

# M45 Dosing and mixing unit

M 45 Dosing-System

## Quote

Request current prices: [em@pu-technik.ch](mailto:em@pu-technik.ch)

Date:

Quote for:

Person responsible:

Application / Requirement / Material:

- Material A/B
- Material type
- Requirements

Equipment proposal

Option worth considering



PU-Technik AG  
www.2k-dosieranlagen.ch

# M 45 2-C standard system

Precision gear pump with continuous material discharge, electrical motor drive 230 V adjustable with a frequency converter.  
 Mixing ratio approx. 1:1 to 10:1 with a continuous Variomatic and pump sizes.  
 Shot sizes from approx. 0.2 g to approx. 5.5 kg/min. possible. (Options up to approx. 7 kg/min.)  
 PLC control system with integrated logic/frequency converter control drive motor  
 Pot timer monitor with alarm/automatic flushing programs/safety functions/system-compressed air  
 Shot-time timer, step-potentiometer for setting discharge capacity  
 Frequency converter display in operation  
 24 V control system/keys: Flush - Blow - Timer on/off - Alarm light - Horn

## Standard equipment

- M50 Mixer** Mechanical inner mixing chamber in 3-cell version (various sizes available)
- 40 l Tanks** Stainless steel pressure tanks for A+B components
- 18 l Tank** Stainless steel pressure tank for flushing agent
- Frame** Mobile with 2 fixed castors and 2 steering rollers (1x fixable) dimensions B 810 x 750 mm, nickel-plated/chromium-plated
- Hose set** 2.5 m steel-Teflon component hoses prepared as a hose package
- Shot time** Timer 0.1 to 999 sec. on/off key green, bright

## Advantages:

- + Continuous, adjustable discharge with electric motor and gear pumps
- + Simple stepless adjustment of the MR / switchover to different materials
- + Dynamic mixer M50 / M10 / static mixer M-Static can be connected without reconstruction
- + Light and robust mixer, low weight for robots / automation easily possible
- + Easy extension for many options and maintenance / shot quantities - timer standard
- + Pot timer monitoring / automatic flushing (blow-flush-blow) adaptable to PLC
- + Robust, own maintenance, low spare parts costs

SFr. SFr. Euro

## Standard-dosing unit

Basic installation

## Dosing unit with the marked options

SFr.  
€

# Options

## Material tanks

(Custom-made construction/CE)

SFr.

Number

SFr.

Euro

- 1 60 l stainless steel material tank for hardeners with cover - red
- 2 60 l stainless steel material tank for hardeners with cover - red
- 3 60 l stainless steel material tank with cover red/blue
- 4 40 l stainless steel material tank with cover red/blue
- 5 10 l stainless steel material tank with cover red/blue
- 6 18 l stainless steel material tank rubberised/flushing agent
- 7 5 l stainless steel material tank rubberised
- 8 **Heating jacket** with mechanical thermostat  
40+60 l same diameter/ 800 W/230 V
- 9 **Pneumatic stirrer**, on the cover with coupling/shaft  
40+60 l possible, with stainless steel shaft + stirrer  
Control box compressed air connection with  
ball valves to speed control
- 10 **230 V Electrical stirrer**  
Gear motor with standard speed  
Helical gear units 10:1 for high torque  
Endurance runner  
On/off switch socket strip
- 11 **Additional frame** on the left side or/+ right side prepared  
For holding a 40 l material tank  
Check wheel arrangement, is sideways movement necessary?  
Standard frame max. 2 additional tanks possible
- 12 **3-Way valves** for inlet switching  
Mounted before the pump, 1/2 inch ball valves
- 13 **Drain valve** before the pump  
Easy material change possible under system pressure
- 14 **Desiccant cartridge** with blue gel (can be regenerated)  
In system pressure hardener with humid compressed air  
  
Small model with transparent sight glass
- 15 **Gas loading connection** with needle valve  
for 40+60 l pressure tanks on the floor  
Order stirrer separately! (necessary)  
Connection for air or gases (N2 etc.)
- 16 **Vacuum connection** 3-way valve cover  
Evacuation permitted (stirring necessary) afterwards  
Switchover to system pressure  
Vacuum pump separately necessary (sep. request)
- 17 **Minimal level warning** with sensor  
Display with lamp + beeper at a residual quantity of approx. 5-10 kg  
Components A  
Components B



Additional charge  
Additional charge  
Unit price

Unit price  
Unit price

Unit price  
Unit price

Unit price

Additional charge

Additional charge

Additional charge

Additional charge

Additional charge



Additional charge

Additional charge

Additional charge

Additional charge  
Additional charge




## Control box

18	<b>Speed display pumps A+B</b> Rapid restoring of the MR Easy material change With sensors + displays A+B		Additional charge	<input type="checkbox"/>
19	<b>Thermostat electronic</b> Regulation of the hose heating Sensor Fe-K in the hose package Heating capacity 35 W/m for 2.5 m		Additional charge	<input type="checkbox"/>
20	<b>Robot connection</b> Socket to connect the machine commands when automating (both operating modes possible!)		Additional charge	<input type="checkbox"/>
	<b>Complete control system</b> According to the explanation on page 1 "M 45 2-C Standard system"		Unit price	<input type="checkbox"/>



