



**Switch to streamlined,  
traceable ink management**

**GSE** *Dispensing*

# Do your ink room a favour

With the versatile Colorsat Switch ink dispenser for label and narrow web printing, you're set to deliver fast, precise repeatable colour quality – even if formulations or handling requirements change.

Custom-configured to automatically blend and dispense water-based, UV-curable or solvent ink batches, the Switch has a modular, low-maintenance design. It automatically blends colours with precision, featuring up to 24 base components. With options on valve sizes, conditioning equipment and storage, it's easy to adopt new inks of differing capacities, viscosities and densities into your workflow – without compromising on productivity.

- Easy to operate, clean, and maintain
- Flexible configuration of storage containers, valve types and agitators
- Storage buckets can be directly connected

## Modular design – future-proof configuration

Thanks to its modular design, the Switch provides a future-proof solution for easy ink handling - custom-designed according to your needs. This means you can maintain smooth logistics even when tomorrow's ink sets or formulations change.

There's flexibility in storage: the system can be equipped with a maximum of 24 base components of up to 25 kg (~55 lb) each. These can be conveniently stored on 'waterfall frames'. The waterfall frames offer an easy way of storing and replacing buckets with base inks, while their modular layout has a space-saving small footprint. Optionally, the dis-



Optional 'high-volume' execution with four large valves

penser can be connected to 200-litre (~ 53 gallon) or 1,000-litre (~ 264 gallon) containers.

## Valves and agitators for handling more ink sets

The Switch can accommodate four components with large valves, in addition to 20 standard valve-sizes. This gives the option to dispense inks with higher densities or viscosities, as well as fast-running inks, such as CMYK process colours. It therefore provides a fast, clean solution for managing ink inventories when no blending is needed.

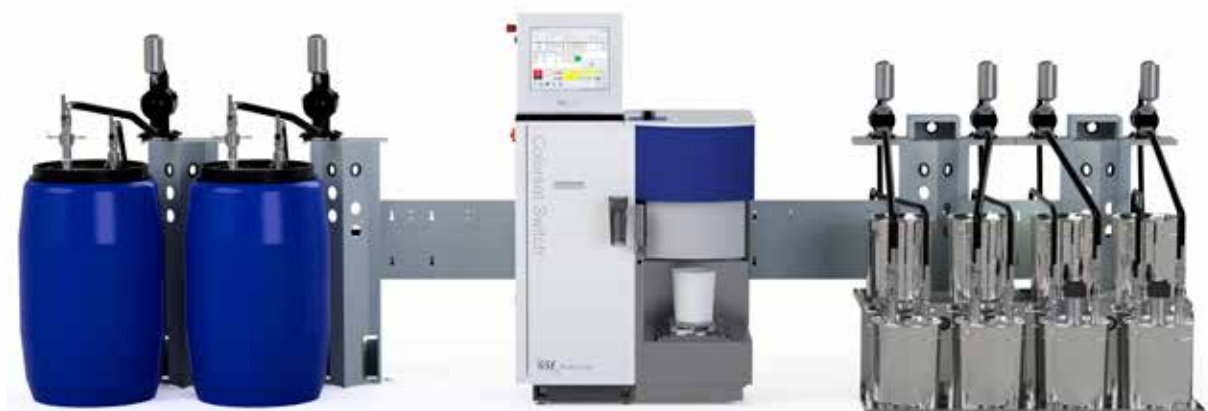
## Easy to operate, clean and maintain

Its sliding weighing tray allows easy placing, filling and removing of ink buckets at an ergonomically designed working height.

For fast and dip-free exchange of base inks, all hose connections are equipped with quick couplers. Handy features include a combined wet and dry cleaning unit and a stainless steel dispensing area, for efficient housekeeping. And with a minimum of moving parts and easy access to key components, the Switch is very easy to maintain.

## Directly connect storage buckets for traceability compliance

The containers with base inks can be directly connected to the dispenser. This means there is no risk of batch contamination when changing inks, making it easy to comply with traceability and GMP requirements.





