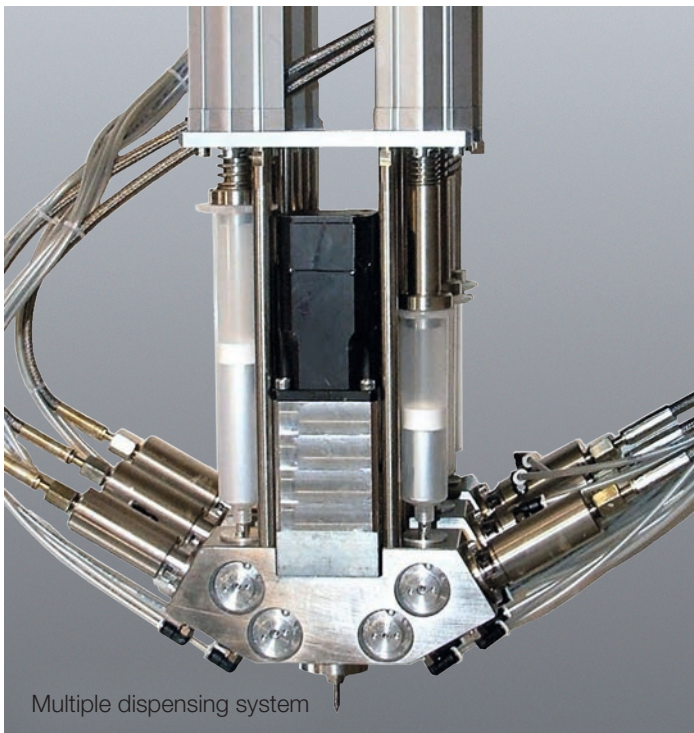
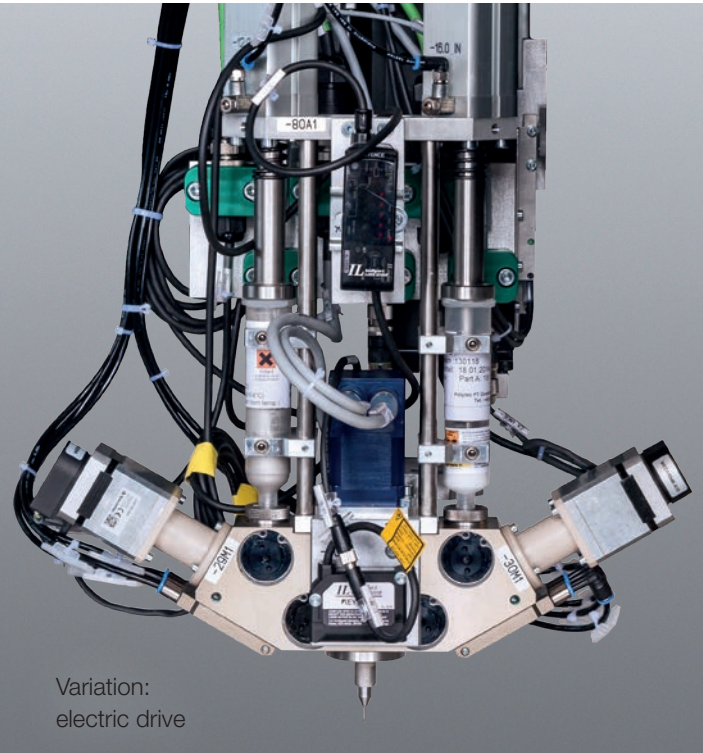
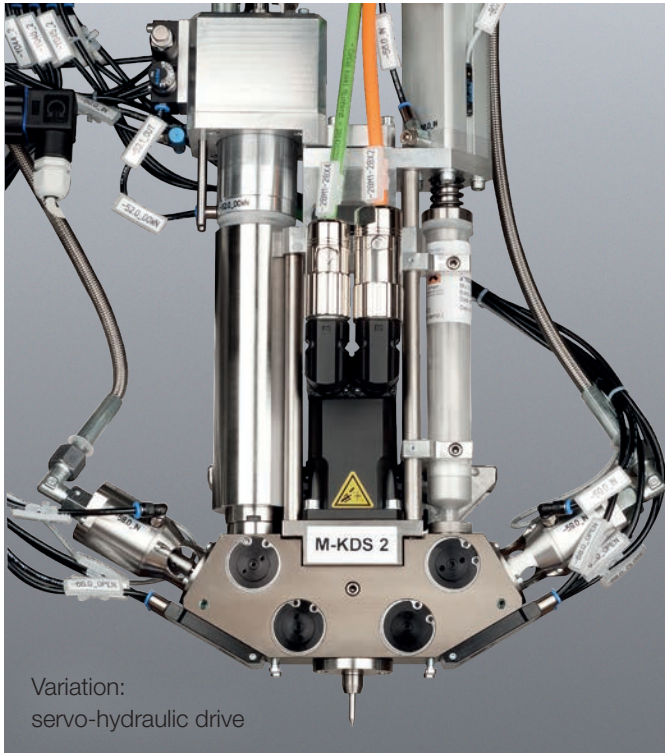


