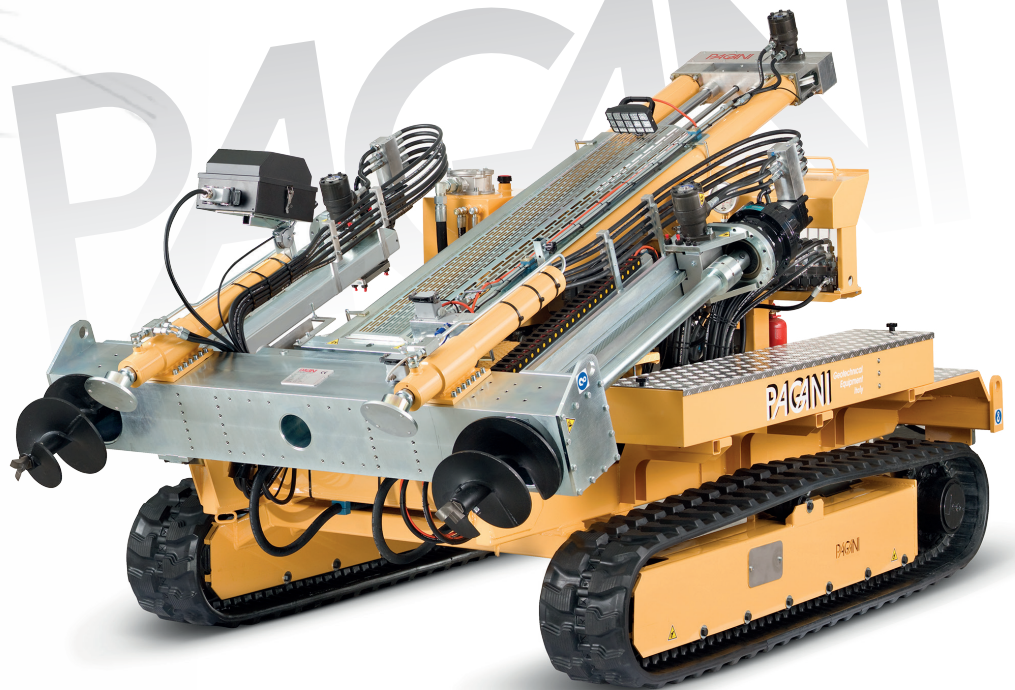
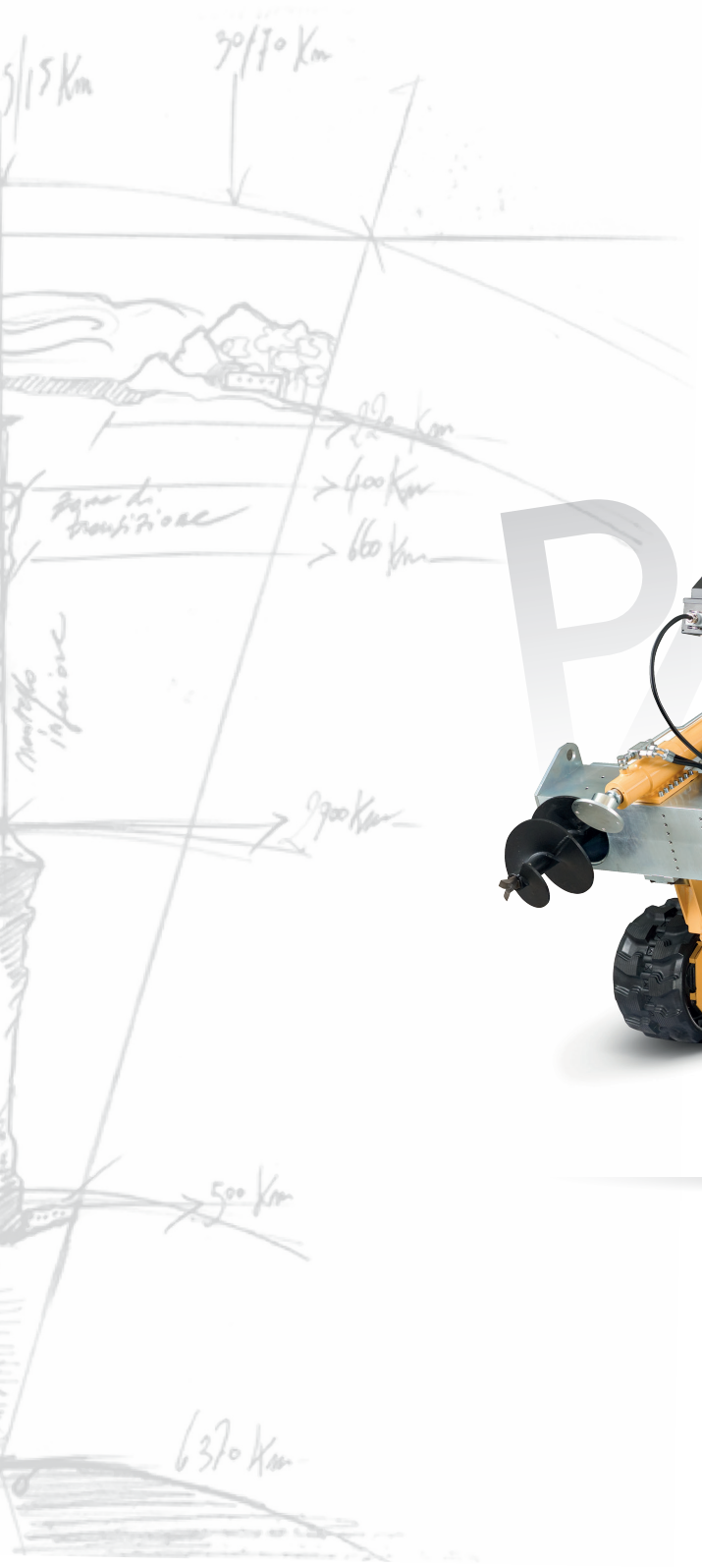


