



HIGH PERFORMANCE, LOW IMPACT.

Experience the power of a fully electric horizontal directional drill with an impressive 1,200 kN pull force and Range 2 capability. Engineered to convert energy into meters of successful underground installation, it thrives in diverse soil conditions — all while keeping energy consumption remarkably low.



POWER ON DEMAND. Subsurface conditions vary significantly — from piloting a 600-meter borehole in unconsolidated soils to reaming a 48 in diameter borehole through competent rock. The direct electric drive system enables precise power modulation, delivering only the required torque and rotational speed for each phase of the operation. This ensures optimal energy utilization without overconsumption or performance compromise.



UNMATCHED DRILLING POWER. With an impressive peak torque of 110 kNm, the D120E rivals the performance of larger maxi rigs. Its advanced direct electric drive delivers swift responsiveness, pinpoint control and scalable power maximizing efficiency across every phase of operation.



MULTIPLE POWER SOURCE COMPATIBILITY.

The system is engineered for flexible power input, allowing connection to either a generator set or a high-capacity battery pack, ensuring continuous performance across diverse jobsite conditions whether operating in remote areas or in urban environments where low-emission, low-noise operation is essential.



EXTENDED DRILL PIPE RANGE. The vise travels the full length of the rack, delivering 220 kNm of breakout torque and 110 kNm of makeup torque. This allows the use of drill pipes with an outer diameter of up to 7.625 in (194 mm). Its large passthrough opening supports tooling and steel casing with outer diameters up to 406 mm (16 in), providing enhanced versatility for demanding drilling operations.



PRECISION CONTROL INTERFACE. The direct electric drive system enables highly accurate regulation of force, speed and positional movement, supported by detailed data logging of all operational parameters. A modern human-machine interface (HMI), paired with advanced capacitive joysticks, transforms the drilling process into a fully digital experience — enhancing control, responsiveness, and Vermeer operator efficiency.

EQUIPPED TO







D120E HORIZONTAL DIRECTIONAL DRILL

GENERAL DIMENSIONS AND WEIGHTS

Minimum transport length: 15,4 m Minimum transport width: 2,55 m Minimum transport height: 3,1 m Maximum transport weight: 37.500 kg

OPERATIONAL

Maximum thrust: 1.000 kN

Maximum pullback: 1.200 kN

Maximum carriage speed: 30 m/min

Maximum spindle torque: 110 kNm

Continuous maximum spindle torque: 50 kNm at 30 rpm

Maximum rotational spindle speed: 80 rpm Maximum ground drive speed: 1,5 km/h

Fluid course: 101,6 mm (4 in)

Drill rack angle: 6°- 20° (10.5% - 36.4%)

VISE

Full-rack travelling vise assembly

Vise assembly detachable from the rack Maximum breakout torque: 220 kNm Maximum makeup torque: 110 kNm Vise assembly clamp force: 840 kN

Open top: 254 mm (10 in)

Passthrough opening: 406 mm (16 in)

Carriage vise travel: 650 mm Carriage vise clamp force: 840 kN

DRILL PIPES

Outer diameter: up to 198 mm (7.625 in)

Length: range 2

POWER

Genset: 200 kVA - 350 kVA, 400 V, 50 Hz

FEATURES

Wireline rear drum with tensioning system

Full-length wide catwalk

Rod supports built-in the rack

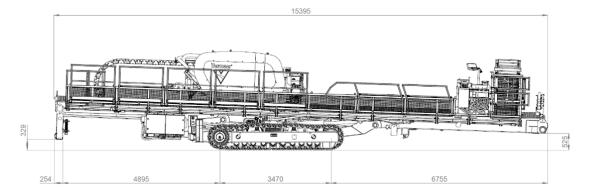
Hydraulic rack/undercarriage detach

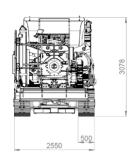
Offboard 3-m (10 ft) operator's cab, adjustable in height Auxiliary 65-kVA hook-on genset for maneuvering and setup

Color cameras system

Strike alert system

Remote lockout





D120E data is subject to be changed without notice.

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