

"Upgrading with ITW Gema made us more efficient!"



THE COMPANY

Hadrian Manufacturing Inc. is a manufacturer of high quality bathroom partitions and lockers in a variety of designer colors and special effect finishes.

THE CHALLENGE

Because Hadrian strives to offer high-quality, durable products that can withstand the test of time, they are constantly seeking ways to achieve those goals, while at the same time maintaining optimum efficiency. That's why, when Hadrian wanted to lower their powder consumption and speed up their color change time, they turned to ITW Gema to upgrade their equipment.

THE SOLUTION

Hadrian upgraded to ITW Gema's OptiSystem™, installing OptiGuns™ and OptiTronic™ Control Units. To maximize their efficiency, a five-zone vertical light curtain part recognition system was integrated with Hadrian's existing PLC to give them accurate automatic gun triggering and repeatable results.

THE SAVINGS

The OptiSystem's precision control and accuracy has enabled Hadrian to save money. Faster color change time and less time lost due to maintenance has greatly improved their efficiency. The uniform air volume control and high first-pass transfer efficiency of the OptiSystem has created **powder savings of 15%**, while improving the quality and consistency of their finished products. With results like these, Hadrian expects a **payback on their investment in only 12 months!**

ITW Gema

Superior By All Measures



"We understand we have the best available equipment in the industry; therefore, we know we produce the best quality finish at the utmost efficiency."

Spencer McIvor, Hadrian Manufacturing Inc.



READY TO UPGRADE?
**FOLLOW
THE LEADERS**

Leaders Like Hadrian

Call 800-628-0601 and ask for Deborah or visit www.itwgema.com/upgrade for a free assessment of your powder coating operation.

Hadrian Manufacturing Inc. Operates at Peak Efficiency With OptiSystem™

"The reduction of maintenance costs and powder consumption have made us significantly more efficient financially."

The OptiSystem from ITW Gema helps Hadrian Manufacturing Inc. optimize their efficiency by giving them accurate film thickness control and higher first pass transfer efficiency.

A case study from Hadrian Manufacturing Inc.

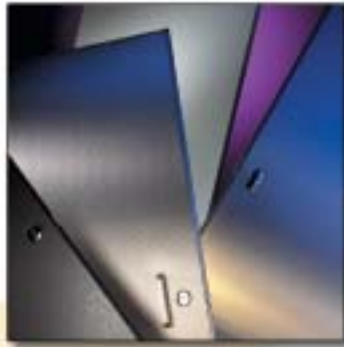
Hadrian continues to meet the competition head-on by offering high-quality, well-designed products. Upgrading to the OptiSystem from ITW Gema keeps them competitive by using the latest in powder coating technology.

Company Background

Tom Warren and Keith McAlpine purchased the Toilet Partition Division of Westeel Corporation in 1983 and named it Hadrian Manufacturing Inc. The inspiration for the company name was the famous Roman Emperor

Hadrian, who is most noted for building "Hadrian's Wall," a 73 mile architectural marvel that can still be visited today.

In 2001, following the retirement of Tom and Keith, a new ownership group was formed and Hadrian entered its next phase of development. With its dedication to offering exciting, well-designed products, Hadrian strives to produce high quality bathroom partitions and lockers that will withstand the test of time.



Existing Equipment and Challenges

Hadrian has been a long-time customer of ITW Gema. When they began considering an upgrade to new equipment, they once again chose ITW Gema.

The main reason for Hadrian's upgrade was the need to improve mil thickness uniformity, but other issues included:

- Powder savings
- Increased product density
- Faster color change time
- Repeatable results

Equipment Installed

ITW Gema upgraded the existing system with a new OptiSystem. The upgrade included ten OptiTronic™ Control Units and ten OptiGun AX™ automatic powder guns, which were installed in the existing Vortech 8,000 cfm powder booth.

The OptiTronic Control Units give Hadrian the advantage of having uniform air volume control and industry-leading first-pass transfer efficiency, which saves them money on powder and results in a more consistent finish. With the ability to store and recall up to 255 coating programs, Hadrian now has the power to quickly recall all settings for any application.

Hadrian wanted to have optimum control of the new system, so the guns and controls were integrated with their existing PLC. This feature enables Hadrian to have accurate automatic gun triggering, up-to-the minute data and complete command of the system at all times. Any potential problems can be identified and dealt with quickly, before costly downtime occurs.



Completing their upgrade was a five-zone vertical light curtain. This element provides better resolution, optimizing part-hanging configurations that photo eye detection would not correctly recognize. The light curtain reads the part profile and automatically selects the proper gun triggering "recipe" for the application, enabling accurate, repeatable results.

Savings

It did not take long for the OptiSystem to begin producing results for Hadrian. There has been noticeable improvement in the efficiency of their process, with savings being realized in the following areas:

- 15% savings in powder consumption
- 10% reduction in color change time
- Improved quality of finished product

Future Outlook

The results achieved by Hadrian have enabled them to remain highly competitive in their industry. Knowing that they can depend on ITW Gema's knowledgeable and highly responsive network of service and support, Hadrian anticipates that their system will continue to produce the durable, high-quality products that are their trademark.