PAGANI®

GEOTECHNICAL EQUIPMENT



TG73-200



STATIC and DYNAMIC PENETROMETRIC TESTS IN A SINGLE MACHINE

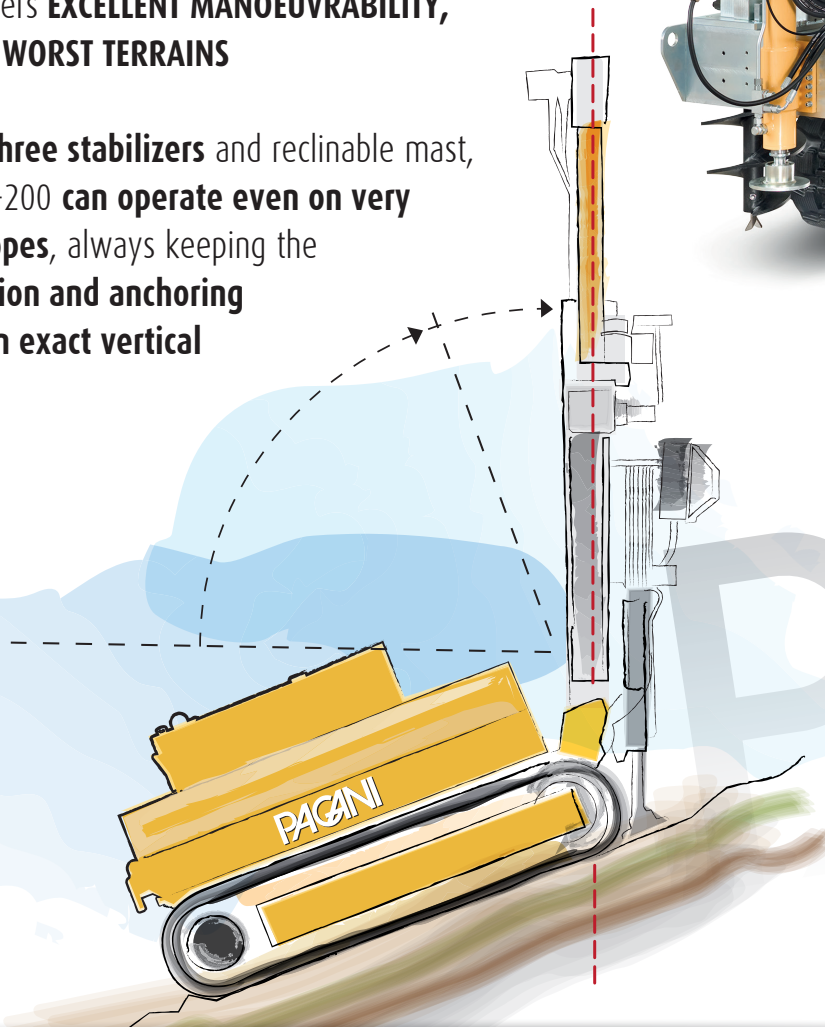
An extremely heavy duty rig for maximum performances **in situ static and dynamic tests**. Its automatic telescopic anchoring system allows for **A DRASTIC REDUCTION IN POSITIONING and anchoring TIMES** and it can be used easily by **a single operator**.

