GTD desco

NORTH AMERICA'S #1 CHOICE IN GEOTHERMAL DRILL RIGS



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ABOUT GTD

At GTD desco, we specialize in manufacturing advanced geothermal drilling rigs engineered for productivity, capability, and adaptability. Our GT Series rigs are developed to meet the real-world challenges of geothermal drilling across North America, offering high-speed rotary performance, robust torque delivery, and fast transitions between drilling methods. Built with our industry-leading rod handling system—the benchmark for operational safety and efficiency—these rigs set a new standard in geothermal drilling.

Unlike suppliers offering one-size-fits-all solutions, or adapting and rebranding non-geothermal rigs to try and bridge the gaps, **GTD provides a scalable, standardized platform** that enables fleet growth, simplifies operator training, and improves uptime and safety across operations.

In addition to the rigs, **GTD isn't just a drill rig manufacturer.** We understand that successful geothermal drilling isn't just about the rig itself — it's about the complete package. The support equipment surrounding the rig is equally critical to performance, safety, and efficiency. That's why GTD has developed and partnered with trusted manufacturers to supply fully integrated solutions — from solids control systems to mud pumps, casing handling, and data infrastructure. With decades of hands-on experience, we help you avoid trial and error by recommending systems that are proven to work together in the field.

GTD is the **largest supplier of geothermal drilling rigs in North America,** trusted by over 20 active clients, all of whom have placed repeat orders or currently have rigs in production. This consistent trust is a direct reflection of our equipment's reliability and our commitment to post-sale service.

We maintain **multiple North American service hubs and parts stores.** We welcome the opportunity to support your geothermal projects with high-performance rigs and equipment, responsive service, and scalable solutions tailored to your future growth.





DIGGING DEEP FOR YOUR SUCCESS — WE'RE HERE TO POWER YOUR GEOTHERMAL FUTURE.




desco
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X-SERIES
EURO DRILL




desco
GTD desco

WHY GTD?

WOULD THE OWNERS OF ANY OTHER MANUFACTURER SHOW UP ON SITE AND DRILL WITH YOU?

WE DO. REGULARLY.

At GTD, your success drives everything we do. **If you're not productive, we're not successful.** That's why we don't just sell rigs — we partner with you to optimize performance, maximize efficiency, and ensure you have the right equipment for the job.

We're **invested in your investment**. This industry is too specialized for a sell-it-and-forget-it approach. When you work with GTD, you deal directly with the people who design, build, and drill. We're not just manufacturers — **WE ARE DRILLERS.**



We live and breathe geothermal, with **boots on the ground** across North America, Europe, Asia, and Australasia. Our rigs are shaped by real-world experience — not theory. **WE GO TO SITE. WE DRILL. WE LISTEN. WE EVOLVE.**

Our finger is on the pulse. When you partner with GTD, you're not just buying a machine — you're becoming **part of the team** that's shaping the future of geothermal drilling

We've seen where our rigs and others fall short — in design, performance, and long-term productivity. That's why every recommendation we make is grounded in one goal: helping you succeed. We take the time to understand your needs, assess the job, and **offer honest, experience-based advice** — even if it means telling you what you don't want to hear.



THAT'S NOT ARROGANCE; IT'S RESPECT.

We've learned what works by doing the work. From varied geologies to tough sites, our crews and rigs have built up practical know-how—and we pass that on so your projects run smoother.

TRUST US TO ACT IN YOUR BEST INTEREST. BECAUSE YOUR SUCCESS IS HOW WE MEASURE OURS.

AIR, MUD & HAMMER DRILLING: WHY YOU NEED ALL THREE

HAMMER DRILLING IS FAST AND EFFICIENT IN HARD ROCK, USING LESS RIG POWER BY RELYING ON THE COMPRESSOR AND HAMMER. BUT FEW FORMATIONS SUIT HAMMER-ONLY WORK, MAKING IT RISKY TO BASE YOUR ENTIRE BUSINESS ON IT. THE SAME APPLIES TO SONIC DRILLING - IT'S GREAT, WHEN IT WORKS.



