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.

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.

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.
TECHNICAL DATA & SPECIFICATION

RECOMMENDED HOLE RANGE
Soft formations, rotary mud drilling operation:
(Needs a separated 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 position 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

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