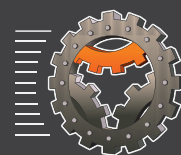


STR 174

SPT & Wireline Rotary Core Test Drill Rig



TMG
MANUFACTURING

STR 174

SPT & Wireline Rotary Core Test Drill Rig



The STR-174 is our largest and most powerful tier-4 compliant SPT, wireline rotary core test drill rig. The STR-174 can drill to 1000 feet and offers several drilling speed and torque options thanks to its 4-speed gearbox drill motor. Perfect for SPT soil sampling and rotary wireline core drilling, this drill rig is the best in its class.

The STR-174 includes a mud pump, manual or automatic SPT hammer system, retractable mast, dual winches for wireline drilling, and a single or dual pipe clamp with breakout.

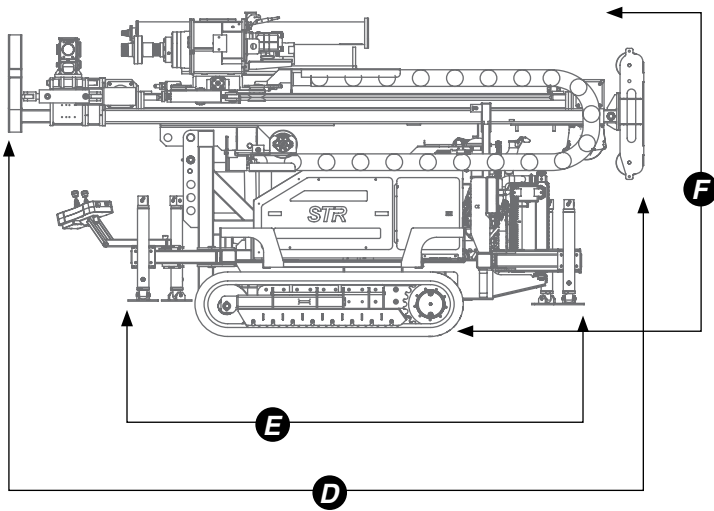
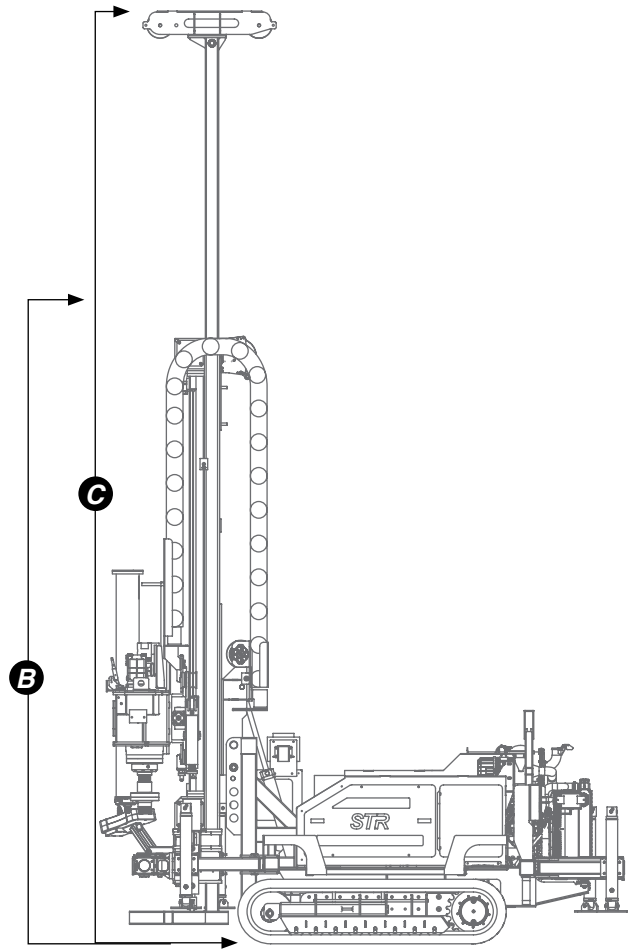
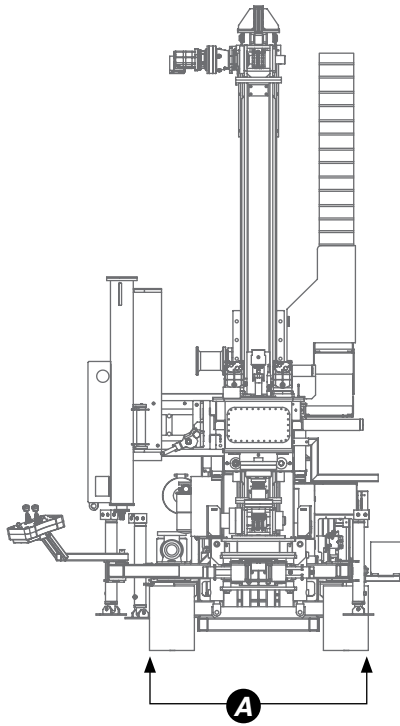
74
HORSEPOWER

