

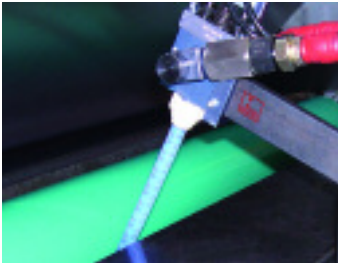


Adhesive Dispensing for Flexible Laminating Systems



Hilger u. Kern/Dopag **Metering Technology**

DOPAG adhesive metering and mixing systems for solvent free and solvent based lamination



These DOPAG systems have been designed specifically for use in the flexible laminating industry, based on many years experience gained throughout the world. DOPAG puts this experience in dispensing multi component reactive adhesives to good use by producing systems that will perform reliably and efficiently providing a long-lasting and worry free solution.

VARIO-MIX - for solvent free adhesives

DOPAG VARIO-MIX machines feature advanced piston pump design to dispense controlled volumes of adhesive in precise proportions at exactly the right temperature. During this process, both components of the adhesive are gradually and progressively heated to the optimum temperature for dispensing by means of separate heating circuits in order to prevent harmful overheating. Both adhesive components are fed from separate pressure feed tanks to air driven positive displacement metering pumps, where they are proportioned, before being fed to the mixer, via volumetric flowmeters that monitor the flow rate and mix ratio of the two components. Both components remain completely separate until they enter the disposable plastic static mixer, thus minimising waste material and entirely avoiding the use of flushing solvents.



AUTOMATIC REFILLING

Optionally, DOPAG drum pumps can be used to automatically refill pressure feed containers, which then allows continuous production to take place without the need for downtime. Mounted onto pneumatically powered lift mechanisms, the pumps fit snugly and easily into standard drum bung holes, preventing the possibility of air entering the system.

ELDO-MIX - for solvent free adhesives

The DOPAG ELDO-MIX range of machines meet the demand for gear pump driven systems that proportion and dispense solvent free adhesives accurately, whilst allowing adjustments to the mix ratio to be performed easily and quickly.

Featuring on-board pressure feed containers and separately driven gear pumps, these machines continuously monitor the flow rate and mix ratio of the materials by means of integrated volumetric flowmeters. Both adhesive components are gradually and progressively heated to the optimum temperature for dispensing by means of separate heating circuits in order to prevent harmful overheating. Flushing with solvent is entirely avoided by the use of disposable plastic static mixers.



LADO-MIX - for solvent free adhesives

The DOPAG LADO-MIX was exclusively developed to supply solvent free mixed material to flexible laminating systems whilst maintaining extremely fine control of the mixing ratio.

This ability for close control is due to the use of VOLU-MIX technology, which utilises electronically controlled volumetric gear type flowmeters and features user friendly clear text dialogue and fault message displays.

The VOLU-MIX system allows integrated monitoring and automatic regulation of the chosen mix ratio, leading to very precise accuracy of metering.

Although configured in it's standard form to accept twin 200 litre size containers, the LADO-MIX is also available for feeding directly from bulk containers if needed.



LADO-MIX V-SB - for solvent based adhesives

The DOPAG LADO-MIX V-SB operates on the same VOLU-MIX principle as the standard LADO-MIX, but by using three electronically controlled volumetric gear type flowmeters it is able to easily supply solvent based adhesives to the laminating machine.

The individual materials are proportioned and remain separate until they enter the mixing chamber, before being fed to the laminating machine.

The LADO-MIX V-SB conforms to the ATEX directive for explosion protection.



The Hilger u. Kern / Dopag group is one of the leading manufacturers of machines for metering and mixing systems in the world for plural component polymers and single component media such as greases, oils and pastes. For over 25 years the group has developed machines, systems and components to suit your individual needs.

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