

PAT-Drill 301T

Trailer Mounted Drill Rig

The PAT 301T is a fully featured top drive rotary rig able to complete holes in hard or sedimentary rock.

It is one of the lightest rigs in its class and able to be towed behind most common pick - up trucks.

This is the PAT 'best seller' for rural water supply holes in hard rock areas.

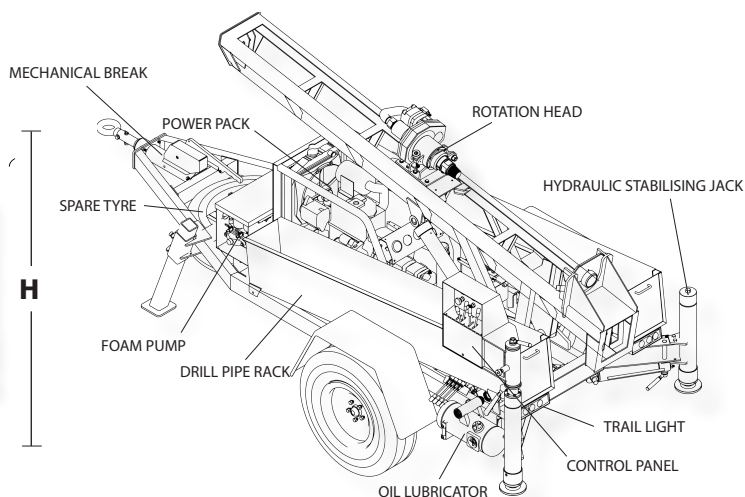


Product Description :

PAT-Drill 301T is a highly compact, mounted on trailer hydraulic drilling rig, available with all drilling accessories, easy to set-up and move.

This is an ideal multipurpose rig, powerful, versatile and easy to transport across a variety of terrains.

TECHNICAL DATA & SPECIFICATION



RECOMMENDED HOLE RANGE (Depths to 150 m)

Medium & Hard rock, DTH-Hammer drilling operation:

(Needs a seperated air compressor)

3" - 5" model DTH-Hammer with capacity to drill
4" - 6" (100-152 mm) diameter

Soft formations, rotary mud drilling operation:

(Needs a seperated mud pump)

Drag bit 4" - 10" (100-254 mm) diameter

TOP ROTATION HEAD

Single reduction gearbox, hydraulic motor driven, and variable rotation speed. Enable to swing-a-side for easily casing installation.

Swivel spindle 40 mm inside diameter, sub joint 2 3/8 API Reg Mod

Gear box ratio: 3.875 : 1

Speed: @2000 rpm 0 - 40 rpm

Max. torque: 1980 Nm

MAST

All steel work, 3.15 metres high, break-out table to open 200 mm. diameter. Mast raised to vertical from storage position by a hydraulic cylinder. The mast is also equipped with 2 LED flood lights for night time operation.

FEED SYSTEM

Rotation head is raised and lowered by a hydraulic cylinder and heavy-duty transmission chain. Head travelling stroke: 2.25 metres.

Pull up - Capacity: 2900 kg

Max. speed: 12 metres/min

OPERATION CONTROL PANEL

4 levers controlling rotation head, pull and feed

2 regulators for rotation speed and pull/feed weight

4 system pressure gauges

HYDRAULIC POWER PACK

Engine: 35 hp (26.8 kW) at 3000 rpm, 3 cylinders, YANMAR 3TNV88 diesel engine, water-cooled, electric start.

Hydraulic system: double gear pump type, system pressure 250 bar max, 100 litres tank capacity.

Fuel tank: 35 litres

WATER/FOAM INJECTION PUMP

Triple piston pump driven by a hydraulic motor.

Motor speed: 450 rpm

Max. displacement: 10 litres/min

Max. working pressure: 30 bar

STABILISING JACK

2 Rear jacks Hydraulic driven

2 Front jacks Manually operated jack

AIR LUBRICATION SYSTEM

Fitted lubricator of Venturi-type for drip lubrication-fully adjustable flow control-for DTH-Hammer

Max pressure: 40 bar

Oil tank capacity: 7 litres

PIPE RACK

Each side containing: (for 2 metre) 12 pcs. 76mm pipe

15 pcs. 60mm pipe

DRILL PIPE

Drill pipe length: 2 metres

Drill pipe diameter: 60/76 mm.

TRAILER

Towing: Ring OD = 120 mm, ID = 70 mm

Thickness = 25 mm

Brake system:

mechanical brake for overrun parking auto reverse.

Suspension:

Single axle, torsion sprung with overrun brake system.

2000 kg capacity.

Trailer light:

Fitted trailer lights with 7 pin plug connection to vehicle system.

Wheels & Tyres:

2+1 spare 5 x 1/2" stud 140 mm PCD 7.00-R15, 8 PLY

DIMENSIONS

Overall length : (L) 4.05 m

Overall width : 1.69 m

Overall height : (H) 1.75 m

Weight (without drill pipes) 1,450 kg

Promotion of Appropriate Technology Co.,Ltd. reserves the right to change these specifications without notice



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