

# The **KREMLIN** Family of Color Changers



**Man-U-Color™**

**Auto-Color™**

**Auto-Color-Plus+™**

**Auto-Color-Plus+2™**

**Auto-Color-Plus+  
LP-MP™**

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# KREMLIN

## Family of Color Changers

### Why **Color Change** Systems?

They:

- Increase production time by having less downtime
- Save Material (Plus series) when you change color and recapture
- Reduce manpower with a more efficient system
- Save on flushing solvents by using an air/solvent chop
- 3 modes of color change times with the touch of a button
- Provides constant circulation which helps uniform color match
- Automatic version (Plus series) provides programmable fluid regulation for constant pressures to the gun
- Air/solvent chop for line scrubbing
- Keep surrounding areas clean by eliminating the use of many containers

### Controls for **Man-U-Color™** & **Auto-Color-Plus™**



#### Standard **Man-U-Color™** Series

The standard panel for the **Man-U-Color™** as pictured on the left includes a selector switch for 3 colors, selector switch for air/solvent/color and an activation button with timer.

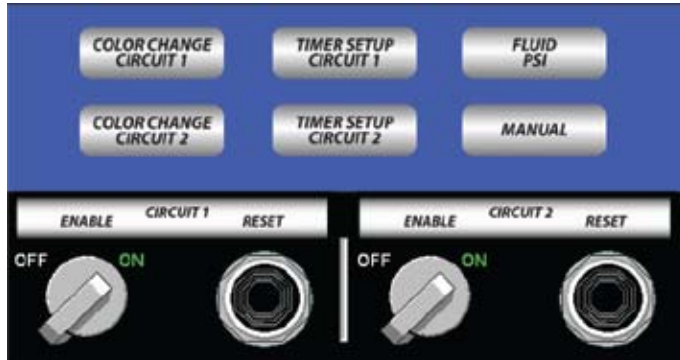


#### Standard **Auto-Color-Plus™** Series

The standard panel for the **Auto-Color-Plus™** series is Panel View 700 with a 7" inch color screen (a 10" inch screen is pictured on the left and is available as an option). Also included on the panel is a Cycle Stop button.



# PLC Interface Screens



The Main Menu screen is the first to appear when the unit is powered on. From this screen the available circuits may be enabled or reset. The silver buttons located in the middle of the screen are for navigation to the various other system control displays.

The unit will power on with all circuits disabled. This means that no valves will be open. To enable a circuit, press the corresponding illustrated switch on the screen. The illustration will then show the circuit as ON, as displayed

above. Note that the only way to disable the circuit is to press the RESET button adjacent to the ENABLE button. Pressing RESET will close all of the valves on a particular circuit. A circuit must be enabled prior to performing any automated color changes.

The system controller for the Auto-Color™ is a panel view & monochrome .

The PLC controller for the Plus+ series is an Allen-Bradley Micrologix processor which is accessible through a panel view plus 700 user color interfaces a 10" version and a modem is optional.



The Color change screen is where the majority of the system control takes place.

The illustration is a dynamic visual description of the state of the color change system. The valves are labeled and illustrated and the color lines represent the various fluid paths that are enabled at any given time. On this screen the operator can choose initial load in the morning by pushing initial load and the color he wishes to select. When the operator wants to make a color change, he selects the number of colors he wishes to choose and then one of 3 options - Quick color change, Color change w/o reclaim and Color change with reclaim.

Each sequence will vary in time based on the time settings (see timer setup screen), length and diameter of hose and location of color changes to the spray guns. The shut-down button initiates the flush sequence that is designed to clean the guns and fluid lines of material.



Timer Setup Screen allows the user to adjust the amount of time that the Auto-Color-Plus™ series spends performing each stage of the color change process. The timers are adjusted to reflect variations in aspects such as hose length and available pressure to optimize the color change process. Timers are listed in the order that they are preformed by the system.



# Non Reclaim Series



## Man-U-Color™

The Man-U-Color™ allows the operator to select colors from 2 to 20 with the use of single or multiple rotary dials. When the color is not being used it can be circulated back to the original material container.

The Man-U-Color™ also has a selector switch enabling the operator to choose air and solvent to flush the system. There is a timer button that is adjustable to allow the length of time for each flush. Also, included is a manually adjusted fluid regulator for fluid control. In addition, there is a dump valve which enables the unused material to either go back into the original container or a waste container.

### Available in Low Pressure or Medium Pressure

- Man-U-Color LP™ (Low Pressure valves)
- Man-U-Color MP™ (Medium Pressure valves - Airmix®)



## Auto-Color™

The Auto-Color™ like the Man-U-Color™ allows you to circulate through the valves when that material color is not being used.

This system utilizes a 4" inch monochrome PLC from Allen-Bradley. Options to upgrade the PLC are available.

The material being sprayed is dead-headed to the guns and is non-reclaimable.

Included with this system is a air piloted fluid regulator for precise fluid control from the PLC screen. Automatic time control is available on all colors, as well as, air and solvent.