MUD DRILLING LETS YOU TACKLE SOFT, UNSTABLE, OR WET FORMATIONS WHERE AIR WON'T WORK—BUT IT NEEDS SERIOUS HORSEPOWER. A TYPICAL 4X3X13 CENTRIFUGAL OR PISTON MUD PUMP CAN REQUIRE 100–150 HP JUST TO OPERATE EFFECTIVELY, AND WITHOUT A PROPERLY SPEC'D PUMP AND RIG SUPPORT, MUD DRILLING SLOWS DOWN OR FAILS.



RELYING ON A RIG AND TEAM BUILT FOR ONLY ONE METHOD LIMITS YOUR RANGE AND ROI. TOP CONTRACTORS KNOW RIG SELECTION ISN'T ABOUT PERFECTION—IT'S ABOUT MINIMIZING COMPROMISE ACROSS THE WIDEST RANGE OF CONDITIONS.



GTD RIGS ARE BUILT AND EQUIPPED TO HANDLE ANY TASK — ADAPTABILITY IS PART OF THE DESIGN.

GEOTHERMAL DRILL RIGS

GT35

35,000 LBS
PULL - BACK

290HP
DOOSAN ENGINE

20FT DRILL RODS
880FT ON BOARD

DRILL BEYOND
650FT



GT45

46,000 LBS
PULL - BACK

380HP
CUMMINS ENGINE

20FT DRILL RODS
880FT ON BOARD

EURODRILL TOP DRIVE - RH16X
TORQUE OF 11,897 LB-FT

DRILL BEYOND
800FT



GT65

65,000 LBS
PULL - BACK

513HP
CUMMINS ENGINE

25FT DRILL RODS
1,200FT ON BOARD

EURODRILL TOP DRIVE - RH24X
TORQUE OF 17,700 LB-FT

DRILL BEYOND
1,000FT



GT45DR DOUBLE HEADED

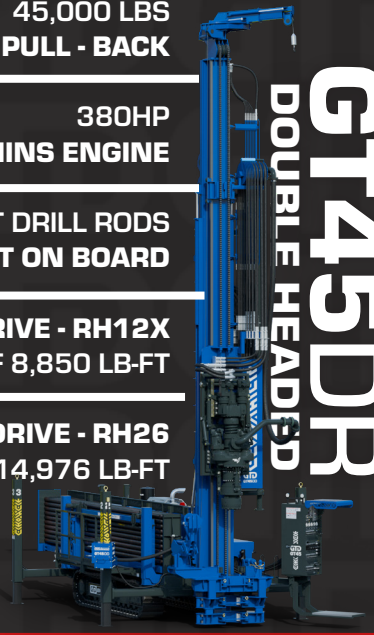
45,000 LBS
PULL - BACK

380HP
CUMMINS ENGINE

20FT DRILL RODS
800FT ON BOARD

EURODRILL TOP DRIVE - RH12X
TORQUE OF 8,850 LB-FT

EURODRILL CASING DRIVE - RH26
TORQUE OF 14,976 LB-FT



GT65DR DOUBLE HEADED

65,000 LBS
PULL - BACK

513HP
CUMMINS ENGINE

20FT DRILL RODS
960FT ON BOARD

EURODRILL TOP DRIVE - RH24X
TORQUE OF 17,700 LB-FT

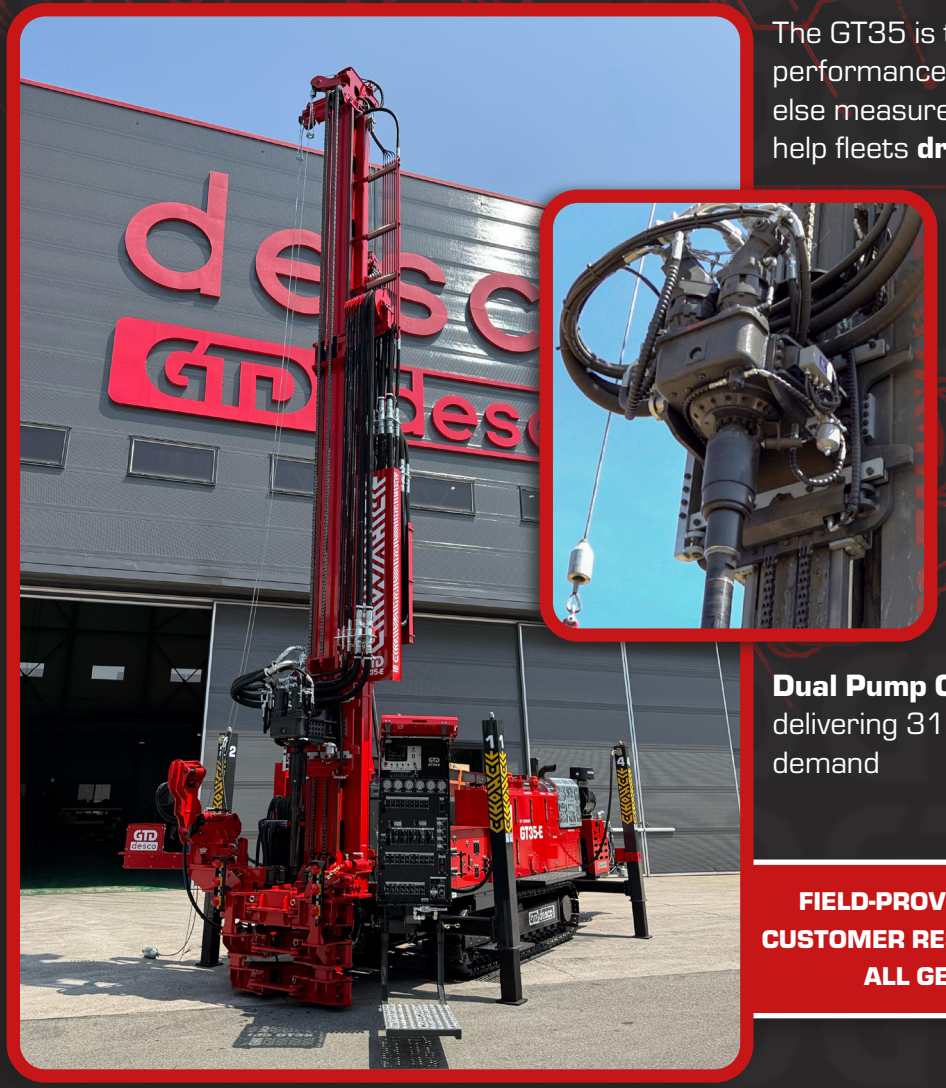
EURODRILL CASING DRIVE - RH40X
