

BINKS GEMS

2K Electronic Mixing Solution

BINKS®

GEMS is the easy to operate 2K mixing solution that audits your paint resin and solvent usage while helping to reduce your solvent waste for up to 5 colours and 2 spray guns.



Binks GEMS delivers efficiency and convenience to meet real-world production schedules. Sturdy construction, quality components, ergonomic design, and powerful software make this the workhorse that will keep up with demanding projects.

GEMS is operated through a large 7" touchscreen with readily identifiable icons to provide real time information such as Flow Rate, Pot Life, Current Mix Ratio and Current Colour. Onscreen help is designed to assist operators with fault troubleshooting rather than just meaningless alarm codes.

GEMS' data capture capabilities provide insights into your daily spraying process and audit your paint resin and solvent usage. GEMS is capable of storing data for distinct production jobs, recording spraying times, colour change information and A / B material and solvent usage.

GEMS will support low pressure applications up to 5 colours and can be configured for use with 2 spray guns. The precise dosing will always ensure a perfect paint mix and finish.

Typical Industrial Applications

- Off Road and Earth Moving Vehicles
- Aerospace / Aviation
- Fork Lift, Trucks and Trailer
- General Industry
- Agricultural Machinery
- Plastic Components
- Transportation

Suitable for these materials

- Solvent OR Waterborne Coatings
- Polyurethanes / Acrylics
- Isocyanates / Epoxies

Operator Friendly Colour Screen

Large 7" colour touch screen display enables operators to use and see the status of the machine with ease.

Gather Auditing & Reporting Data

On-screen and downloadable auditing data as standard to help you improve your spraying process and reduce your paint resin and solvent usage.

Programmable Flush To Reduce Wastage

Solvent waste is reduced by up to 65% by utilising air and solvent, rather than solvent on its own, to flush mixed materials quickly and efficiently.

Accurate Proportioning 1:1 up to 100:1

On target mixing to the correct ratio every time, without any slippage, due to precise electronic dosing.

Single or Multi-Colour

Available in single, three, or five colour configurations to suit your requirements.

