTD supply temporary rope thread casing in varying lengths and diameters.

We recommend using 152mm diameter and matching the casing length to that of your rods/rig. i.e. 4.5m lengths for the GTD5500R and 6m lengths for the GTD6500R.

Features:

- Single start rope thread
- 10mm wall thickness

Using the main winch on the rigs, the casing is hoisted onto the drive head using a bespoke casing slink. This is safe, quick and eliminates manual handling.

With a GTD rig its possible (if the conditions allow) to drill & case to 120m and then drill on to 200m, install a loop, grout, remove the temporary casing and move and set up, all in one day.



GTD PUMPS

- AIR COMPRESSORS
- PISTON PUMPS
- CENTRIFUGAL PUMPS
- HYDRAULIC POWER PACK



➔ AIR COMPRESSORS

GTD AIR COMPRESSORS ARE AVAILABLE EITHER SKID OR TRAILER MOUNTED

Our mobile diesel air compressors are equipped with high efficiency Cummins engines.

Our air compressors always meet the harsh environments of the drilling industry. Suitable for geothermal air drilling as well as water well drilling, oil & gas exploration, mining & DTH drilling etc.

To alleviate the cost of outlay, GTD has a growing fleet of rental equipment that is there for when you need it.

For drilling support, sales and equipment rentals call us now on +44 (0) 1580 388792



GTD 605F-17P

CE, SGS ISO9001/ISO 14001, Noise Certificate

OUR AIR COMPRESSORS & PISTON PUMPS ARE AVAILABLE TO RENT OR PURCHASE



GTD 850F-24P

MODEL	850F-24P (SKID-MOUNTED OPTIONAL)	605F/17P (SKID-MOUNTED OPTIONAL)
Compressor Stage	Two Stage	Two Stage
Free Air Delivery (CFM/ M3/min)	850/950CFM (24/27m3/min)	605/550CFM (17/15.5m3/min)
Working Pressure (psig/bar)	348/246.5Psi (24/17Bar)	290/246.5Psi (20/17Bar)
Screw Oil Volume-(L)	90	50
Diesel Engine	CUMMINS	CUMMINS
Rated Power (HP/KW)	360HP/264KW	210/154
Rated Speed/Idle (rpm)	2000 (1800)/1350	2200/1350
Cylinders	6	6
Fuel Tank Capacity (L)	600	180
Connector Size	4" & 2"	4" & 2"
Wheel Size*Qty	215/75R16	7.00-16
Weight (Kgs)	4500	2500
Dimension (mm)	4370*1860*2450	4250*2100*2150
Noise {dB(A)}	80±5	76±3

➔ PISTON PUMPS

The GTD Mud Pumps are horizontal reciprocating single-acting triplex piston pump (try saying that five times!), driven by a Cummins diesel engine.

Capable of adjustable flow rates and pressures from the same pump making them adaptable for all types of applications. High wear resistance as all pumps have ceramic liners.

Flows ranging from 100 - 2800 (L/min)

MODEL	FLOW (L/MIN)
GTD MP2800PP	2800
GTD MP2200PP	2200
GTD MP1500PP	1500
GTD MP1000PP	1000
GTD MP800PP	800
GTD MP600PP	600
GTD MP450PP	450
GTD MP400PP	400
GTD MP320PP	320
GTD MP100PP	100

LET'S TALK SHOP TO ESTABLISH WHAT'S BEST SUITED FOR YOUR DRILLING OPERATION & BUDGET

GTD MP1000PP



MODEL	GTD MP1000PP			
Stroke	140			
Cylinder diameter(mm)	115			
Gear shift	1	2	3	4
Pump speed(r/min)	230	150	118	77
Flow(L/min)	1000	650	515	335
Pressure (Bar)	40	60	75	100
Rated power (KW)	80			
Max. Water suction height (m)	2.5			
Inlet port	5" barb			
Outlet port	M64x2			
Outline size(mm)	3515*1704*1925			
Weight (kg)	3140			
Diesel engine	Cummins			
Torque (Nm)	611			
Diesel engine max. Power (Kw)	96			
Rotary speed(r/min)	1500			
Control method	Wireless remote control			

➤ CENTRIFUGAL PUMPS

GTD STOCK CAPRARI AND NOV MISSION MAGNUM PUMPS, HYDRAULIC MOTORS AND CONNECTIONS.