TORQUE OF 29,500 LB-FT



THE GEOTHERMAL LINEUP»

GT35

THE GEOTHERMAL RIG THAT NEEDS NO INTRODUCTION



The GT35 is the benchmark rig for geothermal contractors, known for its ease of use, performance, and value. **Decades of refinements** have made it the standard everyone else measures off. While no rig is perfect, the GT35's **durability** and **proven versatility** help fleets **drill deeper, faster,** and more **cost-effectively.**

Peak Performance 290 hp Doosan DL08 Tier 4 (Stage 5) engine paired with a variable-twin Eaton rotary head for up to 6,195 lb-ft and 220 rpm

Comfortably Drills beyond 650ft (200 m) using mud, air, or hammer methods—proven to drill up to 1,380ft (420m)

Massive Onboard Rod Capacity Holds 44 × 20 ft lengths of 3½" rod (880 ft without reloading)

Robust Derrick & Feed 35,000 lb pull-back and 14,000 lb push-down

Dual Pump Capability Standard 4×3×13 centrifugal plus 5x6" triplex piston pump delivering 317 gpm @ 580 psi—ensuring uninterrupted circulation and backup on demand

FIELD-PROVEN UPTIME AND PERFORMANCE, BACKED BY CUSTOMER RESULTS. VERSATILE FOR DEEP GROUND LOOPS IN ALL GEOLOGIES WITH MINIMAL COMPROMISE.

SPEC SHEET

GT45

SINGLE-HEAD RIG (EURODRILL RH16X + SK178 CHUCK OPTION)

SCAN ME

The GT45 is the **new go-to rig** and the **next generation**—an all-around workhorse designed for speed, simplicity, and consistent daily footage in almost all conditions. It shares the same compact footprint as the legendary GT35 but embodies over a decade of lessons learned and performance improvements.

