

DD-660RS PERFORMANCE SPECIFICATIONS

Engine	Cummins QSX15 Tier 4 Final (or Tier 3 depending on count of purchase)
Rating	600 HP (447 kW) each
Fuel Capacity	650 U.S. Gallons (1325 L)
Hydraulic Filter	High Pressure Filtration and Return to 6 Micron ABS
Battery	(2) Deka 908DMF 24 V, 1450 CCA

Maximum Thrust/ Pullback	660,000 lbs. (300 Tonnes)
Carriage System	Rack & Pinion, (4) Pinion with Adjustable Force Limiter
Maximum Carriage Speed	107 ft. (33 m)/minute
Carriage Motors	(4) Radial Piston/Dual Displacement
Carriage Brakes	(2) Only on Carriage
Carriage Gearbox	(4) Planetary Gearboxes
Hydraulic Pump	(4) Piston Pump, Closed Loop

Rotary System	(4) Pinion & Gear Drive w/Infinitely Variable Torque
Maximum Rotary Torque	80,000 ft-lbs. (108,500 Nm) @ 0 – 34 RPM
Minimum Rotary Torque	30,000 ft-lbs. (40,675 Nm) @ 0 – 90 RPM
Maximum Rotary Speed	90 RPM
Fluid Course	3 3/4 in. (95.25 mm) for increased downhole hydraulic power

Mud Flow Rate	Permits up to 1000 U.S. Gallons (3,785 L)/minute flow
Maximum Mud Pressure	1,500 psi (103 bar)
Hydraulic Pump	(4) Piston Pump, Closed Loop
Auxiliary Pump	(1) Piston Pump, pressure Compensated
Fluid Course	3 3/4 in. (95.25 mm) for increased downhole hydraulic power
Mud Flow Rate	Permits up to 1000 U.S. Gallons (3,785 L)/minute flow
Maximum Mud Pressure	1,500 psi (103 bar)

Wrench Travel	Wrench can Travel the Full Length of the Thrust Frame
Maximum Breakout Torque	220,000 ft. lbs. (298,280 Nm)
Maximum Makeup Torque	100,183 ft-lbs. (138,252 Nm)
Clamp/Grip Range	3.5 in.– 10.5 in. (89 – 267 mm) OD
Wrench System	Triple Jaw Wrenches with 12 in. (305 mm) separation
Carriage to Wrench Clearance	36 ft. (11 m) max.

Drill Angle	10° - 18°
Drill Pipe	Range II – 30 ft. (9.1 m)
Cabin	8x12 ft. skid (8x20 ft. available)

Processor Controls	Sauer Danfoss micro-processor controls with touch screen, optional data acquisition

Auxilliary Power Unit	9.9 HP Hatz 1840 diesel engine for rig setup
Pipe Capacity	4
Optional Pipe Loader	

Maximum Length	64 ft. 10 in. (19.5 m)
Maximum Width	8 ft. 2 in. (2.5m)
Maximum Height (Transport)	12 ft. 1 in. (3.68 m)
Travel Weight	100,300 lbs. (47,763 kg)

Maximum Length	19 ft. 8 in. (6 m)
Maximum Width	8 ft. (2.43 m)
Maximum Height	9 ft. 5 in. (2.88 m)
Total Weight	35,500 lbs. (16,103 kg)

Dual Power Pack for Run-On-One-Technology-System (ROOTS)	<ul style="list-style-type: none"> • 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 • Excercise 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
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ISO-Style Driller's Cabin	
ISO-Style Trailer for Power Packs	
Quiet-Pak® Sound Deadening Enclosure	
Certified Pullback Test	