



COLOURBLEND SERIES



Up to 36 ingredients, water-based dispensers for hazardous and non-hazardous products in batch sizes up to 300Kg.

The Colourblend is our most flexible dispense system offering multiple enhancements, allowing Inovex to tailor the machine to perfectly suit your requirements. The systems boast a worldwide customer installation base including many reputable customers in flexible, corrugated and label printing, as well as market leading chemical and coatings manufacturers.

Benefits

- Multiple versions, layout options, and accessories available - flexibility
- Fast, precise, batch-to-batch consistency
- Dispense when needed – reduced stock holding
- Reduced supply costs – packaging and support
- Material batch traceability reports
- PLC controlled with touch screen manual backup

SYSTEM SPECIFICATION - KEY FEATURES



Features:

- EX Hazardous area option
- High Flow 3 stages stainless steel valves
- HMI Touch Screen manual control back up
- Automatic valve washing system
- Automatic self-cleaning mixer
- Automatic conveyor



Dispense Valves



Quick release, user-serviceable cartridge style, the combination of 20 and 3mm nozzle sizes ensure a fast, accurate, and repeatable dispense. Manufactured from PTFE and stainless steel, the valves are accurate to +1 gram as standard (higher accuracy versions available). Full maintenance of a dispense valve can be completed in as little as 5 minutes, re-using all parts except the fluid seals to reduce costs, downtime, and environmental impact through disposal.

Dispense Console

Stainless steel dispense console fabrications housing the control system and dispense valves, along with the pneumatically driven 30Kg weigh scale as standard (larger scale options available).





SYSTEM SPECIFICATION - KEY FEATURES



Brush-Wash Valve Cleaning System

Fitted as standard, the Colourblend is fitted with an industry-leading wetted brush-wash system. Automatically operating after each dispense, the gear driven brush rotates whilst clean water is pumped onto the brush and valve face, soaking the brush and valves as it moves across the valve face, concluding in a very efficient, automatic cleaning system. The whole cleaning cycle takes approximately 5 seconds, meaning there is next to no machine downtime whilst cleaning takes place.



Control System

24-ingredient ethernet based electro/pneumatic control system supplied integral to the dispense console. Allen Bradley PLC system, SMC/Festo pneumatic solenoids, electronic weigh scales with Mettler Toledo load cell plus touch screen HMI manual controls. Industry standard Windows based PC with monitor, keyboard & mouse. This can be networked to in house management systems such as OMP, ERP etc. as well as colour computer Spectro systems such as a X-rite. In case of PC failure operators will be able to dispense ink through the touch-screen HMI control panel. This enables the operator to manually control the full, fine and pulsed flow stages of the dispense valves, pump recirculation, valve wash, scale movement and optional auto mix system.





SYSTEM SPECIFICATION - PUMPING SYSTEM



½” pneumatic double diaphragm pumps fitted as standard, with larger or electric pumps available on request. Ingredients are supplied with 1” PVC reinforced hoses for delivery and return of product, with 1” wire reinforced hoses supplied for suction, along with height.

Pumping system is available in the standard inline layout, or can be configured to suit available space and specific requirements (as shown below).



Layout 1

Inline (as standard)



Layout 2

Along the wall



Layout 3

Using a hose bridge



Layout 4

Fork shape configuration



COLOURBLEND VARIANTS



The CB comes in different variants, allowing you to pick the dispenser which best suits your budget and requirements.

CB30



**CB30
AUTOMIX**



**CB300KG
FLOOR SCALE**



**CB
COMPACT**



**CB
CONVEYOR**



**CB
AEROSPACE**



CB30 AND CB30 AUTOMIX



The Colourblend 30 for 20Kg Buckets is available in 14, 24, 32 and 36 ingredient configurations and is fitted with a pneumatically driven 30Kg scale.

The Colourblend 30 Automix is an enhancement from the standard Colourblend that automatically moves the finished dispense bucket from the weigh scale to the automatic, self-cleaning mixer. Whilst the mix is in progress, the next dispense can begin.



