

SPT SERIES SOIL INVESTIGATION MACHINE

► HIGH QUALITY ► GOOD SERVICE ► PERFECT AFTER-SALE







STANDARD: DIN EN ISO 22476-14 EN ISO 22476-14 ISO 22476-14

The SPT series dynamic probing rig is a highly functional soil investigation machine that can be used for soil-bearing capacity tests, compaction tests and for soil sampling.

Adjustable dropping height and weight quality allow it to carry out multiple standards of dynamic probing tests. Because of the equipped rod extraction unit, taking out the probe rod or sampler becomes easy. Furthermore, it is versatilely suitable for working in confined spaces, and easy to transport due to the folding mast feature. These make it very helpful for the work on site.

Feature

- Folding mast, easy to move;
- Adaptable to a variety of terrain, wide use;
- Drop weight can be adjusted as needed;
- A variety of dynamic probing testing standards can be carried out.
- O Drop height can be varied between 50 and 750 mm;
- Mechanical blow counter;
- Hydraulic rod extraction unit;





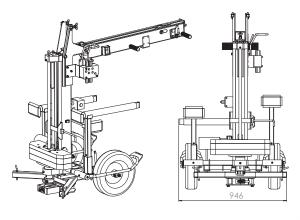
■ SPT-H200

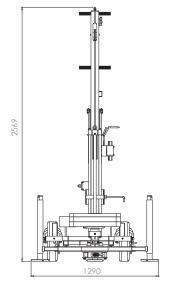
SPT-H is a manually transported dynamic probing rig on wheels with hydraulic motor and folding mast. The integrated three-legged foot with crank makes it can be erected firmly on site and allows for soil sampling at ease.

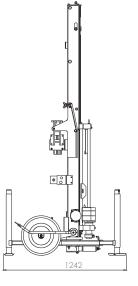




- 6.5hp, 4-stroke Honda motor, flow 15L/min, rate pressure 16MPa.
- Three-leg foot for perpendicular working in all positions.
- \bigcirc 10 kg basic drop weightand 20 kg + 20 kg + 13.5 kg additionalweights.
- O Dynamic probing DPL, DPM, DPH, DPSH and SPT.











■ SPT-C390

SPT-C390 is a fully hydraulic soil investigation machine mounted on a self-propelled rubber chain crawler and extremely suitable for rough terrains. The crawler movement system makes it easy to transport. It can control the lifting of the mast by the oil cylinder, adjust the lateral rotation, adjust the front and back, and fold the upper part of the mast.



Honda engine GX390, maximum power 8.7kw, electric start, with hour meter and voltmeter.



Worktable with vice and large capacity storage boxes on both sides.



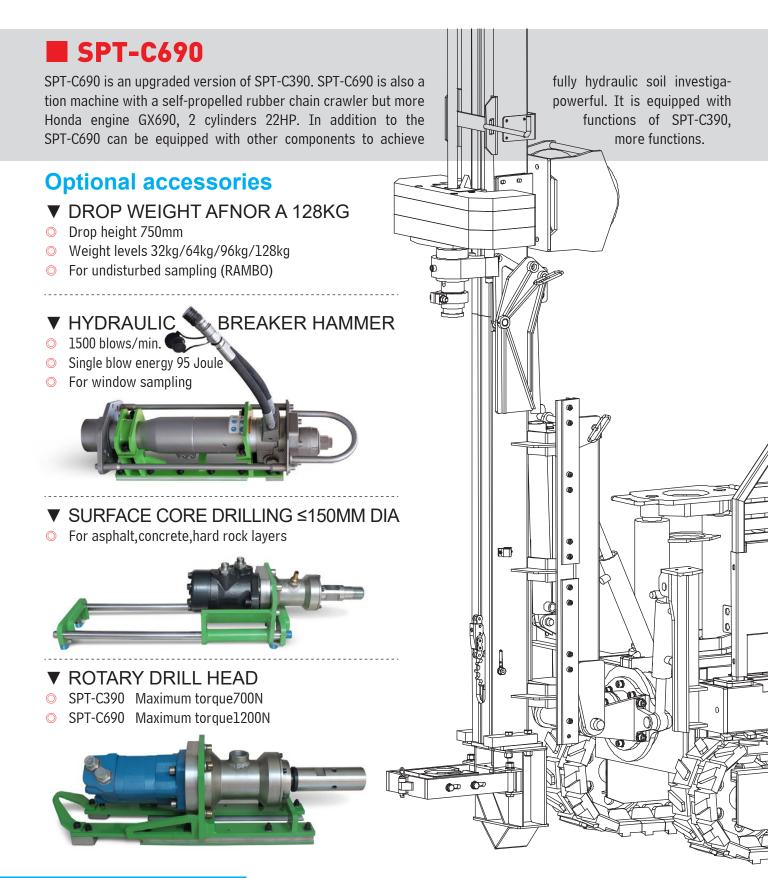
10 kg basic drop weightand 20 kg + 20 kg + 13.5 kg additionalweights.



