

# PATENTED PERISTALTIC PUMP

CONTINUE WORKING  
WHERE OTHERS STOP



InoBEAM M8 delivery pump with patented hose pump technology

## In the fast lane: Machine technology that's really worth its weight in gold

On a 30 sqm surface, the mechanical spraying method with the **inoBEAM M8** shows that it's worth its weight in gold compared with manual filling using a toothed or smooth trowel and the simplified spraying method with the funnel gun. Therefore, construction workers from so many trades are relying on mechanical application of materials more and more. With its patented hose pump technology, the **inoBEAM M8** can be used precisely when other machines have long since given up. For instance, when spraying heat-stable thick bitumen layers and high-strength spattling compounds such as cotton plasters or acoustic plasters, which harden quickly.

Amongst other things, tilers using the spraying method for sealing large shower systems, in swimming pool facilities or with wellness systems. Then whenever coves, curves, interior and exterior corners may make filling by hand more difficult.

Employees from decoration firms spray synthetic resin plaster on exterior façades- as well as spraying plaster, cotton plaster and liquid woodchips in the interior. Even plasterers, stucco plasterers, flooring installers and façade engineers use the spraying technology to apply plaster

bases, dispersion spattling compounds and acoustic cover coats.

Two pump technologies are available for the spraying method: Conventional screw pumps and the patented peristaltic pump **inoBEAM M8** from INOTEC. The spraying method with peristaltic pump technology is the gold standard for masons and civil engineers when mechanically sealing cellars in contact with the ground or as a damp-proof course in the brickwork with heat-stable sealing muds and thick bitumen layers.

### Advantages at a glance

#### inoBEAM M8

- Lightweight, small and handy
- For liquid and paste-like materials
- Peristaltic pump technology that is extremely efficient in its use of materials
- Simple operation
- Very fast cleaning and maintenance
- Continuously variable quantity control
- Suitable for dry running
- Removable material hopper
- Connection socket for remote control cable
- Forward and reverse running
- Can be combined with large containers (drum)



InoBEAM M8  
delivery pump

Concrete cleaners apply the base coat and the end coat in drinking water containers. Apart from the spraying method, the **inoBEAM M8** delivery

pumps has proved itself to be best suited to applying paste-like adhesives on ETICS boards and to jointing clinker façades.

## For and against Screw pumps & peristaltic pumps

### Machine technology

On the construction site, screw pumps can be used above all in delivery and mixing pumps to mechanically process mortar, screed and cement plaster. All materials that are really durable and resistant and are pumped directly to their destination mixed with water. In doing so, a steel screw rotates in a rubber casing and continually crushes the material in the direction of conveyance. The peristaltic pump technology is completely different. They work according to the principle of hose pumps, where a piece of the hose (the diaphragm) is crushed in turn with a tappet, and in this way, the material is displaced and transported further.

The main advantage of this displacement pump is that there is a lot less friction heat produced, compared with screw pumps. This advantage is brought to bear when processing

heat-stable materials such as bitumen and high-strength spatting compounds. When using screw pumps, clumping can repeatedly occur due to friction heat, and to material reaction times that have been shortened too much, and therefore lead to it stopping in the hose or in the spraying nozzle.

The processing temperature of many thick layers is from +5°C up to a max. 35°C in a narrow window. Another noteworthy advantage of the peristaltic method is the delivered material pumped in such a way that no material is wasted. This is especially crucial when applying sensitive materials such as cotton plasters, acoustic plasters, acoustic paints for a beautiful, even surface. Atomisation of the spraying material takes place via a supply of compressed air in the front area of the spraying nozzle.



### Comparison: Peristaltic technology & screw pumps

Property	Peristaltic technology (inoBEAM M8)	Screw pump
Technology	Easy to operate	Easy to operate
Safe during dry run	Yes	No
Running costs (wearing parts)	Low	Relatively high
Changing the wearing parts (effort)	Low	Relatively high
Variable quantity setting	Yes	Partly
Runs with luminous flux	Yes	Partly
Effort to clean	Low	Relatively high
Possible areas of application	Very high	Low

### Product advantages

The **inoBEAM M8** weighs only 28kg and can easily be transported in a delivery lorry or in a large boot, and loaded and unloaded by one employee. However, a second person to refill the material when processing large surfaces has proved to be useful to be able to carry out the spraying work quickly and without any interruptions. Alternatively, the pump can be combined with large containers and drums.

Quantity control takes place continuously. A remote control cable controls the pump, whereby delivery ranges up to 30 metres and delivery heights up to 20 metres are achievable. The peristaltic pump is also suitable for dry running. Due to the removable material hopper and easy dismantling, quick cleaning and simple maintenance is guaranteed. This keeps operating costs low and saves time.