Our rigs come as standard with either Caprari or Misson Magnum pumps.

For 95% of drilling operations/conditions a centrifugal pump is the pump to have. High performance, value for money and easy to replace with limited down time.

Capable of up to 15bar at dead end and a real life flow of 600/800 (L/min) of drilling fluids.

GTD drill 5 5/8" holes beyond 200m with these pumps, day in day out.



CLEAR WATER PERFORMANCE CHARTS AVAILABLE ON REQUEST



➤ HYDRAULIC POWER PACK

GTD HAVE A FULL RANGE OF HYDRAULIC POWER PACKS

- 200lpm - 1200lpm
- 280 bar
- 74hp - 490hp
- Track, skid or trailer mounted

GTD PP3500	
DIMENSIONS & WEIGHT	
Weight	1800kg
Width	1.4m
Length	2.5m
Height	1.5m
ENGINE	
Model	Doosan D24 - Teir 4
Power	74hp
Fuel capacity	150 Liters
HYDRAULIC SYSTEM	
General	2 pumps, open loop
Tank capacity	100 Liters
Operating pressure	280 Bar
Control valves	2 x 90lpm/250bar
HYDRAULIC PORTS	
1"	1 port
3/4"	2 ports



GTD PP4500	
DIMENSIONS & WEIGHT	
Weight	2100KG
Width	1.4m
Length	2.5m
Height	1.5m
ENGINE	
Model	Doosan D34 - Teir 4
Power	110hp
Fuel capacity	150 Liters
HYDRAULIC SYSTEM	
General	2 pumps, open loop
Tank capacity	100 Liters
Operating pressure	280 Bar
Control valves	2 x 120lpm/250bar
HYDRAULIC PORTS	
1"	1 port
3/4"	2 ports



DRILLING PACKAGES



EMERALD DRILLING PACKAGE

GTD EMERALD DRILLING PACKAGE:

- GTD6500R Geothermal Drill Rig
- GTD M2300 Mud Recycling system - shaker & hydrocyclones
- 40 x 6.0m BR50 thread drill rods
- GTD LR1 Double wheel loop reeler
- PFT Grouter
- Ifor Williams trailer
- Pramac GBW22P Generator
- Starter pack of drill bits and tooling
- Extensive spares and consumables package

TO DISCUSS PACKAGE DETAILS
CALL +44 (0) 1580 388792



SCAN QR CODE
FOR MORE INFO ON
THE GTD EMERALD
DRILLING PACKAGE



OPAL DRILLING PACKAGE

GTD OPAL DRILLING PACKAGE:

- GTD5500R Geothermal Drill Rig
- GTD M1200 Mud Recycling system - shaker & hydrocyclones
- 36 x 4.5m BR50 thread drill rods
- GTD LR1 Double wheel loop reeler
- PFT Grouter
- Ifor Williams trailer
- Pramac GBW22P Generator
- Starter pack of drill bits and tooling
- Extensive spares and consumables package