380 HP Cummins L9 Stage V Engine

Compact Footprint, usable in urban and suburban environments as well as open commercial sites

Hands-free and secure 20-ft rod handling system

Eurodrill RH16X Rotary Head – 202 RPM / 11,897 lb-ft (16.13 kNm) of Torque

Larger Track with more grunt but within the same footprint

Essential for any serious geothermal fleet: small enough to **transport easily** and maneuver into tight spots, yet **powerful enough** for **high productivity** at any depth, with any method, in any geology.



AT GTD, WE RECOMMEND A 3:1 RATIO OF SINGLE-HEAD TO DOUBLE-HEAD RIGS. THIS KEEPS YOUR FLEET FLEXIBLE FOR MOST CONDITIONS WITH STANDARD ROTARY WHILE ENSURING DUAL-HEAD CAPACITY WHEN MANDATORY CASING OR PRODUCTIVITY DEMANDS IT.

EURO DRILL

GT65

HEAVY-DUTY PRODUCTION RIG (EURODRILL RH24X + SK219 CHUCK OPTION)

The GT65 is the production king—more power, more torque, pure production. Designed to reach depths beyond 1,000ft with speed and ease, and delivers maximum daily footage.

513 HP Cummins X12 Stage V engine

528 GPM (2000 LPM) Piston Pump
4x3x13” Centrifugal Mud Pump

Eurodrill RH24X Rotary: 200 RPM / Torque: 17,700 lb-ft (24 kNm)

25 ft (7.62 m) Drill Rods for speed and deep-hole capacity
Pull-back: 65,000 lb | Push-down: 26,455 lb

Drill Rod On-Board Capacity: 48x25ft (1,200 ft)
3¾” x 25ft



SCAN ME

FOR SPEC SHEET

IDEAL FOR LARGE-SCALE GEOTHERMAL PROJECTS REQUIRING NONSTOP PRODUCTION, EXTREME DEPTH, AND HIGH-SPEED CYCLE TIMES—WHERE BIG-RIG PERFORMANCE IS ESSENTIAL.



GT45DR

DOUBLE-HEAD RIG (EURODRILL RH12X + RH26 + SK178 CHUCK)

When you need to install casing directly — **fast and reliably** — the **GT45DR is the answer**. With dual heads, it drills the inner string and rotates casing **simultaneously,** with no additional tools required.

380 HP Cummins L9 Stage V Engine

Engineered for optimal performance in unstable and unconsolidated formations

Accelerates casing installation

Hands-free 20-ft rod handling system with dual heads

A must-have solution for contractors facing unpredictable or challenging ground condition

Upper Head (RH12X – Rotary Drive): 190 RPM / Torque: 8,850 lb-ft (12 kNm)

Lower Head (RH26 – Casing Drive Head): 125 rpm / Torque 14,976 lb-ft (20.3 kNm)

FOR CONTRACTORS NEEDING FULL DRILLING AND CASING IN TIGHT SPACES, WITH FAST, CONTINUOUS DRILLING IN VARIABLE FORMATIONS.

SCAN ME

FOR SPEC SHEET

EURO DRILL

GT65DR

DUAL-HEAD PRODUCTION & CASING RIG (RH24X + RH40X + SK219 CHUCK)



When production speed and in-hole casing are mission-critical, the GT65DR merges **two powerhouse heads into one** ultimate footprint. Drill the pilot string and spin the casing simultaneously to serious depths, **slashing non-productive time**.

Dual Eurodrill Heads:
Rotary Head **(RH24X)**: 200 RPM / Torque: 17,700lb-ft (24 kNm)
Casing Head **(RH40X)**: 180 RPM / 29,500 lb-ft (40 kNm)

513 HP Cummins X12 Tier 4 Engine for consistent torque delivery

Pull-Back of 65,000 lb (30 ton)
Push-Down of 26,455 lb (12 ton)

Drill Rod On-Board Capacity: 48x20ft (960 ft)
3¾" x 20ft

Head Tip-Out & Chuck for rapid rod & casing handling

BUILT FOR HIGH-VOLUME CONTRACTORS: FAST CASING INSTALLS, DEEP PILOT HOLES, AND NONSTOP PRODUCTION IN THE TOUGHEST GROUND—BECAUSE EVERY HOUR SAVED BOOSTS YOUR BOTTOM LINE.