When processing bitumen with the spraying method, the patented peristaltic technology of the **inoBEAM M8** is the gold standard, as the material is not heated during pumping, as is the case when using screw pumps. However, the **inoBEAM M8** is also best suited to jointing clinker façades.



The **inoBEAM M8 delivery pump** can be used universally: From decorative fine layers, liquid woodchips and paste-like structural plasters to mechanically applying paste-like ETICS adhesives.

### Profitability

Approx. 30 minutes has been calculated to set up and then clean the **inoBEAM M8** and the material hoses. Of course, the time expenditure is higher than if the employees only have to clean the toothed trowel and the mixing bucket. However, if you compare the pure work rate of the peristaltic pump with carrying the work out manually using a trowel, the spraying technology has a considerable edge:

- Mechanical work rate per hour: approx. 50 to 70 sqm
- Manual work rate per hour: approx. 10 to 15 sqm



### inoBEAM M8 - Areas of use

Areas of application	Suitability	Nozzles	Remarks
1 to 3mm plasters for all types of binders	●	4.5 to 10.5	Highly flexible application
Reinforcing plaster	●	8.5	For small and medium-sizes surfaces
Mineral spatting and reinforcing compounds	●	8.5	For small and medium-sizes surfaces
Liquid woodchips	●	6.5	High-quality, even spray pattern
Decorative internal coating	●	6.5	High-quality, even spray pattern
Dispersion spattle	●	8.5	Only recommended for small surfaces Sprinkling is possible
Paints for acoustic systems	●	4.5	For small to large surfaces
Cotton plasters	●	8.5 to 10.5	No product crushing, beautiful surfaces
Acoustic plasters	●	6.5	Only for thinly-coated plasters, approx. 30% time saving compared with funnel guns
Quartz filler/concrete contact	●	6.5	Hassle-free processing
Bitumen	●	8.5 to 10.5	Quick machine cleaning

### Client testimonials



"After processing 1,000 sqm plaster and 600 sqm and a cover coat which is permeable to sound, we didn't have to replace the **inoBEAM M8**'s diaphragm or conveyor disk".  
**Fa. Eberlein+Schellenberger, Rudolstadt**

"We have already processed around 6,000 sqm of cotton plastic with the **inoBEAM M8**. Operation is really easy, the pressure was constant and the spray pattern impressed us and our client with its evenness".

**Fa. Decellco, Remshalden**

"We primarily work in building shells for single-family homes and housing renovation work and we have already processed over 5,000 sqm façade plaster and organic spraying plaster with the **inoBEAM M8** in this area. Our work rate per day is approx. 300 sqm. We are extremely pleased with the INOTEC peristaltic pump".

**Fa. Schmidt, Puderbach**

"To process thick layers of bitumen with the spraying method, we recommend the **inoBEAM M8** with peristaltic technology to our clients. The recommended processing temperature of 35°C is not exceeded with this pumping process".

**Fa. Remmers, Lönigen**

"We used the **inoBEAM M8** for the first time, together with the INOTEC single-handed gun to renovate and rejoin a clinker façade with a 900 sqm surface. Consumption per square meter amounted to around 9kg. Compared to jointing with the trowel, we have saved several working days".

**Fa. Euro Sanierungs GmbH**

# The inoBEAM M8 starts where others stop!

“Delivery pumps are a dime a dozen, but only the **inoBEAM M8** from INOTEC has patented peristaltic technology, which delivers materials in a way that is particularly efficient.

When using conventional screw conveyors and screw casings, a friction process occurs due to rotation, whereby the materials can heat up above the recommended processing temperatures. This is prevented by using the peristaltic pump. This is a crucial advantage if our clients are processing materials sensitive to heat, such as a 2-component construction seal with the spraying method!”



**Alfred Loleit**  
Sales Manager  
INOTEC GmbH

Construction seals/seals in contact with the ground/ cellar walls/ foundations/intermediate seals under screeds/ wet and moist rooms / balconies/ terraces / combination designs with waterproof concrete

## Scope of delivery Ready-to-spray set

### inoBEAM M8



#### Basic module

- Rack made from stainless steel
- Material hopper
- Gear motor
- Peristaltic pump unit
- Electric control system with 3 m connecting cable
- Operating instructions

## Accessories



- 1 x Combined material hose**
- 10 m, 1"
  - For applying, with integrated air hose
  - Colour: black / yellow
  - Operating pressure: 15 bar
  - With GEKA couplings, lockable



- 1 x Angled spray head with GEKA coupling**
- E.g. for spraying bitumen, etc.
  - Length: 65 cm
  - At a 45° angle
- Scope of delivery:**  
Spray head including 8mm nozzle



- 1 x Extension cable**
- 26 m
  - For remote control cable
  - For remote control switch
  - For inoCOLL one-handed gun



