



**reichdrill**  
EUROFORGROUP

QUALITY  
DRILLING  
EQUIPMENT

**LEGEND DRILL SERIES**

**T-650-W**

**LEGEND 3**

**ENGINEERED LIKE NO OTHER DRILL IN THE WORLD.**

REICHdrill® • 99 TROY HAWK RUN HWY. • PHILIPSBURG, PA 16866 • P: 814-342-5500 • F: 814-342-1135  
[www.reichdrill.com](http://www.reichdrill.com)

# LEGEND DRILL SERIES T-650-W

## LEGEND 3

The T-650-W Legend 3 is the perfect size for easy transport and has proven reliability.

### RATED CAPACITY:

Rated capacity is for 4.5 in. to 8 in. (114 mm to 204 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 3 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.

### HOIST & PULLDOWN SYSTEM:

Maximum rated hoisting capacity of 28,000 lbs. (12,700 kg), 15,500 lbs. (7,030 kg) pulldown. Maximum hoist rate of 237 fpm (72 mpm). Maximum feed rate 275 fpm (84 mpm). Chain: Single heavy duty roller chain 1.75 in. (44 mm) pitch. Stroke: 24 ft. (7.3 m) for 20 ft. (6.1 m) drill pipe. Optional 28 ft. (8.7 m) stroke available. 16 in. (406mm) table opening.

### ROTARY HEAD:

0 to 103 rpm at 59,975 lbs-in(6,777 Nm) torque. (Based on 100% efficiency). Equipped with nylon guide shoes. Optional speeds and torques available.

### AIR COMPRESSOR:

900 CFM (25.5 m<sup>3</sup>/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 m<sup>3</sup>/min) @ 350 PSI (24.1 Bar) with 540 HP (403 kW) Caterpillar C15 ACERT diesel engine; 1070 CFM (30.3 m<sup>3</sup>/min) @ 375 PSI (25.8 Bar) with 580 HP (433 kW) Caterpillar C15 ACERT diesel engine.

### POWER UNIT:

Caterpillar C13 ACERT diesel engine, rated 475 HP (354 kW) @1800 rpm with 175 gal. (662 L) fuel capacity.

### MAST:

Heavy duty 10 in. (254 mm) wide flange steel beam mast, total length 30.5 ft. (9.3 m) for 24 ft. (7.3 m) stroke, and is raised and lowered by two 4.5 in. (114 mm) diameter hydraulic cylinders equipped with safety counterbalance valves. An optional mast for 28 ft. (8.6 m) stroke is available.

### LEVELING JACKS:

The T-650-W LEGEND 3 utilizes three (3) leveling jacks with integral safety check valves. 2 rear jacks are 4 in. (102 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 24 pieces of 3.5 in. (89 mm) or 18 pieces of 4 in. (102 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 3 is standard equipped with a 7 pod loader for 3.5 in. (89 mm) x 20 ft. (6.1 m) pin down REICHdrill PD style drill pipe. Loader is equipped with hydraulic indexing and auto lock feature. A hydraulically 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. Optional 6 pod loader for 4 in. (102 mm) x 20 ft. (6.1 m) pin up REICHdrill style drill pipe is available.

### 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 3 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:** 52,000 lbs. (23,587 kg)

**Width:** 8 ft. 3 in. (2.5 m)

**Height (mast down):** 13 ft. 4 in. (4.1 m)

**Height (mast up):** 36 ft. 11 in. (11.3 m), 24 ft. (7.3 m) stroke mast.

**Height (mast up):** 40 ft. 11 in. (12.5 m), 28 ft. (8.7 m) stroke mast.

**Length (mast down):** 32 ft.5 in. (9.8 m) 24 ft. (7.3 m) stroke mast.

**Length (mast down):** 36 ft.5 in. (11.1 m) 28 ft. (8.7 m) stroke mast.

**Length (mast up):** 32 ft. 3 in. (9.8 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*

*Revised 9-14 62071*

**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.