SCAN ME

FOR SPEC SHEET

MG500 “MUD GUZZLER”

At GTD, we’ve seen companies upgrade their fleet only to be held-back by weak mud systems. That’s why we offer the MG500 Tracked Mud Recycling System—the **“Mud Guzzler”**—as a fully integrated component of your drilling package.

Process Flows up to 400–500 gpm (1,500–2,000 lpm) to match modern demands.
Fine Solids Removal Down to 15 µm, using 8 x 5” Cones, for cleaner fluid, longer pump life, and reduced consumable costs.
Huge Double-Deck Shale Shacker Deck of 3.408m² (36.69ft²)
Screens of API 60 Mesh / API 80 Mesh
3x Centrifugal Pumps all operating 4x3x13 Single Stage Pumps

Pump-Back Capability: Prime and boost your rig’s mud pumps directly from the MG500.
V-Shaped Tank Design: Minimizes solids buildup and eases cleanup.
Adjustable Shaker Angle (+6°/−10°): Fine-tune to changing geology for optimal separation.
Venturi Mixing Hopper: Rapidly blend powdered additives without separate mixing vessels.
API RP 13C Screens & Linear Motors: Deliver industry-leading reliability and throughput.



SCAN ME

FOR SPEC SHEET

PAIRING THE MG500 WITH YOUR GTD RIG ENSURES YOUR ENTIRE DRILLING SYSTEM IS PROPERLY SIZED AND ENGINEERED FOR MODERN GEOTHERMAL WORK, LEADING TO FEWER INTERRUPTIONS, LONGER COMPONENT LIFE, CLEANER SITES, AND HIGHER PROFITS.

DATA MONITORING SYSTEM

TURN YOUR DRILL SITE INTO A SMART, CONNECTED SYSTEM WITH GTD. REAL-TIME DATA AND REMOTE ACCESS KEEP YOUR TEAM INFORMED AND IN CONTROL — REDUCING RISK, BOOSTING PERFORMANCE, AND CUTTING DOWNTIME.

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**.

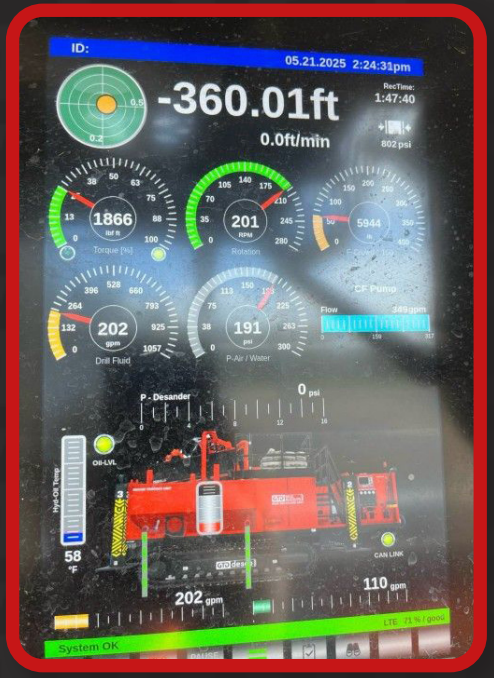
Live data puts speed, torque, and fluid control at **your fingertips.**

Cloud dashboards keep your data within reach, **wherever you are.**



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
WOB (Weight on Bit)	Refines ROP control; critical for bit and formation optimization
Depth & Drilling Time	Tracks progress; enables per-foot cost/performance KPIs
System Diagnostics Log	Includes sensor health, alerts, and error messages



SCAN ME

FOR SPEC SHEET











OPTIONAL CASING GRAB

RODS & CASING

PP52 TAPERED FLUSH THREAD DELIVERS MAXIMUM FLOW AND JOINT STRENGTH WITHOUT THE LIMITATIONS OF API DESIGNS, ENSURING FULL HYDRAULIC PERFORMANCE WITH STRONG CONNECTIONS.

PREMIUM FRICTION-WELDED, HEAT TREATED, TOOL JOINTS WITH 4 WRENCH FLATS.