### Available in Low Pressure or Medium Pressure

- Auto-Color LP™ (Low Pressure valves)
- Auto-Color MP™ (Medium Pressure valves-Airmix®)



# Plus Series

The Plus+ series of changers all have the capability to reclaim the material being used



## Auto-Color-Plus+™

The Auto-Color-Plus+™ allows for circulation through the valves like Auto-Color™, but in addition, it also enables you to circulate material through the spray guns or not. This feature allows you to operate at low pressures when the guns are deadheaded or circulate when you need to keep material in suspension at higher pressures. Plus +... you save the majority of your material by reclaiming material when you color change. You also have 2 other options, one is to choose “Quick Color Change” option which enables one color to flush out the next or the second option “Color Change w/o reclaim” allows you to color change without reclaiming material. The Auto-Color-Plus+™ comes standard with a 7” inch color Allen-Bradley PLC up to 20 colors.

Options to upgrade to a 10” screen and have modem capabilities are available.

### Available in Low Pressure or Medium Pressure

- Auto-Color LP™ (Low Pressure valves)
- Auto-Color MP™ (Medium Pressure valves - Airmix®)



## Auto-Color-Plus+2™

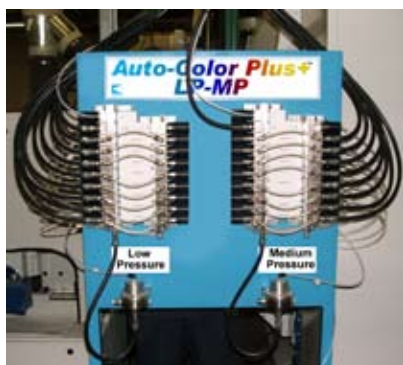
The Auto-Color Plus+2™ allows you to have extremely fast color changes. Primarily used with flat line systems you need 2 circuits & dual sets of guns on the flat line machine. Color changes are almost instantaneous. When you are ready to make a color change just switch from one circuit to the next on the flat line machine and start spraying with the second set of guns on circuit 2. Meanwhile, you can color flush the first circuit 80% of the way while spraying with the 2nd circuit. When you are ready to go back to the first circuit just flush out the first circuit guns and you will be ready for a new color in circuit 1.

Plus +... you still can save the majority of your material by reclaiming material when you color change. You also still have 2 other options; one is to choose “Quick Color Change” option which enables one color to flush out the next or the second option “Color Change w/o reclaim” allows you to color change without reclaiming material. The Auto-Color-Plus+2™ comes standard with a 7” inch color Allen-Bradley PLC up to 20 colors.

Options to upgrade to a 10” screen and have modem capabilities are available.

### Available in Low Pressure or Medium Pressure

- Auto-Color-Plus+2 LP™ (Low Pressure valves)
- Auto-Color-Plus+2 MP™ (Medium Pressure valves - Airmix®)



## Auto-Color-Plus+ LP-MP™

The Auto-Color-Plus+ LP-MP™ comes with one set of inbound and return valves in low pressure, as well as, one set of inbound and return valves in medium pressure.

All the features of the Auto-Color-Plus+™ series, i.e. the three color change options are included: Quick Color change, Color Change with reclaim and Color Change without reclaim.

Options to upgrade to a 10” screen and have modem



Capabilities:

## Turn to Kremlin The World Leader in Finishing Application Equipment!

Kremlin offers an extensive line of equipment and solutions for Finishing systems and an outstanding support network for our customers!

- Certified Solution & Service Centers
- Market Development Team
- Training Schools
- Technical Specialists
- Technical Lab



Kremlin's extensive line of equipment & solutions:

- 2K & 3K Electronic & Mechanical
- Fluid Delivery Technology
- Airspray Technology
- Airmix® Technology - unbelievable transfer efficiencies



### CYCLOMIX™

- Eliminates "Hot-Potting"
- Ensures extremely accurate deliveries
- Proven Acid Catalyzed equipment



### ATX - Gun



The Kremlin ATX gun is the most widely used gun in the world for flat-line and linear finishing. They provide excellent atomization quality and outstanding transfer efficiency. Special tips and bases are available for this modular gun.

### AVX - Gun



The Kremlin AVX gun is the most efficient non-electrostatic production gun available and is used in thousands of applications all over the world. Most automatic machines using medium fluid pressure use Airmix® guns because they are extremely reliable and deliver outstanding finish quality at minimal production cost.

### ATX-UV

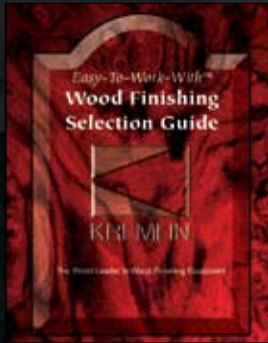


This workhorse gun has been used in thousands of installations worldwide. It is now available for demanding UV applications.

Ask for Part # 668-625-700.



OTHER CATALOGS



Wood Guide



Automatic Spray



Manual Airmix®



Fluid Delivery



Glue & Adhesives Guide\*



Manual Electrostatic



Manual Airspray



Automatic Electrostatics



General Catalog



Manual Powder Equipment



1 Component Extrusion



2 Component Extrusion

\* Coming Soon

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