

ROTADRILL SPECIFICATIONS

Rotadrill Model▶	T200	T300E	T300M	T450M
Pullup Capacity	12,000 lbs. (5,450 kg)	18,000 lbs. (8,163 kg)	18,000 lbs. (8,163 kg)	22,500 lbs. (9,979 kg)
Pulldown Capacity	7,800 lbs. (3,550 kg)	12,000 lbs. (5,442 kg)	12,000 lbs. (5,442 kg)	17,500 lbs. (7,936 kg)
Top Head Rotation Performance	0-160 rpm 26,000 in. lbs. (2,970 N-m) 0-80 rpm 60,000 in. lbs. (6,800 N-m)	0-114 rpm 45,600 in. lbs. (5,150 N-m) 0-57 rpm 106,800 in. lbs. (12,070 N-m)	0-200 rpm 26,300 in. lbs. (2,970 N-m) 0-100 rpm 60,900 in. lbs. (6,880 N-m)	0-200 rpm 19,000 in. lbs. (2,110 N-m) 0-100 rpm 38,000 in. lbs. (4,221 N-m)
Unit Engine	PTO or Deck	PTO or Deck	PTO or Deck	PTO or Deck
Dimensions				
Length	24' 6" (7.47 m)	30' 3" (9.22 m)	31' 6" (9.60 m)	32' 6" (9.91 m)
Width	8' (2.438 m)	8' (2.438 m)	8' (2.438 m)	8' (2.438 m)
Height	9' 4" (2.85 m)	11' 5" (3.5 m)	11' 5" (3.5 m)	11' 8" (3.55 m)
Operating Weight (less drill pipe)	22,000 lbs. (10,000 kg)	24,000 lbs. (10,900 kg)	27,000 lbs. (12,250 kg)	37,000 lbs. (16,800 kg)
Slip Box Table Opening	12" (300 mm)	14" (355 mm)	14" (355 mm)	14.5" (370 mm)
Standard Pipe Dimension	3½"x10' (89 mm x 3.05 m)	3½"x10' (89 mm x 3.05 m)	3½"x20' (89 mm x 6.1 m)	3½"x20' (89 mm x 6.1 m)
Head Travel	13½' (4.11 m)	13½' (4.11 m)	23½' (7.16 m)	25' (7.625 m)
Optional Equipment Highlights	Mud Pumps: Centrifugal & Piston, Grout Pump Transportable Mud Pit 6 Pipe Lazy Susan All Terrain Mounting Environmental Pkg. Winches Water Injection Systems 185/150, 250/150 Comp.	Mud Pumps: Centrifugal & Piston, Grout Pump Transportable Mud Pit 6 Pipe Lazy Susan Single Pipe Loading Arm Environmental Pkg. Winches Water Injection Systems 300/200, 250/150 Comp.	Mud Pumps: Centrifugal & Piston, Grout Pump Transportable Mud Pit 6 Pipe Lazy Susan Single Pipe Loading Arm Environmental Pkg. Winches Water Injection Systems 300/200, 250/150 Comp.	Mud Pumps: Centrifugal & Piston, Grout Pump Transportable Mud Pit Hyd. Swing-out Head Single Pipe Loading Arm Environmental Pkg. Winches Water Injection Systems 300/200, 250/150 Comp.
Rotadrill Model▶	T450W	T660W	T685W	TM140
Pullup Capacity	30,000 lbs. (13,600 kg)	44,000 lbs. (20,000 kg)	70,000 lbs. (31,760 kg)	140,000 lbs. (63,504 kg)
Pulldown Capacity	20,500 lbs. (9,300 kg)	30,000 lbs. (13,608 kg)	35,000 lbs. (15,876 kg)	37,700 lbs. (17,100 kg)
Top Head Rotation Performance	0-85 rpm 80,500 in. lbs. (8,940 N-m)	0-135 rpm 75,000 in. lbs. (8,333 N-m)	0-80 rpm 109,000 in. lbs. (12,316 N-m) 0-160 rpm 48,000 in. lbs. (5,424 N-m)	0-64 rpm 106,000 in. lbs. (11,975 N-m) 0-137 rpm 53,000 in. lbs. (5,989 N-m)
Standard Compressor	825 cfm @ 350 psi (23.3 m³/min. @ 25.2 bar)	900 cfm @ 350 psi (25.4 m³/min. @ 25.2 bar)	1150 cfm @ 350 psi (32.8 m³/min. @ 25.2 bar)	
Unit Engine	Detroit Diesel 8V71TA 388 hp (290 kw) @ 1950 rpm	Cummins NTA855C 446 hp (333 kw) @ 1900 rpm	Cummins KTTA19C 650 hp (485 kw) @ 2100 rpm	Detroit Diesel 6V92TA 340 hp (254 kw) @ 2100 rpm
Dimensions				
Length	32' 6" (9.91 m)	35' 8" (10.87 m)	37' 9" (11.5 m)	60' (18.3 m)
Width	8' (2.438 m)	8' (2.438 m)	8' (2.438 m)	8' (2.438 m)
Height	12' 1" (3.68 m)	12' 1" (3.68 m)	12' 1" (3.68 m)	13' 8" (3.68 m)
Operating Weight (less drill pipe)	38,000 lbs. (17,237 kg)	46,000 lbs. (20,900 kg)	57,000 lbs. (25,855 kg)	95,000 lbs. (43,092 kg)
Slip Box Table Opening	16.5" (420 mm)	18" (450 mm)	22" (560 mm)	26" (660 mm)
Standard Pipe Dimension	4½"x20' (114 mm x 6.1 m)	4½"x20' (114 mm x 6.1 m)	4½"x25' (114 mm x 7.62 m)	4½"x30' (114 mm x 9.14 m)
Head Travel	25' (7.62 m)	28.5' (8.68 m)	30' (9.144 m)	42' (12.81 m)
Standard Water & Foam System	9 gpm (34.07 Lpm) Bean Water	12 gpm (45.42 Lpm) Cat Water/Foam Inj.	25 gpm (94.63 Lpm) Cat Water/Foam Inj.	35 gpm (132.48 Lpm) Bean Water/Foam Inj.
Optional Equipment Highlights	Mud Pumps: Centrifugal & Piston, Grout Pump Sliding Top Head 6 Pipe Lazy Susan 45° Sliding Angle Mast Environmental Pkg. Winches Water Injection Systems 500/200, 675/350 Comp.	Mud Pumps: Centrifugal & Piston, Grout Pump Blasthole Package 4, 5 & 7 Pipe Lazy Susans 45° Sliding Angle Mast Environmental Pkg. Winches Water Injection Systems Manual Clutch	Mud Pumps: Centrifugal & Piston Blasthole Package 5 & 7 Pipe Lazy Susans 45° Sliding Angle Mast Environmental Pkg. Winches Water Injection Systems 500 psi Air Compressor	7½x10 Mud Pump Drawworks Winch Racking Board Auxiliary Rear Jacks Big Tool Breakout D.O.T. Clearance Lights Lifting Eyes Casing Eyes

