

SpeedCut

Diamond wire cutting machine for marble, granite, sandstone and limestone in the dimension stone industry.

Wire speed: 0–45 m/s (0–148 ft/s)

PICOROC®



Maximum performance with the highest cutting capacity

SpeedCut has a unique wire tensioning system that makes it possible to combine the high cutting speed with low wire consumption. This patented system enables the machine to place constant tension on the wire.



+ Full control of your productivity

The PMI (Panel Machine Interface), allows several operations such as parameter setting, recording and loading of saved cutting data. The PMI controls both inverters (retraction/speed control) and the load cell. It keeps a constant tension on the diamond wire regardless of external circumstances such as water flow, non-homogenous materials or a fall in electric tension. Thanks to this, you gain the full potential of the wire and increase its life span. The PMI gives the operator full control through every cut.



+ Cuts a perfectly smooth face

SpeedCut creates a perfectly smooth face of the block. It is capable of cutting both vertical and horizontal and close to ground level so that you get an even bottom. Furthermore, SpeedCut's main flywheel can be rotated 320°. It can make parallel cuts with a maximum distance of two meters without repositioning, thanks to the rotation of the main flywheel.



+ Highest cutting capacity

The combination of the 8-pole motor and the special software developed for SpeedCut is the key to reach maximum performance. The motor provides necessary torque to adapt the 1000 mm flywheel with high contact surface for a better capacity, especially when starting the cuts and makes it possible to get the wire to speeds up 45m/s. With SpeedCut you gain the highest cutting capacity available on the market.



A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustain speak performance. Picoroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and Picoroc service from our certified technicians, we safeguard your productivity – wherever you are.

Technical specifications

Main Components

- Two versions 75 & 100 hp.
- 8-pole motor.
- PLC control system.
- PMI wire remote control.

DSI application

Marble
Granite
Sandstone
Limestone

Motor, 8-pole

SpeedCut 75	55 kW/75 HP
SpeedCut 100	75 kW/100 HP

Inverter

	Metric	US
Diamond wire speed, variable	0–45 m/s	0–148 ft/s
Inverter main motor	Omron (YASKAWA)	
Inverter backing motor	Omron (YASKAWA)	
Filtered and forced air ventilation		

Flywheel

	Metric	US
Main Flywheel diameter	1 000 mm	39.4"
Flywheel guide diameter	425 mm	16.7"
Rotation main flywheel	320°	

Environment

	Metric	US
Temperature limits	-20°C - +45°C	-4°F - +113°F

Suitable cutting stages

Primary bench cutting
Horizontal cutting
Secondary cutting

PLC control system

Tensioning system in electronic way through a loading cell grants a constant tension of the wire

PMI wire remote control

It allows:

