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QUALITY
DRILLING
EQUIPMENT

LEGEND DRILL SERIES

T-650-W

LEGEND 4



ENGINEERED LIKE NO OTHER DRILL IN THE WORLD.

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LEGEND DRILL SERIES T-650-W LEGEND 4

The T-650-W LEGEND 4 drills holes up to 8.75 in. (223 mm) in diameter with a full 55,000 lbs. hoist capacity.

RATED CAPACITY:

Rated capacity is for 5 in. to 8.75 in. (127 mm to 223 mm) using down-the-hole hammer drilling. Maximum depth varies depending on hole diameter, formation, and equipment selected.

STANDARD MOUNTING:

Standard mounting for the T-650-W LEGEND 4 is a heavy-duty, three axle truck with 20,000 lb. (9,072 kg) front, 46,000 lb. (20,865 kg) rear axles, and 505 HP (373 kW) diesel engine, and 10 speed transmission. 23,000 lbs (10,433 kg) front axle may be required for casing hammer applications.

HOIST & PULLDOWN SYSTEM:

Maximum rated hoisting capacity of 55,000 lbs. (24,948 kg), 27,000 lbs. (12,247 kg) pulldown. Maximum hoist rate of 92 fpm (28 mpm) REGEN option increases hoist rate to 143 fpm (44 mpm). Maximum feed rate is 165 fpm (45 mpm). Chain: Two heavy duty #160HS hoist chains and two #140HS feed chains are provided. Stroke: 28 ft. (8.5 m) for 20 ft. (6.1 m) drill pipe. 22 in. (559 mm) table opening.

ROTARY HEAD:

0 to 108 rpm at 85,795 lbs-in (9,695 Nm) torque. (Based on 100% efficiency). Equipped with nylon guide shoes. Optional speeds and torques available.

AIR COMPRESSOR:

900 CFM (25.5 m³/min) @ 350 PSI (24 Bar) with an Air Pressure Regulator is standard. Synthetic PAO, ISO 32 compressor oil is provided. Optional: 1000 CFM (28.3 m³/min) @ 350 PSI (24.1 Bar) with 540 HP (403 kW) Caterpillar C15 ACERT diesel engine: 1070 CFM (30.3 m³/min) @ 375 PSI (25.8 Bar) with 580 HP (433 kW) Caterpillar C15 ACERT diesel engine.

POWER UNIT:

Caterpillar C15 ACERT diesel engine, rated 540 HP (403 kW) @1800 rpm with 175 gal. (662 L) fuel capacity.

MAST:

Heavy duty structural steel mast with angular stress members and steel-plated reinforcement at high stress areas, total length 34 ft. (10.4 m) for 28 ft. (8.5 m) stroke, and is raised and lowered by two 5.5 in. (140 mm) diameter hydraulic cylinders equipped with safety counterbalance valves.

LEVELING JACKS:

The T-650-W LEGEND 4 utilizes three (3) leveling jacks with 7 in. (178 mm) jack support boots and integral safety check valves. 2 rear jacks are 5 in. (127 mm) bore x 36 in. (914 mm), single front jack is 5 in. (127 mm) bore x 48 in. (1.2 m) stroke.

PIPE RACK:

For carrying 18 pieces of 4 in. (102 mm) or 15 pieces of 4.5 in. (114 mm) drill pipe.

AIR FILTERS:

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

NIGHT LIGHTING:

Four (4) shock mounted halogen flood lights for viewing deck, mast, and drilling areas.

DRILL PIPE HANDLING:

The T-650-W LEGEND 4 is standard equipped with a 9 pod loader for 4 in. (102 mm) or 4.5 in. (114 mm) x 20 ft. (6.1 m) pin up REICHdrill style drill pipe. Loader is equipped with hydraulic indexing and auto lock feature. An air operated holding wrench with hydraulic lift and a hydraulic breakout wrench are also provided. An 8,500 lb. (3,855 kg) hydraulic winch, with a 270° hydraulic swing and extendable jib boom is included. A wireless radio remote is provided to aid in drill pipe handling to control the functions of jib swing, retract & extend, winch up & 2 speed down, and loader index.

OPERATOR'S STATION:

Mounted on the right rear side of the drill and ergonomically designed for maximum efficiency. All drilling controls and operational gauges are located in this area. An operator's platform is also included. The T-650-W LEGEND 4 control system utilizes pressure compensated, load sensing rotation and rapid/feed control valves. Direction and flow are controlled by one lever. Isolated water injection and winch controls are included.

MISCELLANEOUS ITEMS:

- Combined Safety, Parts, and Operations Manual CD.
- 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:** 60,000 lbs. (27,216 kg)
- Width:** 8 ft. 3 in. (2.5 m)
- Height (mast down):** 13 ft. 6 in. (4.1 m)
- Height (mast up):** 40 ft. 6 in. (12.3 m)
- Length (mast down):** 38 ft. 6 in. (11.7 m)
- Length (mast up):** 36 ft. (11 m)

OPTIONAL EQUIPMENT

- Dual speed & torque rotary head
- Compressor variable volume control
- Four leveling jack system
- 9 gpm (34 L/min), 20 gpm (76 L/min), and 25 gpm (95 L/min) water injection
- Air line lubricator-8 gal. (30.3 L)
- Auxiliary blowdown controls
- Engine heater for cold weather starts
- Cribbing rack
- Auxiliary fuel or water tank
- Carousel mounted stabilizer holder
- Hanger tube mounted stabilizer holder
- Hammer holder (s)
- Upgraded LED lighting
- Vandal cover
- Engine and compressor extended warranties

**Drill shown on front may have optional equipment*

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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.