CB300KG FLOOR SCALE AND CB COMPACT



The Colourblend 300Kg Floor Space enables the operator to dispense into larger vessels and buckets via dolly.



The Colourblend Compact is a low-volume, high-accuracy dispense system designed to dispense into disposable cups and up to 5Kg containers of formulated products to within 0.1gram accuracy per ingredient.



The dispense vessels are moved to each required valve (linear manifold mounted) according to the selected recipe, then returning to the loading position ready for the next dispense. Multiple vessel sizes can be used via the mounting frame.



CB CONVEYOR

The Colourblend Conveyor for 20Kg Buckets increases dispenser output whilst reducing operator interaction. Multiple dispense jobs can be loaded onto the queue program; the dispenser then systematically dispenses them in turn.



Barcoded Conveyor System



The conveyor system utilises a pre-dispense label system: the dispenser then scans the label at dispense point, protecting against human error when adding supply buckets in a different sequence to jobs added to the dispense queue.





CB AEROSPACE



The CB Aerospace is a fully automatic 4 ingredient dispensing system designed specifically for point of use, small batch dispensing, typically housing a primer, top coat and hardener plus distilled water, enabling operators to dispense small amounts for the use of touching up rivets and similar applications common to the Aerospace industry.

Automatic valve cleaning, manual control backup, through valve recirculation and full version IPM Software are included as standard.

The CB Aerospace dispenser has a small footprint, enabling it to be installed in production facilities in locations where the finished paint is required, eliminating degradation of product during the transfer from paint shops to production areas. By utilising a point of use dispensing facility, users have the opportunity to dispense product when they need it, rather than having to hold stock of production ready paints and coatings.

Features:

- ± 0.1 gram accuracy
- 1Kg dispense capacity
- HMI touch screen manual control
- High accuracy 3 stage stainless steel dispense valves
- Automatic valve cleaning system
- Integrated storage tanks for supply bases, distilled and waste water

