CARLISLE FLUID TECHNOLOGIES

COMPARISON GUIDE

2K Control Systems

For Finishing Operations

Versatile, Efficient

2K Controller Options

This guide provides an overview of 2K control systems currently available from the *Carlisle Fluid Technologies* family of product line brands; including *Ransburg*® and *Binks*® products made to deliver efficient, reliable control for multi-component material systems.

The *Carlisle Fluid Technologies* brand offers exceptional equipment, reliable resources and straightforward processes in the finishing industry. *Carlisle Fluid Technologies* 2K control systems provide a large range of options with a singular goal:

The precise, on-demand mixing, metering and application of paints, coatings and applied materials featuring two to four components.

These versatile electronic controllers are designed to deliver fine finishes on metal, wood, plastic and other non-ceramic substrates in a wide range of applications. They enable customizable, configurable manual and automatic systems that combine quality, ease and simplicity.

We strive to provide the right answer for every application. Tell us your needs and, together, we can determine the best, most straightforward finishing solution.

Ransburg® RCS 2

Automotive OEM Tier 1, 2 and Industrial Applications	• 2-component formulations • Electrostatic spray • “Class A” finishes	• Up to 10 colors • Fast color changes • Controls up to 4 fluid panels	• Fast trigger response • Ethernet/IP capabilities • Low maintenance

Ransburg® DynaFlow

Automotive OEM Tier 1, 2 and Industrial Applications	• 2- or 3-component formulations • Electrostatic spray • “Class A” finishes	• Up to 10 colors • True closed-loop control • Multiple flow meter options	• Controls up to 4 fluid panels • High pressure capabilities

Ransburg® RansFlow

Automotive OEM Tier 1, 2, Industrial and Woodworking Applications	• 2- or 3-component formulations • Electrostatic spray • “Class A” finishes	• Up to 10 colors • True closed loop, 3-channel control • Multiple flow meter options	• High pressure capabilities

Binks® MagicFlow 2*

Industrial, Heavy-Duty Vehicle, Equipment, Machinery, Aerospace, Aviation, Appliance, Electronics, Woodworking,	Plastic Component, Leather Goods, Footwear, Sporting Goods, Automotive OEM Tier 1, 2 Applications	• 2- 3- or 4-component formulations • Conventional spray • Up to 29 colors(1)	• Multiple flow meter options • Optional high-pressure capabilities • Ethernet/IP capabilities

Binks® GEMS**

Industrial, Heavy-Duty Vehicle, Equipment, Machinery, Aerospace, Aviation, Woodworking,	Plastic Component, Sporting Goods, Non-OEM Automotive Applications	• 2-component formulations • Conventional spray • Up to 5 colors • Wide viscosity range	• Fast trigger response • Optional high-pressure capabilities • Ethernet/IP capabilities • Best data acquisition

(1) Total of 32 valves available. Allocating one for color, one for catalyst and two for solvents leaves 28 valves available for additional colors or catalysts – with a maximum potential of 29 colors.

