

Premier Plant Eng. Ltd

Manufacturers of ground drilling machines and equipment



The Premier Compact Modular Series

Description.

The Premier Compact Modular has been designed to be the most user friendly strip down rig with no component weighing more than 65 kg. Ideally suited to working in the rail track and basement environment where the rig can be positioned by either carrying components or wheeling sub assemblies. The rig is also equipped with the Premier unique carriage swing system allowing the upper rod handling system to be used vastly increasing the drilling process. The extraction process is equipped with two systems first utilizing the jacks (7000kg 300mm stroke) then switching to the mast pullback (750 kg 1340 mm stroke) which completes a full raise stroke in 3 seconds.

Mast assembly. Fabricated interlocked steel profiles.

Carriage stroke	1340 mm
Carriage pullback force	750 kg
Dimensions H x L x W mm	2008 x 280 x 180
Weight	64 kg

Drop weight carriage (DWC). Fabricated interlocked steel profiles. Mounted on nylon sliders for reduced impact stress and noise. Fully enclosed automatic percussive device fitted with floating anvil (76mm) mounted in a nylon bush for reduced impact stress (ensuring the guards stay fixed to the DWC) and noise. Unique heat treated roller chain catch with matching heat treated curved DWC catch which maintains full pickup with slack chain tension. Guarding which prevents any finger access to the drop weight / chain mechanism.

Automatic DPSH / SPT Pentrometer carriage. Hammer 63.5 kg x 760 mm fall x 43 blows / min

Extractor. (jack) Twin hydraulic cylinders with links sections

Extractor stroke	300 mm
Extractor capacity	7000 kg @180 bar

Hydraulic power pack. Petrol driven

Engine Honda
Capacity 20 lt/min @130 Bar

Colour

Finished in deep blue Ral 5010

Dimensions and weights - Assembled standard machine

Length	940 mm	with legs attached 1300 mm
Width	630 mm	with legs attached 1100 mm
Height	2100 mm	
Weight	420 kg	

Working Dimensions

1 Metre tooling H x L x W mm	2700 x 1300 x 1100	
0.5 Metre tooling H x L x W mm	2100 x 1300 x 1100	Restricted access use

Breakdown of parts and weights

1 No X frame	10.5 kg
4 No Stabilizer leg	6.5 kg each
1 No Drop Weight Carriage	55 kg
1 No Drop Weight	63.5 kg
1 No Hydraulic power pack	60 kg
1 No mast assembly	64 kg
1 No Upper rod guide	3.0 kg
1 No Foot rest	1.8 kg
1 No Vice stand assembly	18.3 kg
1 No tool kit	4.0 kg
2 No Carriage pin / hinge pins	2.0 kg each
1 No Front transport leg kit	4.0 kg
1 No Extractor fork	2.0 kg
1 No Hydraulic extractor	33 kg
1 No Open roller rod grip	5.0 kg
1 No Release roller rod grip	5.5 kg
1 No Transport wheel assembly	12 kg



Total for above standard machine Ex-works Haslingden GBP

1 Training day for 2 people at our premises is included in the cost of the machine

OPTIONS / UPGRADES

Dual Standard carriage

DPH (50 kg x 500 mm drop) & DPSH / SPT (63.5 kg x 760 mm drop)

Upgrade to environmentally friendly bio degradable hydraulic oil

Dynamic probe foot guide

Coring attachment

Diesel powered

All prices are subject to vat at current rate

See pictures below of rig in operation



Figure 1 Mod rig in setup



Figure 2 Mod rig in extraction setup showing the upper rod guide system were the jacks have first been used to extract the drill string then the mast pullback has been used to extract both rods and sampler clear above the jack thus allowing the jack and sampler to be removed and the next sampler fitted and lowered into position, unique to the rig.



Figure 3 Showing the rig in its components parts



Figure 4 Showing the rig in the wheeled transport position (630mm wide). In this setup the rig can stand vertical as in the picture or laid down resting on its travel rest ideal for transportation in a vehicle.