IT DRASTICALLY REDUCES THE TEST TIMES

managing to anchor the machine even in the most challenging soils.

The TG73-200 features a hydraulic tracked carriage which offers **EXCELLENT MANOEUVRABILITY, EVEN ON WORST TERRAINS**

With its **three stabilizers** and reclinable mast, the TG73-200 **can operate even on very steep slopes**, always keeping the **penetration and anchoring axis in an exact vertical position**.

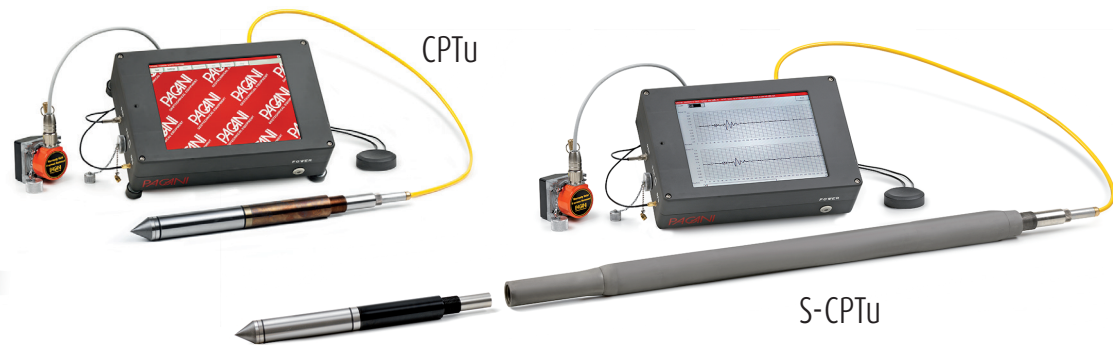


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A CONFIGURATION SUITED TO ANY SITUATION

The TG73-200 can be configured on request for static (200kN), or static/dynamic penetrometric tests (average dynamic efficiency 78%). The static tests can be carried out with a mechanical cone (CPTm), or digital probes like the piezocone (CPTu), even combined with a seismic probe (S-CPTu) to give a better understanding of the soil. The static/dynamic method allows information to be obtained along verticals consisting of soil with different mechanical characteristics (from very soft to very hard and compact), while it is possible to overcome particularly hard layers thanks to a rotary head which allows for pre-drilling (optional).



AVAILABLE VERSIONS



With CPT configuration
(Static test)



With CPT+DP configuration
(Static-dynamic test)

CPT TESTS

Maximum thrust capacity (kN) - (pounds)	200 - 44961
Maximum extraction capacity (kN) - (pounds)	250 - 56202
Test speed (cm/s) - (foot/s)	2 - 0.065
Hydraulic selector for CPTm tests with load cell and electronic board for manual data acquisition. Maximum thrust readable from the load cell (kN) - (pounds)	200 - 55961

DP TESTS

The following tests can be performed:

	Hammer		Fall height		Rods		Cone	
DPSH (standard)	63.5 kg	140 pound	750 mm	29.5 inch	Ø32 mm	1.26 inch	20 cm ² 3.2 inch ²	90°
DPH (optional)	50 kg	110 pound	500 mm	19.6 inch	Ø32 mm	1.26 inch	15 cm ² 2.4 inch ²	90°

ENGINE

Type	Diesel cycle, liquid cooling, 4 in-line cylinders, indirect fuel injection, single shaft distribution up front and muffler
Starter	Electric
Power (Hp) - (kW)	30.5 - 22.4 @ 3000 rpm
Displacement (cm ³) - (in ³)	1372 - 83.7
Air filter	Cartridge filter
Consumption (litres/hour) - (US gallons/hour)	Variable from 7.95 - 2,10 to 9.98 - 2.63 depending on power requested
Cowling	Motor cowling with soundproof material

ENGINE TOOLS

Ignition block that includes ignition key, clogged air filter light, insufficient alternator charge light, insufficient motor oil light, pre-heating spark plugs light, fuel reserve light, radiator water temperature light and check control light.
Analogue hour counter.

