

GEFCO★50K

T O P H E A D D R I V E D R I L L I N G R I G

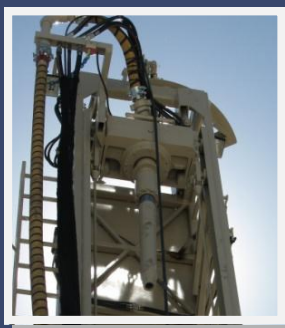


GEFCO 50K

The **GEFCO 50K**, has all the benefits of the GEFCO 30K with more capacity. With 50,000 lbs. of top head hoist, a wider mast and table this drill can handle large casing loads associated with shallow municipal water wells and deep residential water wells with ease.

SPECIFICATIONS

New Kenworth T-800 6 x 4 with a Cummins ISX Export diesel engine rated at 550 HP. Front axle rated 22,000 lbs and Rear axles rated at 46,000 lbs. Heavy duty reinforced truck frame, One (1) 75 gallon fuel tank and one (1) 100 gallon fuel tank.



TOPHEAD ROTARY:

Hydrostatically powered tophead rotary with an infinitely controlled rotation speed of

0 to 120 RPM and a maximum torque of 70,000 in-lbs. (7,907 NM). Unit has a low torque mode, controlled from operator's station for use when spinning out in carousel. Air / fluid course is 2 11/16" (68.2 mm) dia. equipped with a floating sub to allow smooth drill pipe connecting. The stroke of the pulldown and holdback cylinder allows the head to travel 29 ft. (8.8 m) up and down the mast.



CONTROLS: All controls and gauges are located at the operator's station for easy access. All controls, valves and gauges are safety. Removable and lockable control panel.

REMOTE CONTROL JIB BOOM: Remote control jib boom operator's station for jib and winch functions.



CAROUSEL: Heavy-duty carousel (6.08 m) drill pipe mounted in derrick. Carousel storage in right rear corner of mast and manually controlled from working platform.

PTO, DRIVE: Enclosed steel gear box, with pressurized lubrication, filtration and cooling. The PTO intersects the truck driveline to enable the unit to be shifted to stationary or highway use. Includes four (4) hydraulic pump drive pads, and a clutch for engaging and disengaging the compressor.



MAST AND CROWN BLOCK: Constructed of square steel tubing and structural steel electrically welded. Equipped with cable sheaves and guide tracks for tophead rotary which allows tophead to retract off centerline of hole. Allows 35 ft. (10.6 m) working space above breakout table. Raised and lowered by two (2) hydraulic cylinders. Includes a hinge mounted hydraulic breakout cylinder mounted above breakout table.

MAIN JIB WINCH: Hydrostatically driven winch mounted on the mast for the purposes of tripping and pipe handling through the jib boom. Rated working capacity is 25,000 lbs. (11,340 kg) with single $\frac{3}{4}$ " (19 mm) line reeving and line speed of 202 FPM (61.4 MPM) on bare drum. Design allows for power-up or power-down.



PIPE LOADER: A single pipe loader is mounted on the right side of mast. Consists of a holding pod with hand wheel on bottom and a guide with safety latch on top. Unit swings from side of mast to center of hole for automatic line up with tophead.

PIPE SPINNER: Hydraulically powered pipe spinner for 4 $\frac{1}{2}$ " (114.3 mm) dia. flush joint pipe. Unit is swivel mounted above breakout table, so it can swing out of way. Easy, one-man operation. Can be used to spin in or out.



es are grouped at the left rear corner of the
e labeled for operator's convenience and
l panel cover is provided.

I: Independent controls located opposite
tions.

holds six (6) pieces of 4 $\frac{1}{2}$ " OD x 20 ft.
Carousel is hydraulically controlled for
d centerline up with tophead. Indexing is
orms.



PULLDOWN/HOLDBACK: The pulldown holdback system powers the tophead rotary in either the pulldown mode or the holdback mode through the use of heavy-duty cables and a 6-1/2" (165 mm) hydraulic cylinder. Pulldown mode provides 25,000 lb. (11,340 kg) with a feed rate up to 94 FPM (28.6 MPM). Holdback mode provides 50,000 lb. (22,680kg) with a pull out rate up to 106 FPM (30.4 MPM).



An Astec Industries Co.

TOP HEAD DRIVE DRILLING RIG

SPECIFICATIONS

MOUNTING

6 x 4 Truck, 550HP diesel engine, 68,000 lbs (30,845 kgs) GWVR.

MAST

35 ft (10.7 M) height above breakout table.

TOPHEAD

5,833 ft/lbs (7,909 Nm) of torque. 0-120 RPM. 2 11/16 in (68.2 mm) diameter opening through quill. 29 ft (8.8 M) of travel.

PULLDOWN/HOLDBACK

Pulldown capacity up to 25,000 lbs (11,340 kgs). Holdback capacity up to 50,000 lbs (22,680 kgs).

HYDRAULIC HOISTING DRUM

Standard 25,000 lbs winch over jib boom. Optional 2-part winch through crown block rated for 50,000 lbs (22,680 kg) with 4,000 lb (1,814 kg) pipe handling through the jib boom.

LEVELING JACKS

Hydraulic leveling jacks; two (2) 48 in (1219 mm) stroke front jacks located behind truck cab. Two (2) 36 in (914 mm) stroke rear jacks.

AIR COMPRESSOR

2-Stage twin screw 1,000 CFM @ 350 PSI (28.2m³min/24.1 bar). Equipped with clutch.

BREAKOUT TABLE

Retracts hydraulically to provide 18 in (457 mm) opening in frame. Sliding holding wrench to hold pipe.

WATER INJECTION

18 GPM (68 LMP) standard. 25 GPM (94LPM) pump optional.

LUBRICATOR

Seven (7) gallon (26.5 L) capacity, electrically controlled. Maximum displacement 3 qts/hr (2.8 L/hr).

CAROUSEL

Six (6) pod carousel for 4 1/2 in x 20 ft (114 mm x 6.1 M) or 3 1/2 in x 20 ft (88.9 mm x 6.1 M) drill pipe. (Pipe included).

PIPE LOADER

Single pipe loader for 4 1/2 in x 20 ft (114 mm x 6.1M) or 3 1/2 in x 20 ft (88.9 mm x 6.1M) drill pipe.

PIPE SPINNER

Hydraulically powered spinner for spinning pipe in or out.

BREAKOUT WRENCH

Modified 60 in (1.5 M) pipe wrench hydraulically controlled.

PIPE CARRYING RACK

Mounted on the right side of the frame. Maximum capacity of 15 pieces of 4 1/2 in x 20 ft (114 mm x 6.1 M) drill pipe, or 18 pieces of 3 1/2 in x 20 ft (88.9 mm x 6.1 M) drill pipe, total pipe capacity.

REMOTE JIB CONTROLS

Independent controls located opposite driller's side for jib and winch functions.

WEIGHT AND DIMENSIONS

Length: 35 ft 6 in (10.8 M). Width: 8 ft 6 in (2.6 M). Height: 13 ft 3 in (3.8 M)
Approximate weight: 56,000 lbs (25,401 kgs) Based on options.

POPULAR OPTIONS

MUD PUMPS

Choose from 5 x 6 piston pump, 4 x 3 centrifugal pump.

AUXILIARY WINCHES

Tool handling winches available.

ENGINE HEATER

40,000 BTU Engine heater.

CASING HAMMER

Hydraulic or air operated casing hammer package.

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