

**STONE
POWER**

www.stonepower.fi

Stone eScorpion

The world's first
fully battery driven
crawler drill



Stone eScorpion for challenging work sites

Stonepower has developed the first fully battery-driven crawler drill rig in the world! It is an excellent solution for challenging drilling work in cities and other work sites where the benefits of the electric-driven eScorpion can be fully utilized.

Its superior advantages include CO₂-free surface drilling, low noise level, compact size, wide reach and coverage, 350-degree turning superstructure, and rough terrain capabilities. In addition, it is capable of operating underground as well.

eScorpion offers a large selection of options to choose from depending on the work requirements. In addition to conventional drilling applications, you can also choose, for example, a drill & split boom, water mist system for dust control, or an extra noise silencer on your eScorpion.

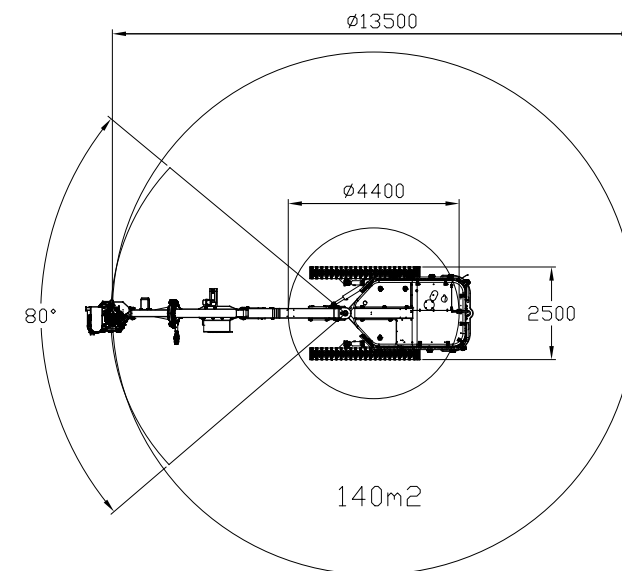
eScorpion is excellent for bolting, and vertical or horizontal drilling at construction sites, canals, tunnels, mines, and stone quarries through all seasons. The machine is the only one on the market to have the integrated drill & split application available. eScorpion can operate with high precision in small spaces thanks to its agility.

The 400 VDC 120 kWh battery with safe and long-lasting LFP chemistry ensures a long service life. eScorpion is PowerPack-ready and supports 93 kW CCS fast charging, which can charge the battery from empty to full in up to two hours.

22kW Type-2 charging can also be used during operation. The advanced permanent magnet motor control saves energy, and CAN-controlled LS hydraulics guarantee precise and efficient operation.

User benefits

- **Emission-Free**
No CO₂ emissions or exhaust gases.
- **Quiet Operation**
Low noise levels reduce noise pollution.
- **Low Operating Costs**
No fuel costs, and maintenance expenses are significantly lower compared to combustion engine machines.
- **Extended Maintenance Intervals**
The simplicity of the electric machine reduces the need for servicing and allows for longer maintenance intervals.
- **Minimal Maintenance Requirements**
Fewer maintenance points mean less downtime and improved productivity.
- **Safe for Enclosed Spaces**
Safe to use in tunnels, buildings, and other confined work environments.
- **Long Battery Life & Easy Charging**
A single charge provides approximately 4 hours of operation. Maintenance charging enables continuous work. Batteries can be charged using low current (16A or 32A), which is typically available on job sites.



- **Wide Range of Accessories**
A broad selection of accessories is available for different work phases, including a Drill & Split wedging boom, drill beam noise reducer, water mist system, drill bit sharpener, measuring devices, and even custom colors upon request.
- **Custom Accessories**
We also design and manufacture special equipment tailored to customer needs, such as reinforcement attachments. Feel free to contact us for more information!

Technical data

GENERAL

Drilling diameter	41–64 mm
Drilling depth	4–14,8 m
Weight	10 000 kg
Rock tools	R32/R38/T38
Application areas	Drill & Blast, anchoring, trenching, Drill & Split
Turning radius	350°
Max. speed	3 km/h

ROCK DRILL

Model	Montabert HC50
Drill rods	R32 / T38
Borehole	41–64 mm
Percussion pressure	max 140 bar
Percussion power	max 14 kW
Torque	max 385 Nm
Flushing	air/water
Weight	103 kg

FEED DEVICE

Model	CF4300
Feed length	6 000 mm
Feed travel length	max 4 050 mm
Starter	max 4 300 mm (14 ft)
Feed	cylinder
Drill clamps	standard
Feed beam zoom	1300 mm
Incl of feeding device	x = +/- 180°, y = 125°

BOOM

Type	articulated boom
Reach	6 m
Working area	140 m ²
Rotator	360°
Boom swing	+/- 40°
Horizontal drilling	left and right

UNDERCARRIAGE

Track type	ITR
Track width	300 mm
Ground clearance	min 300 mm
Track oscillation	+/- 12°

ENGINE

Type	electric
Battery power	120 kWh
Working time	3–4 h (150–200 m drilling)

With maintenance charging,
drilling time is as long as working time

Fast charging	1–2 h
Power Saving System	

COMPRESSOR

Type	Gardner Denver Tamrotor Tempest 6
Capacity	3 m ³ /min
Pressure	max 10 bar
Filters	1 cyclone, 1 paper, 1 safety

