Ransburg IntelliFlow RF2 Automatic

New Product Webinar November 30th, 2021





IntelliFlow RF2 Automatic









Carlisle Fluid Technologies Next-gen 2K Family: IntelliFlow

The new IntelliFlow product family represents best-in-class 2K performance and connectivity

Next-gen performance:

- o Large, intuitive, full-color touchscreens
- Seamless communication and integration
- o Dynamic mixing reduces coating and solvent waste
- Modular, scalable architecture

Launching complete line through 2021-2022







Ransburg Electronic 2K Offerings

Flexible Manual or Auto

Entry-level Manual

IntelliFlow RM2:

- Entry-level manual spray
- 2 hand guns
- 7 colors, 1 catalyst
- Moving up from hotpotting
- Touch up or full production
- Distributed product



IntelliFlow RF2:

- Flexible Manual or Automatic Spray
- Hand guns, reciprocators, or robots
- 30 colors, 6 catalysts
- 1K, 2K, or 3K
- Up to 4 fluid panels
- Seamless communication and integration
- Distributed or custom configured product

Premium Manual or Auto



Ransburg RCS2

- Premium Automatic or Manual spray
- Robots or premium manual applicators
- 10 colors, 1 catalyst
- Rapid triggering and responsiveness
- Custom configured product



Intuitive Controls

Large, full color touchscreens

- o 10" or 15" screen depending on model
- Scratch-resistant and resists all major solvents

Easy to learn and use

- o App-like interfaces will feel natural to both new and experienced operators
- o Both visual and numeric readouts to quickly visualize equipment status
- Simplified primary operation screens in front of full-functionality configuration and diagnostic screens

Automate common processes and avoid costly mistakes

- Common operations like color changes, flushes, and flow adjustments can be done in 3 presses or less using customizable recipes
- o Multi-level password protection to avoid accidental or unwanted process adjustments

Visible alarms tell you what's wrong and how to fix it

- Visual and audible alarms with on-screen notifications
- o Alarm pop-ups tell you what's wrong, and give step-by-step instructions to correct





Seamless Connectivity

All IntelliFlow units come standard with Ethernet I/P connectivity

o Profinet, EtherCat, Device Net, CC Link and more also available

Export process data in real-time or batches

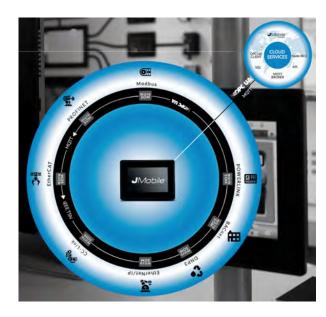
o Track material and solvent usage, VOC's, ratio and flowrate actuals

Send/receive data and control from central PLC or SCADA system

- o Open PLC architecture can be quickly configured for retrofits or new installs
- o Send color change, ratio, and flowrate commands to the unit
- o Easily monitor equipment as a part of your whole process

Remote monitoring capability for real-time diagnostics

- If enabled, Carlisle Fluid Technologies or your authorized distributor can remotely login to your equipment for troubleshooting and support
- o Don't wait for a service tech to arrive, get it fixed right away







Best-In-Class Fluid Performance

Dynamic mixing reduces waste and maintenance time

- o Continuous ratio and flow control eliminates need for Integrator
- Saves coating and solvent waste on every flush
- Simple mix blocks flush well and are easy to maintain

Fluid solutions to meet any process requirement

- o Solvent or waterborne, electrostatic or non-electrostatic
- o Wide range of flow control devices available to match your process and budget
- o 1K, 2K, or 3K flow and/or ratio control

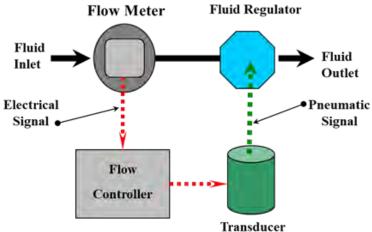
New standard flowmeters increase ratio and flow control accuracy

- Higher resolution for faster response rates and increased control
- o Abrasion resistant internals, with option for acid-catalysts
- o Coriolis meters also available for highly abrasive or sensitive materials

High-speed processors increase responsiveness and reduce lag

o Improved fluid components combined with faster controllers provides precise process control, even rapid triggering, low flowrates, and high ratio operation.







