Two rotary head options: High Torque. High Speed.
- High Torque – Maximum torque 11,420 ft-lb \([15,483 \text{ Nm}]\) with a maximum 672 rpm
- High Speed – 960 rpm with a maximum torque of 7,990 ft-lbs \([10,832 \text{ Nm}]\)
- Retract Force: 30,000 lbs \([13,608 \text{ kg}]\)
- Pulldown Force: 20,000 lbs \([9,072 \text{ kg}]\)
**Hydraulic Feed System**

- **Pulldown force:** 20,000 lbs [9,072 kg]
- **Retract force:** 30,000 lbs [13,608 kg]
- **Feed speed, down:** 62 ft/min [18.8 m/min]
- **Feed speed, retract:** 41 ft/min [12.4 m/min], Rapid: 80 ft/min [24.3 m/min]
- **Feed stroke:** 6 ft [1.83 m]

**Power Unit**

- **Diesel Engine:** John Deere Tier 3, 125 HP (93 kW) or Deutz Tier 3, 116 hp (86.5 Kw)
- **Engines include:** 12V starting circuit, electronic engine module installed in the operators control panel, 40 gallon (151 l) fuel tank with lock, lockable battery box, cold weather starting package.

**Right Angle Drive**

Single speed heavy duty right angle drive with tapered roller bearings and a ring gear and pinion. All bearings and gears are lubricated through an oil bath. 2 in. [50.8 mm] hardened output shaft with flex chain coupling to a 1-3/4 in. sq. [44.5 mm] kelly bar.

**Drill Head Rotary**

- Total enclosed “dry box” with tapered roller bearings.
- 1-3/4 in. [44.5 mm] heat treated alloy steel kelly drive bar.
- 3-1/4 in. [82.6 mm] 1D hollow spindle

**Maximum torque and Maximum rpm (engine specific):**

**HIGH TORQUE OPTION**
- **John Deere** - 1st gear: 11,420 ft-lb [15,483 Nm] 6th gear: 672 rpm
- **Deutz** - 1st gear: 8,880 ft-lb [12,039 Nm] 6th gear: 644 rpm

**HIGH SPEED OPTION**
- **John Deere** - 1st gear: 8,000 ft-lb [10,832 Nm] 6th gear: 960 rpm
- **Deutz** - 1st gear: 6,210 ft-lb [8,420 Nm] 6th gear: 920 rpm

**SPT Automatic Hammer**

ASTM D-1586 standards, standard duty and heavy duty
- **140 lb [63.5 kg]**
- **170 lb [77.1 kg]**
- **300 lb [136.1 kg]**
- **340 lb [154.2 kg]** slugs available

Hydraulic self compensating

**Leveling Jacks**

Single front/dual rear, 36 in [914.4 mm] stroke

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**Estimated Operating Capacities**

- **Hollow stem augers:** 4-1/4 in [108 mm] ID: 250 ft [76 m]
- **Continuous flight auger:** 6 in [152.4 mm] OD: 300 ft [91 m]
- **Rotary drilling, NWJ/NW drill rod with 5 in [127 mm] OD bit:** 1,500 ft [457 m]

- **Diamond core drilling:**
  - N wireline: 1,600 ft [487 m]
  - H wireline: 1,100 ft [335 m]
  - P wireline: 730 ft [222 m]

**Hoist**

**MAIN—SINGLE LINE CAPACITY:** 8,500 lbs [3,855.54 kg]
- **Line speed:** 0-75 ft/min [0-22.9 m/min], 0-325 ft/min [0-99.1 m/min] reverse
- **Cable diameter:** 1/2 in (.500) [12.7 mm]
- **Cable length:** 100 ft [30.48 m]

**AUXILIARY—SINGLE LINE CAPACITY:** 4,500 lbs [2,041.17 kg]
- **Line speed:** 0-135 ft/min [41.2 m/min]
- **Cable diameter:** 5/16 in (.325) [8.26 mm]
- **Cable length:** 100 ft [30.5 m] standard

**SAFE-T DRIVER HOIST:** 900 lbs [408.2 kg]
- **Line speed:** variable up, freefall down
- **Cable diameter:** 1/4 in (.250) [6.4 mm]
- **Cable length:** 300 ft [91.4 m] standard

**WIRE LINE HOISTS - A WIDE VARIETY ARE AVAILABLE**

Line capacities from 700 ft [213 m] to 7,500 ft [2,286 m]

**Optional Equipment**

- **Mast:** 20 ft [6 m], 25 ft [7.6 m], or 30 ft [9.1 m]
- **In-out slide base/Side-to-side slide base**
- **Rod clamp, manually positioned, 1-5/8” [41.3 mm] through 8-1/4” [209.6 mm]**
- **Rod clamp, hydraulically positioned, 1-3/8” [34.9 mm] through 5-7/8” [149.2 mm]**
- **Drive tool quick change adapters**
- **Wide selection of auger/rod racks**
- **2” [50.8 mm] Standpipe**
- **Water pumps - piston, centrifugal and progressive cavity**
- **Hydraulic chuck - various sizes**
- **Break-out wrench, hydraulic activated**
- **Driller/helper platforms**
- **Safety Cage options**
- **Night Lights**

**Mounting Options**

- Truck, trailer, track carrier

**Note:** Above drilling capacities may vary according to sub-surface conditions, hoist capacity and rotary head option.