

**SMART**<sup>TM</sup>**SERIES**  
COATING BOOTH

**The World Leader in  
Powder Coating Systems**



***SMART<sup>TM</sup> Series Coating Booth***

The intelligent design of our SMART<sup>TM</sup> Series coating booth simplifies the unit for installation and production. No other side-draft cartridge collection booth is as easy to operate, while giving you exceptional performance with each and every application.

**TW** **Gema**<sup>®</sup>

# Superior By All Measures

## 1 Simple to Install

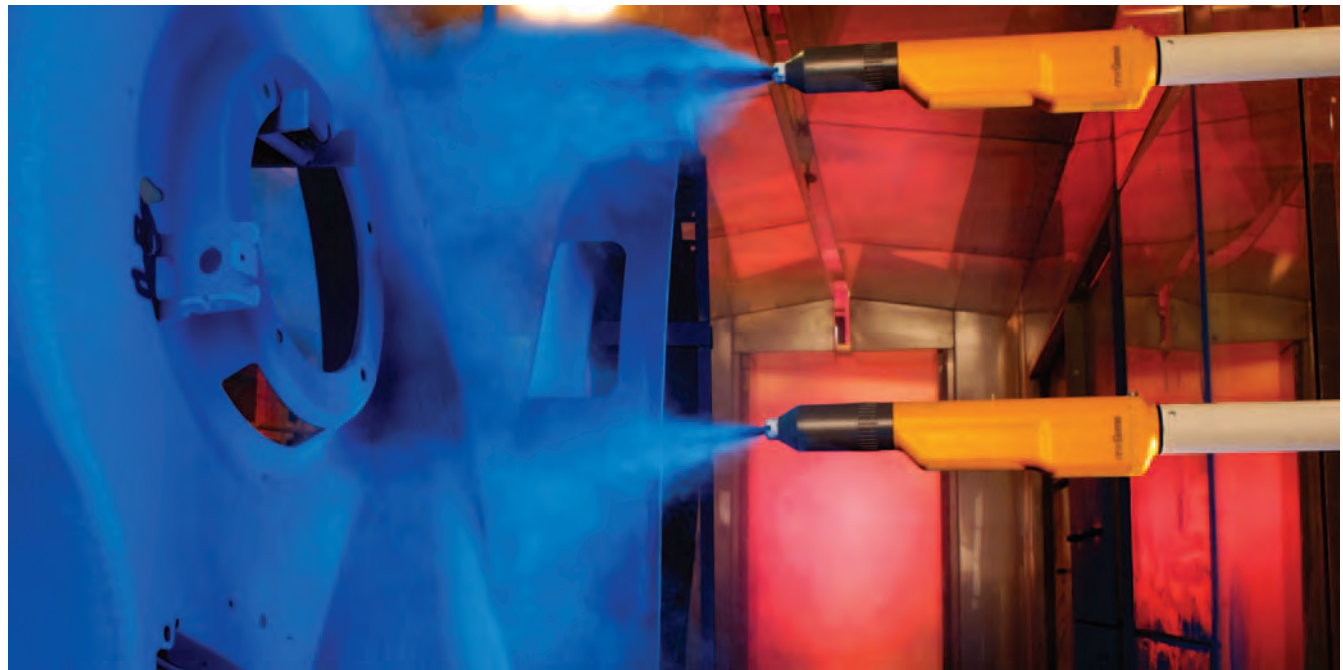
- Bolted construction makes the booth structure **easy to arrange and assemble**.
- All power and interlock connections are made to one location for **fast, simple installation**.
- Optional preassembled booth structure can **save installation time**.

## 2 Easy to Use

- **Polycarbonate** is an extremely durable plastic material that resists abrasion and scratching. The hard, slick surface of the SMART™ Series booth stays smooth, clear, and **easy to clean**.
- The proven horizontally mounted filters ensures easy access and **reduced maintenance time** over other designs with vertical mounted filters.
- **Side-draft cartridge** modules are interchangeable for simple and easy color changes.
- The mobile cartridge collector assembly features an **automatic locking** device to ensure a tight fit. Minimal effort is required by the operator to change collectors.
- When a **fast color change** is needed, two or more SMART Series booths can be installed in a roll on/off configuration.
- Collector opening is at floor level for **easy removal of powder** from the booth floor and for transfer back to the reclaim assembly.

