

APAGEO

Matériel de Géotechnique
Geotechnical Equipment

APAFOR 110– HEAVY DYNAMIC PENETROMETER AND SAMPLING SYSTEM (SPT)



UP TO 55 BLOWS PER MINUTE FOR RAPID PENETRATION

The hammering system with adjustable weight (50 or 63,5 kg) and falling height (50 or 76 cm) can blow from 18 up to 55 blows per minute. This allows a complete control from rapid penetration to a modest rate for blow counting.

STANDARD PENETRATION TESTING (SPT)

The system allows to perform fully adjustable standard penetration tests.

SAMPLING UP TO 101 MM DIAMETER

The sample is housed in a clear plastic liner and is removed from the sampler tube in seconds. The manipulation time is reduced, the quality of undisturbed sample and its presentation are perfect, and this system allows to avoid any cross-contamination between samples, making it ideal for testing contaminants.

7 TONNE EXTRACTION JACK

An integral 7 tonne jack extracts the sampler tubes from the hole without having to move the rig.

SIMULTANEOUS CASING SYSTEM 115 MM DIA

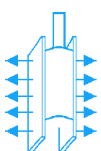
A unique system enables the hole to be cased and sampled at the same time. This eliminates the problem of holes collapsing and debris getting trapped behind the sampler when extracting.

CONCRETE CORING

An optional concrete coring unit fits onto the anvil giving the facility to core up to 127 mm dia holes.

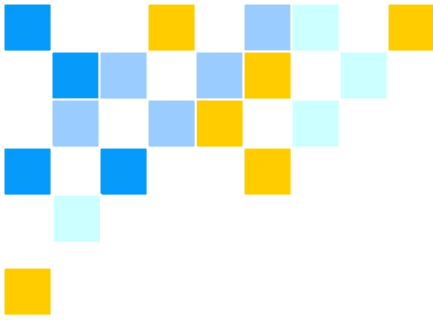
EASILY MANOEUVREABLE

The rig can be operated by one person only.



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APAFOR 110 TECHNICAL SPECIFICATIONS

The system can be delivered in three different configurations :

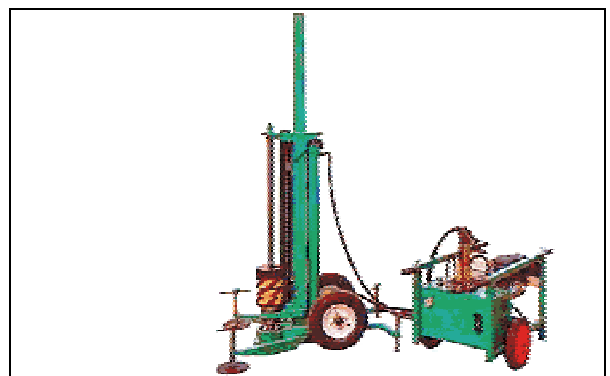
Trailer mounted configuration :

Dimensions mast lowered : 3345 L x 1660 l x 1240 h (mm)
 Dimensions mast raised : 3355 L x 1660 l x 2300 h (mm)
 Weight on trailer : 603 kg
 Maximum weight on trailer : 750 kg



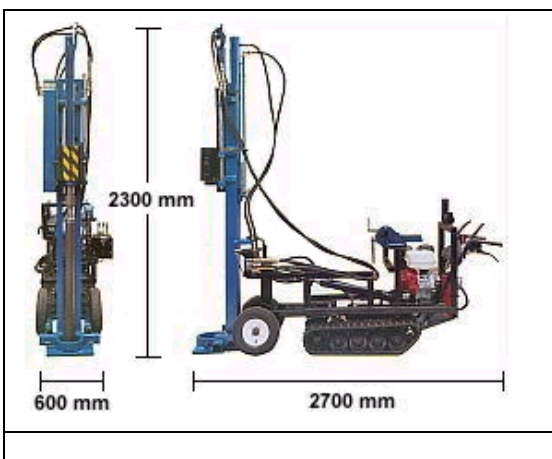
Track mounted configuration :

Dimensions mast lowered : 2515 L x 600* l x 1340 h (mm)
 Dimensions mast raised : 2700 L x 600* l x 2300 h (mm)
 Weight on tracks : 670 kg
 * width is 1160 mm with detachable tool racks installed



Stand-alone configuration :

Dimensions mast unit : 750 L x 600 l x 2300 h (mm)
 Weight mast unit : 258 kg
 Dimensions power pack : 1180 L x 670 l x 640 h (mm)
 Weight power pack : 120 kg



Engine : HONDA 4 stroke, 13 HP (gasoline)
 or 9 HP (diesel)

Hydraulic : Extraction jack : 7 tonne
 Pump : 20 l/min @ 3500 rpm
 215 bar (1500 psi)

Hammer weight : 50 or 63,5 kg (variable)

Falling height : 500 or 760 mm (variable)

Sampling depth : 0 to 15 m maximum

