

OptiControl™ 2.0

Intelligent line control for automatic gun triggering

Smarter line control... Less complexity

The OptiControl 2.0 is an industrial PC-based powder coating line controller that triggers automatic powder spray guns on and off based on part presence. This delivers more consistent, higher quality finishes by improving film thickness uniformity across leading and trailing edges, while simultaneously reducing powder consumption and operational costs. Less powder sprayed also means less wear on powder path components and reciprocators — reducing maintenance requirements and extending the life of your equipment — all delivered through an intuitive interface designed to get your operators up and running from day one.

OptiControl 2.0 Advantages:

- More flexibility than timer-based solutions for line gap triggering
- Simple and effective solution for zone triggering applications
- Reduces overspray by triggering guns on only when a part is present
- Increases application efficiency — powder is applied where it matters most
- Lowers powder consumption, directly reducing operational costs
- Reduces wear on powder path components and reciprocators, lowering maintenance costs and extending equipment life
- Improves finish quality by delivering more consistent film thickness across leading and trailing edges
- Existing coating application programs are preserved on the gun controller — making OptiControl 2.0 a seamless addition to your operation



Gema

The Global Leader in
Powder Coating Technology

Technical Data OptiControl 2.0

Specification	Detail
Platform	Industrial PC with touch-screen display
Maximum Guns	12 guns (0 axes) or 10 guns (2 axes)
Maximum Reciprocators (Axes)	2 axes — Z-motion only
Maximum Photo Eyes	6
Recipes	Up to 10 named recipes - gun on/off, offset, extension, and line speed
User Permission Levels	Administrator Management Operator
Language	Tied to individual user profile
Compatible Gun Controllers	CG02, CG06, CG08, CG20
Compatible Axis Controllers	CR04, CR05, CR06, CR07, CR08, CR09
Conveyor Speed Input	User-entered (no encoder required)
Communication Protocols	Relay based external gun control
GemaConnect Compatible	No
Gun Triggering	Photo eye-based (line gap or zone triggering)
Application Stations	Up to 2 stations configurable (A and B sides)

Administrator	Management	Operator
<ul style="list-style-type: none"> • Full system access • Management of all users • System configuration • All settings 	<ul style="list-style-type: none"> • Recipe management • View reports • Modify recipes • Add operator users 	<ul style="list-style-type: none"> • Load recipes • Start/stop spraying • Adjust line speed • View-only settings

OptiControl 2.0 Components

Controller Cabinet

- Industrial PC with touch-screen display

Photo Eye System

- Up to 6 photo eyes per system

Compatible Gun Controllers

- CG02, CG06, CG08, CG20

Compatible Axis Controllers

- CR04 through CR09 (Z-axis motion only)

Application Criteria

- Operations outgrowing simple timer-based gun triggering
- Applications requiring all automatic guns on/off or zone triggering
- Shops needing recipe management without CAN bus complexity
- Up to 12 automatic guns, or up to 10 guns with 2 Z-axis reciprocators

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