HYDRAULIC SYSTEM

Circuit capacity (litres) - (US gallons)	29 - 7.66
Heat exchanger	Air-oil with extractor fan. IP65 level of protection
Maximum operating pressure (bar) - (psi) - (kPa)	200 - 2901 - 20000
Pumps	4 in-line pumps
Filter	Cartridge filter with 10µm filtering capacity

TRAVEL

Type	Hydrostatic with planetary reduction gear and negative brake
Track type	In rubber
Tightener wheel	Pre-loaded spring
Speed (km/hour) - (miles/hour)	2 - 1.24
Max. forward slope	25%
Max. lateral slope	10%

CYLINDER UNIT

Maximum pushing speed (cm/s) - (foot/s)	10 - 0.328
Maximum extraction speed (cm/s) - (foot/s)	7.5 - 0.246
Lift and thrust unit piston stroke (mm) - (inch)	2037 - 80.2

STABILIZERS

3, with hydraulic action with articulated feet

ANCHORING SYSTEM

Screwing/unscrewing of anchoring screws	Via gear motor (1 per carriage)
Number of anchoring carriages	2, one for each side of the penetrometer
Anchoring torque (kgm) - (inch-pound) - (Nm)	500 - 43398 - 4905
Anchoring type	Telescopic
Serial screws supplied (mm)	300 - 400 - 500
Serial screws supplied (inches)	11.8 - 15.8 - 19.7
Anchoring screw speed (rpm)	10

ELECTRIC SYSTEM

Battery	1 12V - 70Ah - without maintenance
Battery isolator	Manually controlled

NOISE

L_{wac} (dB)	108 (ISO 3744)
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REFUELLING

Fuel tank capacity (litres) - (US gallons)	14 - 3.7
Hydraulic oil tank capacity (litres) - (US gallons)	62 - 16.4

FRAME COLOUR

Standard colour	Beige Pagani
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EMERGENCY EQUIPMENT

First aid kit and cat. A-B-C 2kg extinguisher

DOCUMENTATION

Penetrometer user's manual, engine user's manual and certificate booklet.

PLATES

There are engraved aluminium plates riveted to the frame to explain how the hydraulic levers work. The electrical controls, on the operator panel and control device, can be identified via printed adhesive film.

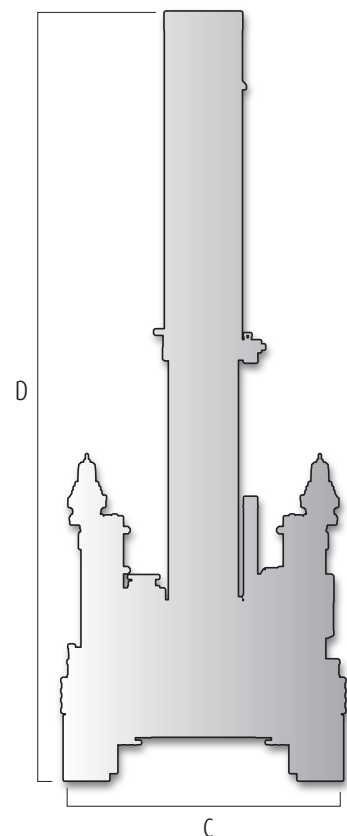
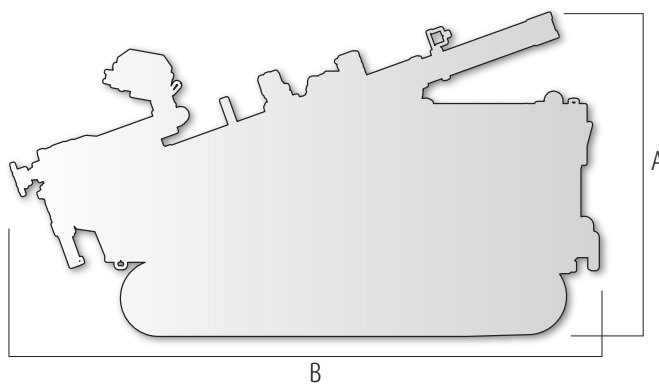
SOFTWARE

Software for CPTm tests

SIZE AND WEIGHT CPT CONFIGURATION



A	1715 mm/67.5 inch
B	3134 mm/123.4 inch
C	1937 mm/76.3 inch
D	5267 mm/207.4 inch
Weight without accessories	2700 kg/5953 pound
Soil pressure (EN 16228-1:2014)	0,27 kg/cm ² - 26.69 kPa 3.79 pound/in ²
Soil pressure (without accessories)	0.24 kg/cm ² - 23.68 kPa 3.37 pound/in ²



