

EMS

Electronic Mix Solutions



INNOVATIVE PLURAL COMPONENT TECHNOLOGY

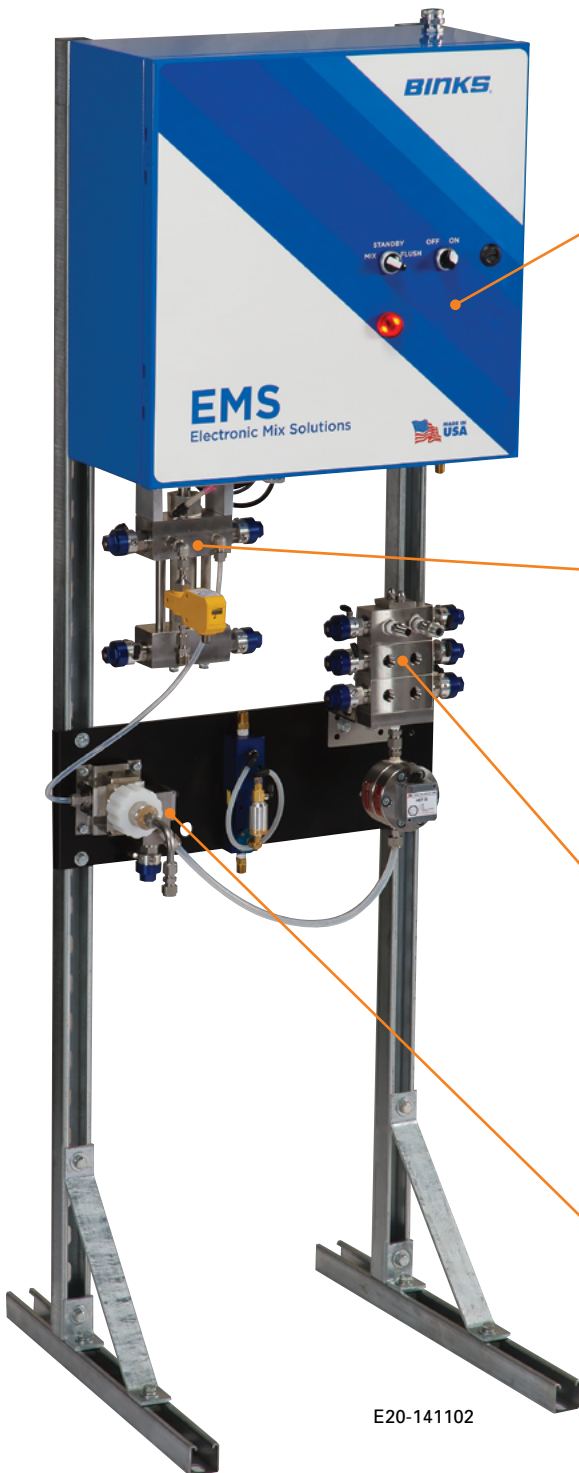
- **Wide Ratio Range** — *Accurate Proportioning 1:1 to 100:1*
- **Simple User Experience** — *Intuitive Control Pendant*
- **Minimal Waste** — *Savings with Every Color Change*



Binks EMS System Features

Ratios from 1:1 to 100:1, simple user controls, and efficient color changes in an affordable, reliable system!

The Binks EMS delivers efficiency and convenience to meet real-world production schedules. Versatility, accuracy, and speed in programming specifications from task to task, make the Binks EMS the best choice for 2K operations. Sturdy construction, quality components, ergonomic design, and powerful software make this the workhorse that will keep up with demanding projects.



E20-141102

Control Enclosure

is efficient to use and easy to learn.

Simply select –

MIX Mode to mix materials at desired ratio and perform color changes

STANDBY Mode to prime solvent, resins, and hardener into the system

FLUSH Mode to perform a manual flush of mixed material

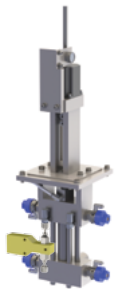
Pendant includes built-in instructions and troubleshooting guide.



