

# Premier Plant Eng. Ltd

Manufacturers of ground drilling machines and equipment



## Standard / option specification for Premier 110 RP Series Drill rig

### Engine / Chassis

Yanmar 3TNV 76. 25 hp 3 cylinder water cooled diesel engine

#### Hydraulic system

3 No gear pumps 32 / 19 / 19 litres / min  
System oil capacity 50 litres

### **Mast for 1.0 m drill rods with fixed rotary head support trolley and automatic percussive device for SPT / DPSH and window / windowless sampling**

Automatic DPSH / SPT Pentrometer carriage. 63.5 kg x 750 mm fall x 35 blows / min

Carriage stroke	1500 mm
Push	1000 kg
Pullback	7500 kg
Two speed head travel. 90 mm per/sec	250 mm per/sec

Rotary head stroke	1500 mm
Push	1000 kg
Pull	2000 kg
Two speed head travel. 90 mm per/sec	250 mm per/sec

Fitted with a standard closed mast foot guide.

### Under carriage

Standard track length 1200 mm fixed @	800 mm
Track width	180 mm
Ground bearing pressure	2.7 N / cm <sup>2</sup>

### Standard single speed rotary head.

#### Hydraulic speeds

Hydraulic motor, fitted with speed lock coupling on the out put flange.  
Standard machine supplied with one of the following options.

Rotary head torque:	Max 90 kgm	Rotary head rpm:	Max 163 rpm
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#### Rotary head Option 1

rpm / kgm 256 / 58

#### Rotary head Option 2

rpm / kgm 410 / 38

#### Rotary head Option 3

rpm / kgm 640 / 24

### Dimensions and weights. Standard machine

#### Mast horizontal

Length	2450 mm*
Width	800 mm**
Height	1560 mm*
Weight	1260 kg

#### Mast vertical

Length	2450 mm
Width	800 mm **
Height	3150 mm

\*no upper rod guide or stabilizers \*\* no side basket

**Total for above standard machine Ex-works Haslingden GBP**

**£ P.O.A.**

## OPTIONS / UPGRADES

### **Stabilizers**

4 manual leg stabilizers. 2 No. fixed front mounted. 2 No. fixed rear mounted.

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### **Additional rotary heads to allow a larger range of output speeds and torques**

Option 1 rpm / kgm	256 / 0
Option 2 rpm / kgm	410 / 0
Option 3 rpm / kgm	640 / 0

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### **Extractor upgrade**

Increase pullback capacity to 15000 kg

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### **Rotary outputs ( speed lock coupling )**

Solid stem auger drive with either 1 1/8 AF or 1 5/8 AF  
Air / water swivel drive with either BWY / NWY / special

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### **Rod / auger guide mechanism, foot / clamp mounted**

Rod guide BWY / NWY / special  
Auger guides

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### **UK HSE compliant interlock guarding of the drill string in operation.**

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### **Foot mounted hydraulic rod Clamp**

Single Clamp 45 -180  
Force

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### **Water / foam Flush pump**

0 to 21 Litres / minute @ 30 bar  
85 Litres / minute @ 30 bar

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**All prices are subject to vat at current rate**



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