Model shown:
E2L-113101 + 240-3160



GEMS™
Global Electronic
Mix Solutions

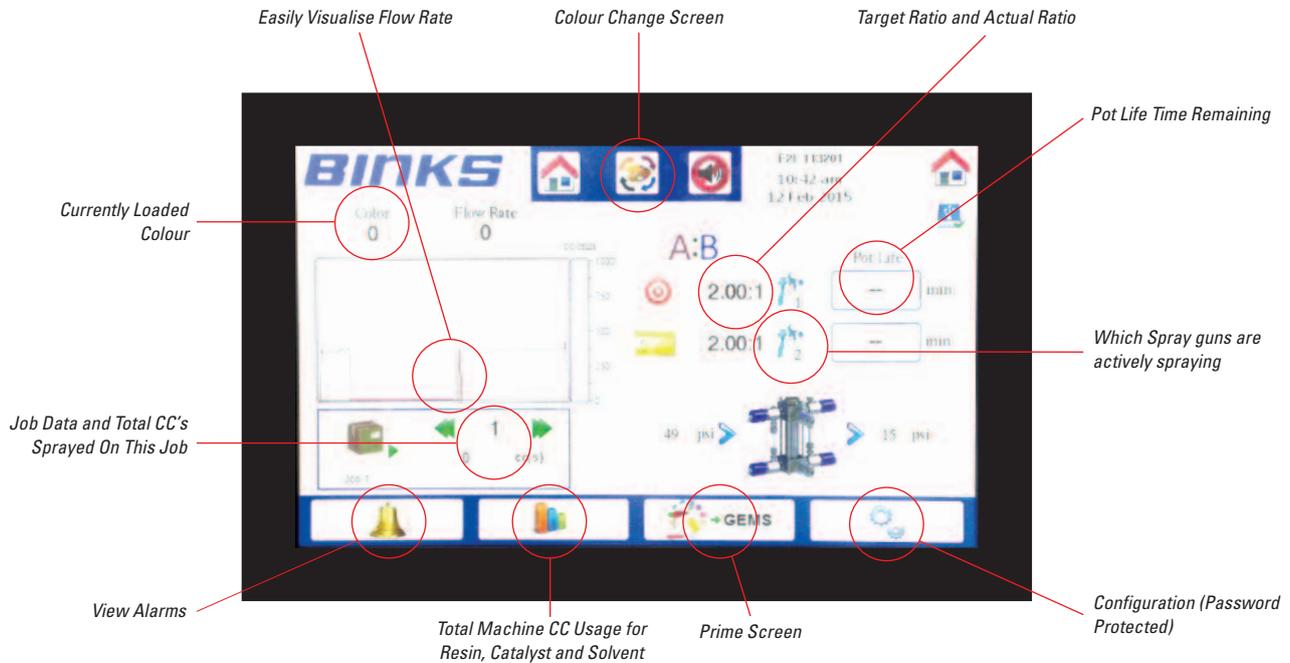
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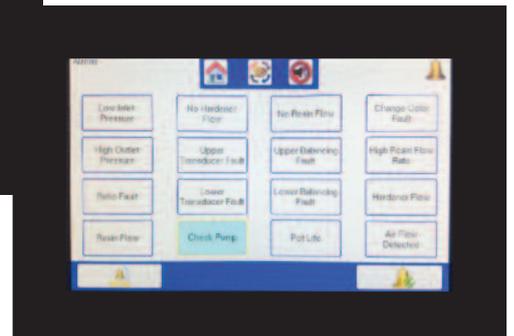
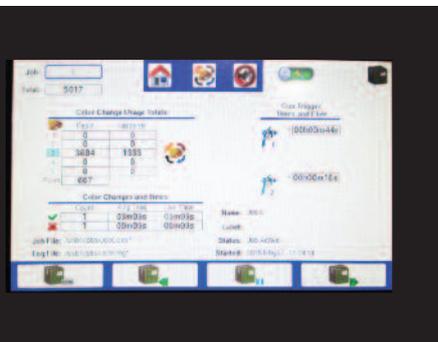
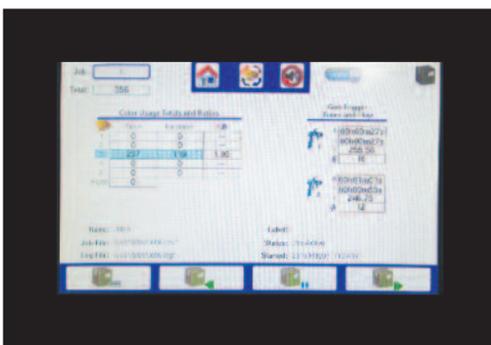
Simple For Operators

GEMS' large colour screen and icon based interface removes complexity. Colour changes are done in minutes at the touch of a button and flushing between colours is handled automatically. Key information is clearly visible and alarm conditions are diagnosed with ease.



Easy To Troubleshoot Alarms

Take the worry out of 2K. GEMS provides a clear visual indication of any alarm condition. Tap the highlighted fault for a quick explanation of the cause and a list of items to check in order to clear the alarm.



Job Auditing

Want to monitor or reduce your paint resin and solvent usage? Need to find efficiencies in your spraying times? GEMS is able to store job data for viewing on screen or for export into a spreadsheet or database. This is a standard feature, not an optional extra.

Expanded Functionality

GEMS has a number of add-on accessories that can be used to enhance the functionality of the unit and your finishing operation. These can be provided on the unit at time of purchase or retro fitted at a later date.

Stand

Part No. 240-3160

If you are not going to wall mount the unit, then GEMS can be mounted on the optional stand.



Solvent Meter

Part No. 240-3113

The additional solvent flow meter is a useful feature for tracking and reducing the amount of solvent usage. It is especially convenient for applications where it is important to know the amount of solvent waste material being generated by the machine.



Air Cut Off Accessory

Part No. 240-3118

The air cut off accessory will automatically turn off atomisation air to the gun during colour change and flushing procedures.

We highly recommend this accessory to make operation even simpler.

Requires Solenoid Expansion.



Flow Sensor

Part No. 240-3110

The Flow Sensor will help with the early detection of low fluid levels going into the dispense pump. Especially useful for pressure feed tanks and other applications where it is convenient to know when the supply tank has run dry.



