

Blast Hole
Drill Series

C-700-D



Engineered like no other drill in the world.

 **REICHdrill**[®]

C-700-D

RATED CAPACITY:

Rated capacity is for 6 in. to 9 in. (152 mm to 229 mm) using rotary or down-the-hole hammer drilling for depths up to 174 ft. (53 m).

STANDARD MOUNTING:

Standard mounting for the C-700-D is a heavy-duty, REICHdrill® Series 345, 23.5 in. (600 mm) wide Triple Grouser Type with 3 point oscillating suspension and a two speed hydraulically driven tram.

PULLDOWN SYSTEM:

Up to 60,000 lb. (27,216 kg) bit loading capacity with a maximum of rated pull-down of 50,000 lb. (22,680 kg), 30,000 lb. (13,608 kg) hoist capacity. Maximum hoist rate 250 fpm (76 m/pm). Maximum feed rate 127 fpm (39 m/pm). REGEN option increases feed rate to 260 fpm (79 m/min). Chains: Two heavy duty roller chains 2 in. (51 mm) pitch. Stroke: 34 ft. (10.4 m) for 30 ft. (9.14 m) drill pipe. 12 in. (305 mm) table opening.

ROTARY HEAD:

Dual motor, 0 to 141 rpm at 114,390 lbs-in (12,926 Nm) torque. (Based on 100% efficiency). Equipped with nylon guide shoes. Optional speeds and torques available.

AIR COMPRESSOR:

1070 CFM (30.3 m³/min) @ 125 PSI (8.6 Bar) with an Air Pressure Regulator is standard. Synthetic PAO, ISO 32 compressor oil is provided. **Optional**—1300 CFM (37 m³/min) @ 125 PSI (8.6 Bar) with 580 HP (433 kW) Caterpillar C15 ACERT diesel engine; 1070 CFM (30.3m³/min) @ 375 PSI (25.8 Bar) with 580 HP (433 kW) Caterpillar C15 ACERT diesel engine; 1150 CFM (32.6 m³/min) @ 375 PSI (25.8 Bar) with 630 HP (470 kW) Caterpillar C18 ACERT diesel engine; 1360 CFM (38.5 m³/min) @ 375 PSI (25.8 Bar) with 800 HP (597 kW) Caterpillar C27 ACERT diesel engine.

POWER UNIT:

Caterpillar C15 ACERT diesel engine, rated 540 HP (403 kW) @ 1800 rpm with 630 gal. (1325 L) fuel capacity.

MAST:

Heavy duty structural steel mast with angular stress members and steel plated reinforcement at high stress areas, total length 40 ft. (12.2 m), raised and lowered by two 5.5 in. (140 mm) diameter hydraulic cylinders equipped with safety counterbalance valves. Hydraulic powered mast lock pins are provided as standard equipment. Extended mast option available.

LEVELING JACKS:

The C-700-D utilizes three (3) leveling jacks, 2 rear 5 in. (127 mm) bore x 48 in. (1.2 m) stroke, 1 front 6.5 in. (169 mm) bore x 48 in. (1.2 m) stroke with built-in safety checks.

DRILL PIPE HANDLING:

The standard C-700-D is equipped with a 4 + 1 hydraulic indexing barrel loader to handle 30 ft. (9.1 m) drill pipe, 5 in. (127 mm) to 7 in. (178 mm) diameter. Hydraulic breakout and power tong system are standard. Also included is a 2,200 lb. (998 kg) fixed-over-hole winch for pipe handling.

AIR FILTERS:

Individual heavy duty two stage dry type filters with a pre-cleaner for engine and compressor.

NIGHT LIGHTING:

Thirteen (13) shock mounted halogen flood lights for viewing upper mast, table, power unit and deck.

OPERATOR'S CAB:

Large isolated angled operator's cab and control station allows operator to face drill table. Air conditioning, sound abatement, and cab pressurization are provided as standard.

MISCELLANEOUS ITEMS:

- Combined Safety, Parts, and Operations Manual.
- 50 hour Maintenance Kit-includes hydraulic, compressor, and case drain filters.
- Cartridge style grease gun and safety kit are also provided.

APPROXIMATE WEIGHT & DIMENSIONS:

- Weight: 120,000 lbs (54,432 kg)
- Width: 12 ft. 6 in. (3.8 m)
- Height (mast down): 14 ft. 1 in. (4.3 m)
- Height (mast up): 46 ft. 6 in. (14.2 m)
- Length (mast down): 50 ft.6 in.(15.5 m)
- Length (mast up): 34 ft. (10.4 m)

OPTIONAL EQUIPMENT:

- Dual speed & torque rotary heads
- Compressor variable volume control
- 130oF (54oC) ambient cooler
- REICHdrill Angle Drill Package for 0° to 30° angle holes in 5° increments.
- 9 gpm (34 L/min) water injection
- NVE dust control system
- Drill efficiency indicator
- Engine heater for cold weather starts
- Pipe thread greaser
- Centralized lubrication
- Wiggins "Quick-Fill" Service Center
- Full and partial walkways
- Export lift kit
- Special or two-tone Paint
- Additional Halogen lighting
- Engine and compressor extended warranties

NOTICE

A word about this datasheet: Following publication of this catalog, certain changes in standard equipment, options, prices and the like, or production delays, may have occurred which would not be included in these pages. Consult REICHdrill® for up-to-date information.

Rated capacity is based upon engineering specifications and calculations. This capacity will vary according to drilling conditions.

We reserve the right to amend these specifications, prices and terms at any time without notice. The only warranty is our standard written warranty, REICHdrill® makes no other warranty expressed or implied and particularly makes no warranty of suitability for any particular purpose.



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