Atlas Copco

T3W Water Well Drill Specifications

U.S. UNITS
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GENERAL

The T3W is a hydraulic, top-head-drive drill rig designed for waterwell and other applications requiring air or mud rotary, as well as down-hole hammer drilling methods. The drill is suitable for drilling 5 – 12 in. holes but can drill up to 20 in. and handle up to 19 in. diameter casing. The rig is factory mounted on a Navistar 7600 or Peterbilt 365 truck, but is also available as a deck module (less truck) for mounting on a suitable chassis of your choice.

POWER PACK - 900 CFM / 350 PSI

**Deck Engine**
Make: Caterpillar C15 – 475 hp @ 1800 RPM
Fuel Tank: 160 gal. made of aluminum

**Compressor**
Make: Ingersoll-Rand HR2.5
Type: Over/under screw
Volume: 900 CFM
Pressure Range: 120 to 350 psi
Power Source: Direct coupled to deck engine
Manifold: The air regulation system enables the operator to adjust air volume and air pressure.

POWER PACK – 1070 CFM / 350 PSI

**Deck Engine**
Make: Caterpillar C15 – 575 hp @ 1800 RPM
Fuel Tank: 160 gal. made of aluminum

**Compressor**
Make: Ingersoll-Rand HR2.5
Type: Over/under screw
Volume: 1070 CFM
Pressure Range: 120 to 350 psi
Power Source: Drive from deck engine through standard in/out box
Manifold: The air regulation system enables the operator to adjust air volume and air pressure.

**Deck Engine Starting Aid (Optional)**
Diesel-fired coolant pre-heater with ether injection

HYDRAULIC SYSTEM

Tank Capacity: 100 gal.
Filtration: Hydraulic oil filtered through 3-micron elements

**Axial Piston Pumps**
Main pump: 96 GPM @ 4,750 psi
Fan pump: 40 GPM @ 3,000 psi
Auxiliary pump: 50 GPM @ 4,750 psi
Mud pump: 50 GPM @ 4,750 psi
Functions: Leveling jacks, retractable table, derrick raising cylinders, water injection, carousel, breakout wrench, fast feed, drawworks, hydraulic cooling fan, drill feed (pullback/pulldown), jib boom, auxiliary hoist

**Axial Piston Pump, Top-head Rotation**
Standard Rotary Head: 79 GPM @ 4,500 psi

COOLING PACKAGE

The 5-section cooling package is designed to cool the hydraulic oil, compressor oil, engine fuel, engine coolant and turbo-charged air.

**Hydraulic Fan Drive:** On-demand technology to run fan at minimum speed to maintain optimum temperature on all fluids.
**Fan Size:** 54 in. diameter, suction type
**Cooling Capacity:** Rated at 125°F ambient at sea level
DERRICK

Construction: Welded cold-finished rectangular-steel tubing  
Structural Capacity: 45,000 lbs.  
Main Cord Length: 35 ft. 6 in.  
Width: 36 in.  
Depth: 28 in.  
Head Travel: 27 ft. 4 in.  
Maximum Working Clearance: 37 ft. 5 in. from hoist line hook to top of table; 29 ft. 2 in. from bottom of rotary head spindle to the table with the head at the top of the derrick.

FEED SYSTEM

The T3W uses a single-cylinder, cable-feed system. The feed cylinder is connected to the head with pre-stretched cables to transmit pullback and pulldown. Long cable and sheave life is ensured by using 24 ½ in. nylon-composite sheaves with a D:d ratio of 28:1 between sheave and 7/8 in. cable.  
Hydraulic Cylinder: Single 5 in. x 3 ½ in. bore; 165 in. stroke  
Cable diameter: 7/8 in.  
Sheave diameter: 24 ½ in.  
Drill Feed Rate: 20 ft./min.  
Fast Feed Rate Down: 150 ft./min.  
Fast Feed Rate Up: 150 ft./min.  
Pulldown Capacity: 25,000 lbs. depending on truck weight  
Pullback Capacity: 40,000 lbs.