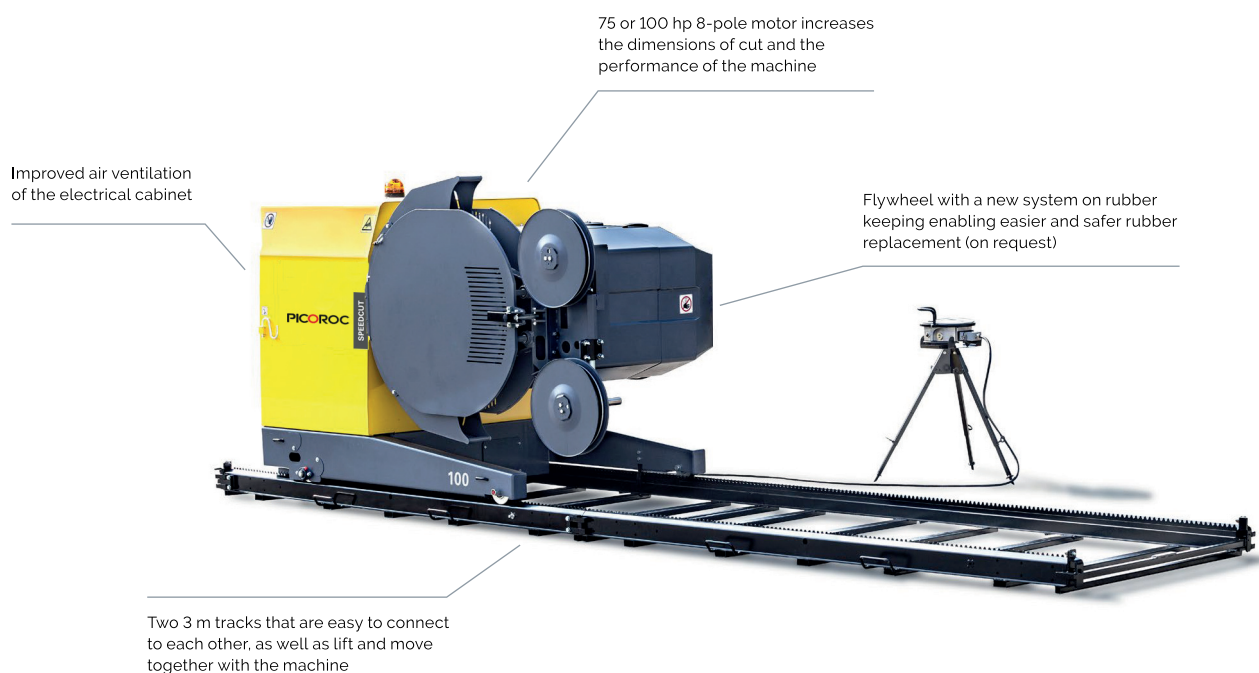
- The direction of commands from the operator
- A constant auto - diagnostics of the machine in order to find signal dysfunctions immediately
- Recording data and time of possible manumissions
- Download all the info on a USB key

Management and memorization of all the working parameters:

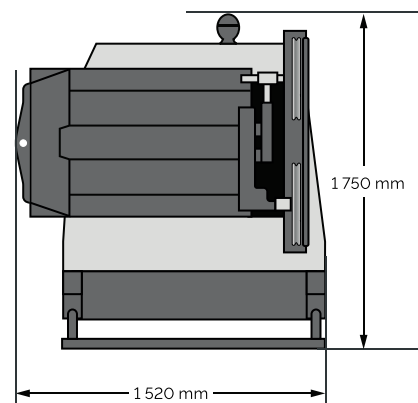
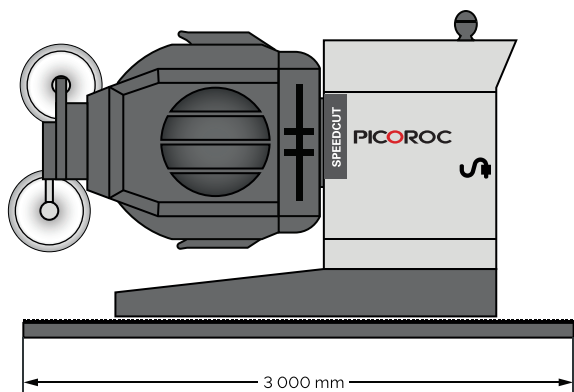
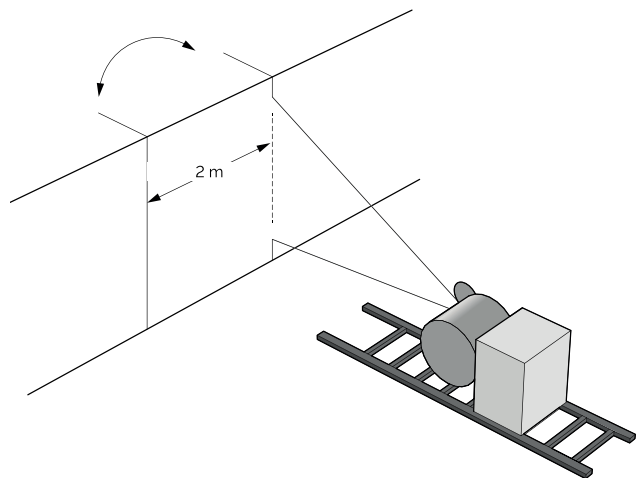
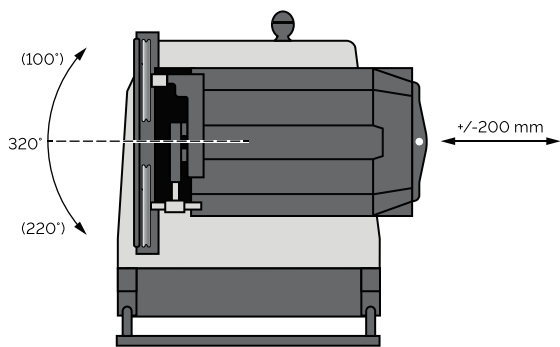
- Time
- Length of cutting
- Performances of the wire etc

Track

- Two, 3 m length
- Light, strong and easy to connect to each other
- Track can be lifted and moved together with the machine



Technical specifications



Dimensions

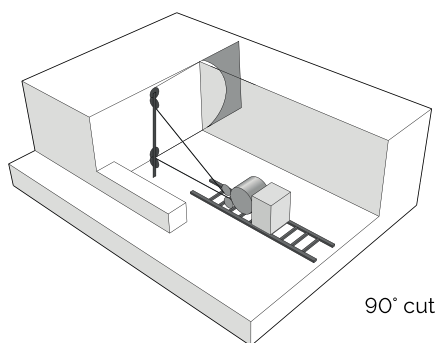
	Metric	US
Length (L)	3 000 mm	118.1'
Width (W)	1 520 mm	59.8"
Height (H)	1 750 mm	68.9"

Weight

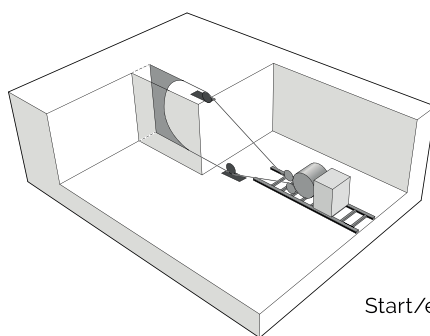
	Metric	US
Standard unit excluding all options and accessories	2 660 kg	5 864 lb

Technical specifications

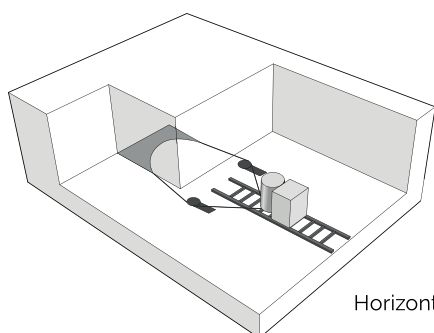
Cutting areas



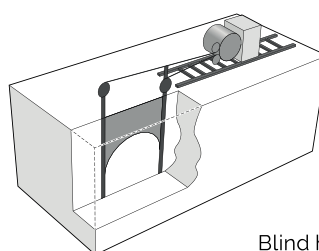
90° cut



Start/end cut



Horizontal cut

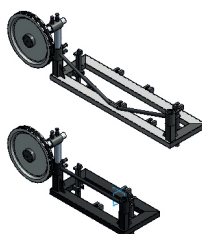


Blind hole cut

Accessories (optional)



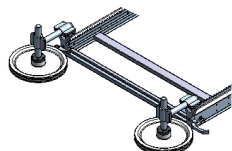
Device with four guide wheels for cutting at 90°.



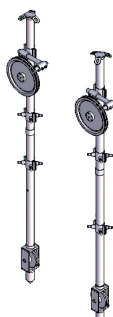
Start/end cutting device with guide wheel.



Start/end cutting device with spherical junction.



Horizontal cutting device with guide wheels.



Blind cutting device with guide wheels.

Optional equipment

- Electrical connection plug.
- Manostat temperature control kit.

United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Picoroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.
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