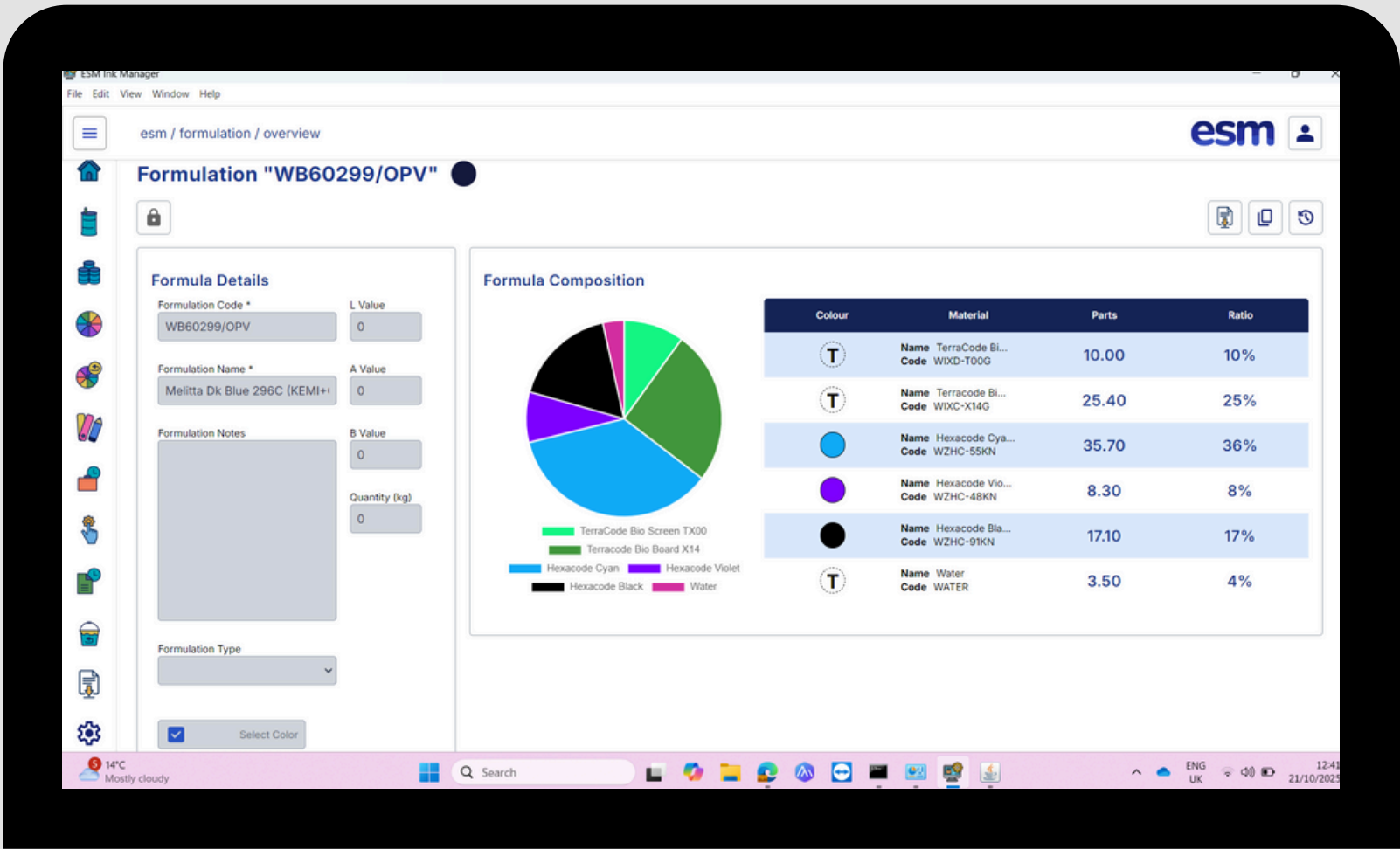




ESM SOFTWARE



The Inovex ESM software suite is a powerful management tool used to drive our wide range of automated dispense systems via links to PLC units and digital weigh scales, and is also available as a standalone package or manual check weigh system. It's multi-platform connectivity capabilities ensure easy data transmission between the dispenser and on-site management systems such as SAP, ERP and colour computers.



Features

- Standalone management program
- Manual weigh / checkweigh systems
- Press returns booking station
- Automated dispense systems
- SAP / ERP interfacing
- Batch traceability
- Automated report generation sent to email
- Colour computer interfaces
- Mobile data access
- Multi device options
- Online database
- Press-Return Work-off: Book in and book out press returns with remix options. Bulked returns can be added to the dispenser for automated usage too



ESM SOFTWARE SUITE



Visual Stock Configuration

Home screen showing all current stock levels, with shortcuts to stock and batch number entry screens.



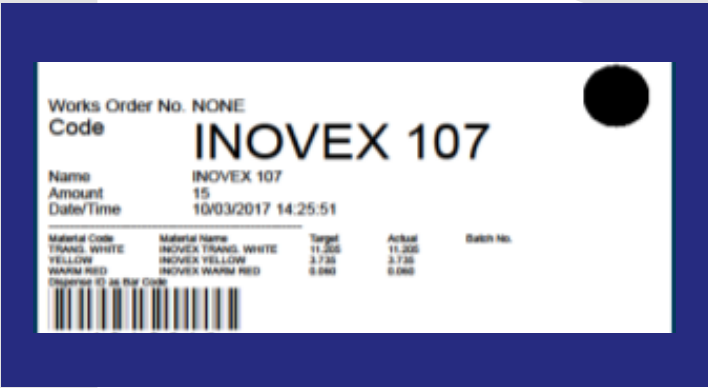
ESM Dispense and Check Weigh Software

Touch screen ready, the ESM dispense and check weigh programs offer simple controls with intuitive on screen instructions. The programs work in unison with the ESM management software, recording material batch numbers against production records ensuring full traceability of product through to works orders.