## 3 Efficient Design

- Location of automatic gun slots, manual openings, the collector module, and the aerodynamic design of the vestibules all contribute to **maximize first pass powder transfer efficiency**.
- Clear polycarbonate panels provide the **best possible lighting** for product application.
- **Complete visibility** of spray operation is available at all times, allowing visual monitoring of both manual and automatic gun performance.
- Filter performance is monitored to maintain **peak operating efficiency**.



- Cabin structures are arranged to meet specific application needs with our unique combination of **clear and stainless-steel structure**, or an optional all **stainless configuration**.
- **Compact floor space design** of collection equipment saves on plant floor space.
- All SMART Series booth bases are **designed to integrate** into most standard systems without conveyor elevation changes.
- Each cabin structure incorporates air flow vestibules in each automatic gun slot, channeling the airflow around the gun and ensuring **containment of oversprayed powder**.
- Side-draft collection provides **uniform airflow** while allowing the operator to visually inspect the level of powder in the bottom of the collector.
- Unique to ITW Gema, a **direct drive fan** provides uniform air volume performance over the full life of the cartridges.
- Highly efficient fan system helps **booth rank as quietest** on the market.
- Low pressure, high volume back-pulse **reduces noise** and improves cartridge life.

## 4 Outstanding Performance

- Cartridge filter design maximizes both life and powder recovery performance of the filters, providing **maximum filtration** at the lowest possible pressure drop.
- **Uniform disbursement of recovery air** recycled through highly efficient safety filters.
- Polycarbonate material reduces the amount of powder build-up on booth walls, allowing more powder to be attracted to the part, thus minimizing clean up.
- Aerodynamic side-draft design creates a **superior application zone** for repeatable performance.
- Open-face collector promotes uniform air flow at lower velocity contributing to more consistent application performance.
- Efficient design provides **greater than 95% material utilization**.



All units are covered by  
ITW Gema's unique  
5-year warranty.

## SMART™ Series Coating Booth System Operation

Charged powder transfers from the manual or automatic gun to the part.

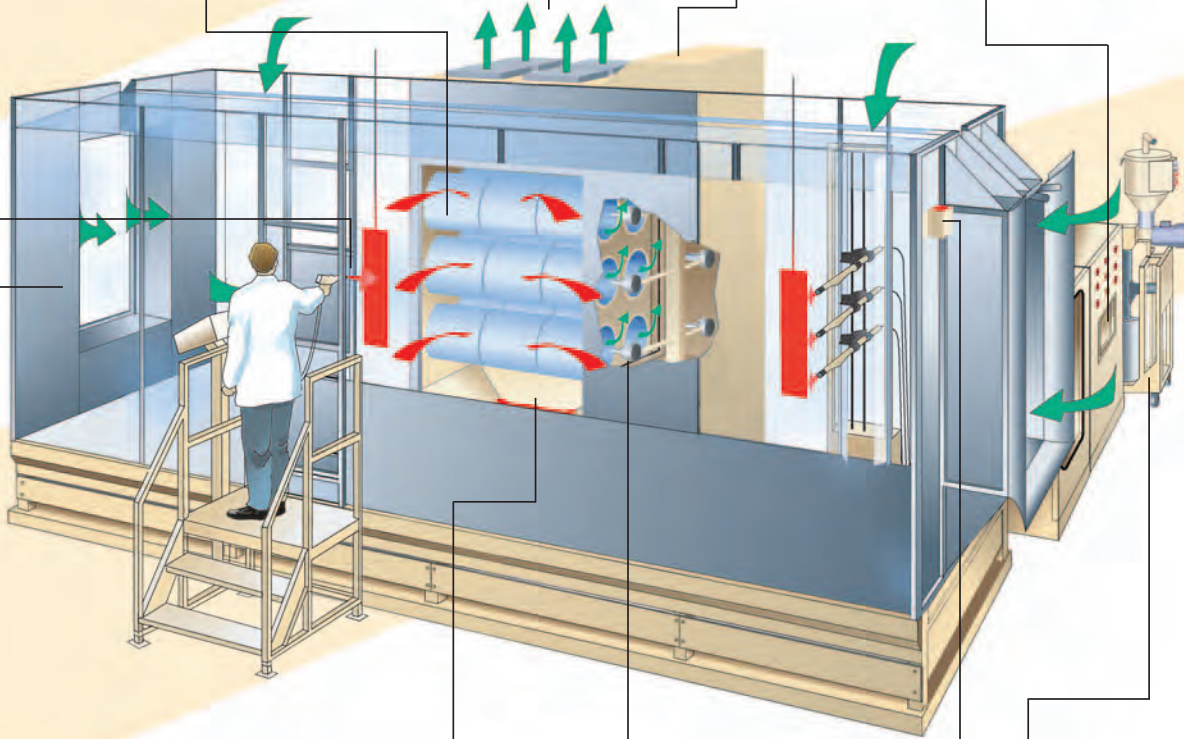
Containment air is pulled through the cartridge filters, separating the oversprayed powder from the air flow.