- 1 x Remote control switch**
- With 0.2m cable, indicator light and Harting plug, 4-pole



- 2 x Sponge balls**
- For cleaning material / mortar hoses



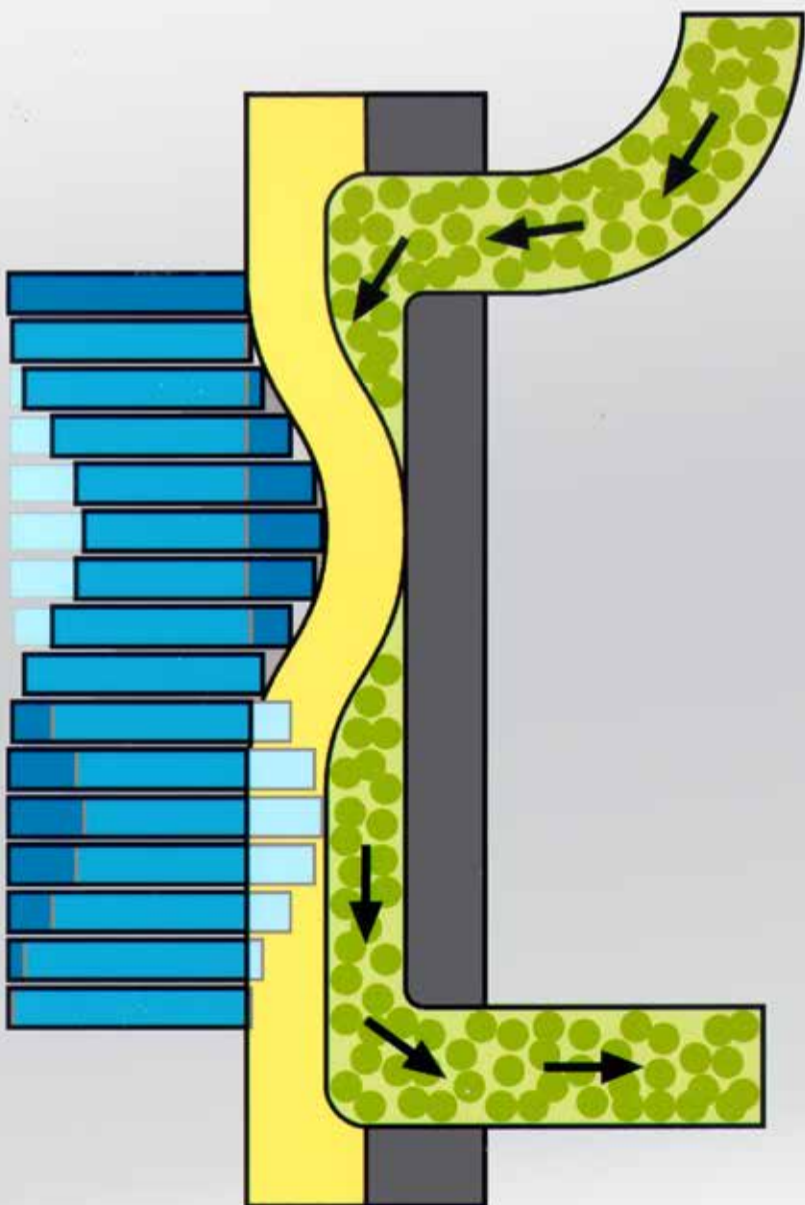
- 1 x Cover for material hopper**
- For protecting the content of the hopper against impurities
  - Made from grey plastic

A good choice on principle!

## The patented peristaltic principle

**All types of materials are delivered efficiently and evenly with the inoBEAM M8 peristaltic pump.**

The peristaltic principle is therefore currently regarded as the gold standard for pump technology as far as materials sensitive to heat such as bitumen and high-strength spatting compounds are concerned. The material delivered is sucked into a duct and redirected by contraction. Similar to feed pipes, the material is drummed through the duct. The result is particularly efficient displacement without any pressing or crushing which influences the material. As this intelligent pumping principle works via a diaphragm, there are no corners and edges on the inside. This means that the machine can be cleaned in a few minutes with only approx. 15 l of water and the few wearing parts can be replaced cost-effectively and quickly.



## Delivery pump

### inoBEAM M8



#### Technical data

Max. operating pressure	15 bar
Operating voltage	230 V / 16 A / 50 Hz
Motor rating	0.55 kW
Delivery rate	0 – 8 l/min.
Delivery range	Up to 30m (liquid) Up to 20m (paste-like)
Delivery height	approx. 20m (liquid) approx. 15m (paste-like)
Material hopper	30 l
Dimensions (L x W x H)	600 x 230 x 750mm
Weight	approx. 28kg