## Precision pumps


21	<b>Internal gear pumps</b> Components A Sizes: BP/BM/BGPP/BGP/BGM/BGG Components B Sizes: BP/BM/BGPP/BGP/BGM/BGG		included included	<input type="checkbox"/>
22	<b>High-precision pumps</b> Components A Sizes 0.1/0.3/0.6/1.2/2.4 Components B Sizes 0.1/0.3/0.6/1.2/2.5		Additional charge Additional charge	<input type="checkbox"/>

## Mixers

23	<b>M 50 dynamic mixer (4-cell) with air motor drive*</b> Compact mixer for all products Ideal for a discharge of 0.5-6 kg/min.		*1 mixer included	<input type="checkbox"/>
24	<b>M 10 dynamic mixer with air motor drive*</b> Mini construction form for all products (4-cell mixing chamber) Ideal discharge 0.2 g - ca. 1.5 kg/min.			<input type="checkbox"/>
25	<b>M-Static mixer for the use of mounted*</b> static mixing tubes (various versions available) With flushing valve for flushing the mixing tube			<input type="checkbox"/>
26	M50 replacement mixer			<input type="checkbox"/>
27	M10 replacement mixer			<input type="checkbox"/>
28	M-Static replacement mixer			<input type="checkbox"/>
29	<b>Withdrawal device "Anti-drip" for M-Static only</b> Special M-Static body no. 1a necessary! Withdrawal quantity adjustable		Additional charge	<input type="checkbox"/>
30	<b>Discharge toggle switch small-large on the handle</b> Two adjustable discharge capacities, switchable		Additional charge	<input type="checkbox"/>
31	<b>Blow-flush on the handle with keys</b>		Additional charge	<input type="checkbox"/>
32	<b>Air addition M 50 / M10 mixers</b> Air loading foams/ spray coatings Standard M 50 only		Additional charge	<input type="checkbox"/>

## Hose packages

33	<b>Standard hose package 2.5 m</b> Component hoses steel-Teflon Flexible PUR air hose		included Adjusted to use!	<input type="checkbox"/>
34	<b>Hose package length = 5 m unheated</b>		Additional charge	<input type="checkbox"/>
35	Hose package 10 m unheated		Additional charge	<input type="checkbox"/>
36	Hose package 20 m unheated		Additional charge	<input type="checkbox"/>
37	<b>Hose package 2.5 m heated</b>		Additional charge	<input type="checkbox"/>
38	5 m heated		Additional charge	<input type="checkbox"/>
39	10 m heated		Additional charge	<input type="checkbox"/>
40	20 m heated (Including thermostat sep. or control box)		Additional charge	<input type="checkbox"/>

41	<b>Recirculation manual</b> with 3-way valves on the mixer + return flow lines +ON-OFF Additional charge to hose package Pos. 30-33		Additional charge	■
42	<b>Recirculation automatic</b> pneum. ball valves as toggle switch Switch ON-OFF Additional charge to hose package Pos. 30-33		Additional charge	■
43	<b>Automatic agitating</b> Tank A Built-in programmable time switch Also possible if system is shut down Selection switch (Anti-settling version) Version pneumatic or electrical stirrer		Additional charge	■
44	<b>Foot pedal</b> with cable (pluggable on the control box)		Additional charge	■
45	<b>Automatic refilling</b> please request a separate quote			■

#### General information

46	<b>Technical centre trials</b> We offer a test at the technical centre and document together if possible with original material sample Is charged upon purchase Expected outlay 1 day incl. photo-video-sample parts + report	Additional charge	■
47	<b>Training of operating personnel (languages DE-EN-FR in the factory)</b>	Free of charge	
48	<b>Training of operating personnel at the customer</b>	According to outlay	
49	<b>Anticipated delivery time</b>  <b>Options: Special extensions</b> Costs according to outlay Tell us your wishes / ideas with.....	4-6 weeks	

### System price with all options



Price ex works Bremgarten without taxes/transport/packaging

Guarantee: 1 year

Spare parts set in the box

Operating instructions on USB stick

Spare parts list of the systems + [www.2k-dossieranlagen.ch](http://www.2k-dossieranlagen.ch) with all parts lists

Hotline by telephone, email or via Skype by arrangement

References available

Spare parts are generally in stock/prompt shipment

Standard UPS (Parcel account or SwissPost international)

We would be pleased to receive an order!