Dispense Pump

delivers the calculated volume of Hardener or Catalyst to meet the Desired Ratio.

Our Unique Dispense Pump precisely dispenses as low as **2 cc's (0.07 ounces) per minute** and handles a wide range of viscosities without slippage concerns.



Color Stack

connects 2 to 6 resin colors.

The Programmable Flush feature utilizes air and solvent to flush mixed materials quickly and efficiently. By utilizing this feature, **solvent waste is reduced by up to 65%** vs. flushing with solvent alone.

For single color applications, flushing occurs at the Mix Manifold to minimize waste.



Mix Manifold

features continuous flow mixing of two components in a very compact and material-saving design.

The innovative Dispense Pump and Mix Manifold combination delivers **material savings of up to 50% per color change** vs. competition.



Binks EMS Control System

Easy Data Entry, Clear Displays, Simple Functions

The Binks EMS hand-held pendant combines an easy-to-use keypad with a large, clear interface screen. The Home Screen provides instant status checks for the monitoring of ratios, colors, alarms, and much more. Navigation and use of the control unit is easy to learn and easy to teach. New users won't require lengthy training to master the system. The pendant unit also incorporates unique troubleshooting features that contribute to accuracy and fast project turn-around.

BINKS HOME SCREEN

Flow Rate 400 cc/min

Mode: **Mix**
Color: **2**
Ratio: **1.00:1**
Current: **1.02:1**

Pot Life Remaining 57 min.

Dispense Pump Inlet Pressure = 35 psi
Dispense Pump Outlet Pressure = 25 psi

ALARMS USAGE PRIME SETUP

Home Screen provides real time data and displays vital information such as Flow Rate, Pot Life, Current Mix Ratio, and Current Color. The Home Screen is always accessible by pressing the lower left button on the pendant. This dedicated button simplifies user navigation.

SETUP

Flush / Load Sequence Gun 1

First Flush	AIR
First Flush Time (sec)	15
Air Chop Time (sec)	1
Solvent Chop Time (sec)	1
Chop Duration (sec)	30
Last Flush	SOL
Last Flush Time (sec)	20
Load Volume (cc)	300

TOGGLE NEXT

Programmable Flush is standard for multi-color systems and optional for 1-color systems. Flush and Load sequences of each color may be fully customized. Programmable Flush (compared to solvent only flushing) will reduce solvent usage by **up to 65% per flush or color change**.

[No Hardener Flow]

CAUSE:
-No flow is detected through Dispense Pump Flow Sensor when the Dispense Pump is running

SUGGESTED TROUBLESHOOTING:
-Check Hardener supply
-Check connection of Flow Sensor cable
-Adjust Flow Sensor at minimum flow rate so display moves off red signal
-Flow Sensor out of adjustment - see Calibration procedure from Dispense Pump Flow Sensor section of Maintenance and Repair Manual

BACK

Help Screen is clear and precise. By clicking HELP when a Fault Alarm occurs, the Binks EMS Pendant will provide the cause of the alarm plus several suggested troubleshooting options. The pendant stores up to 40 alarms with date and time information.

- The help screen is designed to assist with fault troubleshooting, not just indication of alarm codes.

Color: **2**

Flow Meter Calibration - Resin+Hardener

Flow Meter cc/pulse	0.2400
Pulse Count	0
Expected Volume (cc)	0.0000
Measured Volume (cc)	0.0000
Calculated cc/pulse	0.0000

START NEXT

Calibration Check provides unique ratio checks that are performed on mixed materials through the front of the spray gun. This saves production time and material waste when calibration tests are performed.



