

PAT-Drill 301T

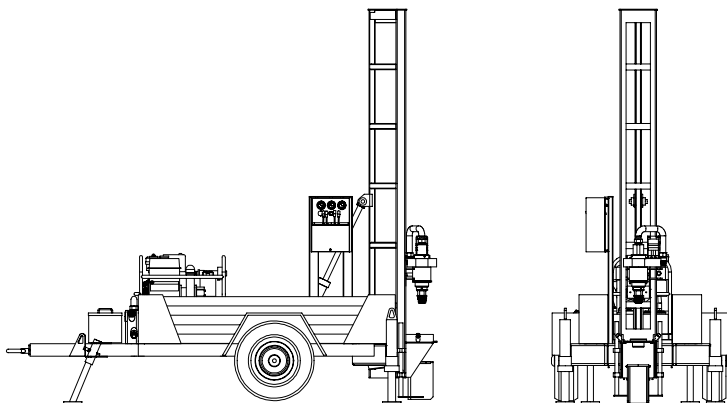
Compact, Portable Trailer Mounted Drilling Rig

PAT-Drill 301T is a compact trailer mounted hydraulic drilling rig, designed for both inclined and vertical drilling.

Combining Maneuverability, low consumption, Rotary and Down-the-hole drilling, the PAT-Drill 301T is ideal off-road multipurpose rig for both water drilling and construction works.



- Drill depth 0 - 100 meter.
- 4" - 8" Borehole diameter.
- Mud Rotary drilling and Down The Hole Hammer.
- The ability to drill at different angles, 0 - 30°
- Multipurpose, Water Well and Construction applications.
- Faster drilling rates.



The PAT-Drill 301T is the right choice for Construction works and minings, looking for appropriate and low cost drilling equipment to find out drilling solutions and challengeable jobs.

Technical Data, Specifications

RECOMMENDED HOLE RANGE

Hard rock formation

3" - 4" DTH Hammer 90 - 150 mm. 3 1/2" - 6"

Flushing by Air compressor.

250 - 400 cfm. Displacement

7 - 16 bar Working pressure

Alluvial deposits, Sedimentary by Mud Rotary.

Drag bit 100 mm. - 200 mm. (4" - 8")

HOLE DEPTH

Drill depth upto 100 meter

ROTATION HEAD

Single reduction gearbox with a hydraulic moter.

The system provides infinity variable rotation speed.

Enable to Swing-a-side.

Main shaft of 40 mm. hole, Sub joint 2 3/8 API REG Mod

Gear box ratio 3.875 : 1

Rotation torque 185.67 kg.m.

Speed 0 - 70 rpm.

MAST

All steel construction, 3 M. high, Break-out table to open 200 mm. The Mast is vertical and angular positions by hydraulic cylinder, from 0 - 30°

FEED SYSTEM

Rotation head drive by hydraulic cylinder through heavy duty chain.

Head travel 2.25 meter

Pull up

Capacity 2063.07 kg.

Speed (max) 12.83 m/min

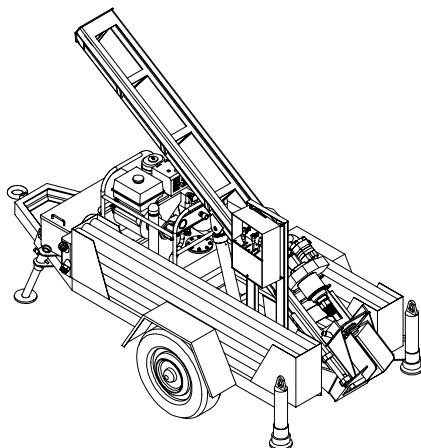
Pull down

Capacity 2063.07 kg.

Speed (max) 9.33 m/min

Feed

Speed (max) 5.08 m/min



CONTROL PANEL

- 6 main levers controlling, feeder and jacks.

- 1 speed adjuster

- 1 feed adjuster

- 3 pressure gauges

HYDRAULIC POWER PACK

Hydraulic system to be operated from skid mounted engine driven power pack with flexible hydraulic hoses fitted to the rig. 125 kg. in weight.

- Engine : 13 hp 3600 rpm. HONDA gasoline engine, air-cooled, hand starting (10 hp YANMAR diesel engine is available.)

- Hydraulic system : VANE PUMP type, system pressure 210 bar, 40 litre Tank capacity

STABILIZING JACK

2 front jacks and 2 rear jacks.

2 - Rear jacks Hydraulic jack

2 - Front jacks Manually jockey jack

AIR SYSTEM

Fitted Lubricator of venturi-type for down-the- hole drills.

Max. pressure 20 bar

Oil tank capacity 4 liters

PIPES RACK

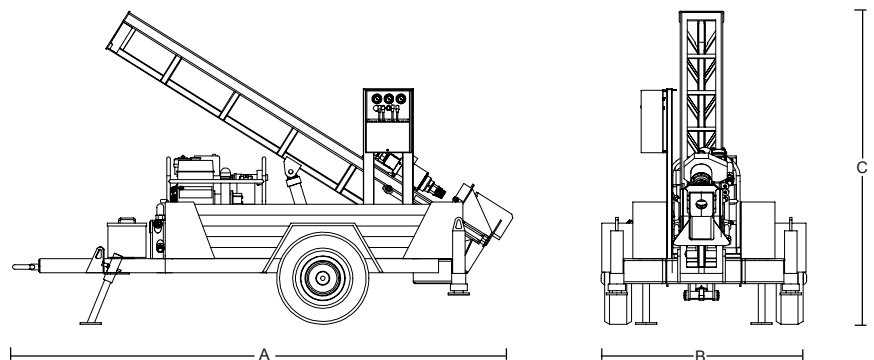
Capacity 30 pcs. Drill pipe

DRILL PIPE

Drill pipe length 2.00 meter

Drill pipe diameter 76 mm. OD, 69 mm. ID

Thread 2 3/8 API REG Mod, PIN and Box



DIMENSIONS

Overall length (A) : 3530 mm.

Overall width (B) : 1440 mm.

Overall height (C) : 3212 mm.