

TB 175 E

GENERAL SPECIFICATIONS

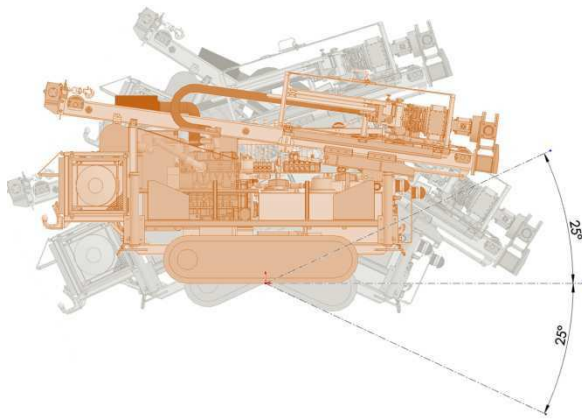
The TB 175D drilling rig is a self-propelled rubber track crawler with variable spacing between centre lines (classified as a Cat. 2 work site machine as per Recommendation R.372, as amended). The rotary head is driven by a hydraulic back-gear motor. Rig movements are controlled using a remote control. All drilling rig functions (except rig movements) are controlled using the control panel. Rig stabilisation is provided by four hydraulic jacks mounted with pilot operated check valves (stabilisers are removable). This rig is equipped with two removable rod racks.

TECHNICAL CHARACTERISTICS

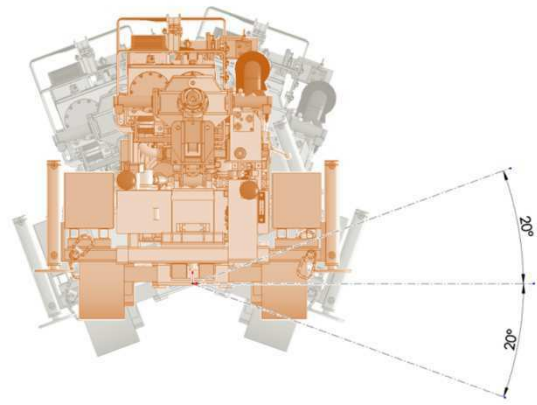
Dimensions	In transport	In operation
Length	3400 mm	3320 mm
Width	780 to 1618 mm	1428 to 1618 mm
Height	1665 mm	3400 mm

Weight: 2150 kg.
 Translation speed: 3km/h
 Ground bearing stress: 0.4 bar.

AUTHORISED STATIC INCLINATION ANGLES (with spread tracks).



Slope (30° instantaneous)



Out of plumb

HYDRAULIC MOTOR

Diesel motor; 4 jacks, fluid-cooled.
Useful capacity: 38 kW at 3000 rpm
3-case and single case gear pumps.
Hydraulic tank: 100 L.
Air-cooled, 12 V

Removable **MAST** (secured by two axles), hydraulic cylinder-lifted.
Jack-driven cart and lifting chain.
Standard stroke: 2000 mm
Mast displacement stroke: 400 mm
Pullback strength: 2800 daN (theoretical at 200 bars).
Bearing strength: 1550 daN (theoretical at 200 bars with anchored rig).
Max. thrust speed at work: 30 m/mn.
Max. pullback speed in manual mode: 38 m/mn.
Max. progression speed in manual mode: 70 m/mn.

This rig is available in short mast version (adapted cage).

Height in operation: 2500 mm.

Mast displacement stroke: 1300 mm.

HYDRAULIC CLAMPING JAW

Rod clamp: 20 to 150 mm.
Clamping force: 4000 daN maximum

ROTARY HEAD WITH HAMMER

Composed of a power divider with reducer, variable cylinder displacement motor, and hydraulic hammer.

Volumetric	Maximum	Minimum
Maximum	125 m.daN	60 m.daN
Maximum	250 rpm.	500 rpm.

HIGH TORQUE DRILL (optional)

A hammerless variable cylinder displacement motor replaces the rotary head with hammer.

Volumetric	Maximum	Minimum
Maximum	300 m.daN	150 m.daN
Maximum	70 rpm	140 rpm

Compressed air injection nozzle: 1"1/4.
Female outlet, 2"3/8 API

HANDLING WINCH:

Lifting power: 600 daN.
Maximum lifting speed: 29 m/mn.
Hydraulic load restraint system.

TOWING WINCH (optional):

Power: 2700 daN.
Rear-mounted.

INJECTION PUMP:

Maximum flow: 100 L/mn.
Maximum pressure: 25 bars.
Hydraulic drive.

COMPATIBLE TOOLS (not supplied)

DESTRUCTIVE DRILLING

Rotary:

Knurled tricone (Ø66 to 89 mm).
Three-wing bit (Ø 89 mm).

Rotary with hammer:

Bit (Ø56 to 102 mm). Down-the-hole hammer (Ø2"-3"-4").
Odex, 76 mm (top hammer).
Odex, 90-115 mm (down-the-hole hammer).

Auger: Ø63, 85, 102, 140 mm

CORE DRILLING

Drived:

Sampler (Ø64, 76, 91, 105 mm).

Rotary:

Double-core barrel (Ø56, 76, 91, 105, 116 mm)
Triple-core barrel (Ø101, 116 mm)

CAPACITY (depending on soil conditions):

30 m in core drilling
80 m with a tricone.