

# m-tec® flow-matic PX

The m-tec® flow-matic PX impresses with its revolutionary cleaning process: the entire system head can be rinsed with water while still installed. Thanks to m-tec®'s typical tool-free quick-release fastener, the mixing tube can be removed in seconds. This reduces the manual cleaning effort to approx. 1 minute. Thanks to its low weight, the entire system head is particularly easy to attach to a robot arm or bracket and is ideal for use on smaller robots.

## m-tec® flow-matic PX Areas of application

Processing of multi-component materials in 3D concrete printing and other automation applications.

## m-tec® flow-matic PX Scope of delivery

The m-tec® flow-matic PX system head can be operated as a stand-alone version with a frequency converter or alternatively as a complete solution with a control unit including a dosing system.

## m-tec® flow-matic PX Options

Various mixing shafts are available for the flow-matic PX system head, designed to suit the respective grain sizes of the material up to maximum 4 mm.

Technical data flow-matic PX	system head	control unit	dosing system
power supply	200-240V, 50/60Hz, 1ph, Schuko plug		
flow rate	1-10 l/min		20-180 ml/min
system pressure	0 - 2 bar	0 - 10 bar (water)	0 - 10 bar
control options	Manual, OPC-UA or hardware interfaces		
dimension	190 x 380 x 550 mm	700 x 900 x 1850 mm	
weight	approx. 15,5 kg	approx. 100 kg	approx. 25 kg



Simply scan the QR code with your smartphone and find out more on our website.

m-tec mathis technik gmbh  
Otto-Hahn-Straße 6  
D-79395 Neuenburg

phone +49 7631 709 - 155  
sales1@m-tec.com  
www.m-tec.com

m-tec flow-matic PX-EN

# m-tec® flow-matic PX

Multi-component system head for your automation application



m-tec®  
flow-matic PX:  
innovative solution for  
multi-component  
printing



The new m-tec® flow-matic PX provides you with a forward-looking solution for automation applications involving multi-component materials, such as in 3D concrete printing. The system head combines high performance with practical usability. It sets new standards in terms of compactness.



# Benefits

Whether during installation, operation or cleaning, the m-tec® flow-matic PX meets all safety requirements. It has been specifically designed to protect operating personnel and meets the highest standards in terms of safety technology. Thanks to its modular design and intelligent system integration, the flow-matic PX is economical to purchase and operate – without compromising on performance or reliability.

## m-tec® flow-matic PX system head

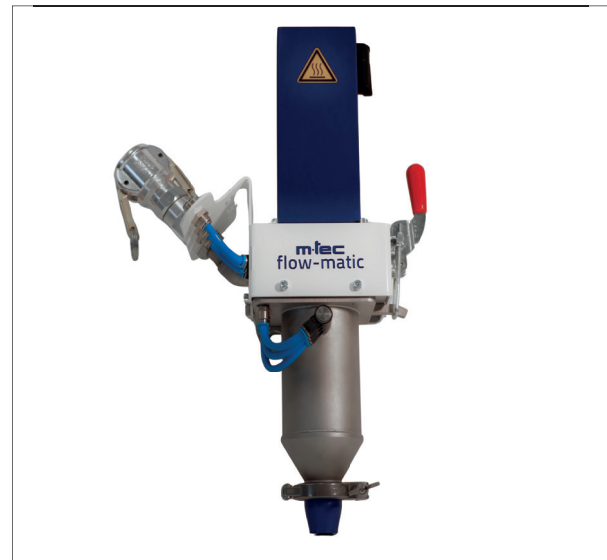
- Processing of materials up to 4 mm grain size
- Specially developed mixing shaft for homogeneous additive distribution
- Compact system dimensions enable easy installation and use, even on small robots

## Control unit for m-tec® flow-matic PX

- Mobile control unit
- Control of the system head and dosing system locally at the control unit or remotely via OPC-UA or hardware interface
- Retrieval and evaluation of various parameters

## Dosing system for m-tec® flow-matic PX

- Addition of a liquid additive to the mixed dry material
- Additive dosing range: 20–180 ml/min
- Includes flow meter, pressure monitoring and automatic pressure shut-off