ROTARY HEAD OPTIONS

Type: Four-motor, spur-gear, rotary top-head  
Piping/Swivel: 3 in. air piping with 3 in. ID spindle  
a) 5,500 ft.-lbs. @ 145 RPM single-speed rotary head - standard  
b) 5,500 ft.-lbs. @ 145 RPM and 4,000 ft.-lbs. @ 195 RPM two-speed rotary head  
c) 6,250 ft.-lbs. @ 134 RPM single-speed rotary head  
d) 6,250 ft.-lbs. @ 134 RPM and 4,650 ft.-lbs. @ 180 RPM two-speed rotary head  
e) 8,000 ft.-lbs. @ 105 RPM single-speed rotary head  
f) 8,000 ft.-lbs. @ 105 RPM and 5,500 ft.-lbs. @ 145 RPM two-speed rotary head

TORQUE LIMIT CONTROL

Standard console-mounted control to adjust rotary head torque.

RETRACTABLE TABLE

Retracted by one 3 ½ in. bore x 10 in. stroke hydraulic cylinder.  
Table Opening: Full 20 in. diameter in the closed position with bushings removed. Depending on carousel option, either 15 in. or 20 in. clearance up the derrick.  
Table Base: Consists of two half plates. The rear half retracts and the front half is hinged to swing out to enable handling of large tools or casing.  
Holding Wrench: An air-operated wrench that fits the drill pipe flats is standard.
CAROUSEL

Contained in the derrick in a fixed position; rotated by hydraulic motor in both directions from the console. Rotary head retracts to load/unload the drill pipe. Depending on carousel diameter either 15 in. or 20 in. opening along the tower is available.

Capacity:

- Nine – 3 ½ in. x 20 ft. pipe – at max 14 in. casing
- *Seven – 3 ½ in. x 20 ft. pipe – at max 19 in. casing
- Seven – 4 ½ in. x 20 ft. pipe – at max 14 in. casing
- *Six – 4 ½ in. x 20 ft. pipe – at max 19 in. casing
- *Allows access to full 20 in. opening up derrick

Dual Wall Carousel: Six 4 ¾ in. x 20 ft. pipe / 4 ½ in. spindle

PIPE RACK

Mounted on the left side of the deck, this storage rack holds sixteen 3 ½ in. x 20 ft. drill pipe or twelve 4 ½ in. x 20 ft. drill pipe. A pipe slide is included as standard equipment. Standoff ribs at the end of the pipe rack allow for convenient use of the sling and hook.

BREAKOUT WRENCH

Hydraulic Cylinder: 3 ½ in. bore x 10 in. stroke; 1 ½ in. rod diameter hydraulic cylinder. The cylinder operates a self-adjusting, cam-action breakout wrench that is included with the standard rig and is suitable for 3 ½ in. and 4 ½ in. OD diameter drill pipe.

DRILL PIPE

a) 4 ½ in. OD x 20 ft. long
   - 2 ¾ in. API IF box up/pin down connections (standard)
   - 3 ½ in. API regular box up/pin down connections (optional)
   - 3 ½ in. wrench flats on box end
   - Weight is approximately 345 lbs.

b) 3 ½ in. OD x 20 ft. long
   - 2 ¾ in. API IF box up/pin down connections
   - 2 ¾ in. wrench flats on box end

Pipe Spinner (Optional)
For attaching/detaching drill pipe. Hydraulic motor/pneumatic cylinder design.

Pipe Size: 3 ½ in. 4 ½ in.
Torque: 80 ft.-lbs. 80 ft.-lbs.
Speed: 395 RPM 395 RPM
Range: 3 ½ in. – 3 ½ in. 4 ½ in. – 4 ½ in.

Single Pipe Loader (Optional)
For loading 3 ½ in. x 20 ft. or 4 ½ in. x 20 ft. pipe.
Facilitates pipe handling after the carousel is empty.

