

CRAWLER-MOUNTED CPT CABIN TPC-20X

The TPC-20X adopts a fully hydraulic engineering crawler chassis, engine, hydraulic valves, and other components, ensuring stable and reliable performance. The advanced hydraulic system uses a segmented multi-way reversing valve with a compact structure, small size, easy installation and maintenance, low pressure loss, and the relief valve has good overload characteristics.

With superior mobility, the system is capable of conducting static cone penetration testing in harsh terrains such as beaches, riverbanks, sandy areas, snow-covered or icy roads, rice fields, and muddy environments.

The TPC-20X is a versatile equipment. In addition to static cone penetration testing (CPT), users can also use it with optional accessories to perform in-situ tests such as piezocone penetration test (CPTu), flat dilatometer test (DMT), vane shear test (VCT), and wave velocity test (WVT).



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FEATURE

- Simplified structure allows for fast and convenient operation.
- Supports all-weather operation for reliable field performance.
- Equipped with heating and cooling air conditioning for year-round comfort.
- Features a rotary fully hydraulic self-anchoring device for automated anchoring.
- Industry-exclusive hydraulic roof lifting system for easy access and operation.
- Cabin is thermally insulated to maintain stable internal conditions.
- All four cabin walls are foldable and sealable for flexibility and protection.
- Built-in LED lighting ensures clear visibility during low-light operations.
- The hydraulic self-anchoring system is efficient and durable.



TECHNICAL SPECIFICATIONS

Chassis	Hydraulic crawler chassis for engineering use
Drive system	Original imported hydraulic travel motor
Track type	Engineering-grade rubber tracks
Engine	Four-cylinder diesel engine for engineering use
Cooling method (Engine)	Water-cooled
Fuel tank capacity	49 L
Rated power	37 kW
Rated speed	2300 r/min
Rated penetration force	200 kN
Rated extraction force	250 kN
Cylinder stroke	550 mm
Cylinder retraction	Rapid retraction
Casing insertion	Direct casing insertion supported
Rod clamping system	Mechanical automatic rod clamp or wedge-insert dual-use
Outrigger quantity	4
Outrigger stroke	1530 mm

SINCE 2006

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