

Trive 3 Mini Hydraulic Crawler Piling Rig



Trive 3

This is the answer to caisson and auger drilling in confined spaces. It delivers big rig capabilities in a small package. Take a look at the specs. Other options make this a very flexible rig.

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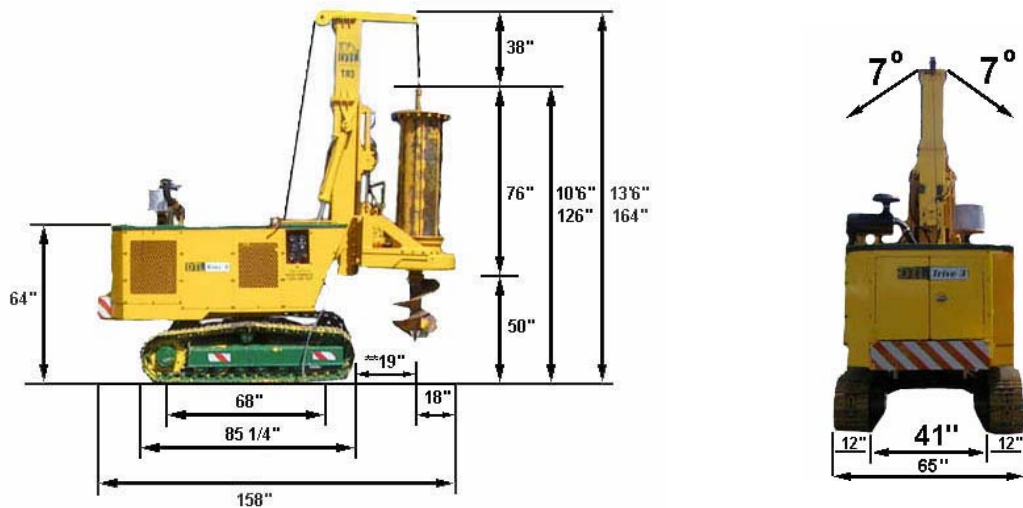
Specifications:

Dimensions & Weights				
Overall Length	mm	4013	Inches	158
Width	mm	1651	Inches	65
Height	mm	2972	Inches	117
Weight	Kg	7085	Pounds	15620
Mast Length	mm	2000	Inches	78.7
Min. Work Height	mm	3200	Inches	126
Diesel Engine				
Power	kW @ rpm	59 @ 2500	HP @ rpm	79 @ 2500
Fuel Tank Capacity	Liter	134	Gal	35-1/2
Hydraulics				
Main Pump	l/min	91	Gal/min	24
	bar	250	psi	3625
Auxiliary Pump	l/min	45	Gal/min	12
	bar	250	psi	3625
Crawler				
Max Speed	Km/h	2.4	MPH	1.5
Crawler Length	mm	2165	Inches	85-1/4
Tracks Width	mm	304	Inches	12
Performance				
Max. Drilling Diameter	mm	787	Inches	31
Max. Drilling Depth	Meter	14.9	Feet	49
Drilling Torque	Nm	21816	Lb.ft.	16091
Spin-Off Speed	Rpm	64	Rpm	64
Pull-Down Stroke	mm	499	Inches	19.6
Side-to-Side Mast Tilt	Degrees	± 7°	Degrees	± 7°
Winches				
Main Line Pull	Kgf	3175	Ft-lbs.	7000
Main Line Speed	Mpm	45	FPM	148
Auxiliary Line Pull	Kgf	1000	Ft-lbs.	2200
Auxiliary Line Speed	Mpm	40	Fpm	131
Kelly				
Elements	Ea.	11	Ea.	11
Total Length	Meter	14.9	Ft.	49
Weight	Kg	1225	Lbs.	2700
Control				Wireless Remote

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Overall Dimensions



Distance of Tool Center to Track Pad on Swing



Weight 15,620 lbs

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Technical Description:

MINI HYDRAULIC CRAWLER PILING: This versatile and highly maneuverable rig applies the most advanced mechanical technologies to face the toughest jobsite requirements for drilling in the Civil Engineering field. The **Trive 3** is the answer to caisson and auger drilling in confined spaces. It delivers big rig capabilities in a small package.

The **Drilling technique** philosophy puts **Operator Safety First**, A commitment which is highlighted in certain product details:

- Portable wireless remote control eliminates risks associated with rig positioning and drilling operations by allowing the user dynamic, all-round vision of the operations area.
- Selection of the highest quality components.
- Emergency shutdown safety system on the Diesel engine, Electrical, and Hydraulic systems.

All of this combined with a first class service department makes the **Trive 3** your number one choice.

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Rig Body

The rig frame is constructed of welded heavy gauge steel. The swing table is made of 1" thick T-1 steel and the body panels are 1/8" thick steel plates screwed to the frame with stainless steel screws for easy access to other components. The **Trive 3** also has 3 access doors, one for manual hydraulic controls and the other two for the engine compartment.



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Engine

The **Trive 3** has a John Deere diesel engine which puts out 79 HP @ 2500 rpm. This gives the **Trive 3** more than enough power to handle the toughest working conditions.



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Hydraulic System

An open circuit system with piston pumps splined directly to the engine, which deliver 3,625 psi to the control valve bank.

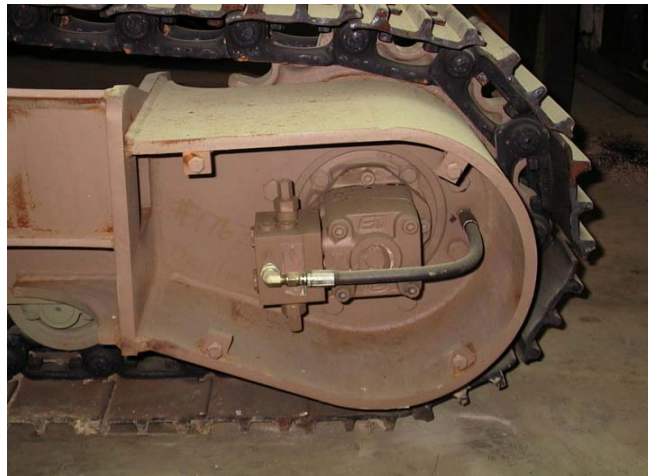
The control valve bank uses proportional solenoid servo-controls for most of the hydraulic functions, this has proven to be extremely reliable. The hydraulic system also incorporates a thermostatically controlled heat exchanger to keep the **Trive 3** always running at its highest level of performance.



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Crawlers

The crawlers are integrated into the rig body to provide a more stable and rigid structure. The steel crawler tracks are powered by two planetary reduction gears, which provide negative breaking for parking the rig. An independent hydraulic circuit feeds each motor.



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Mast

The mast is made out of high tensile steel and has longitudinal slides for movement of the drive table. The mast is raised and lowered by two heavy-duty hydraulic actuators which operate with independent hydraulic circuits, allowing for the mast to tilt 7 degrees to either side off the vertical center line for drilling on uneven ground. It also tilts forward to -11 degrees.



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Operator Controls

All operations of the **Trive 3** can be accomplished using the light, compact, and wireless remote panel. It comes with a rechargeable battery and battery charger. If desired a cord can also be used between the remote control and the rig instead of the rechargeable battery. The control box is fitted with an emergency stop button to guarantee safe operations.

Remote Control Box



Battery Charger



Rechargeable Battery



Back-up cord (instead of battery)



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Control panel

The diesel engine controls and main electrical controls are both integrated into a protective body panel on the front right side of the machine. It incorporates the following controls:

