



TECHNICAL DATA SHEET

LithoPore® Cutting Machine SM20

10/2018

Section 1: Product Specification

1.1. Trade name

LithoPore® Cutting Machine SM20

1.2. Manufacturer

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The **LithoPore® Cutting Machine SM20** is a dust free automatic wire cutting machine. It is suitable to cut wet foamed concrete LithoPore® up to ~200 kPa of compressive strength.

Section 2: Advantages at a glance

- Dust free cutting process
- Reduced wastage material due to finer cutting wires
- Fast exchange of wires
- Automatic tension control of wires
- Flexible block design possible

Section 3: Description

- 1x cutting tower for longitudinal, transversal, top and bottom cutting
- Fully-automatic cutting process
- Block height is fixed through mould height
- Flexible block dimension (100mm and 150mm)
- Minimum block thickness 100 mm
- Maximum internal mould dimensions (1220 x 1220 mm) (subject to adjustments)
- Maximum block height 600 mm (subject to adjustments)



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Section 4: Technical Data

Powerage

Tower 1	5.1 kW
Voltage	400 V, 50 Hz
Current	8.2 A

Tower quantity: 1 (one)

Cutting speed: subject to regulation through software
Sample mould: not included (1220x1220x700mm)
Mould type: For cutting with LithoPore® Cutting Machine SM20 the standard LithoPore® Block Mould is equipped with an additional bottom that is mounted on a pressured ball bearing with roles. Therefore before casting LithoPore® into moulds either a thin plastic bag has to be placed in the moulds or the small gap between sides and bottom has to be sealed with a suitable material.

Capacity, min:	2 cubic meters per hour
Capacity, max:	3 cubic meters per hour
Effective capacity:	depends on final dimension of block
Rail system:	included
Storing / operating temperature:	+5°C to +60°C

Section 5: Application

The **LithoPore® Cutting Machine SM20** is only suitable for the cutting of wet LithoPore® up to ~200 kPa of compressive strength. Higher compressive strength at cutting time is leading to wire rupture and reduced life time of used wires.

Section 6: Cutting procedure

- The mould's sides have to be removed before cutting
- The block is remaining on the mould basement while cutting
- The block on mould basement will be pushed manually into cutting system
- The block on mould basement will be cut in transversal mode
- The block on mould basement is taken out manually after transversal cut
- The block on mould basement has to be turned by 90 degrees
- The block on mould basement will be pushed manually into cutting system again
- The block on mould basement will be cut in longitudinal mode
- The block on mould basement will be taken out from the other side of the cutting tower.

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