Floating Spindle Sub (Optional)
This sub has the function of reducing the DTH hammer shock and vibration.
The floating spindle sub offers 2 ½ in. float (extension).
DRAWWORKS

Standard Drawworks
Lifting Capacity: 18,000 lbs. single line, bare drum (over centerline only)
Speed Up/Down: 165 ft./min. single line, bare drum
Jib Boom: Swings and extends hydraulically so that it can be positioned over the hole or over the pipe rack.
Supplied with 150 ft. of ½ in. rotation resistant cable and a 20-ton rod hook.
Controls on operator’s and helper’s sides. Simultaneous drawworks and fast feed operation is possible.

Optional Drawworks
Lifting Capacity: 30,000 lbs. single line, bare drum (over centerline only)
Speed Up/Down: 120 ft./min. single line, bare drum
Jib Boom: Swings and extends hydraulically so that it can be positioned over the hole or over the pipe rack.
Supplied with 150 ft. of ¾ in. rotation resistant cable and a 20-ton rod hook.
Controls on operator’s and helper’s sides. Simultaneous drawworks and fast feed operation is possible.

OPTIONAL HOIST SELECTIONS

Auxiliary Hoist
Lifting Capacity: 3,900 lbs. average capacity
Speed Up/Down: 220 ft./min. – average speed, no free fall
Cable Capacity: 120 ft. x ⅜ in.
Mounted on back of derrick for handling casing, drill pipe and tools. This option includes a reel control on the helper’s side. (The auxiliary hoist is not available with sand reel.)

Sand Reel
Lifting Capacity: 3,000 lbs. average capacity (2,250 lbs. full drum capacity)
Speed Up/Down: 300 ft./min. – average speed, no free fall
Cable Capacity: 1,500 ft. x ⅜ in.
Mounted on the lower rear of the derrick for handling of survey tools, casing, drill pipe and tools.
Carries more cable for bailing or setting screens. This option includes a control on the helper’s side. (The sand reel is not available with auxiliary hoist.)

CONSOLE AND PLATFORM

All drilling operations are controlled from the operator’s console located at the right rear of the rig. The slim profile and quick-opening side panels provide easy access for maintenance and service. An aluminum console cover is standard. The operator and helper work on large, heavy-duty steel mesh platforms that fold up for transport. A steel insert drops in between the two platforms, converting the separate platforms into one continuous surface. An optional aluminum platform is available.

LEVELING JACKS

All truck-mounted or modular T3W’s are supported with four hydraulic jacks
Drill End: Two 5 ¾ in. bore x 36 in. stroke jacks with 18 in. jack pads
Non Drill End: Two 5 ¼ in. bore x 48 in. stroke jacks with 18 in. jack pads, mounted behind the cab

WATER INJECTION SYSTEMS

The T3W can be configured with various water injection packages, all operating at 550 psi maximum pressure.
The following options are available:

1. Cat Piston Pump Capacity: 0 to 12 GPM (supplied with pulse pump for foam injection)
2. Bean Piston Pump Capacity: 0 to 18 GPM
3. Cat Piston Pump Capacity: 0 to 25 GPM (supplied with pulse pump for foam injection)
4. Bean Piston Pump Capacity: 0 to 25 GPM
5. FMC Piston Pump Capacity: 0 to 35 GPM (with capacity to operate at up to 1,000 psi)
MUD PUMPS

The T3W can be configured with various on-board mud pump packages, all of which are supplied with suction hose and foot valve/strainer. The following options are available:

a) Hydraulic components, controls and piping to operate an off-board hydraulic powered 5 in. x 6 in. or 5 ½ in. x 8 in. mud pump.
   A quick disconnect manifold with hydraulic filter is included on the rig.

b) 3 in. x 4 in. Mission centrifugal mud pump mounted in vertical position near the mid jack, driller’s side
   Flow and pressure: 150 GPM @ 310 psi

c) 5 in. x 6 in. Gardner Denver duplex piston pump, mounted between cab and deck
   Flow and pressure: 300 GPM @ 145 psi

d) 7 ½ in. x 10 in. Centerline mono pump mounted between cab and deck
   Flow and pressure: 150 GPM @ 350 psi

e) 7 ½ in. x 10 in. Centerline duplex pump, mounted between cab and deck
   Flow and pressure: 300 GPM @ 350 psi

Options c, d and e require extended chassis, 254 in. wheelbase

AIR PIPING SELECTION

a) Standard Air Piping – 3 in. with piping on top head 3 in. hanging and pivot hoses 2 in. stand pipe on deck
b) Optional – 2 ½ in. hanging and pivot hoses
c) Hi-Pressure Air Piping (option) – 3 in. with piping rated at 1500 psi
   This option includes a manifold with outlet for the on-board air to facilitate connection of external booster air as well as an electric blow-down valve.