Modular, Scalable, Easy to Order

Start small, expand later

- Accessories and add-on kits available to expand the capabilities of your system after first installation
- o Go from 1K to 2K, or 2K to 3K
- Convert from manual to automatic spray
- o Swap to different fluid components as your process evolves

One control architecture for the whole product range

o Easily install and use multiple different IntelliFlow products throughout your process

Order turn-key configurations or custom-engineered solutions

- Single part number configurations, with shorter lead times and very competitive pricing, designed to meet the most common process needs
- o Or work with us to select a custom configuration



IntelliFlow RF2 Automatic: Maximize process savings with an incredibly intuitive, reliable, and flexible plural-component system

Intuitive, seamless operation by an operator, central PLC, or SCADA

- o 15" full-color touchscreen controls all process functionality
- o Open communication: Ethernet, Profinet, Device Net, CC Link, Wi-Fi, and more
- o Fluid panel can be located in-booth, and remote operator panel allows in-booth control

Reliable, flexible fluid panel meets all major process needs

- Closed-loop ratio and flow control for almost any solvent or waterborne, electrostatic or non-electrostatic coating
- o **Up to 30 colors and 6 hardeners** with programmable changes, flushes, and recipes
- o Low and high pressure configurations, with wide viscosity and flow rate ranges
- o Gear, Coriolis, and piston flow meters available to meet your specific coating needs
- Full 3K capability

• Increase efficiency and reduce coating and solvent waste

- o **On-demand metering and mixing** with 1% flow and ratio accuracy drives significant reductions in coating waste. No integrator means less waste.
- o Optional remote monitoring and troubleshooting reduces risk of unexpected downtime
- Track and export process data such as paint and solvent usage, spray time, ratio and flowrates, alarms and faults





IntelliFlow RF2 Auto Common Applications

The RF2 is designed to be a jack-of-all-trades proportioner, with the ability to handle almost any flow control application

- Configurations:
 - o 1K Flow Control
 - 2K Flow + Ratio Control
 - 3K Flow + Ratio Control
- Coatings:
 - o Solventborne
 - o Waterborne
 - o Electrostatic
 - о Ероху
 - o Isocyanate
 - Acid-catalyst (coming 2022)

- Applicators:
 - o AG360
 - o Ransflex
 - o Evolver
 - TurboDisk
 - o RMA
- Mounting:
 - o Static
 - o Reciprocator
 - o Robot



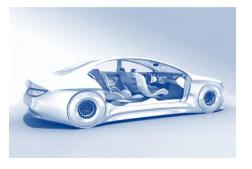






IntelliFlow RF2 Auto Equipment Specifications:

Next-gen RF2 Automatic Specifications				
Ratio Range	1:1 to 50:1			
Ratio Tolerance	±1%			
Viscosity Range of Fluid	10-3000 cps			
Max Number of Resin	30			
Max Number of Catalyst/Hardener	6			
Low Pressure System	300 psi			
High Pressure System	3000 psi			
Resin Flow Rate	15-3500 cc/min			
Catalyst/Hardener Flow Rate	15-3500 cc/min (10 cc/min minimum possible for some applications)			
Total Flow rate range	30 - 7000 cc/min			
Flow Tolerance	±1%			
Trigger response rate	150 ms			
Wetted Parts	Stainless steel, PTFE, Perfluoro elastomer, UHMW, Polyethylene			
Optimal Working Air Pressure	75-105psi			
Operating Temperature	0-50°C			
Acid catalyst compatible option	Yes			
Isocyanate catalyst compatible option	Yes			
Flowmeters	Gear, Fiberoptic, Piston, Coriolis			
Communication Protocol	Ethernet, Discrete, Profinet, Device net, CC Link, Wi-Fi			
No. of Recipes/Jobs	99+			
No. of guns per fluid panel	2			







Easy to buy, Easy to Sell: 10 standard turn-key configurations

- You can now quote a single part number that covers all the needs of most 1K and 2K flow control processes
- Benefits of new packages:
 - o Better pricing: Lower price than ordering custom system
 - o Better lead times: 2-4 weeks
 - o Easy for you and the end-user: Select and quote an RF2 in 2 minutes
 - o Kits and accessories (like color stacks) can still be added to tailor system to customer's needs
- Fully custom systems are still available if a standard package doesn't meet your needs

RF2 Turn-key standard packages cover the most common 1K and 2K applications: Competitive pricing and lead times as low as 2 weeks

How to select your configuration:

- 1. Select 1K or 2K
- Select low or high pressure
- 3. Select number of colors and catalysts (If desired combination is not listed, select 1 color 1 catalyst configuration and add color stacks separately)
- 4. Select material compatibility

2K Low Pressure (300 psi)

