

## Semi-Industrial and High Volume Retail Applications

### FÜLL-Technology, ready for the future

The compact, volumetric dispenser VX5, with its patented double-action piston pumps, is designed for semi-industrial and high volume retail use. Highly flexible in its application, the VX5 can be used with internal canisters, connected to external tanks and even in combination with gravimetric dispensing systems.

- ▶ Dispensing unit up to 18 or 32 components
- ▶ Patented double-action piston pump for double dispensing speed
- ▶ Pump capacity 1.0 – 1.5 l/min
- ▶ Smallest dispensing amount 0.05 ml
- ▶ Accuracy  $\pm 1\%^*$
- ▶ Automatic pump selector, reducing wear by 80%
- ▶ Integrated 5 l, 10 l and 28 l stainless steel canisters
- ▶ Interchangeable, airtight canisters with click-connect coupling system (option)
- ▶ Automatic can lift with servodrive
- ▶ 100% support for the new UDCP<sup>\*\*</sup>) standard, allowing easy connection to external formulation and Spectro-software

<sup>\*)</sup> Depending on Fluid rheology and dispensed amount

<sup>\*\*</sup>) Universal Dispenser Communication Protocol



VX5 - Simultaneous Dispenser



Double-Action Piston Pump

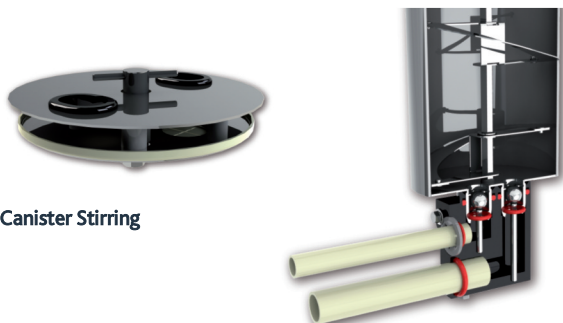
### FÜLL Pump-Technology

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.

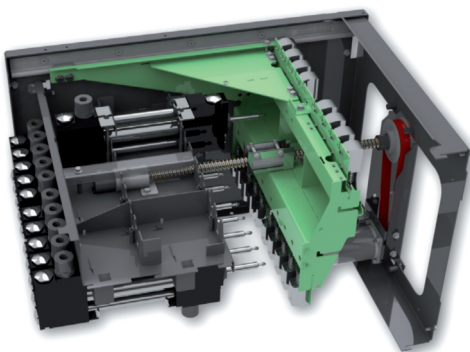
# VX5 – Simultaneous Dispenser



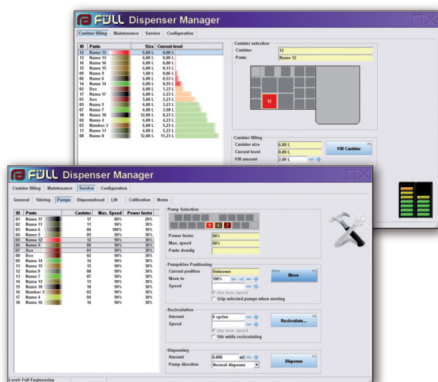
Canister Module



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 VX5. Each canister can be exchanged without the use of tools through the click-connect coupling system. A PTFE membrane-valve in each canister-lid ensures the airtight closure of the canisters. The membrane only allows enough air in to replace the dispensed fluid, while saturated air can not escape the canisters. Together with the double-action piston pumps, that do not fluctuate the canister level with separate suction strokes, drying out 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.

## 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. The Universal Dispenser Communication Protocol (UDCP) was developed in cooperation with the leading dispenser manufacturers and paint suppliers in Europe, to standardize communication between dispensers and external control-software.