9161
FT LBS OF TORQUE
(with rotary drill head ML-500)

723
RPM / 4-SPEED GEARBOX DRILL HEAD

500-900
FEET OF DEPTH
(with rotary drill head ML-500)

STR 174 SPT & Wireline Rotary Core Test Drill Rig



DIMENSIONS

Standard Mast (5 ft - 1.5 mts drill pipe)

Extended Mast (10 ft - 3 mts drill pipe)

A. Width 60" (5') - 152 cm	A. Width 60" (5') - 152 cm
B. Height - Tower retracted 165" (13.75') - 419 cm	B. Height - Tower retracted 210" (17.5') - 533 cm
C. Height - Tower extended 265" (22') - 673 cm]	C. Height - Tower extended 315" (26.25') - 800 cm
D. Length - Mast tilted 170" (14.16') - 432 cm	D. Length - Mast tilted 235" (19.58') - 597 cm
E. Length of body 120" (10') - 305 cm	E. Length of body 120" (10') - 305 cm
F. Height - Mast tilted 85" (7') - 215 cm	F. Height - Mast tilted 85" (7') - 215 cm
G. Weight (approximate) 5.6 tons - 11,200 lbs.	G. Weight (approximate) 5.6 tons - 11,200 lbs.

Engine

- 74 hp (55.2 kW), tier-4 compliant, turbo charged diesel engine
- Water cooled
- 12 V electric start
- Emergency stop button
- Rpm gauge
- Oil pressure gauge

Hydraulic System

- 50 gpm (189 lpm) max combined hydraulic flow
- Max 3000 psi (206 bar)
- Load sensing variable displacement axial piston pump
- Feather touch controls
- Oil cooler

Track System

- Stationary track system (300 mm wide 1727 mm long - 11.8" wide 68" long)
- NACHI 3B track motor with automatic brake system
- Built-in grease filled tensioning arm and spring

Mast

- Chain driven mast
- V-Rollers
- Tilt rotate for travel
- Standard mast 5.5 ft (1.5 m) stroke or extended mast 10.5 ft (3.2 m) stroke

Pipe Clamp

- Single pipe/rod bottom clamp
- Size capability from 1.5" to 6" (Other sizes available)

Telescopic SPT Tower

- Telescopic SPT tower
- 19 ft (5.79 m) max height (longer travel available)
- Dual pulley system - SPT rope pulley and wireline pulley. Tower counterbalance hydraulic locking system

Leveling Outriggers

- 4 hydraulic level outriggers with independent controls

SPT Hammer System

- Rotary capstan system for manual SPT hammer (SPT hammer sold separately) (Auto hammer option available)