Number of Colors	Number of Catalysts	Standard Materials Part Number	Isocyanate Materials Part Number	2021-2022 List Price
1*	1*	RF2-LA2-01-01-S	RF2-LA2-01-01-C	\$ 49,000
4	1	RF2-LA2-04-01-S	RF2-LA2-04-01-C	\$ 52,330
7	2	RF2-LA2-07-02-S	RF2-LA2-07-02-C	\$ 55,950
12	4	RF2-LA2-12-04-S	RF2-LA2-12-04-C	\$ 59,100

2K High Pressure (3,000 psi)

Number of Colors	Number of Catalysts	RF2 Part Number	2021-2022 List Price
1*	1*	RF2-HA2-01-01-S	\$ 50,000

1K, 2 Channels, Low Pressure (300 psi)

Number of Colors	Number of Catalysts	RF2 Part Number	2021-2022 List Price
1*	1*	RF2-LA1-01-01-S	\$ 44,500

^{*} Order color and catalyst stacks separately

All packages include:

- Inlet pressure regulators**
- Gear flowmeters
- MVR flow control
- Solvent air/chop**
- Flushable dynamic mix block
- Wall mounting



^{**} Low pressure systems only

What's included in the RF2 turn-key packages

What's Included:			
Controller	Gear flowmeters		
Fluid Panel	MVR: #3 on color, #2 on catalyst		
Color CCV stack (if more than 1 color)	Flushable mix block (if 2K)		
Color air/solvent chop (if more than 1 color	Wall Mount		
Catalyst CCV stack (if more than 1 color)	Solenoids for up to 12 colors, 4 catalysts		
HGB inlet pressure regulators	E/P's for 2 channels		

What may need to be added:
Floor stand
MVR needles (different sizes)
Remote mounting kits (longer lines, cables, IS barriers)
Connectivity modules (if not using EIP)
Color stacks (if selecting 1-color units)
Remote operator panel

Major Kits, Accessories

Part Number	Description		\$ (USD) List Price	
310-2002	Floor Stand	\$	2,600.00	
HGB-510-R1-CO	HGB Inlet Pressure Regulator	\$	472.91	
CCV-51XX-XXX	Low Pressure Color Change Stack		Varies	
240-35XX	High Pressure Color Change Stack		Varies	
240-5202	Solvent Flowmeter Kit	\$	3,543.08	
240-5204	In-booth Solvent Flowmeter Kit	\$	3,850.00	
310-8020	In-booth Fluid Panel Kit - 2 Channel Std	\$	1,400.00	
310-8021	In-booth Fluid Panel Kit - 3 Channel Std	\$	2,100.00	
310-8022	In-booth Fluid Panel Kit - 2 Channel Fiberoptic	\$	1,800.00	
310-8023	In-booth Fluid Panel Kit - 3 Channel Fiberoptic	\$	2,700.00	
310-8030	Screen Protector Kit	\$	77.50	
Varies	Communications gateway, RF2	\$	2,856.00	

When should you build a custom configuration?

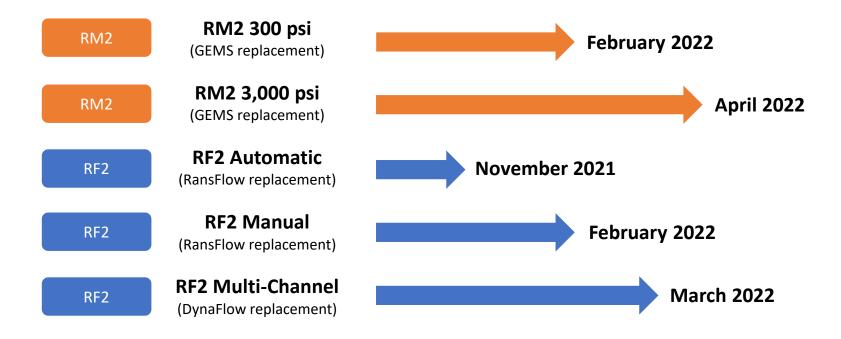
- Build a custom configuration if you need:
 - o Non-gear flowmeters (Coriolis, piston)
 - Fiberoptic flowmeters
 - o 3K
 - o 4 channels (2 fluid panels)
 - Combination of fluid control devices
- You don't need a custom configuration for:
 - o MCV or Piggable color stacks (select 1-color unit and quote stacks separately)
 - o Remote mounting (order remote mounting kits)
 - High pressure (HP standard configuration available)
 - 1K (standard configuration available)
 - o Isocyanate Catalysts (standard configurations available)
- Contact your Carlisle Fluid Technologies Account Manager to build an appropriate custom configuration



