

Technical Datasheet

Dynamic Cone Penetrometer



Portable device for dynamic penetrometric tests

Description

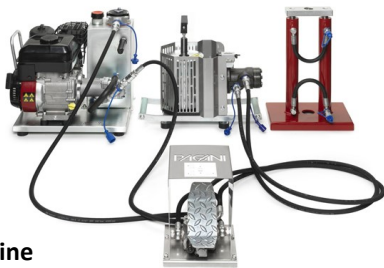
The DPM30 penetrometer allows exclusively continuous dynamic penetrometric tests to be performed. For the dynamic tests, the penetrometer is equipped with a 66 pound (30 kg) hammer with a 7.87 inch (200 mm) stroke, operated by a hydraulic motor. It is driven by a motor-pump unit, where the motor can be either electric (220v or 110v) or a gas engine. A hydraulic extractor is used to extract rods, lining tubes and samplers. The penetrometer is controlled via a pedal-operated distributor. The hydraulic connections on the various components use quick connectors.

Advantages

- A power supply suited to any application
- For the dynamic tests, the penetrometer is equipped with a 66 pound (30 kg) hammer with a 7.87 inch (200 mm) stroke, operated by a hydraulic motor. It is driven by a motor-pump unit, where the motor can be either electric or gasoline-powered.

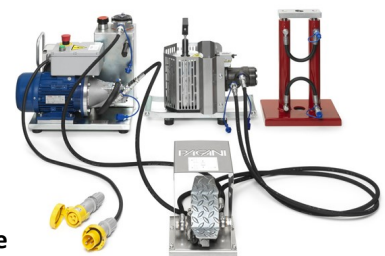
The DPM30 can be used not only for dynamic tests, but also for soil sampling with limited disturbance, which guarantees improved ability to interpret the penetrometric data.

Included with a Penetrometer purchase (base set-up):	Included accessories:
1 - Percussion System with 30Kg hammer	1 - Rod Extraction Clamp
1 – Power unit (Gas or Electric)	20 - Rod 20x1000 mm (39.3 inches)
1 – Pedal Command unit with quick Coupling tubes	2 – Drive Cap 30 x 50 mm
1 – Hydraulic Extraction unit 5 ton (rod puller)	2 – Expendable Point Holder for rod
	1 – Box of 120 pcs - Expendable drive tips
	10 – Drive Cone 10cm ² , 60, M14
	1 – tool kit



Gasoline Engine

Part	Weight
Gasoline Engine-Pump Unit	71.2 lbs (32.3 kg)
Percussion System	104.7 lbs (47.5 kg)
Hydraulic Extractor	35.3 lbs (16 kg)
Pedal-Operated Distributor	21.4 lbs (9.7 kg)
TOTAL	232.6 lbs (105.5 kg)



Electric Engine

Part	Weight
Gasoline Engine-Pump Unit	84.9 lbs (38.5 kg)
Percussion System	104.7 lbs (47.5 kg)
Hydraulic Extractor	35.3 lbs (16 kg)
Pedal-Operated Distributor	21.4 lbs (9.7 kg)
TOTAL	264.3 lbs (111.7 kg)

Technical Datasheet



DP Tests

Hammer	Fall height	Rods	Cone
66 lb (30 kg)	7.87 inch (200 mm)	.79 inch (Ø 20 mm)	1.6 inch ² (10 cm ²) 60°

Gasoline Engine*

Type	Single-cylinder, 4 stroke, unleaded gas, forced air-cooling w/ muffler
Starter	Hand starter
Power	2.94 kW (4 HP) @ 3060 rpm
Displacement	7.74 in ³ (127 cm ³)
Torque	66 inch / pound (0.76 kgm, 7.5Nm) @ 3060 rpm
Air Filter	Pre-filter & cartridge filter
Consumption	Variable from 1.22 to 0.32 gallons per hour (0.54 to 0.14 liters per

* Gas unit cannot be sold or used in California

Electric Motor

Type	Asynchronous single-phase engine
Absorbed watts	1700
Current used	115Vac AC 60 Hz
Power	1.7 kW (2.3 Hp) @ 3420 rpm
Ignition controls	Integrated electrical box with emergency push buttons
Connection to the mains	The box has a built-in 2-pole plug (plus ground). A 20A and 130V 2-pole plug is always supplied (plus ground).

Hydraulic System

Circuit capacity	0.26 Gallons (1 liter)
Maximum operating pressure	2176 psi (150 bar, 15000 kPa)
Pumps	No. 1
Filter	Cartridge filter with 25µm filtering capacity

Hydraulic extractor

Maximum extraction speed	0/1.584 inches per second (0/4 centimeters per second)
Hydraulic extractor piston stroke	11.42 inches (290 millimeters)

Refueling

Fuel tank capacity	1 gallon (3.8 liters)
Hydraulic oil tank capacity	2.1 gallons (7.8 liters)

Accessories

Rod Extraction Clamp:

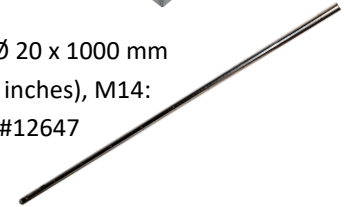
Item #12646



Rod Ø 20 x 1000 mm

(39.3 inches), M14:

Item #12647



Drive cap Ø 30 x 50mm, M14

Item #12648



Expendable point holder for

rod Ø 20 mm, M14

Item #12649



Expendable drive tips 10cm²,

angle 60° - box of 120

Item #12650



Drive cone 10cm², 60°, M14

Item #12651



Pagani Soil Sampler

030 x 220

Item #12711



assembled

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Head Office: 2291 Plunkett Road, Conyers, GA 30012

T: 770-388-0626 F: 770-388-0936 W: www.primeresins.com

E: info@primeresins.com

A  Company