Down Hole Hammer Lube Injection (Optional)
Capacity: 7 gal.
Flow Adjustment: Manually adjustable
The injection lubricator is mounted under the deck in front of the toolbox.

AUXILIARY AIR MANIFOLD

A 3 in. @ 1500 psi high pressure circulation piping system for use with an auxiliary compressor and/or booster compressor.
The high pressure (1500 psi) circulation piping option must be ordered to use this option.

STANDARD TOOLS AND ACCESSORIES INCLUDED WITH RIG

• Rod wiper
• Drill pipe centralizer bushings
• Road hazard kit
• Two maintenance/operator’s manuals
• Hoist plug for drill pipe
• Feed cable adjusting tool
• Pipe handling sling
• Two printed parts books, two parts books on CD

SHIPPING DIMENSIONS

*Weight: 56,500 lbs.
Width: 96 in.
Length, Derrick Down: 37 ft. 8 in.
Height, Derrick Down: 13.5 ft.
Height, Derrick Up: 43 ft. 1 in.
Derrick Dimensions: 28 in. x 36 in. x 34 ft.

*Weight for T3W mounted on Navistar 7600 6 x 4 with 1070 Compressor, no mud pump or rods, rig and truck fuel levels at half of tank and hydraulic fuel level at full tank.
TRUCK SPECIFICATIONS - NAVISTAR 7600, 6 x 4 (STANDARD)

Manufacturer: International Truck and Engine Corporation
GVWR: 68,000 lbs.
Chassis Weight: 17,000 lbs.

Dimensions:

<table>
<thead>
<tr>
<th></th>
<th>Standard W.B. 232&quot;</th>
<th>Extended W.B. 254&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheelbase</td>
<td>232 in.</td>
<td>254 in.</td>
</tr>
<tr>
<td>Overall Length</td>
<td>372 in.</td>
<td>382 in.</td>
</tr>
<tr>
<td>Cab to Rear Axle</td>
<td>169 in.</td>
<td>191 in.</td>
</tr>
<tr>
<td>Rear Axle to End of Frame</td>
<td>59 in.</td>
<td>59 in.</td>
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</tbody>
</table>

Engine: Caterpillar C13, 380 hp @ 2,100 RPM, electronic controls, 1,450 ft-lbs. torque, 50-state diesel engine fitted with Jacobs Brake
Frame: 10 ¼ in. C channel, heat-treated alloy steel
Cab: All-welded steel cab
Control System: International Diamond Logic electrical system – allows engine, transmission and panelo communicate electronically
Transmission: Fuller FRO-14210C, 10-speed with overdrive and air shift
Brakes: Dual air brake system, air cam operated, 16 ½ in. x 6 in. front, 16 ½ in. x 7 in. rear
Wheel Control: Air brake ABS, full vehicle wheel control system
Rear Axles: 46,000 lbs. Meritor RT-46-164EH, 4.89 gear ratio
Rear Suspension: Steel walking beam, Hendrickson RT2-460
Front Axle: 22,000 lbs. steel
Front Suspension: Parabolic tapered leaf springs with rubber auxiliary springs and shock absorbers
Front Wheels: Polished aluminum disk 22 ½ in., 10-stud, hub-piloted
Front Tires: 425/65R22.5 20-ply radial
Rear Wheels: Dual, 22.5 x 8.25 polished aluminum 10-stud, hub-piloted
Rear Tires: 11R22.5 14-ply radial
Fuel Tank: 80 gal., D-style steel, LH under cab
Tandems: Driver-controlled, locking main differentials in both rear axles
Cab: Atlas Copco yellow paint, tilting fiberglass hood with 3-piece construction, conventional steel, tinted windows, digital display gauge cluster, air suspension high-back driver seat, breakaway mirrors, AM/FM radio with weather band, air conditioning
Cold Weather Start: 110-120V block heater

