

**GIVE YOUR
DRILLERS
SOMETHING
TO TORQUE
ABOUT**

GT8

GEOTECHNICAL DRILL RIG



Power unit

Engine	Deutz Tier 3 Turbo (diesel 4cyl. 4 liters)
Horse power	125 Hp (93 kW) @ 1800 RPM
Torque	370 lb*ft (502 N*m) @ 1800 RPM
Operation angle	0 to 45 degrees

Hydraulic module

Floating rotary head — Torque limit on rotary head

Hydraulic pump (3)	159 l/min (42 US gal/min) @ 1800 RPM (max. 4000 psi (275 bar))
	125 l/min (33 US gal/min) @ 1800 RPM (max. 3000 psi (207 bar))
	79 l/min (21 US gal/min) @ 1800 RPM (max. 3000 psi (207 bar))
Hydraulic pressurized tank	45 US gal (170 l)
Oil heat exchanger	Air cooling
Filtration	10 micron filter on return line (2)

Rotary head and rod holder

Head holding capacity	25000 lb (11340 kg)
Rod holding capacity	9500 lb (4310 kg)
Spindle interior dimension	4.9" (124 mm) PWL Rod
Chuck operation	Spring closed and hydraulically opened
Final drive	HV 80-4 chain in an oil bath
Hydraulic Motor	160 cc variable
Transmission	HI-LO 2 speed mechanic
Rotary Head Ratio	1 : 2.15
Lubrication	Pump pressurized, filter and cooler
Speed	0 to 1 217 RPM

2 Speed transmission

Speed	Ratio	RPM	Maximum Torque
LO	7.41:1	0-63	8254 lb*ft (11192 N*m) @ 63 RPM
HI	1.91:1	0-1 217	427 lb*ft (579 N*m) @ 1 217 RPM

Speed and torque based on a 160 cc variable hydraulic motor at 4000 psi (275 bar)

Diamond core drilling capacity

*Recommended size for maximum performance	B	2 3/16" (55,6 mm)	2375 ft (725 m)
	*N	2 3/4" (69,9 mm)	1825 ft (550 m)
	*H	3 1/2" (88,9 mm)	1310 ft (400 m)
	P	4 5/8" (117,5 mm)	820 ft (250 m)

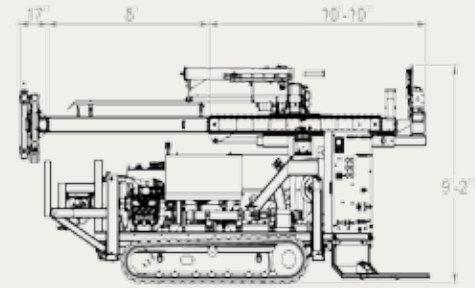
Drilling capacity is calculated on a 90 degree down hole and will depend on in-hole tools, ground conditions, drilling techniques and equipment used.

Recommended diesel engine: 125 HP (93 Kw) at 1800 RPM



Feed frame

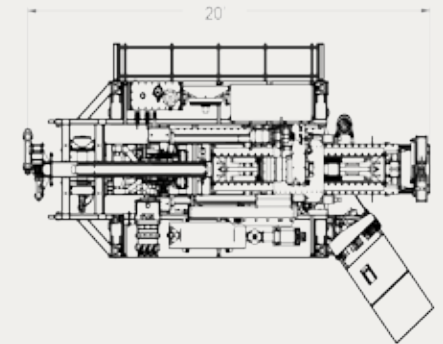
Head stroke	5'8" ft	(1,72 m)
Push and Pull speed	0-135 ft/min	(0-41 m/min) @ 4000 psi
Push and Pull capacity	23856 lb	(10 821 kg) @ 4000 psi
Possible angle	0 to -90 degrees	
Rod pull length	10 ft (3 m) - 20 ft (6 m) with extension	



Wireline hoist

Cable capacity (3/16 in - 4.8 mm)	3280 ft	(1000 m)
Empty Pull capacity	2000 lb	(907 kg)
Full Pull capacity	650 lb	(295 kg)

