

Building 4.0: duo-mix connect

duo-mix connect: facts

Areas of use and applications

All pumpable dry mortars, such as

- 3D-printingable mortars and concretes
- Gypsum plasters
- Lime-gypsum plasters
- Cementitious renders
- Lime plasters
- Lime-cement plasters
- Bricklaying mortar
- Insulating plasters/renders
- Decorative renders
- and some more

Scope of delivery*

- Mixing pump
- Stator incl. Rotor m-tec Star, blue
- Dry material sensor
- Pump mixer
- Hose pressure manometer DN35
- Pump end piece incl. reduction piece
- Various tools

* All information is without guarantee and for reference only.
For further information please contact us, your local sales representative or authorized dealer.

Special applications

- Tasks, including communication with robots
- Industrial production with M2M control



Connect

- Ethernet connection
with M2M communication protocol OPC UA
- Conventional interface (industrial plug)

Specifications	
Standard delivery volume:	approx. 2 up to 15 gal/min* (depending on worm pump)
Conveying distance:*	up to 200 ft*
Conveying height:*	up to 100 ft*
Conveying pressure:*	up to 435 psi*
Drive motors	
Conveying:	3,0 kW, 230V, 60 Hz, 3ph
Mixing / Pump:	5,5 kW, 230V, 60 Hz, 3ph
Water pump:	230V, 60Hz, 3ph
Electrical connection:	220V, 60 Hz, 2ph
Fuse:	min. 50 A
Connecting cable:	5 x10 mm ²
Connector:	60A, 4p, 9h
Water supply:	3/4" water hose with GEKA coupling, required water pressure/min. 2.5 bar while the machine is running
Dimensions:	approx. 1350 x 640 x 1390 mm
Weight:	approx. 260 kg
* Depending on consistency, quality and composition of the material, pump model - and condition, diameter and length of the delivery hose and also the pumping height of the material.	

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With the duo-mix connect, we have developed the first mixing pump that makes networking possible, even in dry mortar technology. Using different standardized interfaces, it is quick and easy possible to retrieve information from the duo-mix connect or to control the machine externally, eg. for example, for 3-D printing tasks that communicate with robots or for industrial production where the duo-mix connect is linked to other machines via the existing plant control system.

There are many applications in which the duo-mix connect can be integrated into higher-level automation processes. With duo-mix connect, it is very easy to implement processes via conventional interfaces as well as via future-oriented OPC UA protocols. Thus, our duo-mix connect can e. g. be integrated into holistic security concepts, optimized process sequences or robot technology.

With the duo-mix connect you are ready for the future 4.0 and can take the next steps in digitized communication.

The duo-mix can be fed with bagged material, silo material (in conjunction with an m-tec silo, conveying system and filter hood) as well as with bucket coat materials.

As is typical of all m-tec systems, the duo-mix has easy and quick to use tensioning wedges, enabling important elements such as the worm pump or mixer motor to be replaced in just a few seconds.



> duo-mix connect: added benefits

EasyConnect

With its diverse digital and analogue connections, duo-mix connect is available for many future-oriented tasks beyond the traditional construction sites.

EasyWork

Our intelligent machine technology allows you to work without interruption and without consistency changes. The separation of dry and wet areas enables a constant ratio of dry material to water to be achieved.

EasyMix

The particularly good mixing quality is made possible with our patented mixing system. When used in conjunction with double mixing, the system guarantees the best possible mix of mortar products.

EasyUse

A combination of clearly laid-out controls, self-explanatory flowchart control with error code display, lifting handles and tensioning wedges make the duo-mix easy to handle.

EasyLife

Thanks to the particularly long conveying distance that can be achieved, there is no need to waste time and effort relocating the duo-mix. Your gain: more effective working time!

EasyHandle

The duo-mix can be used as a mixing pump, continuous mixer or mortar pump. Together with the continuous regulation of output you also get the functions only otherwise available with an entire fleet of machines!



standard plug



Ethernet port