GÉOTEC ÉQUIPEMENT

YOUR PARTNER IN GEOTECHNICS

TB 350 E

GENERAL SPECIFICATIONS

The TB 350 E drill rig is a self-propelled rubber track crawler (classified as a Cat. 2 work site machine as per Recommendation R.372, as amended). The rotary head is driven by a hydraulic back-geared motor. Rig movements are controlled using a remote control. Two side trays provide space for tool storage and battery. All drill rig functions (except rig movements) are controlled using the control panel; the panel rotates so that the operator can stand in the right position for drilling. Rig stabilisation is provided by four hydraulic jacks mounted with pilot operated check valves.

TECHNICAL CHARACTERISTICS

Dimensions	In transport	In operation
Length	6410 mm	4190 mm
Width	1850 mm	1850 mm
Height	2290 mm	6380 mm

Weight: 4950 kg.
Track width: 300 mm. Length of tracks in contact with ground: 2067 mm. Ground clearance: 260 mm.
Translation speed: 5 km/h
Ground bearing stress: 0.40 bar.

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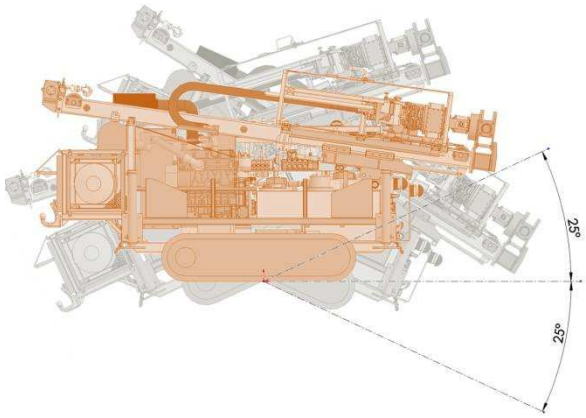
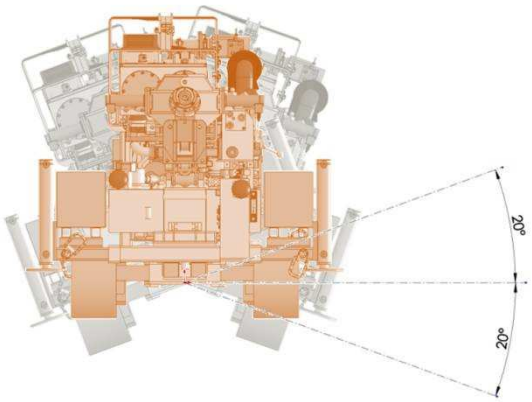
AUTHORISED STATIC INCLINATION ANGLES



Slope (continuous)



Out of plumb

HYDRAULIC MOTOR

Perkins motor; 4 jacks, fluid-cooled; useful capacity: 83 kW at 2200 rpm (100 hp).
Rotation is performed by variable cylinder displacement pumps, other functions are performed by a gear pump.
Hydraulic tank: 230 L. Air-cooled, 12 V

MAST

Hydraulic jack-lifted.
Jack-driven cart and lifting chain. Standard stroke: 3600 mm.
Mast displacement stroke: 1000 mm.
Pullback strength: 5000 daN (theoretical at 200 bars).
Bearing strength: 3000 daN (theoretical at 200 bars with anchored rig).
Max. thrust speed at work: 16 m/mn.
Max. pullback speed in manual mode: 20 m/mn.
Max. progression speed in manual mode: 32 m/mn.

HYDRAULIC CLAMPING JAW

This drill rig is equipped with a double clamping jaw. Upper clamping jaw can rotate and slide (200mm). Rod clamp, Ø 30 to 200 mm.
Clamping force: 6000 daN maximum (each).

ROTARY HEAD WITH HAMMER

Composed of a power divider with reducer, variable cylinder displacement motor, and hydraulic hammer. Drill hammer frequency is above 2000 cycles/mn. Hydraulic disengagement of the head allows for release of the drilling shaft using the control panel. Volumetric displacement of the motor is adjusted using a potentiometer on the control panel.
R66 male outlet on right side and R38 female outlet on left side. Adjustment of drive shaft is possible.

Volumetric	Maximum	Minimum
Maximum	400 m.daN	100 m.daN
Maximum	160 rpm	600 rpm

WIRELINE WINCH

Lifting power: 500 daN on first coil.
Equipped with 120m cable (Ø6) and hook.
Maximum lifting speed: 150 m/mn.
Automatic locking brake, and load restraint system.
Lifting height: 5350 mm.

INJECTION PUMP:

3 pistons, ceramic cylinders, valve system.
Maximum flow: 160 L/mn.
Maximum pressure: 30 bars.

COMPATIBLE TOOLS (not supplied)

DESTRUCTIVE DRILLING

Rotary:
Knurled tricone (Ø66 to 225 mm).
Three-wing bit (Ø89 mm to 222 mm).
Rotary with hammer:
Bit (Ø56 to 150 mm).
Down-the-hole hammer (Ø2v-3v-4v-5" -6").
Odex, 76 mm (top hammer).
Odex, 90-115 and 140 mm (down-the-hole hammer).
Auger: Ø63, 85, 102, 140, 178, 200 mm
and hollow augers.

CORE DRILLING

Drived:
Sampler (Ø64, 76, 91, 105, 111, 127 mm, 114 LS).
Rotary:
Double core barrel (Ø56, 66, 76, 86, 101, 116, 131, 146 mm).
Triple core barrel (Ø101, 116, 131, 146 mm).
Wireline core barrel (96 mm in HQ and 122.6 mm in PQ).

CAPACITY (depending on rock) 100 m in core drilling.

15 m with a hollow auger.
150 m in destructive mode with down-the-hole hammer.

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