Product Information: Minimal Quantity Piston Dispensing System M-KDS

Precise mixing and dispensing of minimal quantities



Your Advantages

Optimized mixing of even the smallest 2K-volumes through the use of the dynamic mixing process

Extensive process monitoring options

- > Monitoring of pressure conditions, pump speeds
- > Material levels

Compact design

- > Flat design permits parallel dispensing
- > 56 mm of separation

Flexible material supply

- > Cartridge sizes from 10–180 cm³
- > Pressure tanks
- > Material conditioning system

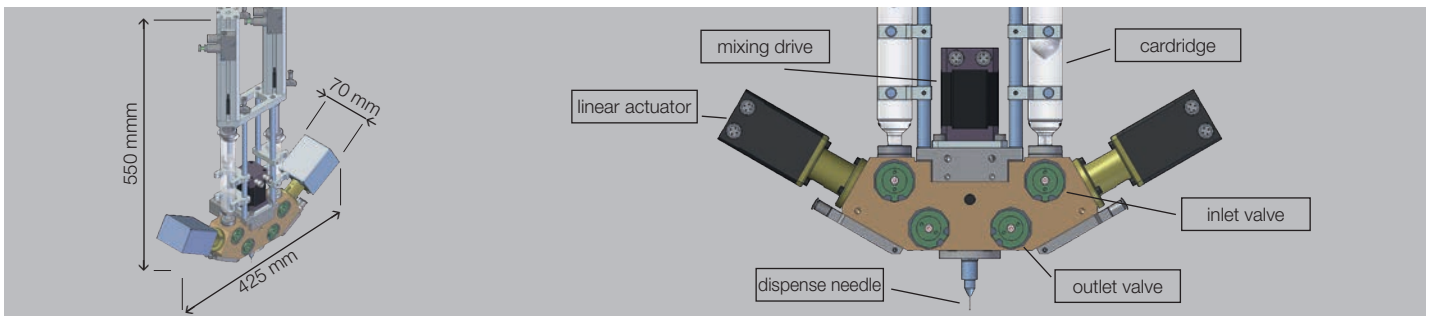
Freely programmable piston dispensing system for highest precision

Minimal Quantity Piston Dispensing System M-KDS

Product Details

The Minimal Quantity Piston Dispensing System M-KDS marks a break-through in dispensing filled and unfilled two-component materials in minimal quantities. The decisive advantage of the M-KDS is the intensive mixture of small quantities of material by the dynamic mixing process. Thanks to the volumetric dispensing

of the piston dispensing system, the user can rely on a consistent dispensing result independent from viscosity and type of filler. The piston system is electro-hydraulically or electrically driven and covers a wide range of mixing ratios.



Technical Data

Dispensing output range	2–20 mm ³ s ⁻¹ (depending upon the material)
Smallest shot size	approx. 1 mm ³ at a mixing ratio of 100:30
Largest shot size	approx. 250–500 mm ³ (depending upon the mixing ratios)
Shortest possible dispensing time	approx. 300 ms
Viscosity of components	20 m Pa*s–200.000 m Pa*s
Filling time material chamber	approx. 10 s (depending on the viscosity)
Pot life	approx. > 15 min
Range of mixing ratios	100:100 to 100:5
Controls	SIEMENS S7-300 with TP 700/900 comfort
Dispensing programs	max. 49
Electrical supply	3 x 400 V/50 Hz; 16 A
Power consumption	approx. 3 kW
Compressed air consumption	> 5.5 bar, approx. 5 l min ⁻¹
Weight (with servohydraulics)	approx. 12 kg

Options (more upon request)

- > Material supply from 30, 55, 168 (310) cm³ cartridges
- > Pressure tanks with agitator, recirculation, and automatic thin-layer degassing system
- > Cascadable with up to 3 parallel mixing systems
- > Pressure monitoring both during pauses in dispensing and while dispensing

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