

**The oldest PAT model and still in constant production – and has many design refinements through its 25 years.**

**With a 'stand alone' mast unit it can be simply transported and man handled onto drill sites – some with tight access.**



**Rig is powered by a stand alone power pack with a heavy duty Diesel engine or lightweight Petrol engine option.**

**Ideal application sedimentary mud drilled holes to 100 m depth 100 - 200 mm diameter.**



### Product Description :

In its modular format it remains one of the lightest drilling packages in its depth capacity in the world and can meet many specialist needs – manhandled up mountains for horizontal well drilling, compact air cargo movement where road transport is not an option or local mounting on hydraulic excavator arms and similar configurations.

# TECHNICAL DATA & SPECIFICATION

## RECOMMENDED HOLE RANGE

Soft formations, rotary mud drilling operation:  
(Needs a seperated mud pump)

4" - 8" (100-200 mm) borehole diameter.

## TOP ROTATION HEAD

Single reduction gearbox, hydraulic motor driven, and variable rotation speed. Able to swing-a-side for easy casing installation. Swivel spindle 40 mm inside diameter, sub joint 2 3/8 API Reg Mod Gear box ratio: 3.875 : 1  
Speed: 0 – 50 rpm  
Max. torque: 1320 Nm

## MAST

All steel work, 3.15 metres high, break-out table to open 200 mm. diameter.

2 - wheel axle aids erecting the mast to a vertical positon for drilling and aids moving the unit around site or loading / unloading the unit from a vehicle.

## 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: 2300 kg  
Max. speed: 9.5 metres/min  
Pull down - Capacity: 3480 kg  
Max. speed: 14.5 metres/min

## OPERATION CONTROL PANEL

the control panel is mounted on the mast, and is equipped with:  
4 levers controlling rotation head, pull and feed  
2 regulators for rotation speed and pull/feed weight  
3 system pressure gauges

## HYDRAULIC POWER PACK

Engine: 14 hp (10.4 kW) KUBOTA diesel engine  
13 hp (9.7kW) HONDA petrol engine

Hydraulic system: VANE pump type, system pressure  
250 bar max, 75-litres tank capacity.

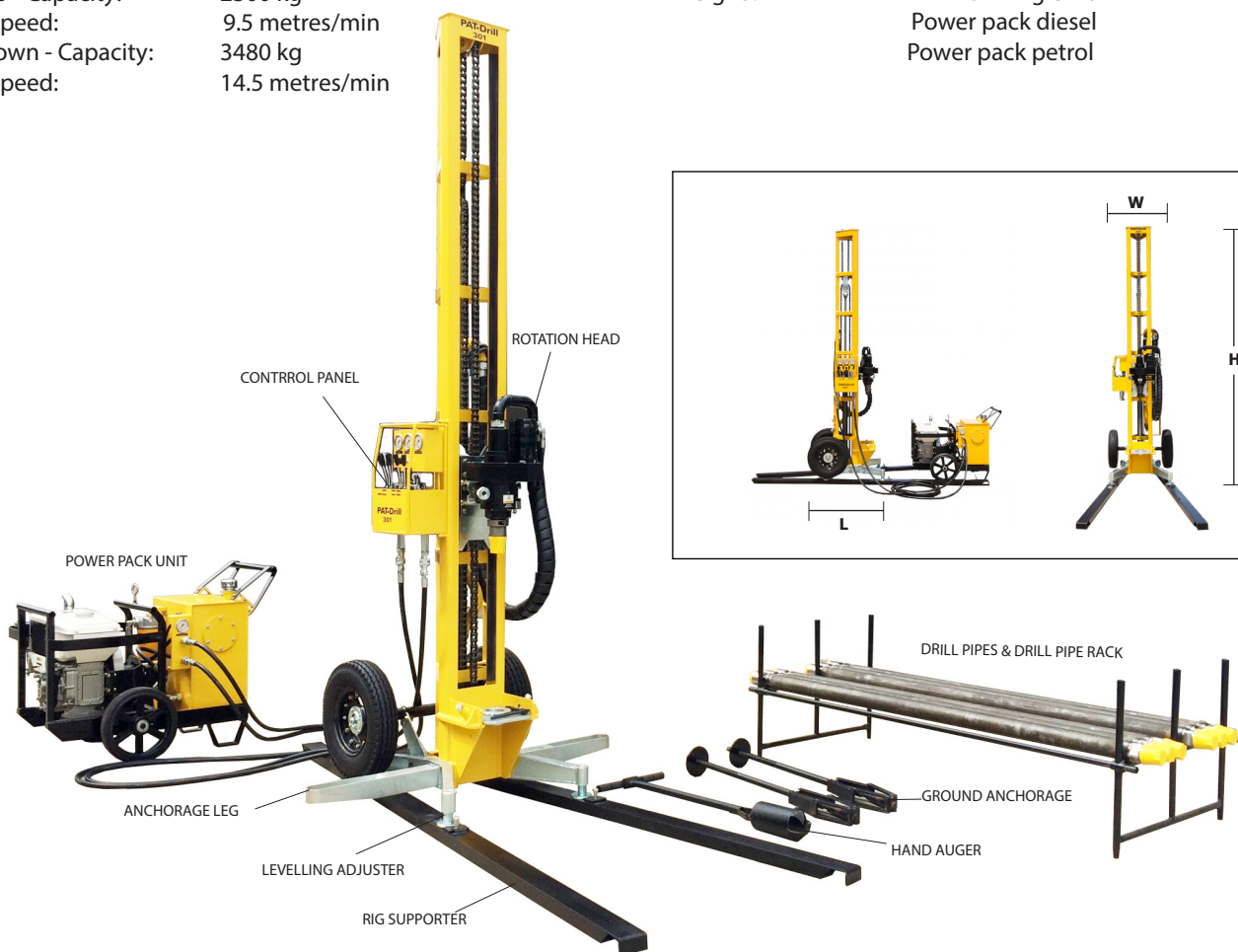
Hydraulic hose line: 2 pieces supply & return. 6 m long with quick release self-sealing type couplings to connect power pack to rig.

## DRILL PIPE

Drill pipe length: 2 metres  
Drill pipe diameter: (Option) 60/76 mm.

## DIMENSIONS

Overall length (L) :	1.10 m
Overall width (W) :	0.85 m
Overall height (H) :	3.20 m
Weight :	Drilling Unit 450 kg
	Power pack diesel 250 kg
	Power pack petrol 200 kg



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