

taylorRT4000

The year 2004 model Taylor RT 4000 is a drilling package mounted on a 4-axle heavy-duty carrier. The unit is comprised of a carrier, power package, drawworks, mast, and rotary system. The carrier has 4 axles with 4 driving hubs. Axle location is specifically engineered for optimum weight distribution, minimal turning radius, and heavy-duty off-road operations.

The 200,000 lb. mast is a non-telescoping design, manufactured in accordance with API and Taylor Rigs strict quality control processes. The mast provides 55 ft. clear space above the rotary table.

The RT 4000 includes a hydraulic drive rotary table; which tilts hydraulically to allow clearance for large diameter casing. Taylor's system eliminates the need for the traditional mechanical rotary system and reversing gearbox.



rigspecs

Drawworks

Overall

Double Drum Drawworks with a 25,200-lb. single line pull on a bare drum. Innovative hydraulic drive design eliminates all chains and clutches, while reducing moving parts and weight. All Taylor drawworks meet or exceed API recommendation for design criteria and are engineered to meet a minimum 4:1 safety factor. All drawworks bearings and seals are off-the-shelf items and may be purchased directly from the factory or from parts distributors worldwide.

Hoist is capable of 150,000 lbs. pullback.

Drawworks Control

Main drum controls, park brake, engine throttle, and emergency shutdown are located on the operators console at the rear of the rig. Console is conveniently located on the derrick base for excellent visibility and operator comfort.

Auxiliary Hoist

Hydraulic "planetary" style hoist mounted on the rig deck. Hoist capacity is 7,000 lbs. and comes with air-over-hydraulic controls, internal braking system, and 175 ft. of 9/16 in. wire .

Hydraulic Drilling System

Rotary System

Standard system includes a hydraulic rotary drive system. The variable displacement system provides smooth consistent rotary speed, utilizing a multiple speed transmission.

Rotary Table

The RT-4000 includes an 18 in. Gardner Denver / DSM rotary table featuring spiral bevel gears and a fully enclosed case. Table has a hydraulic tilt function, which along with specially designed rear frame section, allows clearance for 36 in. diameter casing. Master bushing is included. **Maximum rotational torque of 30,000 ft-lbs.**

Rotary System Controls

All rotary system controls are mounted on the driller's console located at the mast base at the rear of the rig.



Fixed Mast

Overall

A non-telescoping mast with open face design, manufactured to API 4-F specifications. The open face design utilizes a structural design, which allows for maximum block clearance. Mast includes a ladder from rig floor to crown and a block cradle.

Specifications

Clear Space • 55 ft.

No. of Blocks • 2

API Capacity • 200,000 lbs.

Kelly Line Size • 7/8 in. – Six-part

Hoisting Line Size • 7/8 in. – Six-part

Kelly Block • 75-ton Triple

Hoisting Block • 75-ton Triple



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RT4000 rigs specs

Engine

(1) Caterpillar C-15, inline 6 cylinder, 4-stroke turbo charged, after-cooled engine rated at 425 hp. at 2,100 rpm. Engine includes a Donaldson dry-type air cleaner, a full exhaust system with 300 Attenuation muffler. Exhaust system discharges to right side of rig.

Engine includes heavy-duty radiator and fan, engine speed governor, air-actuated throttle, standard engine instruments, emergency shutdown for low oil and high coolant temperature, emergency shutdown system and Jake Brake installed.

Specifications

Model Number • C-15	Number of Cylinders • 6
Engine Type • 4-stroke / cycle	Displacement • 15.0 Liters
Rated Power Output (Gross) • 425 hp. @ 2,100 rpm	

Transmission

Fuller RT018918B, 18 speed standard transmission. Transmission is shifted via a mechanical shifting system.

All engine / transmission combinations are reviewed and approved by the transmission manufacturer for correct engineering, installation, and engine compatibility.

Specifications

Net Input Power (max.) • 550 hp.	Net Input Speed (max.) • 7,100 rpm
Net Input Torque (max.) • 1,850 lb.-ft.	

Overall Dimensions

The carrier is a heavy-duty 4-axle off road carrier with two front steering axles and two rear driving axles. All frame members coped and welded for superior strength and durability. The carrier is designed for maximum maneuverability and road clearance with minimum turning radius. Location of axles specially engineered to correctly distribute weight in proportion to front and rear axles.

Specifications

Length w/ Mast • 59 ft 8 in.	Width (traveling) • 8 ft. 6 in.
Bridge Span • 16 ft. 2 in.	Overall Length • 39 ft. 11 in.
Front Axle Spacing • 5 ft. 5 in.	Rear Axle Spacing • 4 ft. 5 in.
Rear Axle to Rear Bumper • 9 ft. 7 in.	Overhang - Front • 17 ft. 1 in., Rear • 5 ft. 1 in.

Unit Weight

Front • 41,500 lbs.
Rear • 44,400 lbs.
Total • 85,900 lbs.

Make-up & Break-out System

The make-up system is comprised of (1) hydraulic cylinder mounted in the mast, with line guide rollers. The make-up cylinder has 144 in. of travel and provides 18,800 lbs. of pull.

The break-out system is comprised of (1) hydraulic cylinder mounted in the mast, with line guide rollers. The breakout cylinder has 48 in. of travel and provides 32,986 lbs. of pull.

Rig Leveling System

Rig leveling is done with (4) 48 in. hydraulic leveling jacks with internal locks. The jacks are controlled from the operator's console.

Rig Working Floor

The rig includes an 8 ft. x 6 ft. working floor with non-slip grating. The floor includes folding wings, and guardrails per OSHA regulations. The platform folds via hydraulics for ease of transportation.

Weight Indicator

Alberta Instrument 200,000 lb. Midget Electronic weight indicator system. 6 in. electronic gauge mounted in steel enclosure, Adjustable zero, 250 degree taut band movement.

Automatic Drilling System

Automatic drilling system to control drawworks drive and bit pressure. Control is mounted at operator's console.

Other Equipment

The Taylor 4-axle carrier comes complete with rig stairs, full-length fold down walk ways on right & left sides, OSHA approved guard rails with chain sections, driveline covers, two (2) locking toolboxes, two (2) 125-gallon fuel tanks, and twin junk racks.