DUST COLLECTOR

Type	Stonepower DC9–600
Filter type	AFA 611
Number of filters	9

HYDRAULIC SYSTEM

Driving, boom, drilling	LS controlled
Filters	2 pressure, 1 return
Cooling capacity	Tamb < +50 °C
Hydraulic oil tank volume:	250 l
Shank lubricator	Stonepower

CONTROL SYSTEM

Remote control	HBC (display as an option)
Anti-jamming automation	PLVC controlled
Voltage	24V DC

TRANSPORTATION MEASUREMENTS

Weight with standard equipment	10 000 kg
Width	2 200 mm
Height	2 700 mm
Length	5 990 mm
Feeding device (transp. length)	5 600 mm

OPTIONS

GNSS compass	
GPS level	
Rod carousel 3×12 ft	
Water flushing kit	
Central lubrication system.....	Lincoln
Drill bit grinder	Dynaset
Drill & Split boom (fast coupling)	Spitstone
Rubber pads for tracks	94 pcs
Water mist system	
Drilling noise reducer	

Specialist in Surface drilling machines

Stonepower surface drilling and
excavation machinery for demanding
worksites & challenging conditions.



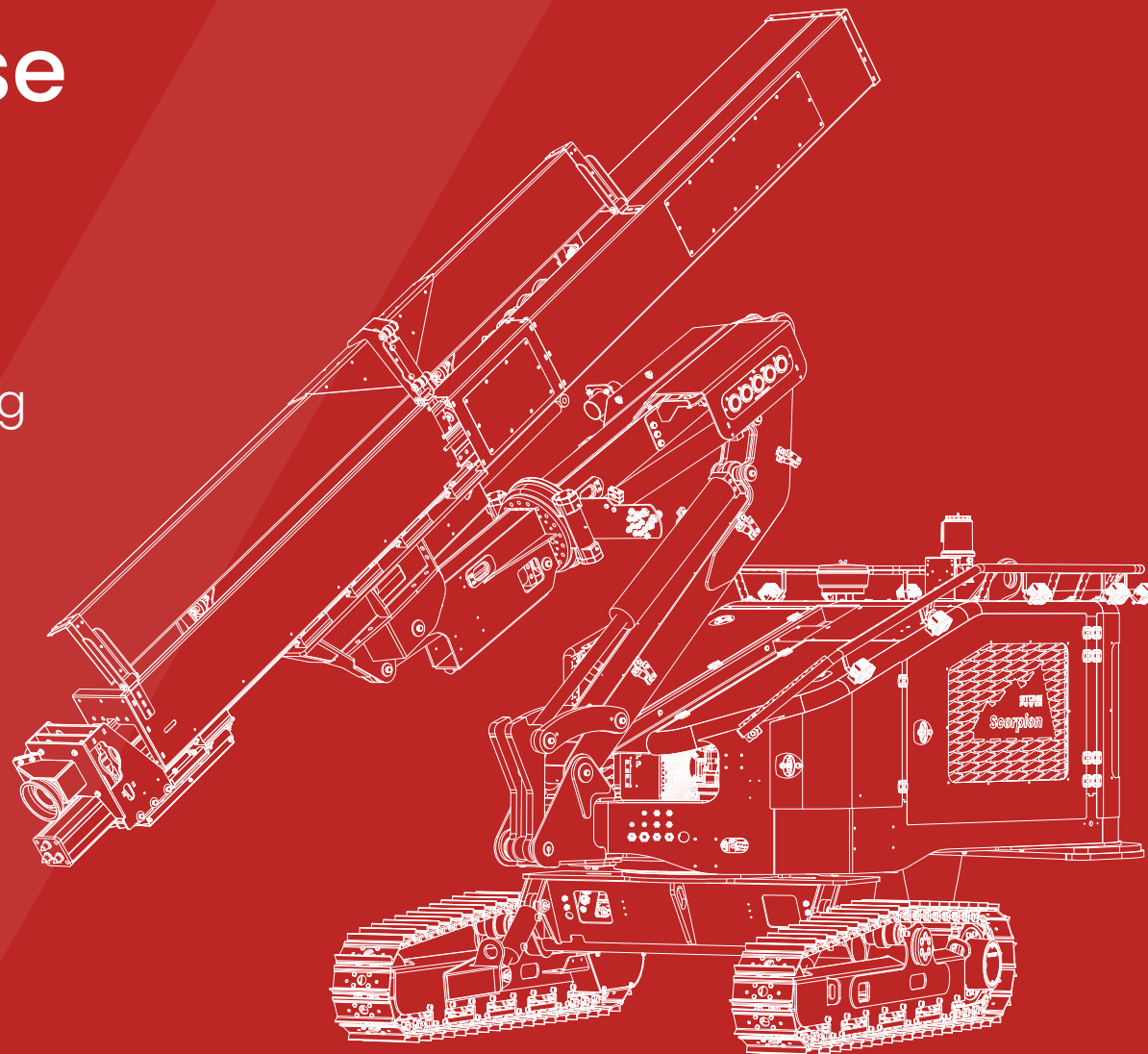
Mikko Mäkimattila

CEO, International Sales
mikko.makimattila@stonepower.fi
+358 50 320 8043



Petri Lehtinen

Sales in Finland and the Nordics, partner
petri.lehtinen@stonepower.fi
+358 40 588 2755



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