Dress-up Upgrade (Standard)
• Motorized right hand mirror
• Chrome exhaust
• Chrome bumper
• Aluminum wheels

Premium Cab Upgrade (Options)
• CD player
• Engine oil temp. gauge
• Heated chrome breakaway mirrors
• Power windows
• Eagle trim
• Power locks
• Rear axle temp. gauge
• Keyless remote entry
• Transmission oil temp. gauge

UPGRADES FOR STANDARD 7600
Fuller 908 LL transmission, 410 hp Paystar, 52,000 rear axles with DiffLock™ both rear axles - No spin Detroit lockers option available in forward rear axle

TRUCK SPECIFICATIONS - NAVISTAR PAYSTAR 5600i, 6 x 4 (STANDARD)

Manufacturer: International Truck and Engine Corporation
GVWR: 68,000 lbs.
Chassis Weight: 18,800 lbs.

Dimensions:

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Wheelbase</td>
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<tr>
<td>Overall Length</td>
</tr>
<tr>
<td>Cab to Rear Axle</td>
</tr>
<tr>
<td>Rear Axle to End of Frame</td>
</tr>
</tbody>
</table>

Engine: Caterpillar C13, 380 hp @ 2,100 RPM, electronic controls, 1,450 ft-lbs. torque, 50-state diesel engine fitted with Jacobs Brake
Frame: 12 ¼ in. full outer channel frame reinforcement
Cab: Riveted aluminum cab
Transmission: Fuller FRO-I4210C, manual 10-speed
Brakes: Air brakes with 13 CFM compressor minimum
Rear Axles: 46,000 lbs., Meritor RT 46-160, 4.89 gear ratio
Rear Suspension: Hendrickson RT2-460
Front Axle: 22,000 lbs.
Front Suspension: Multi-leaf
Front Wheels: Disk style
Front Tires: 425/65R22.5 20-ply radial
Rear Wheels: Disk style
Rear Tires: 11R22.5 14-ply radial
Fuel Tank: 100 gal., mounted on passenger side
Tandems: Driver-controlled, locking main differentials in both rear axles
Braking Assist: Jacobs Brake
Bumper: Chrome, heavy-gauge steel with integral jack and heavy-duty tow hook
Cold Weather Start: 110-120V block heater

UPGRADES ON NAVISTAR PAYSTAR 5600I
Fuller 908 LL transmission, 410 hp Paystar, 52,000 rear axles. DiffLock™ in rear-rear axle and no-spin Detroit lockers in the front-rear axle

Dress-up Upgrade (Standard)
• Motorized right hand mirror
• Chrome exhaust
• Chrome bumper
• Aluminum wheels

Premium Cab Upgrade (Options)
• CD player
• Engine oil temp. gauge
• Heated chrome breakaway power mirrors
• Power windows
• Eagle trim
• Power locks
• Rear axle temp. gauge
• Keyless remote entry
• Transmission oil temp. gauge

TRUCK SPECIFICATIONS - PETERBILT 365, 6 x 4 (OPTIONAL)

Manufacturer: Peterbilt Truck Corporation
GVWR: 68,000 lbs.
Dimensions:
  Wheelbase: 19 ft.4 in.
  Overall Length: 31 ft.
  Cab to Rear Axle: 15 ft. 5 in.
  Rear Axle to End of Frame: 59 in.
Engine: Caterpillar C-13, 350 hp @ 2,100 RPM, 420 hp @ 1,600 RPM
Frame: 11 ½ in. steel rails, steel crossmembers and ¾ in. rail thickness
Transmission: Fuller FRO-15210C, 10-speed
Brakes: CAT compression brake or C-Brake by Jacobs-ISM
Rear Axles: 46,000 lbs., Dana Spicer, D46-170P, 4.78 gear ratio
Rear Suspension: Hendrickson RT-463 46,000 lbs.
Front Axle: 22,000 lbs. Dana Spicer
Front Suspension: 23,000 lb. taper leaf with shocks
Front Wheels: 22.5x13 Alcoa aluminum
Front Tires: 425/65R22.5 20-ply
Rear Wheels: 22.5x8.25 Steel Wheels
Rear Tires: 11R22.5 M711, 14-ply
Fuel Tank: 100 gal. aluminum
Brake Assist: Jacobs Brake
Cab: Tinted glass, interior noise reduction package and A/C
Tandems: Differential lock, both axles
Cold Weather Start: 110 - 120V 1500 Watts Phillips block heater
## T3W - 232” CHASSIS WITH TRUCK
### SPECIFICATIONS