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	PHYSICAL DATA							KEY FEATURES					STANDARD FEATURES													OPTIONS					
	SCREEN DIMENSIONS	POWER REQUIREMENTS	AIR REQUIREMENTS	VISCOSITY RANGE	MAXIMUM FLUID TEMPERATURE	MAXIMUM FLUID PRESSURE	MIXING METHOD	FAST TRIGGER RESPONSE (30 MSEC)	MULTIPLE FLUID PANEL CONTROL	TRUE CLOSED-LOOP CONTROL	3 COMPONENT CONTROL	MULTIPLE FLOW METER OPTIONS	NUMBER OF COMPONENTS	RATIO RANGE	RATIO ASSURANCE	FLOW RATE RANGE	MAXIMUM COLORS	MAXIMUM CATALYSTS	MAXIMUM RECIPES / JOBS	POT LIFE MONITOR	FLOW CONTROL	PROGRAMMABLE FILL CYCLE	PROGRAMMABLE FLUSH CYCLE	FLUID PRESSURE CONTROL	THREE-COMPONENT METERING	REPORTING / DATA RETRIEVAL	MULTI-GUN	GUN FLUSH BOX	HIGH PRESSURE	IN-BOOTH OPERATOR CONTROLS	ROBOTIC COMMUNICATIONS	FLUID PANEL IN HAZARDOUS AREA
***Ransburg*® RCS 2**	12" x 9"	120 / 240 VAC @ 10A / 5A, 50 / 60 Hz	90 - 100 psi	20 - 1,000 cPs	180°F (82.2°C)	200 psi (13 bar)	Gear Pump	YES	YES - 4 panels	NO	NO	NO	2	0.66:1 - 32:1	+/- 1%	0.9 - 1,500 cc/min (per pump)	10	1	199 / gun	YES	YES	YES	YES	YES[1]	NO	YES	YES - 8[2]	YES	NO	YES	YES (RIO or EIP)	NO
***Ransburg*® DynaFlow**	12" x 9"	120 / 240 VAC @ 2A, 50 / 60 Hz	90 - 100 psi	10 - 1,200 cPs	180°F (82.2°C)	3,000 psi (206 bar)	Dynamic	NO	YES - 4 panels	YES	YES	YES[3]	3	0.5:1 - 99:1	+/- 1%	15 - 3500 cc/min (per channel)	10	3	99 / gun	YES	YES	YES	YES	NO	YES	YES	YES - 8[2]	YES	YES	YES	YES (RIO)	YES
***Ransburg*® RansFlow**	5" x 4"	120 / 240 VAC @ 2A, 50 / 60 Hz	90 - 100 psi	10 - 1,200 cPs	140°F (60°C)	3,000 psi (206 bar)	Dynamic	NO	YES	YES	YES	YES[3]	3	0.5:1 - 99:1	+/- 1%	15 - 3500 cc/min (per channel)	10	3	99 / gun	YES	YES	YES	YES	YES[4]	YES	YES	YES - 2	YES	YES	YES	NO	YES
Binks*® MagicFlow 2	6" x 3.5"	100 - 240 VAC @ 1.5A, 50 - 60 Hz	87 - 116 psi	20 - 1,000 cPs	158°F (70°C)	580 psi / 3,626 psi[5] / 5,800 psi[5] (40 bar / 250 bar[5] / 400 bar[5])	Dosing / Injection Valve	NO	NO	NO	YES	YES[3]	2 / 3 / 4	0.1:1 - 100:1	+/- 1%	50 - 2,000 cc/min	29[6]	3+	50 / gun	YES	NO	YES	YES	YES[4, 5]	YES	YES	YES - 4	YES	YES[7]	YES	YES[5]	YES[5]
Binks*® GEMS*	6" x 4"	100 - 240 VAC, 50 - 60 Hz	75 - 105 psi	20 - 3,000 cPs	122°F (50°C)	250 psi / 1,000 psi[5] (17 bar / 69 bar[5])	Dispense Pump	NO	NO	NO	NO	NO	2	1:1 - 100:1	+/- 1%	40 - 1,900 cc/min	5	1	Up to 5 colors with individual ratios per color	YES	NO	YES	YES	NO	NO	YES (100,000 data points)	YES - 2	YES	YES[8]	YES	NO	YES[5]

[1]Dynamic control | [2]Two guns per fluid panel | [3]*Ransburg*® DynaFlow and RansFlow available with gear, coriolis or piston flow meter. *Binks*® MagicFlow 2 available with gear or coriolis. | [4]Programmable control
[5]Optional | [6]Total of 32 valves available. Allocating one for color, one for catalyst and two for solvents leaves 28 valves available for additional colors or catalysts – with a maximum potential of 29 colors.
[7]Up to 5,800 psi with optional packages | [8]Maximum 1,000 psi with GEMS 1000 model
*The *Binks*® MagicFlow 2 product is not available in the Americas.
**This product is branded *Ransburg*® GEMS in China, Japan and the rest of Asia.

RIO = Remote Input / Output (I/O) | EIP = Ethernet/Industrial Protocol (IP)

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For further technical information, refer to the service bulletins available at *CarlisleFT.com*

The brands you trust

Carlisle Fluid Technologies, a wholly-owned subsidiary of Carlisle Companies, Incorporated, is dedicated to providing customers industry-leading solutions for the supply, control, application and curing of a wide range of paints, powders, sealants, adhesives, foams and other application materials. From manual finishing equipment, to highly automated mass-production installations, the company solves customers' material application challenges through the combination of product innovation and decades of technical expertise. Focused on efficient, cost-effective global solutions for the transportation and other industrial markets, the company offers an expanding collection of pioneering product brands — *DeVilbiss*®, *Ransburg*®, *ms*®, *BGK*®, *Binks*®, *Hosco*® and *Ecco*™.

Let's start a conversation

We want to work together to help answer your application challenges. To learn more about what we can offer, visit our website at ***CarlisleFT.com*** or call us today.

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