



CommanderTM Drawworks

As a leading supplier of power distribution and controls systems, Canrig recognizes the criticalness of enhanced drawworks performance.



Canrig is taking a new approach to the way a drawworks is made and is setting a new industry standard for configurability in the process.

The Commander™ Drawworks has over 50 design configurations, including customization of power type, horsepower, layout, and braking system.

It can also be customized to meet various size, weight and footprint requirements with a standard set of components, making the Commander™ Drawworks one of the smallest and lightest drawworks in the industry.

Paired with SmartROS® automation, the Commander™ Drawworks is at the forefront of today's rapidly changing technology in rig automation.

SmartROS® Automation

SmartROS® automation is adaptable to most rig equipment. Canrig's active control philosophy includes industry best practices with equipment interlocks, self-checks, alarms and extensive monitoring to ensure safe operations. Standard advanced drawworks controls features includes:

- State-of-the-art speed management that optimizes block speed for performance and safety
- Controlled minimum line tensioning to prevent line fouling (bird nesting)
- Anti-collision system to protect the crown, floor and rocking board as well as interlocks with other floor equipment to prevent damage
- Health monitoring with over eight monitoring points on the drawworks to prevent damage due to improper lubrication and/or cooling
- Best-in-class SmartCRUISE® automatic driller utilizes self-optimizing algorithms that adapt to the drilling dynamics of the rig as well as changes in geology

Configurable Main Gear Box

Ability to use common components to customize performance for any application.

Gear Train with Planetary Final Reduction

Reduces footprint and weight.

Optional Friction Brake Plate or Caliper Brake

Ability to accommodate customer preference. Cost effectiveness of friction brake plates vs. redundancies of caliper brakes.

Innovative HPU Design

- Integrated multifunctional valve manifold enables convenient rig-up and rig-down
- Independent brake hydraulic controls maintain operational capabilities in event of central HPU failure
- Enables manual lowering of drill pipe to allow emergency BOP activation

Modular Main Components* (transfer case, motor frame, drum frame)

Field configurable; flexible orientation allows for motor repositioning to accommodate footprint and height profile needs and transportation limitations.

**Modular Design Models Only*

SPECIFICATIONS



Model	Motors (AC)	Intermittent HP	Continuous HP	Max Single Line Pull (lbf)*	Line Size (inches)	No. of Lines	Max Hook Load (tone)**	Block Speed (rpm)
DW-1500-1 MD	1 x 1500 HP	1830	1500	62,550	1.375	8	220	369
						10	280	295
						12	330	247
DW2000 MD	2 x 1150 HP	2800	2300	94,200	1.375	8	330	298
						10	410	239
						12	480	200
DW2000 NG-NPL	2 x 1150 HP	2800	2300	94,200	1.375	8	330	298
						10	410	239
						12	480	200
DW3000 NG-NPL	2 x 1500 HP	3660	3000	151,760	1.375 x 1.5	8	384	355
						10	480	284
						12	576	237

* Max. Single Line Pull is Motor Capacity Limited Calculated for Drawworks Duty of the Motors NG – NPL New Generation Drawworks, Non-Permit Load

** Max. Single Line Pull is Line Capacity Limited

Additional Specifications

- **Gearbox:** 1 Speed
- **Brakes:** Disc Caliper, Water-Cooled or Air-Cooled Friction Brakes
- **Drum Size:** 29.5 in x 57 in
- **Disc/Rotator Diameter:** 19 in x 1.125 in



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