SIZE AND WEIGHT CPT+DP CONFIGURATION



A 1918 mm/75.5 inch

B 3257 mm/128.2 inch

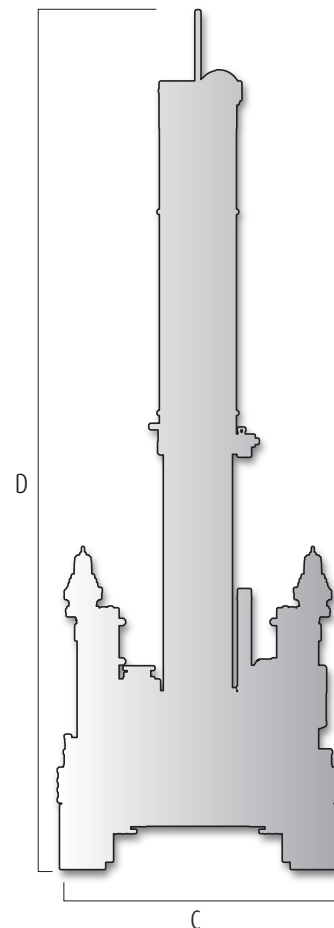
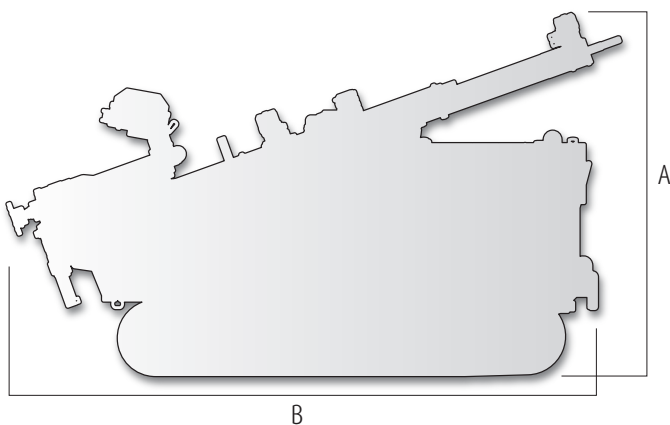
C 1937 mm/76.3 inch

D 6399 mm/251.9 inch

Weight without accessories 2900 kg/6394 pound

Soil pressure (EN 16228-1:2014) 0.28 kg/cm² - 28.17 kPa
4 pound/in²

Soil pressure (without accessories) 0.25 kg/cm² - 25.44 kPa
3.61 pound/in²



AVAILABLE ACCESSORIES

DS 44 SAMPLER



HELICAL ROD

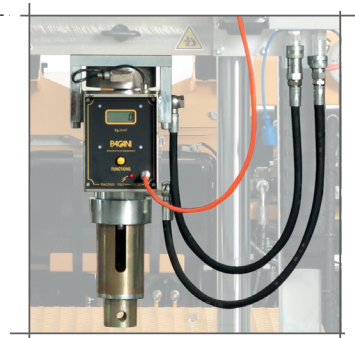
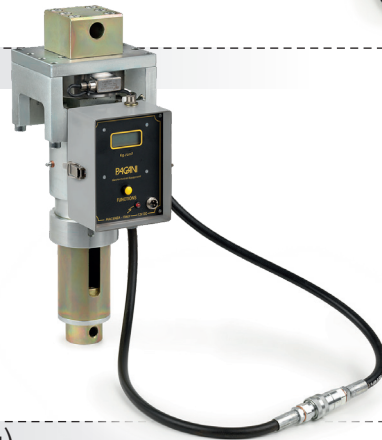
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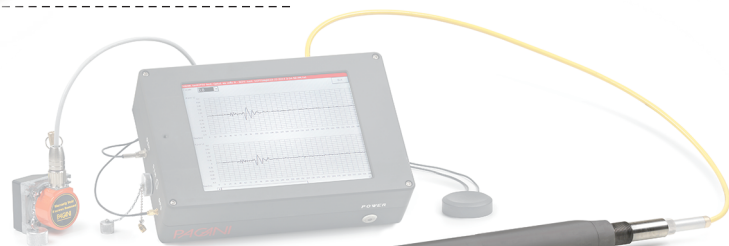
ROTARY HEAD



HIDRAULIC SELECTOR (CPTm)



SEISMIC MODULE S3X (S-CPTu)



10 cm² PIEZOCONE (CPTu)



2 cm² PIEZOCONE (CPTu)





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Non-binding data, with right to make changes.

The diagrams may differ from the standard version.

The equipment may differ depending on which country it is being shipped to.

