

GT8

Geotechnical Drill Rig.
Compact and sturdy design
to satisfy the power of
a drilling rig now
transposed on a
multifunction drill.



SPECIFICATIONS

Max rotation speed	975 RPM
Torque at max rotation speed	480 ft-lbs (650 Nm)
Max torque	8 270 ft-lbs (11 212 Nm)
Speed at max torque	55 RPM
Drilling capacity with NWL drill rod	1 970 ft (600 m)
Rig weight	18 000 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)

FEATURES AND BENEFITS

- Best-in-class 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

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GEOTECHNICAL DRILL RIG

Power unit	
Engine	Deutz Tier 3 Turbo (diesel 4cyl. 4 liters)
Horse power	131 Hp (97 kW) @ 2 400 RPM
Torque	286 lb*ft (387 N*m) @ 2 400 RPM
Operation angle	0 to 45 degrees

Hydraulic module	
Hydraulic pump (2)	144 l/min (38 US gal/min) @ 2 400 RPM (max. 4 000 psi (275 bar)) 83 l/min (22 US gal/min) @ 2 400 RPM (max. 3 000 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	38 000 lb (17 236 kg)
Rod holding capacity	25 000 lb (11 340 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	2.1 : 1
Lubrication	Pump pressurized, filter and cooler
Speed	0 to 975 RPM

2 Speed transmission			
Speed	Ratio	RPM	Maximum Torque
LO	7.4 : 1	55-250	8 270 lb*ft (11 212 N*m) @ 55 RPM
HI	1.9 : 1	220-975	480 lb*ft (650 N*m) @ 975 RPM
Speed and torque based on a 160 cc variable hydraulic motor at 4000 psi (275 bar)			

Feed frame	
Head stroke	5'6" ft (1,68 m)
Push and Pull speed	0-135 ft/min (0-41 m/min) @ 4000 psi
Push and Pull capacity	23 855 lb (10 820 kg) @ 4000 psi
Possible angle	45 to -90 degrees
Rod pull length	10 ft (3 m) - 20 ft (6 m) with extension

Diamond core drilling capacity		
*Recommended size for maximum performance	B 2 3/16" (55,6 mm)	2 625 ft (800 m)
	*N 2 3/4" (69,9 mm)	1 970 ft (600 m)
	*H 3 1/2" (88,9 mm)	1 065 ft (325 m)
	P 4 5/8" (117,5 mm)	575 ft (175 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: 131 HP (97 Kw) at 2400 RPM		

Wireline hoist	
Cable capacity (3/16" / 1/4")	2 130 ft (650 m) / 1 150 ft (350 m)
Empty Pull capacity	2 500 lb (1 135 kg)
Full Pull capacity	650 lb (295 kg)
Variable speed as needed	

Main hoist	
Capacity	9 000 lbs (4 082 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)