Dynamic probing DPL, DPM, DPH, DPSH and SPT.







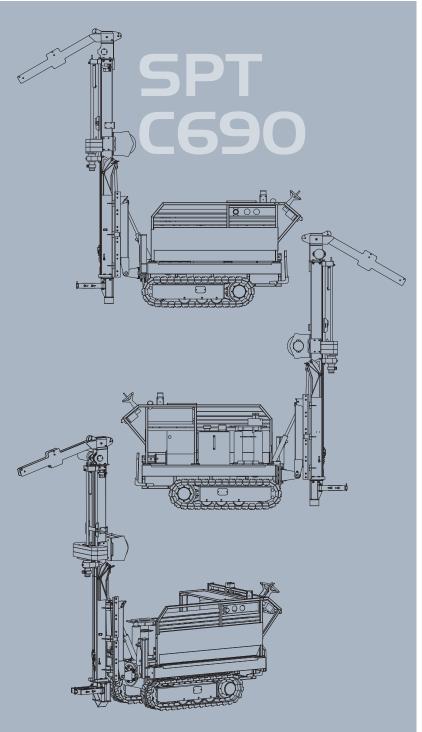
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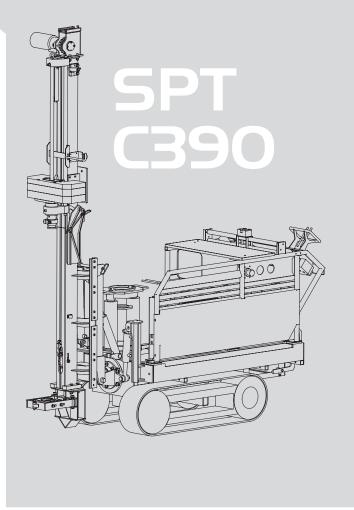
ZHUOZHOU TIANPENG INSTRUMENT MANUFACTURING CO., LTD.Website: www.testmould.com Tel:+86-312-3852880



