



## Lean management for small ink batches

# Do your ink room a favour

The Colorsat® Switch dispenser for label / narrow-web print runs impresses with its high technology in a modular design. Engineered to dispense water-based, UV-curing or solvent-based ink batches into 5-litre (~ 1,3 gallon) buckets, the system dispenses a four-colour 5 kg recipe in less than five minutes. The system's advantages are huge:

- fast installation
- easy to operate, clean and maintain
- powerful ink management software
- flexible arrangement of system and storage buckets and drums

## Reach full productivity in a short time

Thanks to a software configuration wizard and its modular design, the Switch is easy to commission. The system can be equipped with a maximum of 20 base components of up to 25 kg each, conveniently stored on 'waterfall frames'. Optionally, the dispenser can be connected to 200-litre or 1,000-litre containers. These connections for high-volume components include diaphragm pump units with smooth pulsation dampeners and a modular hose-rack stand for in-line and wall-layout options. With an expert GSE engineer to set up your system and provide full training, your Switch is fully operational just two days after installation.

## Easy to operate, clean and maintain

Built on GSE's proven ink dispensing technology, the Switch gives you ultimate reliability, speed and accuracy. The sliding weighing tray allows easy placing, filling and removing of ink buckets at an ergonomically designed working height.



Base components on 'waterfall frames'

For fast and dip-free exchange of base inks, all hose connections are equipped with quick couplers. 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. Handy features include a new, 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, Switch is very easy to maintain.

## Advanced user-friendly software

In all our designs we have the users' perspective uppermost in our minds. That's why our GSE Ink manager software is so easy to use. Recipes of production colours need to be entered just once into the database, for them to be directly available. To make a batch, the weight is the only necessary input. As soon as the weight is entered, GSE Ink manager will search for and prioritise available press return inks to make the recipe. Upgrading the system with extra GSE software modules offers extra benefits such as improved article and stock management features. All system users who subscribe to a support contract benefit from free software updates as soon as they become available. A connection for remote access links your system with our helpdesk, for quick analysis of the system's database and machine status. With GSE's technical support to provide constant backup and know-how, your ink logistics are always in safe hands.





Sliding weighing tray with optional turntable



Ex-proof execution for solvent-based inks

## Specification

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

### General technical data

- Max 20 ink components
- 15 kg (~33 lbs) weighing unit with 0,5 gram (0.001 lbs) 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 lbs)
- Dispense control console including LED colour screen, PC, keyboard and mouse
- Inkjet printer
- Connection for remote access
- GSE Ink manager software

### General specifications

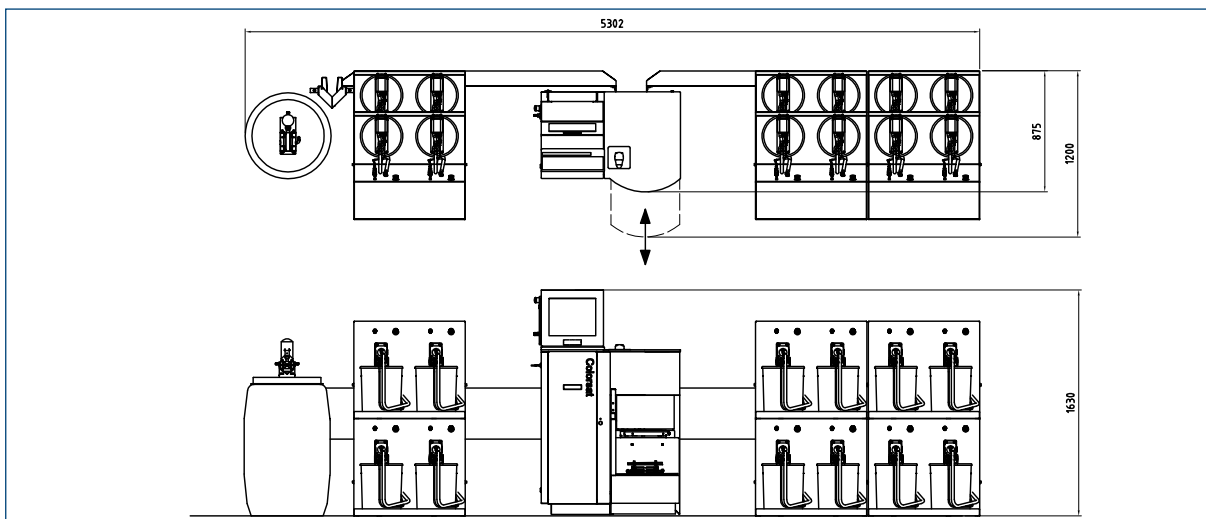
- Viscosity: up to 2500 mPas (2500 cP)
- Dispense accuracy: inks and bases  $\pm 0,5$  gram (0.001 lbs), water and solvents  $\pm 5$  gram (0.01 lbs)
- Dispensing speed: 4-5 minutes for a recipe of 5 kg (~11 lbs) with 4 components

### Hardware options

- Low-volume component (connection for buckets)
- High-volume component (connection for drums or containers)
- Runner component with large valve (maximum 1 connection for drum or container)
- Turntable to dispense in small openings, diameter  $> 25$  mm / ~ 1 inch (e.g. jugs)
- Barcode package (barcode scanner and thermal printer)
- Smart UPS (Uninterruptible Power Supply)
- Spare parts

### Software and service options

- GSE Article management
- GSE Colour connect
- GSE MIS connect
- GSE Advanced reporting
- GSE Mobile operations
- GSE Advanced operations
- Remote support contract
- Support and maintenance contract



Colorsat Switch example lay-out

# GSE Dispensing

GSE delivers robust, fast and smart dispensing equipment, software and services to minimise ink-related waste in the printing workflow. The company is based in the Netherlands, with its subsidiary GSE Dispensing Inc. in Charlotte (NC), U.S.A.

Over the years, we have gained a strong position in the market, combining highly sophisticated gravimetric dispensing systems with a global network of service representatives and agents on six continents. With more than 40 years' experience in the graphics, textile and coating industry, we have an installed base of 1700 automatic dispensers worldwide.

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