EMS

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- Ratios from 1:1 to 100:1
- Simple User Experience
- Minimal Waste with Every Color Change

ADVANTAGES

- Hardener or Catalyst Flow Rates as low as 2 cc (0.07 ounces) per minute
- Built In Instructions and Troubleshooting will Minimize Downtime of the Finishing Process
- Reduce Material Waste up to 60 cc (2 ounces) on every color change
- Reduce Solvent Waste up to 65% with Programmable Flush

TECHNICAL SPECIFICATIONS

Max Working Air Pressure	130 psi	9 bar
Optimal Working Air Pressure	75–100 psi	5.2–6.9 bar
Max Inlet Fluid Pressure	250 psi*	17.2 bar*
Max Dispense Pump Flow Rate	6.8 or 13.6 oz/min	200 or 400 cc/m
Min Dispense Pump Flow Rate	0.07 or 1 oz/min	2 or 30 cc/min
"A" Side Flowmeter Range	2.4–67.6 oz/min	70–2000 cc/min
Operating Temperature Range	41–122 Fahrenheit	5–50 Celsius
Weight of the Unit	100–150 lbs.	45–68 Kg
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, FEP	
External Power Requirements	95–132 VAC, 50–60Hz, 8 Amp, 14 AWG power supply wire gauge	
Environmental	Indoor use, pollution degree (2)	

* Flow Sensor max inlet fluid pressure: 145 psi / 10 bar

** Dispense Pump does not have a minimum cPs requirement



Scan with your smart phone or tablet to access service manuals, return on investment calculations, and operation/maintenance videos.

Consult your Binks authorized dealer (see contact information below) for more details and to schedule a Finishing Tune-Up.

BINKS
www.binks.com

The Single Source Solution
for Spray Finishing and Fluid Handling

800.992.4657 (USA/Canada)

Sales and Service Through A Global Network
of Industrial Distributors



Binks® warrants to the original end-use purchaser that the Binks branded products "EMS" 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.

See complete warranty at www.binks.com

Binks is a registered trademark of
Finishing Brands.

ORDERING INFORMATION

All Binks EMS systems will be customized to your specifications.

Select the desired attributes from the chart below ("A" through "F" options) and build the Binks EMS system number that matches your particular production needs. For support schedule a Finishing Tune-Up with your Binks representative to determine the needs of your finishing operation.

	A	B	C	D	E	F
E20 –	1	4	1	1	0	2

A DISPENSE PUMP OPTIONS

- 1 = 200 CC Max Dispense Pump (Standard)
- 2 = 400 CC Max Dispense Pump
- 3 = 200 CC Max Dispense Pump with High Ratio Kit

B COLOR VALVE SYSTEM

- 0 = 1 Color Manual Flush
- 1 = 1 Color Programmable Flush
- 2 = 2 Color Programmable Flush
- 3 = 3 Color Programmable Flush
- 4 = 4 Color Programmable Flush
- 5 = 5 Color Programmable Flush
- 6 = 6 Color Programmable Flush

C DISPENSE PUMP FLOW SENSOR

- 0 = None
- 1 = Flow Sensor

D NUMBER OF SPRAY GUNS

- 1 = One Spray Gun
- 2 = Two Spray Guns
- 3 = One Spray Gun with Spray Gun Flush Box
- 4 = Two Spray Guns with Spray Gun Flush Boxes*

*Note: Option 4 cannot be used with 6 Color System

E INTRINSICALLY SAFE FLUID PANEL

- 0 = No
- 1 = Yes with 25'
- 2 = Yes with 50'
- 3 = Yes with 100'

F MOUNTING OPTION

- 1 = Wall Mount
- 2 = Stand Mount

FACTORY INSTALLED ACCESSORIES

Beacon Light	E20-1162
Solvent Flow Meter	E20-1117
Manual Ratio Check Kit	E21-0031
Gun Flush Box Adapters*	
DeVilbiss Compact Gun	E20-1560
Binks Mach 1 Gun	E20-1561
Binks 2100 Gun	E20-1562
Ransburg Vector Solo 85KV	E20-1563
Ransburg Vector Solo 65KV	E20-1564
Ransburg Vector R90	E20-1565
Ransburg Vector R70	E20-1566

*More Gun Adapter Options Available