



TECHNICAL DATA SHEET

version 3.2010

LithoPore™ Station 1000 PRO page 1/3

1. Product Specification

System Name: **Foamconcrete Station System (FCS-System)**
Trade Name: **LithoPore™ Station 1000 PRO**



Company: **Dr. Lucà & Partner Ingenieurkontor GmbH**
Telefon: **+49 30 457989680**
Fax: **+49 30 457989689**
Email: **info@dr-luca.com**

LithoPore™ Station 1000 PRO is a 1000 litres foamed concrete mixer equipped with a screwing pump and the innovative low pressure and energy saving foaming system (only 1.85 kW), all-in-one. The machinery has been designed taking into account the construction site requirements, with particular attention to small dimensions, simple use, easy cleaning and maintenance. The **LithoPore™ Station 1000 PRO** enables the user to produce high quality foamed concrete in different densities.

With a strong and compact structure, reduced dimensions (1950x1450x1220 mm) and low weight (875 kg) **LithoPore Station™ 1000 PRO** is easy to move wherever you want.

World Wide Unique foaming system

The foaming system includes two different pumps. One pump for the water and one proportional pump for the foaming agent at which the dilution ratio can be automatically adjusted. Therefore no predilution of water and foaming agent is necessary. The whole system is running at very low pressure (100-200 mbar) and is forming up a very strong foam bubble membrane. This system is especially developed by Dr. Lucà & Partner for the world wide unique advanced foaming agent brand LithoFoam™.

Electronic Scales System

Four weighing cells are permanently controlling the raw materials that are dosed into the mixer and showing the total value at a display. This enables the user to work very precisely and to manufacturer high quality foamed concrete.



Dr. Lucà & Partner Ingenieurkontor GmbH
Krottnauerstr. 26 • D-14129 Berlin • Germany

Telephone: +49 (0)30 457989680 • Telefax: +49 (0)30 457989689 • Email: info@dr-luca.com • Internet: http://www.dr-luca.com
Managing Director: Dr. rer. oec. Marcello H. M. Lucà

HR 45942 Amtsgericht Berlin Charlottenburg • Ust.-Ident.-Nr.: DE155530778 • Steuer-Nr. 29/507/03677
Bankers: Landes Bank Berlin, Germany • Bank key (BLZ): 100 500 00 • Acc. (Kto.-Nr.): 66 0700 1473
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LithoPore™ Station 1000 PRO page 2/3

2. Advantages at a glance

- Solid and compact structure
- Reduced weight and dimensions
- Remote control for easy operating
- High output, efficient process
- Mixing and pumping in just 5 minutes per batch
- Easy maintenance
- Simple and fast cleaning
- Adjustable foam density

3. Technical data

Volume usable	1000 l
Dimensions	1950 (width) x 1450 (depth) x 1220 (height) mm
Weight	875 kg
Foam Concrete Capacity	~10 m ³ /h
Transport distance	horizontal 80 m, vertical 30 m
Power	12 kW
Foam Output	300-500 l/min
Foam density	20 – 140 kg/m ³

4. Included components

50 m spiral hose (Ø 60 mm) with connections (2x 15m, 1x20m)
10 m rubber hose (Ø 60 mm) with connections
50 m water hose with connections (2x 25m)
30 m power supply cable with plug (32 A)
water container 1000l
remote control including cable
2x concrete rakes / poles

5. Application

LithoPore™ Station 1000 PRO is only suitable for intense wet mixtures of agents as cement, fine sand, fly ash, organic and inorganic fibres, polystyrene etc. for densities of up to **700 kg/m³** (ready mixed material)



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LithoPore™ Station 1000 PRO page 3/3

6. Foam quality

The foam density and foam stability can be adjusted very precisely through the change of the foaming agent flow rate as well as the water flow rate.

Foam Stability: conventional

Dilution ratio (foaming agent : water)	Foam weight (density)	Foam Output	Efficiency (litres of foam out of 1 kg foaming agent)
2% (1:50)	110-125 g/l	350-425 l/min	375-450
3% (1:33)	85-100 g/l	350-425 l/min	375-450
4% (1:25)	55-70 g/l	350-425 l/min	375-450

All data tested with **LithoFoam™ SL 200-L**

Foam Stability: improved

Dilution ratio (foaming agent : water)	Foam weight (density)	Foam Output	Efficiency (litres of foam out of 1 kg foaming agent)
3% (1:33)	105-120 g/l	400-475 l/min	275-350
4% (1:25)	75-90 g/l	400-475 l/min	275-350

All data tested with **LithoFoam™ SL 200-L**

Foam Stability: advanced

Dilution ratio (foaming agent : water)	Foam weight (density)	Foam Output	Efficiency (litres of foam out of 1 kg foaming agent)
4% (1:25)	100-115 g/l	425-500 l/min	225-300
5% (1:20)	90-105 g/l	425-500 l/min	225-300

All data tested with **LithoFoam™ SL 200-L**

The information contained in this product specification is based on our current state of knowledge and experience. It does not free the user from making his own tests and trial applications. A legally binding assurance of certain properties cannot be inferred from this information. Any existing patent rights as well as any pertinent legal regulations must be observed by the recipient of our products under his own responsibility.



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