THICK-WALLED 3½" AND 3¾" RODS, WITH HANDS-FREE 20 OR 25 FT LENGTHS.

INDUSTRY-STANDARD KLEMM THREADS CASING ENSURES FAST MAKE-UP, LEAK-TIGHT SEALS, AND FULL ACCESSORY COMPATIBILITY.

AFTERSALES SUPPORT



RAPID SPARE PARTS REPLENISHMENT ACROSS THE USA AND CANADA







REMOTE DIAGNOSTICS AND ALERT CONFIGURATION THROUGH GTD'S INTEGRATED DATA SYSTEM

ONSITE COMMISSIONING, TRAINING, AND INSPECTIONS BY GTD NORTH AMERICA SERVICE TEAMS

MULTIPLE SERVICE HUBS AND PARTS STORES IN NORTH AMERICA



COMPREHENSIVE SERVICE KIT COVERING THE FIRST 2,000+ OPERATING HOURS

WHATS INCLUDED?



GTD RIGS ARE DELIVERED AND COMMISSIONED WITH ON-SITE TRAINING INCLUDED, ENSURING YOUR TEAM IS CONFIDENT, CAPABLE, AND READY TO DRILL FROM DAY 1.

In-depth factory or field-based training sessions for experienced teams

Full PDF operator manuals supplied with each rig

Operator certification if required by contractor or client

Video tutorials available for refresher learning

Technical deep dives for crew leads, service techs, or engineers

Optional in-person refresher training

EVOLVING PERFORMANCE. ENDURING DESIGN

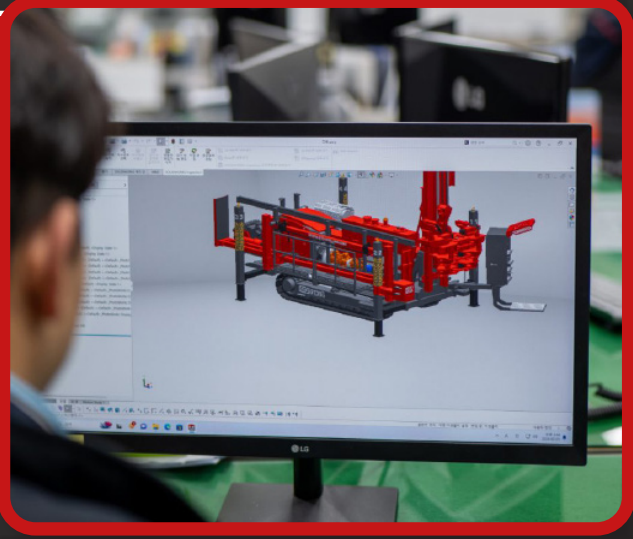
As your rig count grows, we align **parts, support, and training** to keep your fleet running at peak performance

Uniform controls and layouts across models streamline operator training and fleet management.

New features driven by **your feedback**

Lower costs. Faster onboarding. Consistent operations.

Existing clients stay competitive with **retrofit kits, component upgrades**, and **training refreshers** for older units.



MEET THE TEAM

GTD DOESN'T JUST SELL RIGS — WE SUPPORT YOUR FLEET FOR LIFE. Our North American team and global engineering group ensure your rigs stay productive, safe, and efficient year after year.



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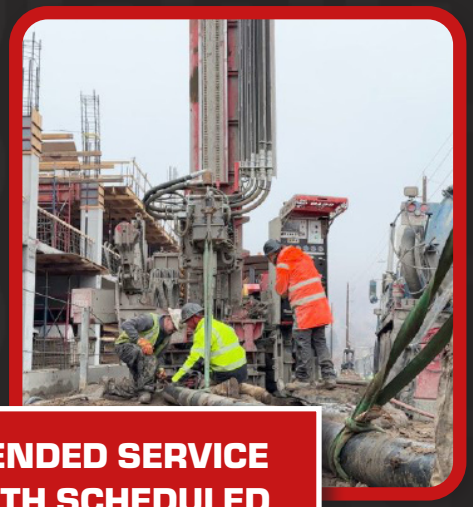
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DESIGNED FOR DRILLERS, BY DRILLERS.





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