<table>
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<tr>
<th>DESCRIPTION</th>
<th>INCH</th>
<th>MM</th>
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<tbody>
<tr>
<td>A</td>
<td>Height - Overall, Tower Up</td>
<td>516.50</td>
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<tr>
<td>B</td>
<td>Length - Overall, Tower Up</td>
<td>398.00</td>
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<tr>
<td>C</td>
<td>Length - Overall, Tower Down</td>
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<tr>
<td>D</td>
<td>Width - Across Outside of Front Tires</td>
<td>94.00</td>
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<tr>
<td>E</td>
<td>Height - Jack Center to Jack Center</td>
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<tr>
<td>F</td>
<td>Height - Jack to Ground, Drill End</td>
<td>21.00</td>
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<td>G</td>
<td>Height - Mainframe to Ground</td>
<td>44.00</td>
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<tr>
<td>H</td>
<td>Height - Overall, Tower Down, Drill End</td>
<td>151.50</td>
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<tr>
<td>J</td>
<td>Width - Wheel Inside to Wheel Inside</td>
<td>46.00</td>
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<tr>
<td>K</td>
<td>Width - Mid-Jack Centers</td>
<td>47.00</td>
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<tr>
<td>L</td>
<td>Width - Rear Jacks Centers</td>
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<td>M</td>
<td>Width - Overall</td>
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<td>N</td>
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<td>O</td>
<td>Height - Ground to Cabin Top</td>
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<td>R</td>
<td>Height - Overall, Tower Down, Non-drill End</td>
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<td>T</td>
<td>Rotary Head Travel</td>
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<td>U</td>
<td>Cab Width</td>
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<td>V</td>
<td>Width - Mainframe, Drill End</td>
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<td>W</td>
<td>Width - Across Outside of Rear Tires</td>
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<td>Y</td>
<td>Length - Mainframe</td>
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<td>Z</td>
<td>Width - Tower, Crown</td>
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<td>AA</td>
<td>Height - Tower Side View</td>
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<tr>
<td>BB</td>
<td>Height - Mid-Jack to Ground</td>
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<td>Length - Front Bumper to Mid-Jack</td>
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<td>EE</td>
<td>Length - Tower Support Clevis to Tower Rear Edge</td>
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<td>FF</td>
<td>Length - Front Bumper to Tower Support Clevis</td>
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<td>Length - Tower, Side View</td>
<td>439.50</td>
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<td>JJ</td>
<td>Height - Ground to Cooler</td>
<td>139.00</td>
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<tr>
<td>PP</td>
<td>Width - Tower Edge to Hose Tray</td>
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<tr>
<td>QQ</td>
<td>Height - Ground to Drill Table</td>
<td>46.00</td>
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<tr>
<td>RR</td>
<td>Length - Rod Box</td>
<td>214.50</td>
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<tr>
<td>SS</td>
<td>Length - Between Centers of Rear Wheels</td>
<td>54.00</td>
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<tr>
<td>WW</td>
<td>Length - Wheelbase</td>
<td>232.00</td>
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### TURNING RADIUS DETAILS

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<thead>
<tr>
<th>DESCRIPTION</th>
<th>232” CHASSIS</th>
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<tbody>
<tr>
<td>TR1</td>
<td>Turning Radius - Center of Outside Tire</td>
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<tr>
<td>TR2</td>
<td>Turning Radius - Maximum Drill Clearence</td>
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<tr>
<td>A</td>
<td>30° Turn Angle</td>
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(TAPER NOT SHOWN FOR CLARITY)
### T3W - 254" CHASSIS WITH TRUCK

