

Blast Hole  
Drill Series

# C-450-DII



Engineered like no other drill in the world

 **REICHdrill**®



# C-450-DII

## **RATED CAPACITY:**

Rated capacity is for 5 in. to 6.5 in. (127 mm to 165 mm) using rotary or down-the-hole hammer drilling for depths up to 78 ft. (23.8 m).

## **STANDARD MOUNTING:**

Standard mounting for the C-450-DII is a heavy-duty, REICHdrill® Series 320 17.7 in. (450 mm) wide Triple Grouser Type with 3 point oscillating suspension and a two speed hydraulically driven tram.

## **PULLDOWN SYSTEM:**

Up to 29,000 lb. (13,154 kg) bit loading capacity with a maximum rated pull-down of 24,000 lb. (10,886 kg), 13,250 lb. (6,011 kg) hoist capacity. Maximum hoist rate 332 fpm (104 m/pm). Maximum feed rate 184 fpm (57.5 m/pm). Chains: Single heavy duty roller chains 2 in. (51 mm) pitch. Stroke: 23 ft. (7 m) for 20 ft. (6.1 m) drill pipe. 10 in. (254 mm) table opening.

## **ROTARY HEAD:**

0 to 141 rpm at 60,055 lbs-in (6,786 Nm) torque. (Based on 100% efficiency). Equipped with nylon guide shoes.

## **AIR COMPRESSOR:**

750 CFM (21.3 m<sup>3</sup>/min) @ 125 PSI (8.6 Bar) with an Air Pressure Regulator is standard. Synthetic PAO, ISO 32 compressor oil is provided. Optional—900 CFM (25.5 m<sup>3</sup>/min) @ 350 PSI (24.1 Bar) with 475 HP (354 kW) Caterpillar C13 ACERT diesel engine.

## **POWER UNIT:**

Caterpillar C13 ACERT diesel engine, rated 440 HP (328 kW) @ 1800 rpm with 250 gallon (946 L) fuel capacity.

## **MAST:**

Heavy duty 10 in. (254 mm) wide flange steel beam mast, total length 33.5 ft. (10.2 m), raised and lowered by one 5.5 in. (140 mm) diameter hydraulic cylinder equipped with safety counterbalance valves. Hydraulic powered mast lock pins are provided as standard equipment.

## **LEVELING JACKS:**

The C-450-DII utilizes three (3) leveling jacks, all 36 in. (914 mm) stroke, with built-in safety checks. All jacks are 5 in. (127 mm) diameter bore.

## **DRILL PIPE HANDLING:**

The standard C-450-DII is equipped with a 3 + 1 hydraulic indexing barrel loader to handle 20 ft. (6.1 m) drill pipe, 3.5 in. (89 mm) to 4.5 in. (114 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:**

Seven (7) shock mounted halogen flood lights for viewing upper mast, table, power unit and deck.

## **OPERATOR'S CAB:**

Isolated operator's cab and control station, 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: 49,000 lbs. (22,226 kg)
- Width: 8 ft. 3 in. (2.5 m)
- Height (mast down): 11 ft. 6 in. (3.5 m)
- Height (mast up): 36 ft. 6 in. (11.2 m)
- Length (mast down): 35 ft. 3 in. (10.8 m)
- Length (mast up): 28 ft. (8.5 m)

## **OPTIONAL EQUIPMENT:**

- Dual speed and 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
- 3.5 in (88.9 mm) or 4.5 in (114.3 mm) diameter pipe available. (Barrel loader capacity dependent upon pipe diameter - CONTACT FACTORY)
- Drill efficiency indicator
- Engine heater for cold weather starts
- Pipe thread greaser
- Centralized lubrication
- Wiggins "Quick-Fill" Service Center
- 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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