Variable speed as needed



Main hoist

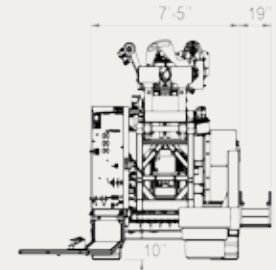
Capacity	10000 lbs	(4536 kg)
Line speed	0-200 ft/min	(0-61 m/min)
Cable diameter	1/2 in	(12.7 mm)
Cable length	100 ft	(30 m)

Auxiliary hoist

Capacity	2000 lbs	(909 kg)
Line speed	low 0-70 ft/min	(0-21 m/min) high 0-140 ft/min (0-43 m/min)
Cable diameter	3/8 in	(9.52 mm)
Cable length	100 ft	(30 m)

Traction hoist (synchronized)

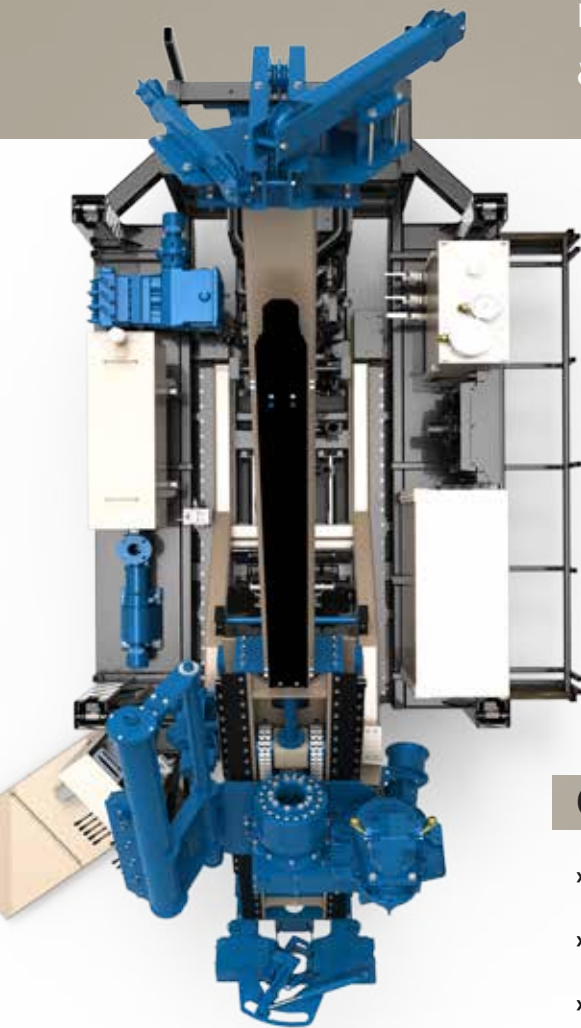
Capacity	20000 lbs	(9072 kg)
Line speed	low 0-43 ft/min	(0-13 m/min) high 0-85 ft/min (0-26 m/min)
Cable diameter	9/16 in	(14.28 mm)
Cable length	100 ft	(30 m)



GT8

ROBUST, COMPACT GEOTECHNICAL / DIAMOND CORE DRILL RIG

- » Compact and sturdy design to satisfy the most demanding contractors
- » Best-in-class Max Torque - Max Speed combo
- » Best-in-class for depth in NWL core
- » Reliable and simple components for affordable maintenance and continued operations under all conditions



Max rotation speed	1217 RPM
Torque at max rotation speed	427 ft-lbs (579 Nm)
Max torque	8254 ft-lbs (11192 Nm)
Speed at max torque	63 RPM
Drilling capacity with NWL drill rod	2625 ft (800 m)
Rig weight	18000 lbs (8165 kg)
Rig height	9'-2" (2.8 m)
Rig length	20' (6 m)
Rig width	7'-5" (2.3 m)
Leveling jacks (4)	30" (762 mm)
Ground to head distance	
Geotechnical drill	Max 13' (330,2 mm) Min 2'6" (66,04 m)
Diamond drill	Max 15'8" (401,32 mm) Min 5'1" (129,54 mm)

Options

- » Hydraulically operated SPT automatic hammer (140 lbs / 64 kg)
- » Hydraulically powered cathead hoist
- » Auxiliary winch 2 000lbs / 909kg
- » Water pump FMC and/or Moyno type
- » and more...