#### SPECIFICATIONS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>INCH</th>
<th>MM</th>
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<tbody>
<tr>
<td>A  Height - Overall, Tower Up</td>
<td>516.50</td>
<td>13119</td>
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<tr>
<td>B  Length - Overall, Tower Up</td>
<td>491.70</td>
<td>12603</td>
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<tr>
<td>C  Length - Overall, Tower Down</td>
<td>432.30</td>
<td>11003</td>
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<tr>
<td>D  Length - Jack Center to Jack Center</td>
<td>240.40</td>
<td>6119</td>
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<tr>
<td>E  Height - Mainframe to Ground</td>
<td>44.00</td>
<td>1118</td>
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<tr>
<td>F  Height - Overall, Tower Down, Drill End</td>
<td>151.20</td>
<td>3840</td>
</tr>
<tr>
<td>G  Width - Inside Rear Tires</td>
<td>47.90</td>
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<tr>
<td>H  Width - Mid-Jack Centers</td>
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<td>1144</td>
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<td>I  Width - Rear Jack Centers</td>
<td>80.50</td>
<td>2045</td>
</tr>
<tr>
<td>J  Height - Overall, Tower Down, at Crown</td>
<td>159.80</td>
<td>4059</td>
</tr>
<tr>
<td>K  Width - Mainframe, Drill End</td>
<td>330.00</td>
<td>8382</td>
</tr>
<tr>
<td>L  Length - Front Bumper to Mid-Jack</td>
<td>116.00</td>
<td>2946</td>
</tr>
<tr>
<td>M  Height - Ground to Cooler</td>
<td>95.50</td>
<td>2413</td>
</tr>
<tr>
<td>N  Width - Outside Rear Tires</td>
<td>96.20</td>
<td>2443</td>
</tr>
<tr>
<td>O  Width - Tower, Crown</td>
<td>51.50</td>
<td>1308</td>
</tr>
<tr>
<td>P  Depth - Tower Side View</td>
<td>29.50</td>
<td>749</td>
</tr>
<tr>
<td>Q  Width - Tower Edge to Hose Tray</td>
<td>44.00</td>
<td>11176</td>
</tr>
<tr>
<td>R  Length - Tower Pin to Bottom of Tower</td>
<td>48.80</td>
<td>1240</td>
</tr>
<tr>
<td>S  Length - Bumper to Tower Pin</td>
<td>358.80</td>
<td>9103</td>
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<tr>
<td>T  Length - Tower, Side View</td>
<td>2446</td>
<td></td>
</tr>
<tr>
<td>U  Rotary Head Travel</td>
<td>95.50</td>
<td>2413</td>
</tr>
<tr>
<td>V  Width - Mainframe, drill End</td>
<td>95.50</td>
<td>2413</td>
</tr>
<tr>
<td>W  Width - Outside Front Tires</td>
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<tr>
<td>X  Height - Ground to Top of Cab</td>
<td>155.90</td>
<td>3959</td>
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<tr>
<td>Y  Length - Drill End to Tower Pin</td>
<td>42.80</td>
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<tr>
<td>Z  Length - Red Box</td>
<td>214.50</td>
<td>5448</td>
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<tr>
<td>AA Width - Tower, Crown</td>
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</tr>
<tr>
<td>BB Width - Outside Front Tires</td>
<td>96.20</td>
<td>2443</td>
</tr>
<tr>
<td>CC Depth - Tower Side View</td>
<td>29.50</td>
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</tr>
<tr>
<td>DD Width - Tower Edge to Hose Tray</td>
<td>44.00</td>
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<tr>
<td>EE Length - Tower Pin to Bottom of Tower</td>
<td>48.80</td>
<td>1240</td>
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<tr>
<td>FF Length - Bumper to Tower Pin</td>
<td>358.80</td>
<td>9103</td>
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<tr>
<td>GG Length - Tower, Side View</td>
<td>2446</td>
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<tr>
<td>HH Height - Ground to Cooler</td>
<td>155.90</td>
<td>3959</td>
</tr>
<tr>
<td>JJ Length - Red Box</td>
<td>214.50</td>
<td>5448</td>
</tr>
<tr>
<td>KK Width - Tower, Crown</td>
<td>51.50</td>
<td>1308</td>
</tr>
</tbody>
</table>

