

Vectomix

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To process low to high viscosity and even abrasive materials, the Hilger u. Kern / Dopag Group has developed two new product lines, vectodis and vectomix. These new products are the result of consistent research, development and engineering with the goal of finding a visionary concept, able to set new standards for the future in metering technology.

The modular construction of vectodis and vectomix enables a wide range of uses. These modern metering systems can be used in any industry where materials need to be applied in a high precision and repeatable way, e. g. Automotive, Electrical and Electronic, Renewable Energy, Aerospace, White goods and many more.

The rotational movement of a servo motor is converted into a linear movement by means of a spindle which is driving the steel piston. Metering and mixing at the point of application leads to high metering accuracy and repeatability. Metering units with a snuff back effect avoids contamination of the work space.

These new metering systems allow very short cycle times, especially when dispensing multi shots with a single metering chamber volume, which leads to a higher flexibility. We guarantee a high process security through a metering chamber with pressure monitoring, a construction with a reduced dead space to avoid material sedimentation and de-airing on the top of the metering chamber to avoid trapped air in the system.

Various constructional characteristics are resulting in minimal maintenance and reduced service intervals. We use specially guided pistons (not with sealings), coupling between drive and metering piston (no sideways forces) and the flushing of the metering piston with sealing liquid leads to a longer product life (mainly for abrasive air reactive materials). Vectodis is used to handle single component materials. Vectomix is used to handle multi component materials.

Due to its compatibility and modularity, two vectodis single component piston metering systems with equal or different sizes are used. They can be connected by simply using a mixing block onto the outlet of which a disposable plastic mixer is mounted. Just a suitable material supply and metering computer is required. The material can be processed by either shot dispensing or continuous flow.

