

UVX5 – SIMULTANEOUS DISPENSER

for concentrated inks and coatings

Simultaneous, Fully Automatic Dispenser for Optimized Ink-Supply in the Printing Industry

- ▶ High dispensing accuracy reduces time-intensive correction of color shade
- ▶ Reduced amount of return inks due to dispensing amounts < 100 g
- ▶ Quick color availability due to simultaneous dispensing
- ▶ High flexibility with optional connection of an electronic scale and gravimetric dispense mode
- ▶ Easy recipe management and high repeatability increase productivity and quality
- ▶ Optimal interface to colormatching system e.g. X-Rite
- ▶ Fast print readiness due to reproducibility of each component
- ▶ Reduced ink storage stock
- ▶ Small footprint due to compact design
- ▶ No influence of e.g. vibrations from production machinery on the dispensing result
- ▶ Quick commissioning and easy operation

FÜLL-Technology, ready for the future

The compact, volumetric dispenser UVX5, with its patented double-action piston pumps, is designed for automatic dispensing of concentrated inks (UV) and coatings. Highly flexible in its application, the UVX5 can be used with internal canisters, connected to external tanks and even in combination with gravimetric dispensing systems.

- ▶ Dispensing with up to 18 or 32 components
- ▶ Patented double-action piston pump for double dispensing speed
- ▶ Dispensing speed of up to 1,5 l/min for production of a 5 kg Batch in less than 3 min. *)
- ▶ Accuracy $\pm 1\%$ *)
- ▶ Canister modules with 5 l, 10 l and 28 l stainless steel canisters
- ▶ Each canister is equipped with electric driven stirrer to keep the inks homogeneous.
- ▶ Automatic canlift with servodrive
- ▶ Interface to colormatching software

*) Depending on fluid rheology and dispensed amount



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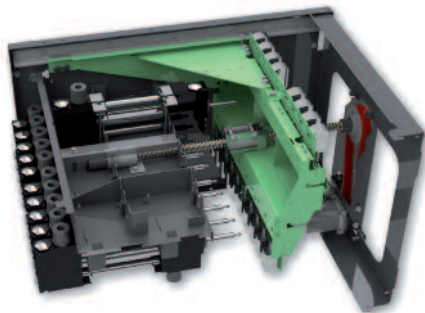
Canister Module



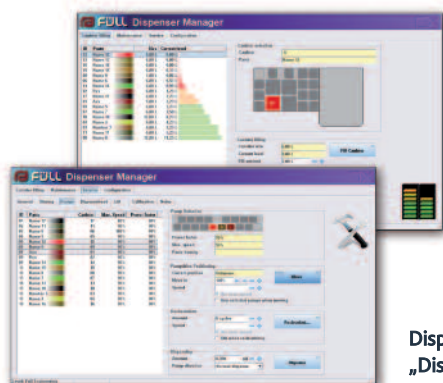
Double-Action Piston Pump



Canister Stirring



Pump Drive-Unit



Dispenser Software „Dispense Manager“

Canister Module

The canister module is, next to the dispensing unit with double-action piston pumps, the second major element of the UVX5. A PTFE membrane-valve in each canister-lid ensures the airtight closure of the canisters. Together with the double-action piston pumps, that do not fluctuate the canister level with separate suction strokes, dryingout and oxidation of the fluids is reduced to the absolute minimum. The highest quality and the construction of the canisters in stainless steel is standard.

FÜLL Pump-Technology

The patented double-action piston pump is equipped with a bi-directional piston and valve system. This eliminates the need for a separate suction-stroke to fill the pump with fluid before dispense, resulting in two major advantages: The dispensing speed is doubled and the canister-level only sinks as much as is needed for the dispense, without additional level fluctuations. This significantly reduces the air-circulation in the canisters. Additionally the horizontal mounting of the double-action piston pumps prevents the build-up of air in the system. Combined with the long, steady stroke of the piston, a consistent and accurate dispense is assured.

Canister Stirring

The stirring drive-units are integrated in the top cover of the canister module. When closing the top cover, the drive-units automatically interconnect with each stirrer-shaft. The removal of a stirrer requires no tools and no obstructions remain behind in the canister other than a small pin at the bottom for centering. This ensures optimal accessibility for cleaning and inspection.

Pump Drive-Unit

A patented pump drive-unit with pump-selector allows the operation of only those pumps that are part of the formulation to dispense. This means that all other pumps not part of the formulation remain idle, reducing wear with more than 80% (based on a typical formulation of 3 components dispensed by a machine with 18 pumps).

Dispenser Software

The FÜLL dispensing system is equipped with a modern user interface and allows the user easy operation and configuration. Integration in a remote maintenance and diagnostics system is also supported. The system is equipped with the new standard UDCP interface, allowing optimal connection to external formulation and spectro-software.