Drill Motor - Rotary Gearbox MS-500

- Gear 1: 723 rpm at 573 ft lbs (776 Nm) torque
- Gear 2: 361 rpm at 1145 ft lbs (1552 Nm) torque
- Gear 3: 181 rpm at 2290 ft lbs (3104 Nm) torque
- Gear 4: 90 rpm at 4580 ft lbs (6209 Nm) torque
- See complete list of options on next page
- Built-in heavy duty wet swivel (see bellow)

Heavy Duty Wet Swivel

- Top intake
- One quick-change connector (AWJ, AW, BW, BQ, NW, NQ, HW, HQ, PW, PQ) others available
- Automatic spring floating system

Mud Pump

- Moyno 3L6 (or equivalent) continuous flow stator / rotor style mud pump
- Up to 225 psi (15.5 bar)
- 25 gpm flow (94 lpm)
- Independent hydraulic motor
- Quick coupling
- Mounted on drill rig frame

Lifting Winch

- 4,500 lbs (2,041 kg) lift capacity
- Planetary gear
- 10 ft/sec travel speed
- Balance weight and locking hook
- ¼" - ½" (6-12 mm) cable diameter

Wireline Winch - 2nd Winch

- For wireline operations
- 1,000 lbs (453 kg) lift capacity
- 20 ft/sec travel speed

Fuel Tank

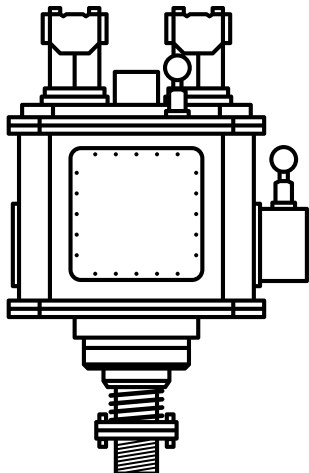
- 10 gallon (37.8 liters) fuel tank with fuel sending sensor

Hydraulic Oil Tank

- 30 gallon (113 liters) hydraulic oil tank with built in site level glass

Options

- Remote control for driving operations
- Various auger drill heads available
- Automatic drop hammer 140 lbs (63 kg)
- Manual drop hammer 140 lbs (63 kg)
- Dual pipe clamp with breakout
- Direct push drill head



Rotary Drill Head Gearbox Options

For 74 hp & 50 gpm, diesel engine

MS Series					ML Series				
MS-200					ML-200				
	GEAR 1	GEAR 2	GEAR 3	GEAR 4		GEAR 1	GEAR 2	GEAR 3	GEAR 4
RPM - Max speed	1880	940	470	235		1880	940	235	117
TORQUE - Lb ft	220	440	881	1761		220	440	1761	3523
TORQUE - Nm	298	596	1194	2387		298	596	2387	4776
MS-250					ML-250				
	GEAR 1	GEAR 2	GEAR 3	GEAR 4		GEAR 1	GEAR 2	GEAR 3	GEAR 4
RPM - Max speed	1503	751	376	188		1503	751	188	94
TORQUE - Lb ft	275	551	1101	2203		275	551	2203	4405
TORQUE - Nm	372	747	1492	2986		372	747	2986	5972
MS-400					ML-400				
	GEAR 1	GEAR 2	GEAR 3	GEAR 4		GEAR 1	GEAR 2	GEAR 3	GEAR 4
RPM - Max speed	1160	580	290	145		1160	580	145	72
TORQUE - Lb ft	357	714	1427	2855		357	714	2855	5710
TORQUE - Nm	484	968	1934	3870		484	968	3870	7741
MS-500 - Standard					ML-500				
	GEAR 1	GEAR 2	GEAR 3	GEAR 4		GEAR 1	GEAR 2	GEAR 3	GEAR 4
RPM - Max speed	723	361	181	90		723	361	90	45
TORQUE - Lb ft	573	1145	2290	4580		573	1145	4580	9161
TORQUE - Nm	776	1552	3104	6209		776	1552	6209	12420

STR 174 SPT & Wireline Rotary Core Test Drill Rig





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