These engineering specifications are computed on a theoretical basis. Actual capacities will vary according to specific drilling conditions. Schramm, Inc. reserves the right to change and make design modifications without prior notification or obligation.



SCHRAMM, INC.
800 E. Virginia Ave.
West Chester, PA 19380 - U.S.A.
Phone: (215) 696-2500
Fax: (215) 696-6950
EasyLink: 62764336
Telex: 83-5455

For More Information Contact:

SCHRAMM ROTADRILLS

MULTIPURPOSE DRILLING EQUIPMENT

Schramm offers eight models of top head Rotadrills for water wells, mineral exploration, blast hole, environmental, geothermal, soil investigation and shallow oil and gas production. Each model is designed for easy

operation, high productivity, versatility and reliability under the most adverse conditions. Schramm can match the right equipment to your requirements.



T200

Pullup: 12,000 lbs.

Mud Pumps: Up to 4x5 duplex piston

Light weight truck or trailer mounted drill for shallow water wells and monitoring wells using 10 ft. long drill rods for rotary drilling methods and hollow stem augers.



T300E

Pullup: 18,000 lbs.

Compact, powerful PTO or deck engine powered rig for environmental drilling using hollow stem augers to 14.5 in. and rotary drilling methods. Features sliding mast pivot for optimum alignment over the bore hole. Dual spindle top head for coring.



T300M

Pullup: 18,000 lbs.

Mud Pumps: Up to 5x6 duplex piston

PTO or deck powered rig ideally suited for 4 to 8 in. water wells and monitoring wells using mud rotary and hollow stem auger drilling methods. Air rotary, DTH hammer and over burden drilling with optional towed air compressor.



T450M

Pullup: 22,000 lbs.

Air Compressor: Up to 300/200 psi on board development

Mud Pumps: Up to 5½x8 duplex piston

PTO or deck engine powered rig for drilling unconsolidated formations using mud rotary method. Lazy Susan for easy pipe handling.



T450W

Pullup: 30,000 lbs.

Air Compressor: 3 sizes up to 825/350

Compact, maneuverable rig ideally suited for 5 to 8 in. water wells; monitoring wells and mineral exploration holes to 1000 ft. deep using DTH hammer, air rotary, mud rotary, dual wall and casing hammer drilling techniques.



T660W

Pullup: 44,000 lbs.

Air Compressor: 900/350

Mud Pumps: Piston or centrifugal

Rugged rig for deeper domestic and large diameter industrial wells to 18 in. diameter, yet light weight enough to offer excellent over the road mobility.



T685W

Pullup: 70,000 lbs.

Air Compressor: 2 sizes 1150/350 or 1000/500 psi

Powerful, rig for deep wells, exploration holes, and large diameter holes using air rotary, DTH hammer and mud rotary methods to 22 in. diameter.



TM140

Pullup: 140,000 lbs.

Air Compressor: Remote mounted

Trailer mounted for shallow oil and gas wells and irrigation projects. Holes to 24 in. diameter using air rotary, mud rotary and DTH hammer methods.