

## DD-1100RS PERFORMANCE SPECIFICATIONS

POWER TRAIN - ONE POWER PACK	
Engine	Caterpillar C-18 Tier 4i or Tier 3 Diesel (depending on country of purchase)
Rating	765 HP (570 kW)
Fuel Capacity	650 U.S. Gallons (2,460 L)
Hydraulic Capacity	220 U.S. Gallons (833 L)
Hydraulic Filter	High Pressure Filtration to 6 Micron ABS

CARRIAGE SYSTEM	
Maximum Thrust/ Pullback	1,100,000 lbs. (500 Tonnes)
Carriage System	Rack & Pinion, (6) Pinion and Gear with Adjustable Force Limiter
Maximum Carriage Speed	101 ft. (30.7 m)/minute
Carriage Motors	(6) 1017 cc Variable Displacement
Carriage Gearbox	(6) Planetary Drives
Hydraulic Pump	(2) Closed Loop-Piston

ROTARY DRIVE	
Rotary System	(4) Pinion and Gear Drive with Infinitely Variable Torque
Maximum Rotary Torque	100,000 ft-lbs. (135,600 Nm) @ 0 – 31 RPM
Minimum Rotary Torque	40,000 ft-lbs. (54,230 Nm) @ 0 – 75 RPM
Maximum Rotary Speed	85 RPM
Rotary Motors	(4) 160cc, Axial Piston, Variable Displacement

Rotary Brakes	(4) Spring Applied, Hydraulic Release
Fluid Course	4 in. (102 mm)
Mud Flow Rate	Permits up to 1,000 U.S. Gallons (3,785 L)/per minute
Maximum Mud Pressure	1,500 psi (103 bar)
Mud Shutoff Cylinder	2 in. Bore x 12 in. Stroke (51 - 305 mm)
Mud Blow Down Cylinder	1 1/16 in. Bore x 4 in. Stroke (27 - 102 mm)
Hydraulic Pump	(2) Closed Loop-Piston
Auxiliary Pump	(1) Pressure Compensated-Piston
Slip Spindle	8 5/8 in. (219 mm)

WRENCH	
Wrench Travel	Wrench can Travel the Full Length of the Thrust Frame
Maximum Breakout Torque	230,000 ft-lbs. (311,800 Nm)
Maximum Makeup Torque	100,183 ft-lbs. (135,800 Nm)
Clamp/Grip Range	3.5 in.– 10.5 in. (89 – 267 mm) OD
Wrench Motor	(2) Hydraulic, LSHT, 12.5 CIR
Wrench Brake	(1) Spring Applied, Hydraulic Release

DRILL RIG	
Drill Angle	10° - 18°
Drill Pipe	Range II – 34 ft. (10.4 m)

## SAFETY

- Es!Lok – Exit Side Lockout System with 1 mile (1.6 m) Range
- ZAPALERT – Electrical Detection Device
- Run on One Technology system (ROOTS)
- Free standing operator's console with pressure gauges
- Operator's manual and other unit support materials

## DRILL RIG DIMENSIONS

Length	64 ft. 10 in. (19.5 m)
Width	8 ft. 2 in. (2.5 m)
Height	11 ft. 10.25 in. (3.6 m)

## SINGLE POWER PACK DIMENSIONS

Length	19 ft. 8 in. (5.99 m)
Width	8 ft. (2.43 m)
Height	9 ft. 5 in. (2.88 m)

## SINGLE POWER PACK WEIGHT

Total Weight	35,500 lbs. (16,103 kg)
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## DRILL RIG WEIGHT

Total Weight	With Wrenches: 112,580 lbs. (51,065 kg)
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## PRODUCT OPTIONS

[Dual Power Pack](#) for Run-On-One-Technology-System (ROOTS)

- Simultaneously run both power units
- Permits one power unit to run while powering through the unused power unit
- Allows one power unit to run, but keeps the unused power unit isolated
- Exercise the ability to have one power unit running, but have the unused power unit removed
- Unit maintains full power with single engine, but system runs with half rotational RPM and half carriage drive speed