Label Printing with Bar Coding (IA5)

Detailed dispense and press returns labels printed at the dispense head.



OPTIONAL ENHANCEMENTS AND EXTRAS

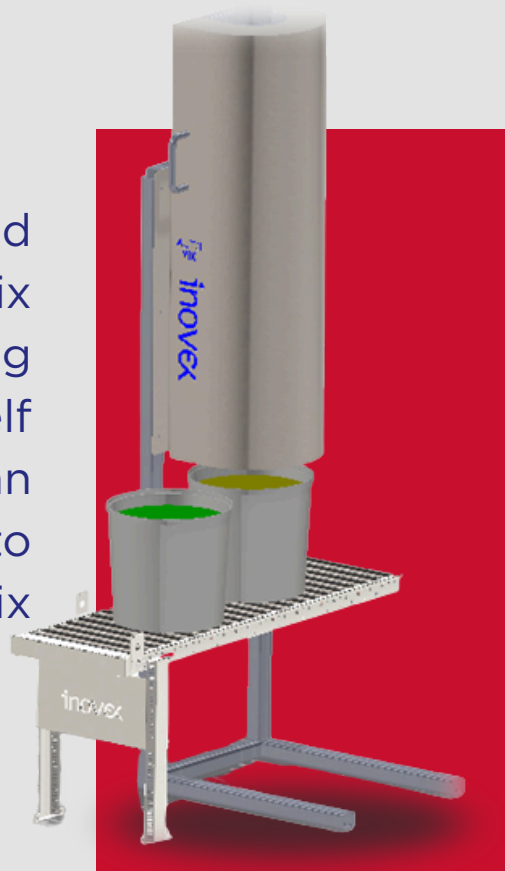


Hands-Free Bucket Mixer (CA6)

Pneumatic stirrer mounted onto a circular stainless-steel fabrication that replicates a bucket lid. Place the mixer onto the bucket, open the air isolation valve and the mixer will run for as long as you need. Suitable for hazardous and non-hazardous products.

Self-Cleaning Automix (CA7)

Taken from our Colourblend dispense systems, the Automix features an internal self-cleaning system, whereby it washes itself after every use. The mix duration can be programmed according to operator request, with the mix initiated via the push of a button.



Other Optional Enhancements:

- Automatic Ink Mixer for 20Kg Buckets (CO1, ACO1)
- Automatic Queue System for 20Kg Buckets, 5m Conveyor (CO2, ACO2)
- Barcoded Conveyor System (CO3)
- Upgrade to 300Kg x 2gram Scale (in place of standard 30kg) (CO4, ACO3)
- Dual Scale System - 300Kg x 0.002 and Removeable 30Kg Scale (CO5, ACO4)
- 8 Wheel Barrel Dollies / Skates (Stainless-steel) (CO6, ACO5)
- Spare Parts Pack with Toolkit (CO7, ACO6)
- Mains / Factory Supplied Water (CO8, ACO7)
- Site Specific Layout (CO9, ACO8)
- Separate Diptubes (CO10A)
- Dual Body Diptube (CO10B)
- Separate Diptubes with Camlock and Ball Valves (CO10C)
- Camlock and Ball Valves and Fixed Lids (CO10D)
- 1" Pump (in place of 1/2") (CO11)
- 1" Electric Pump (in place of 1/2") (CO12)
- Stainless Steel Hosebox Assembly (CO13)
- Fixed Pipework (CO14, ACO11)
- Service Contract Options (CO15, ACO13)
- Site Specific Dispense Valve Changes (CO16)
- Chemical Hose Upgrade (CO17)
- Stainless Steel Valve Block (CO18)
- All Stainless Stess Construction (Dispense and Head Cabinet only) (ACO10)
- Zone 1 Tablet PC with 30 Kg Press Returns Scale (ACO12)
- Touch Screen HMI Manual Controls (ACO14)



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