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SCAN QR CODE
FOR MORE INFO
ON THE GTD OPAL
DRILLING PACKAGE



LOOP REELER AND WEIGHTS



➔ PROBE REELER

GTD PRODUCE
A RANGE OF
**QUALITY LOOP
REELER'S**
FROM FREE
SPINNING
SINGLES
THROUGH
TO FULLY
**HYDRAULIC
DOUBLES**



➔ WEIGHTS

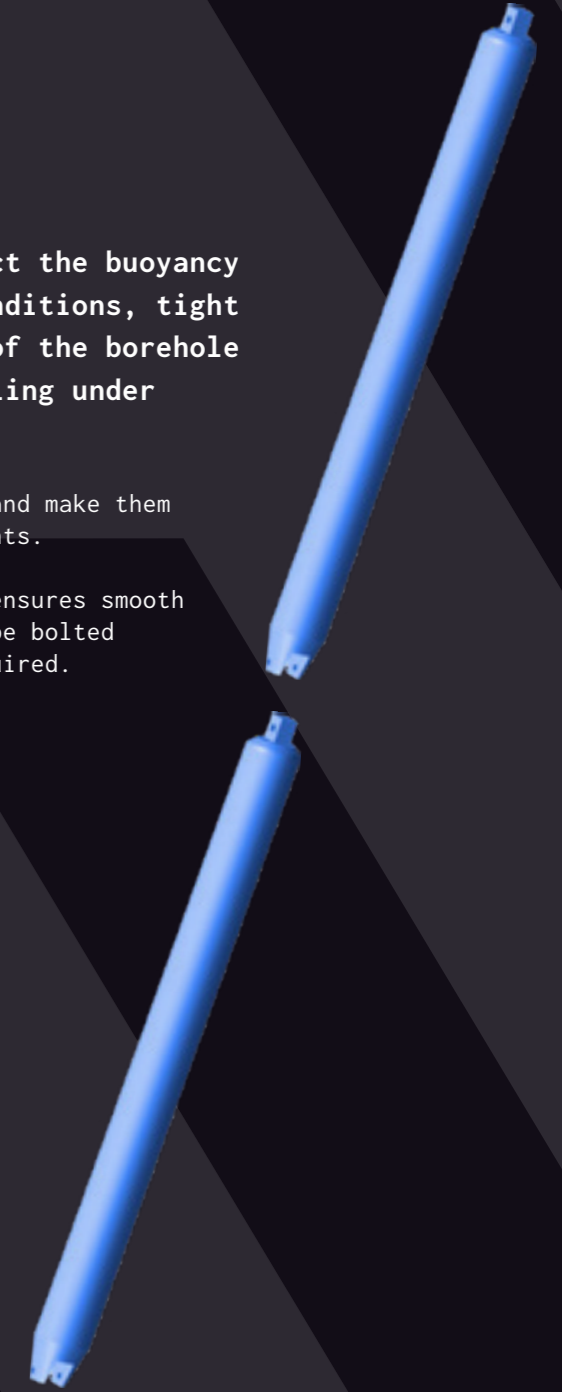
GTD WEIGHTS
ARE **DESIGNED
& PRODUCED
IN-HOUSE**

THIS MEANS WE CAN
DELIVER FROM STOCK
BUT ALSO PRODUCE
**BESPOKE PROJECT
SPECIFIC WEIGHTS
ON-DEMAND**

Weight is required to counter act the buoyancy of the loop material. Ground conditions, tight boreholes diameters, viscosity of the borehole fluid, all add to loops not falling under their own weight.

GTD produce its own weights in-house and make them specifically to your weight requirements.

Their slim design with a conical end ensures smooth and easy installation. They can also be bolted together for additional weight if required.



GROUT & GROUTERS



➔ GROUT

SPECIALLY DEVELOPED FOR BACK FILLING BOREHOLES FOR BOTH HEATING AND COOLING ENERGY SYSTEMS

ThermoGrout™ is used widely across Europe and is manufactured for reliable, flexible and consistent thermal conductivity and ease of injection.

Its unique formulation allows higher yields whilst achieving consistent high thermal conductivity. It exceeds the high and exacting standard required for geothermal conductivity, whilst also ensuring separation and low permeability between the geological layers.

THERMOGROUT IS CERTIFIED BY KIWA COMPLYING TO THE BRL 5078 STANDARD



AVAILABLE IN 1000KG BULK BAGS OR 25KG BAGS

- Maximum performance, with a conductivity of your choice
- No addition of chemical components, therefore environmentally friendly
- Thermal Conductivity up to 1.8 W/m.K
- Low Permeability
- Easy to pump

➔ GROUTERS

SIMPLIFY YOUR GROUTING OPERATION WITH A READY MIXED DRY GROUT AND A CONTINUOUSLY OPERATING MIXING PUMP

- Fill using bulk bags (1000kg) and eliminate manual handling. (25kg bags also available)
- Consistent, continuous mixes with high conductivity
- Simply set the water flow to match the desired conductivity



Length: 1050mm
Width: 720mm
Height: 1550mm
Weight: 259kg

TALK TO US

+44 (0) 1580 388792

BECAUSE BROCHURES MAKE TERRIBLE LISTENERS!

GTD GROUP

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