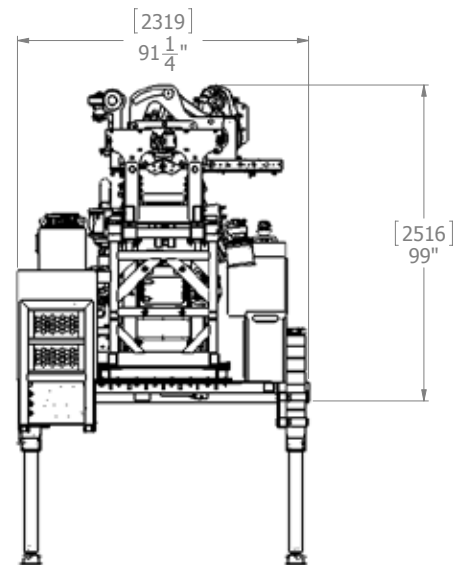
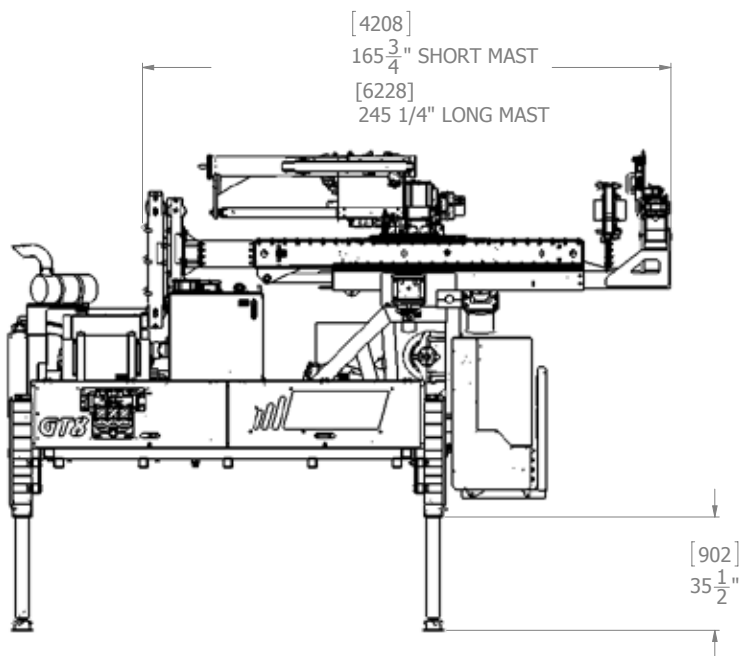
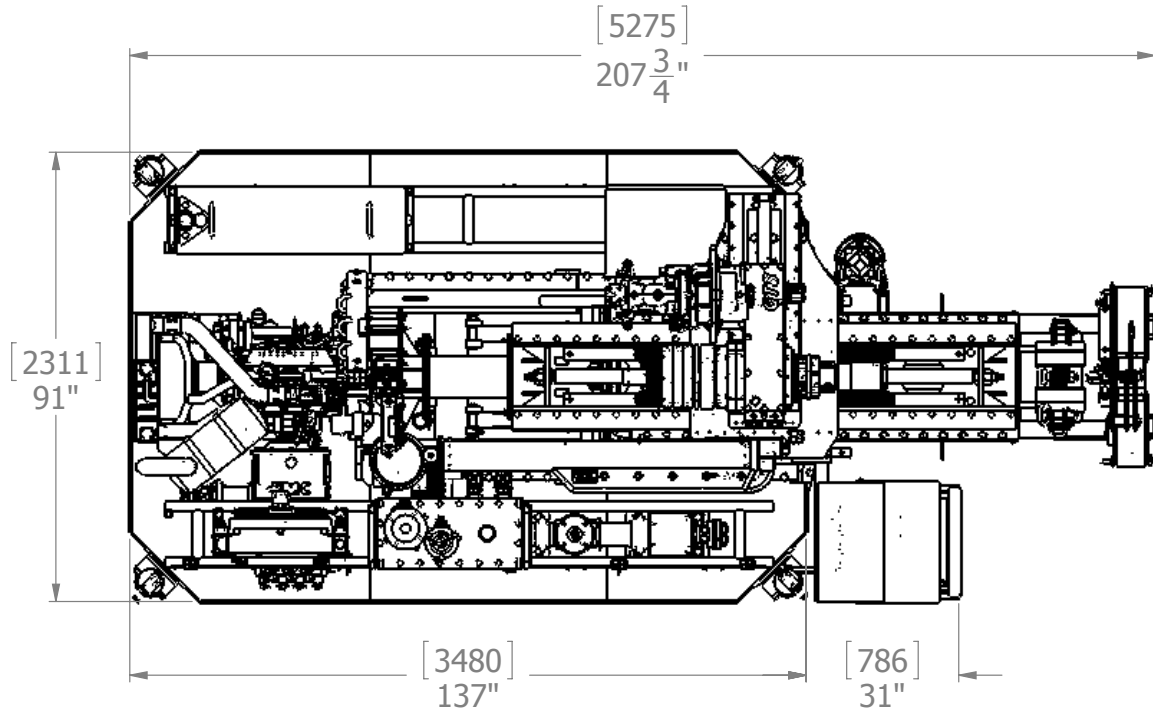
Auxiliary hoist	
Capacity	3 000 lbs (1 360 kg)
Line speed	low 0-70 ft/min (0-21 m/min) high 0-140 ft/min (0-43 m/min)
Cable diameter	3/8 in (9.52 mm)
Cable length	100 ft (30 m)

Traction hoist (synchronized)	
Capacity	25 000 lbs (11 340 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)

OPTIONS

- Hydraulically operated SPT automatic hammer 140 lbs (64 kg)
- Hydraulically powered cathead hoist
- Auxiliary winch 3 000 lbs (1 360 kg)
- Water pump FMC and/or Moyno type

DIMENSIONS





Field experience, **Real** experience.



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