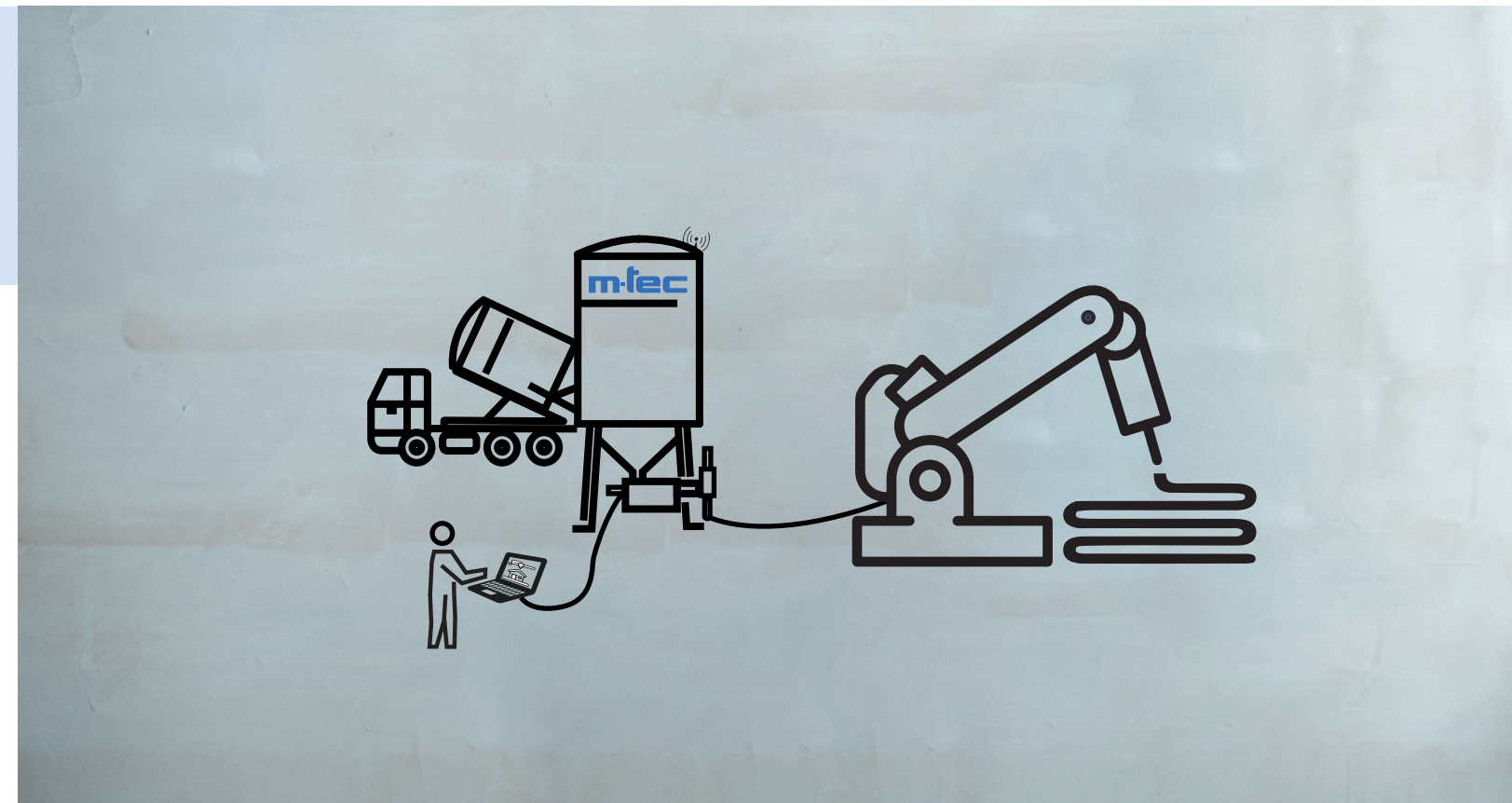
^ m-tec® flow-matic PX system head for multi-component materials



^ Dosing unit for m-tec® flow-matic PX



^ Control unit for m-tec® flow-matic PX



^ This makes work fun:  
efficient and economical!

## m-tec® technology for better building

m-tec® develops and manufactures construction site technology for both traditional applications and modern construction site tasks: From transport and the provision of dry mortar products to their application on your construction site, we are your one-stop shop for everything you need. All over the world, in almost 100 countries around the globe, m-tec® has made construction better, faster and, above all, more economical.

This is what makes us unique.

And to ensure that this remains the case, we stay on the ball with our partners when it comes to new developments.

m-tec connect®, for example, is playing a key role in the development of 3D concrete printing, thereby contributing to the success of this new technology.



M2M control



3D concrete printing