#### TURNING RADII DETAILS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>254&quot; CHASSIS</th>
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</thead>
<tbody>
<tr>
<td>TR1 Turning Radius - Center of Outside Tire</td>
<td>475.00</td>
</tr>
<tr>
<td>TR2 Turning Radius - Maximum Drill Clearance</td>
<td>460.00</td>
</tr>
<tr>
<td>A  30° Turn Angle</td>
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</tr>
</tbody>
</table>

(Tuner in vertical position)

(Cooler NOT shown for clarity)
# GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>T3W</th>
<th>Pullback Options</th>
<th>Feed System</th>
<th>Derrick</th>
<th>Standard Carrier</th>
<th>Drawworks</th>
<th>Rotary Head</th>
<th>Powerpack</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pullback – 40,000 lb</td>
<td>Single Cylinder, Cable Feed</td>
<td>Capacity: 45,000 lb</td>
<td>Standard – Navistar 7600, 6 x 4</td>
<td>Standard – 18,000 lbs.</td>
<td>Standard – 5,500 ft.-lbs. @ 145 RPM</td>
<td>Option 1 – 900 CFM @ 350 psi</td>
<td>Mud pumps</td>
</tr>
<tr>
<td></td>
<td>Pulldown – 25,000 lb</td>
<td>D:d Ratio 28:1, 24 ½ in. sheaves w/ ⅛ in. cable</td>
<td>Main Cord Length: 35 ft. 6 in.</td>
<td>Caterpillar C13 Diesel Engine</td>
<td>165 ft./min.</td>
<td>Two-Speed Rotary Head</td>
<td>– Caterpillar C15 diesel engine, 475 hp @ 1800 RPM</td>
<td>Floating-spindle hub</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Drill Feed Rate: 20 ft./min.</td>
<td>Head Travel: 27 ft. 4 in.</td>
<td>380 hp @ 2100 RPM</td>
<td>Optional – 30,000 lbs.</td>
<td>(Second Speed) 4,000 ft.-lbs. @ 195 RPM</td>
<td>120 to 350 psi, optional in/out compressor disconnect</td>
<td>6 x 6 Heavy-duty trucks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fast Feed Up/Down: 150 ft./min.</td>
<td>Width: 36 in.</td>
<td>21 ft. 2 in. wheelbase</td>
<td>Optional – 30,000 lbs.</td>
<td>Optional – 6,250 ft.-lbs. @ 134 RPM</td>
<td>Option 2 – 1070 CFM @ 350 psi</td>
<td>Pipe spinner</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Depth: 28 in.</td>
<td>68,000 lbs. GVWR</td>
<td>Optional – 30,000 lbs.</td>
<td>Optional – 6,250 ft.-lbs. @ 134 RPM</td>
<td>– Caterpillar C15 diesel engine, 575 hp @ 1800 RPM</td>
<td>Single-pipe loader</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>Optional – 410 hp, 908LL Transmission</td>
<td>Optional – 30,000 lbs.</td>
<td>Optional – 6,250 ft.-lbs. @ 134 RPM</td>
<td>IR HR2.5 over-under screw compressor, 1070 CFM flow with standard in/out box</td>
<td>High-pressure air piping</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Optional – 30,000 lbs.</td>
<td>Optional – 6,250 ft.-lbs. @ 134 RPM</td>
<td>8.3 to 24.1 bar</td>
<td>Drop-down axle</td>
</tr>
</tbody>
</table>

**These machine specifications are those in effect at the time of this printing. However, Atlas Copco Drilling Solutions Inc. is constantly striving for product improvements and enhancements. Accordingly, the right is reserved to make such changes in specifications and design that the Company considers in conformity with this policy or are due to unavailability of materials or assemblies. Final confirmation of current specifications should be made by contacting Atlas Copco Drilling Solutions, Garland, Texas, USA.**

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