RF2 Auto vs Manual vs Multi-Channel

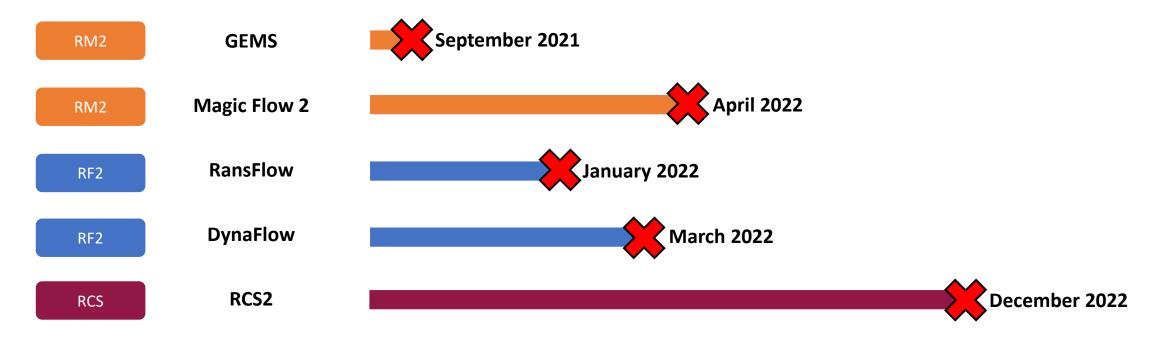
	RF2 Auto		RF2 Manual		RF2 Multi-Channel
Process Capability	Automatic Gun Flow Control + Ratio Control		Manual Gun (Demand Mode) Ratio Control		Automatic or Manual
Mixing/Flow Control	1K, 2K, 3K		2K, 3K		1K, 2K, 3K
Number of channels	2 or 4		2 or 4		6 or 8
Number of colors/catalysts/3K	Standard: 12/4/3 M	ax: 30/6/3	Standard: 12/4/3	Max: 30/6/3	Up to 60/12/6
Ethernet I/P connectivity	Standard		Standard		Standard
In-booth fluid panel	Optional		Optional		Optional
Flow Devices	1K: DR-1 2K: MVR	3K: MVR	Pulse		DR-1, MVR, or Pulse
Flowmeter	Gear, Coriolis, Fiberoptic		Gear, Coriolis, Fiberoptic		Gear, Coriolis, Fiberoptic
Inlet pressure control	Standard		Optional		Optional
Launch date:	November 2021		February 2022		March 2022

IntelliFlow Launch Timing



Now taking pre-orders on RF2 and RM2 units, contact your Carlisle Fluid Technologies Account Manager for details

Legacy 2K Product Obsolescence



- Legacy products will be discontinued once that product can be fully replaced by new IntelliFlow equipment
- Legacy 2K equipment parts will be available for 2-5 years after obsolescence
 - Touchscreen and control board availability dictated by supply chain availability

Trade-in Trade-up Launch Promotion

- End-users can receive a \$1,500 discount when purchasing an RM2, or a \$3,000 discount when purchasing an RF2, for trading in a Carlisle Fluid Technologies or competitor's 2K unit
- Program Duration: October 2021 June 2022
- Applies to both RM2 and RF2, any configuration
- Specifics:
 - Carlisle Fluid Technologies provides discount to Distributor/Integrator
 - Old equipment must be returned to Carlisle Fluid Technologies, or proof of scrapping provided
 - No limit on number of discounts on an order
 - o For integrated solutions, customer must replace at minimum: Controller, solenoids, and flowmeters



Marketing and Sales Tools Available

Product Sell Sheet

User Manual

Pricing Configurator

Website





The Brands You Trust



BGK[™] products deliver precision-engineered curing capabilities for a full range of coatings including liquid, powder, wax, UV and adhesives.



Binks® products boast innovative spray gun and air cap design along with industry leading pumps and controls.



DeVilbiss® products include low pressure manual and automatic spray guns and related spraying accessories. DeVilbiss products are widely acclaimed for ergonomics and innovative spray gun design.



Hosco® products deliver smooth bore, "cavity free" stainless steel fittings and accessories designed for use in paint circulating and application finishing systems.



ms® products include powder coating systems and equipment. ms is recognized throughout the world for quality, efficiency and durability.



Ransburg® manual and automatic electrostatic finishing products offer spray finishing solutions to industrial and automobile manufacturing markets.















Thank you!

