

Metering Technology



ceradis

ceramix



Hilger u. Kern / Dopag Group

ceradis



General

To process low to high viscosity, filled and even abrasive single or multi component materials, the Hilger u. Kern / Dopag Group has developed two new product lines, ceradis and ceramix.

These new products are the result of consistent research, development and construction with the goal of finding a visionary concept, able to set new standards for the future in metering technology.

The rotational and translational movement of either a steel or ceramic piston is achieved by means of a specially developed electromechanical drive concept.

The speciality of ceradis and ceramix is that no valve technology is used. Depending on the material used for the piston neither are seals used, resulting in little maintenance and reduced service intervals.

Both product lines feature a snuff back effect to avoid material dripping following the conclusion of the metering process.

Features and Benefits

- High metering accuracy and repeatability, ($\pm 1\%$ depending on the flow rate and material)
- High process security through monitoring the filling level
- No valve technology, no pneumatics
- Snuff back effect

Ceramic piston version

- Processing filled and abrasive materials
- Low-wear high performance ceramics
- Low maintenance

Steel piston version

- Processing filled, not abrasive materials
- Low maintenance

Technical data

	<i>cerad's</i>	<i>ceram'x</i>
Flow rate	10 to 1,000 mm ³	20 to 2,000 mm ³ , at MR 100:100
Mixing ratio		up to 100:1, depending on shot size and viscosity
Mixing system		Static mixing system
Material supply	Drum pump, material pressure vessel or cartridge	Drum pump, material pressure vessel or cartridge
Viscosity range	0.5 to 50,000 mPa s ⁽¹⁾ , 1,000 to 100,000 mPa s ⁽²⁾ , other on request	0.5 to 50,000 mPa s ⁽¹⁾ , 1,000 to 100,000 mPa s ⁽²⁾ , other on request
Material characteristics	unfilled, filled, abrasive ⁽¹⁾ unfilled, filled, not abrasive ⁽²⁾	unfilled, filled, abrasive ⁽¹⁾ unfilled, filled, not abrasive ⁽²⁾
Power supply	24 Volt DC	24 Volt DC
Dimensions	60 x 60 x 300 mm	120 x 60 x 300 mm
Weight	approx. 3.5 kg	approx. 7.0 kg

(1) Ceramic piston version

(2) Steel piston version

Industries

- Automotive and automotive component
- Electrical and electronic
- Aerospace
- Medical
- and many more

Application areas

- Greasing, sealing and bonding applications
- Encapsulation
- Proportioning
- Shot or bead dispensing

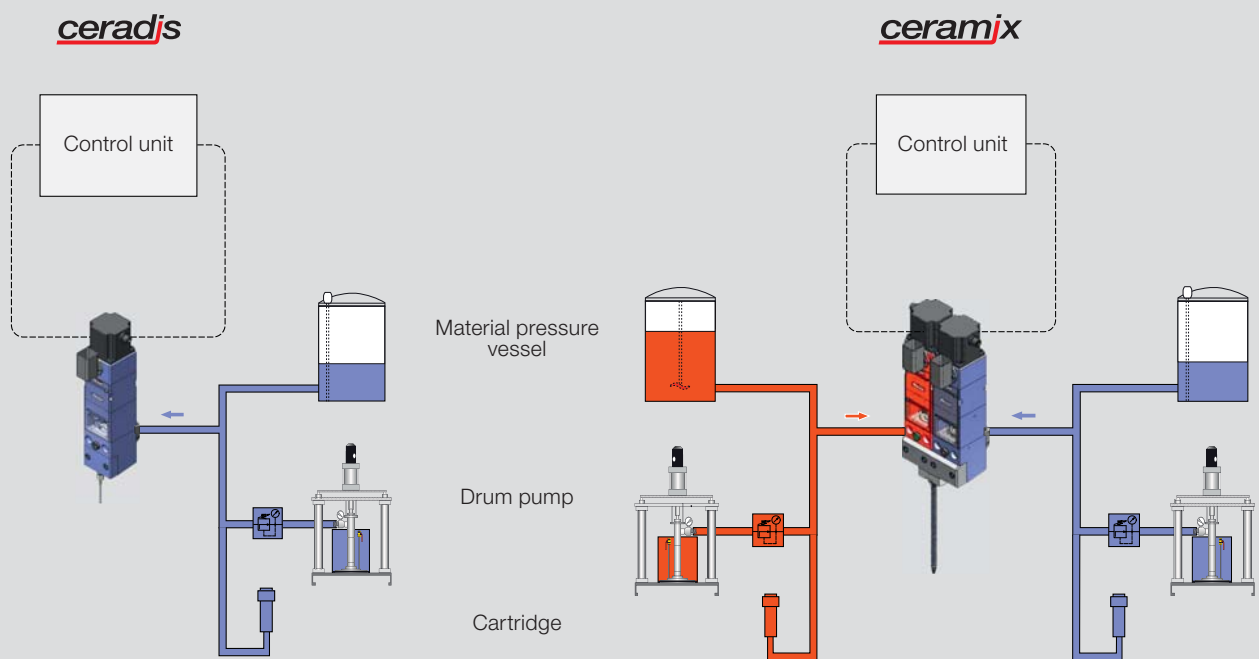
Control unit

Hilger u. Kern metering computer

By using the metering computer all applications that can be achieved with ceradis or ceramix can be parameterised and different metering processes can be memorised.

The metering computer can either be directly integrated or wired to an external remote housing.

The metering computer can also handle applications where a speed proportional material supply is required, for example in combination with a robot.



The products

ceradis

ceradis is used to handle single component materials. Just a suitable material supply and metering computer are required.

The material in the metering chamber can be processed by either shot dispensing or continuous flow.

ceramix

ceramix is used to handle multi component materials. Due to its compatibility and modularity, two or more ceradis single component piston metering systems can be connected by simply using a mixing block onto the outlet of which a plastic mixer is mounted.

Just a suitable material supply and metering unit is required.

The material in the metering chamber can be processed by either shot dispensing or continuous flow.



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The Hilger u. Kern / Dopag Group, with more than 300 employees, 8 subsidiaries and 24 distributors, is one of the leading manufacturers of metering and mixing systems in the world for plural component polymers and single component media such as greases, oils and pastes. For more than 30 years the group has developed systems and components to suit your individual needs.