Stack light

Part No. 240-3155

Mounted on top of the GEMS unit, the stack light can provide visual clues from a distance of when the unit is ready to spray and when it is in an alarm state.



Gun Flush Box*

(Requires Solenoid Expansion.)

Part No. 240-3119

The gun flush boxes are a useful feature for the reduction of solvent usage, reducing flush times by the operator and automating operations. One or two gun flush boxes may be installed with GEMS.

**Requires gun saddle - available for Advance HD, Pro-Lite and Trophy*



Gun Add On Kit

Part No. 240-3123

GEMS can support the installation of a second gun for applications where higher production speeds and demand are required.

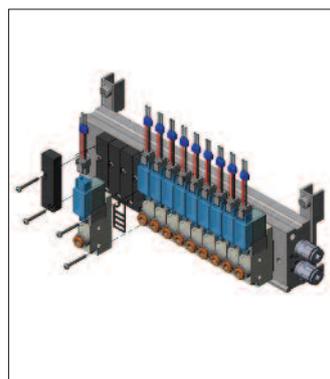
Requires additional fluid regulators and Y splitter.



Solenoid Expansion

Part No. 240-3090

This kit is required where colour expansion is needed, atomizing air control functionality is desired or if gun flush boxes are to be added to GEMS.





Fluid Panel

- Hardener or Catalyst Flow Rates as low as 2 cc (0.07 ounces) per minute*
- Ratios from 1:1 to 100:1
- Clear tubing for quick troubleshooting of fluid flow issues
- Reduce Solvent Waste up to 65% with the Programmable Flush.

**Using 300cc dispense pump.*

GEMS Technical Specifications	
Maximum Working Air Pressure	7 bar (105 psi)
Optimal Working Air Pressure	5.2 - 7 bar (75-105 psi)
Max Inlet Fluid Pressure	17.2 bar (250 psi)
Max Dispense Pump Flow Rate	300 or 600 cc/min
Min Dispense Pump Flow Rate	2 or 20 cc/min
"A" Side Flowmeter Range	40-1900 cc/min
Operating Temperature Range	5-50°C (41-122°F)
System Weight	59-68kg (130-150lbs)
Viscosity Range of Fluid	20-3000 cPs
Mixing Ratio Range	1:1 - 100:1
Ratio Tolerance Range	Up to +/- 1%
Wetted Parts	300 series stainless steel, PTFE, perfluoroelastomer, UHMW polyethylene
External Power Requirements	100-240 VAC, 50-60Hz. 1.4 Amp, 16 AWG power supply wire gauge
Environmental	Indoor use, pollution degree (2)

GEMS Ordering Information

Choose the Binks GEMS system suitable for your requirements. Select the desired attributes from the chart below ("A" through "E" options) and build the Binks GEMS part number that matches your production needs.

System Part Numbering

E2L- **A B C D O E**

A Flow Meter & Dispense Pump

- 0 = No Flow Meter
- 1 = 40-1900cc Flow Meter

B Dispense Pump Size

- 1 = 600cc pump
- 2 = 300cc Pump

C Number of Colours

- 1 = Colour
- 3 = Colour
- 5 = Colour

D Number Of Guns*

- 1 = Gun
- 2 = Guns
- 3 = Gun and Gun flush Box
- 4 = Guns and Gun Flush Boxes

E Pre-wired For Accessories

- 0 = No
- 1 = Yes

Example E2L-113301

Customer would receive a Binks GEMS system for 3 colours, for a one gun setup with gun flush box, flow meter and 600cc dispense pump, pre-wired for all accessory equipment and intended for installation into a non-hazardous zone.

**Number of guns that GEMS will support. Gun and hoses not supplied. 2 gun installations require additional fluid regulators.*

BINKS GEMS SERIES 1-YEAR WARRANTY

Binks® warrants to the original end-use purchaser that the Binks branded products "GEMS" shall not fail under normal use and service due to a defect in material or workmanship within one (1) year from the date of shipment from Binks.

Does not include normal wear and tear parts.

For further technical information refer to the Binks GEMS Service Bulletins.

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