DRAWINGS AND DETAILS

▼ SPT-C690





▲ SPT-C390



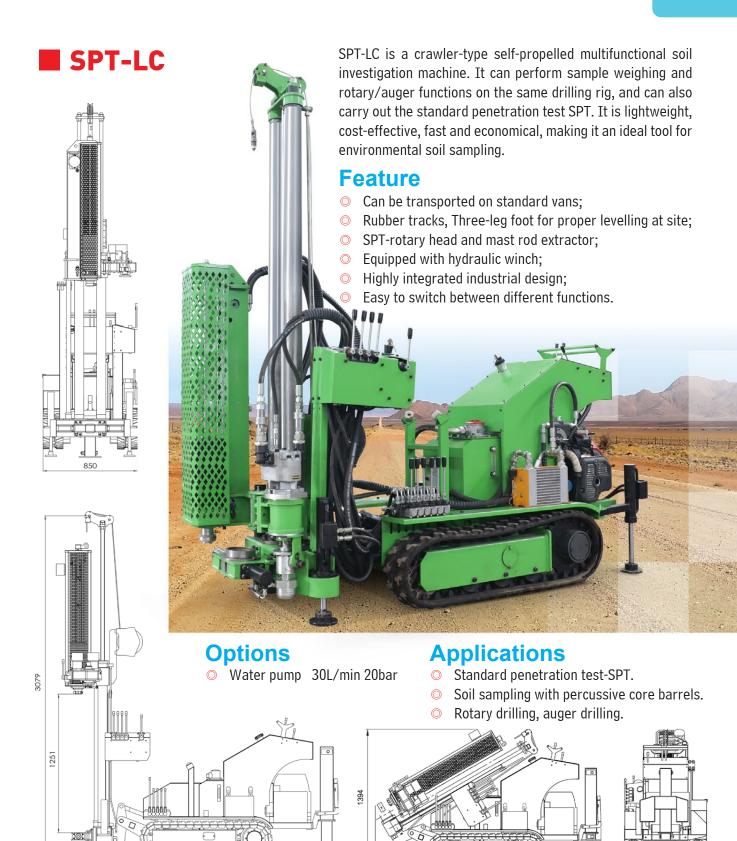
STANDARD CONFIGURATION

Mode Item	SPT-H	SPT-C
Hammer mass	DPL 10kg, DPM 30kg, DPH 50kg, DPSH	& SPT 63.5kg
Number of blows	15-30 blows per minute	
Dropping height	500 / 750mm adjustable	
Window sampling	With 51mm outer diameter, 1m length split sampler (Optional)	Double-layer sampling tube, With 51mm outer diameter, (57/71/89 can be customized) 10m
Size / Weight	1600x940x1540mm 230kgs	820x1500x2400 mm (Crawler/ Full size) / 845kgs
Max speed		2.5km/hour
Rod	Dia. 22mm x 1m, 2 pcs; Dia. 32mm x 1r	n, 10 pcs
Brass cap	One is suitable for dia. 22mm rod, the	other is for dia. 32mm rod
Cone	90° cones, nominal base areas are 10c	m2, 15cm2, 16cm2, and 20cm2 respectively
Rod clamp	Suitable for dia. 22mm and dia. 32mm	rod and dia. 51mm window sampler
Rod extraction unit	Including oil cylinder and clamp (suita	ble for 20~65mm)
Tools	~	



	SPT-H200	SPT-C390	SPT-C690
ENGINE	Honda GX 200	Honda GX 390	Honda GX 690
ADD-ON DEVICES			
Drop weight system 128 kg / 750 mm drop -Dynamic probing ISO/DIS 22476-2:2002	-	_	$\sqrt{}$
Hydraulic breaker hammer -Soil sampling -1.500 blows @ 95 Joule per minute		√	√
Rotary drill head -SPT-C390 Maximum torque700N -SPT-C690 Maximum torque1200N	_	√	\checkmark
Surface core drilling ≤150 mm dia -For asphalt,concrete,hard rock layers	_	\checkmark	$\sqrt{}$
BASIC CONFIGURATION			
Drop weight system -SPT 63.5 kg/750mm 50kg/500mm 30 kg/500mm 10kg/500mm	\checkmark	√	\checkmark
SPT Drop weight system	V	$\sqrt{}$	$\sqrt{}$
Battery	_	$\sqrt{}$	$\sqrt{}$
Electric starter	_	$\sqrt{}$	$\sqrt{}$
Battery power display meter	_	√	√
Engine hour meter	_	√ 	√
Emergency stop switch		√ /	√ /
Hydraulic lateral mast adjustment		V	√ /
Hydraulic erection of top mast part		V	√ /
Tube vice / work bench	/	√ /	√ /
Mechanical blow counter	√	√ √	√ √
Hydraulic rope winch	_	V V	√ √
LED Working light		$\sqrt{}$	√ √
Toolkit		V V	√ √
Guide block 22/32/51	√ /	$\sqrt{}$	√ √
Auxiliary tank 25L	√ /		
Lifting cylinder 100mm/16t with roller type chuck	√	√ √	$\sqrt{}$
Lifting cantilever (Accessories for replacement)	_	V	V
ACCESSORIES/OPTIONS			
Hand truck for add-on devices	_		







■ TECHNICAL PARAMETERS

ENGINE		HONDA GX690	
Power		16.5Kw (22HP)	
Cylinders		2	
Speed		3600r/min	
Voltage		12V	
Starting mode		Electric start	
Flow of hydraulic pump		60L	
Operating pressure		170Bar	
Tank capacity		70L	
MAST			
Pull up		13T	
Pul down		9T	
Stroke		1200mm	
CRAWLERS			
Width		820mm	
Length		1200mm	
Shoes		Rubber	
Approach angle/Departure angle		24°/19°	
Speed		3Km/h	
Legs		2+1	
SPT SYSTEM			
drop weight		10kg/30kg/50kg/63.5kg	
Stroke		500mm/750mm 760mm (opti	onal)
Speed		0-30gpm	
Counter		Automatic	
ROTARY HEAD	OPTION A	OPTION B OPTION	С
Torque Nm	420/840	510/1000 650/1300)
Speed	130-260	100-210 70-140	
HYDRAULIC ROPE \	WINCH		
Wire rope		6mm	
Pull up		0.8T	