




TI-5D TITAN

MOBILE DRILLING UNIT

THE TI-5D TITAN

The TI-5D Titan is an innovative solution for today's conventional or reverse rotary drill applications. Designed for a multitude of applications, including gas, oil, water and geothermal drilling, the Titan is designed in both straight and elevated rotary platform styles. The dual block mast design offers 60 feet of clear space above the rotary table and provides 225,000 lbs. of pull back. With its heavy-duty mechanical drawworks, the Titan offers 37,500 lbs. of single line pull and the state-of-the-art disc brake system ensures the load is always under control. Mounted on a 3-axle trailer and equipped with a Tier III certified deck engine, the TI-5D Titan is both DOT and emissions legal in all 50 states.

DRAWWORKS

Model.....	DD-240 M
Single Line Pull.....	37,500 lbs.

Hoisting Drum Information

Main Barrel Dimensions.....	16.75 in. x 35.5 in.
Wire Line Size.....	1 in.
Drum Clutch.....	14 in. 3-Plate
Gearing.....	6 Forward / 1 Reverse
Drive Chain.....	Single 160
Brake System.....	40 in. x 7 in. Dual Disc
Brake Cooling.....	Air

Kelly Drum Information

Main Barrel Dimensions.....	16.75 in. x 35.5 in.
Wire Line Size.....	1 in.
Drum Clutch.....	14 in. 3-Plate
Gearing.....	6 Forward / 1 Reverse
Drive Chain.....	Single 160
Brake System.....	40 in x 7 in Dual Disc
Brake Cooling.....	Air

Sand Drum Information.....Optional

MAST

Model.....	60/225
Clear Height Above Rotary.....	60 ft. (18.3m)
No. of Lines to the Block.....	6
API Capacity.....	225,000 lbs.
Drill Line Size.....	1 in.
Hoisting Block (Included).....	100 ton triple
Kelly Block (Included).....	100 ton triple

Crown Block

Fast Line Sheave.....	20 in. x 1 in.
Cross Over Sheave.....	18 in. x 1 in.
Sand Line Sheave.....	Optional

Mast Raising System

Raising Rams.....	2
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POWER SYSTEM

Engine.....	Caterpillar C-15
Cylinders / Type.....	6 / 4-Stroke
Horsepower.....	475 Hp
Governed Speed.....	2,100 RPM
Air Cleaner.....	Single Dry Type
Emergency Stop.....	Standard

Transmission

Gearing.....	6 Forward / 1 Reverse
Max Net Input Horsepower.....	550 Hp
Max Net Input Speed.....	2,300 RPM
Max Net Input Torque.....	1,850 lb-ft (2,508 N-m)

AIR ELECTRICAL & HYDRAULIC

Compressor.....	31.4 SCFM
Electric System.....	12 Volt
Alternator.....	115 amp
Starter.....	12 Volt
Batteries.....	(3) BCI-31
Hydraulic System.....	50 gpm / 2,000 psi

RIG LEVELING SYSTEM

Leveling Jacks.....	6- 60 in Stroke
Mechanical Backup Locks (Bolt on).....	2

DRILLING SYSTEM

Rotary Type.....	Direct or Reverse Table
Rotary Drive.....	Hydraulic
Rotary Speed.....	0-160 RPM (HI) 0-80 rpm (Low)
Rotary Torque.....	Low 24,000 High 12,000
Stand Pipe.....	Direct or Reverse Flow Available
Make-Up / Brake Out System.....	Cylinders
Auto Brake Feed.....	Standard
Crown Saver.....	Standard
Lighting.....	Standard

TRAILER

Type.....	3 axle
Length w/ Mast.....	65 ft.
Rear Axle Spacing.....	60 in.
Rear Axle to Back of Rig.....	11 ft. 8 in.
Height (OTR).....	14 ft. 0 in.
Estimated Rig Weight.....	90,000 lbs.

AXLES - SUSPENSION

Axle Capacity.....	22,000 lb per axle
Suspension Type.....	Air Bag

Brakes

ABS System.....	Bendix
Park Brake.....	Spring Applied

Tires & Wheels

Tires.....	11R x 22.5 in.
Wheels.....	8 in. / 22.5 in.

Frame

Main Rails.....	21 in. 63 lbs. / ft.
Frame Deck.....	3/16 in. Diamond Plate

Paint

Standard Paint.....	2 Non-Metallic Colors
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The Titan is as powerful as it is versatile. Its unique design provides for a multitude of drilling applications including gas, oil, water and geothermal.



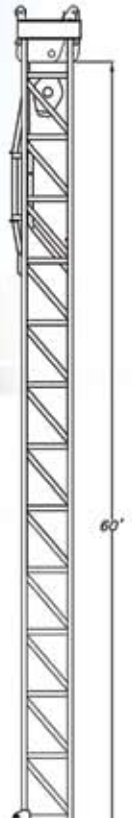
The heavy-duty mechanical drawworks with disc brakes provides 37,500 lbs. of single line pull, and the simple yet powerful state-of-the-art brake system includes redundant safety systems including crown and floor savers.



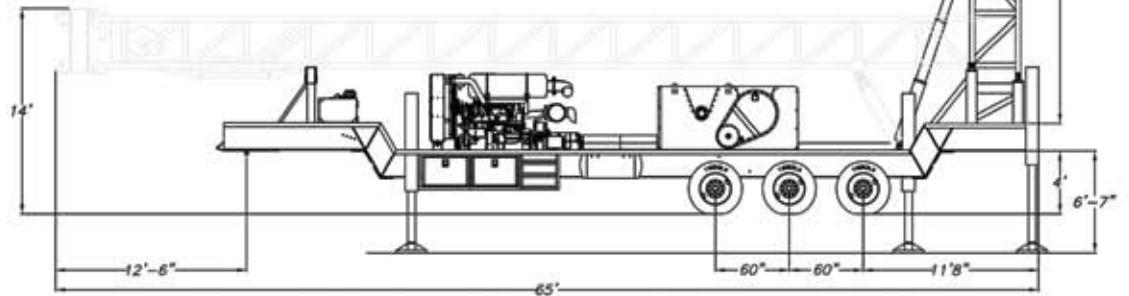
The operators console provides excellent visibility and a simple user-friendly control layout. Controls for all drilling functions, including weight indicator, crown and floor savers are all easily accessible from the console.



The hydraulic rotary table provides up to 60 inches of vertical conductor clearance and hydraulically lifts out of position to allow for a full 42 inches of casing clearance through the frame.



Special emphasis has been placed on the design and layout of the unit. The drill is designed to transport without the use of a jeep. Special use of load analysis has allowed the Titan to remain light, yet strong, providing a stable base for consistent drilling. Due to these features, the TI-5D Titan is DOT legal in all 50 states and is Tier III and CARB compliant.



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