Sliding weighing tray with optional turntable



Ex-proof execution for solvent-based inks

### Ink manager software for process automation

The Colorsat Switch is powered by GSE Ink manager – a multifunctional, modular software suite with programs for automating, simplifying and accelerating ink-related steps throughout the print workflow. It reduces human input, the risk of error and ink consumption, and enables better forecasting and planning.

### Specification

The Colorsat Switch is designed for fully automatic and computerised dispensing of production batches of up to 10 kg (~22 lb) gross. Three models are available - for either solvent-based, UV-curable or water-based inks.

### General technical data

- Max 24 ink components
- 15 kg (~33 lb) weighing scale with 0.5 gram (0.01 lb) readability
- Sliding weighing tray for easily adding return inks and manual components
- Stainless steel pneumatic dispensing valves
- Combined wet and dry automatic valve cleaning
- Twelve low-volume components for connecting buckets, including pump modules with circulation unit and air bubble mixer
- Modular “waterfall frames” for storing buckets up to 25 kg (~55 lb)
- Dispense control console including LED colour screen, PC, keyboard and mouse
- Connection for remote access
- GSE Ink manager software

### General specifications

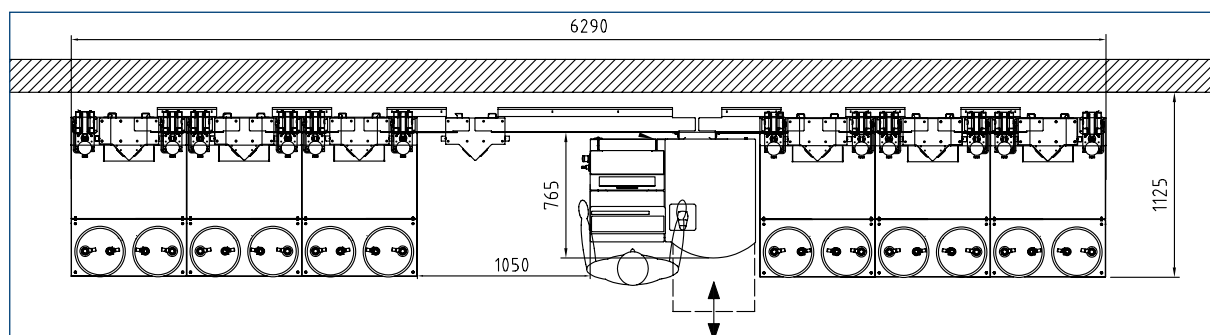
- Viscosity: up to 2500 mPas (2500 cP)
- Dispense accuracy: inks and bases  $\pm 0.5$  gram (0.01 lb), water and solvents  $\pm 5$  gram (0.01 lb)
- Dispensing speed: 4-5 minutes for a recipe of 5 kg (~11 lb) with 4 components

### Hardware options

- Additional components with standard valves (buckets, drums or IBCs)
- Additional high-volume components with 18-5 mm valves (drums or IBCs, maximum of 4)
- Pneumatic or electrical agitators
- Turntable to dispense in small openings, diameter > 25 mm / ~ 1 inch (e.g. jugs)
- Barcode reader
- Label printer
- Smart UPS (Uninterruptible Power Supply)
- Spare parts

### Software and service options

- GSE Return ink management
- GSE Traceability
- GSE Order management
- GSE Article management
- GSE Colour connect
- GSE MIS connect
- GSE Advanced reporting
- GSE Advanced logistics
- GSE Hazard symbol printing
- Remote support contract
- Support and service contract



Colorsat Switch example lay-out

# GSE Dispensing

GSE delivers robust, fast and smart dispensing equipment, software and services to minimize ink-related wastes in the printing workflow. The company is based in the Netherlands.

With more than 45 years of experience in the graphics, textile and coating industry, we have an installed base of more than 2,200 automatic dispensers and software packages at factories in 90 countries. We are supported by a global network of sales, service and supply chain partners.

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