The clean air passes through a final filter before being returned to the workplace, eliminating the need for air makeup.

The exhaust fan pulls air into the booth enclosure to contain the powder.

Optional MagicControl® automation can be added to improve application performance.

Optional sieving devices can be used to screen fresh and recycled powder before being sprayed.



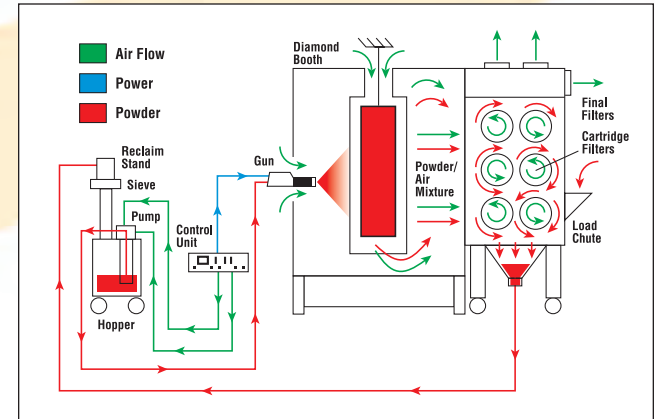
Powder utilization through the system may be greater than 95% with an excellent distribution of powder particle size throughout the cycle.

The powder drops to the base of the collector module where it is fluidized and transferred back to the feed hopper for reuse.

Powder on the surface of the filters is knocked free by a preprogrammed, sequential back-pulse of compressed air

To meet the National Fire Protection Association (NFPA) Guidelines for Safety, the SMART™ Series booth comes equipped with a flame detection unit for automatic gun applications.

The feed hopper delivers both new and reclaimed powder to the guns.



The SMART™ Series coating booth is compatible with both ITW Gema's automatic and manual guns.

### What To Look For In Your Next Powder Coating System

- Optimal system design to ensure powder containment while meeting industry safety standards
- Simple and flexible design
- Maximum recovery efficiency
- Multiple color capabilities
- Easy cleaning
- All filter media accessible and easily replaced
- Minimal maintenance required
- Optimum use of plant floor space
- Low operational costs
- Operationally quiet
- Easy to install in a minimal period

## Why Should I Buy A SMART™ Series Coating Booth?

- For recovery applications with up to 4 colors
- For high efficiency reclaim
- For color-change frequency ranging from a few times daily to monthly
- For spray-to-waste applications with unlimited colors

## Service and Support

In addition to our unique 5-year warranty, our products are supported by a dedicated service team. ServiceNet<sup>SM</sup> is our 24-hour, nationwide network of engineers and factory-trained distributors ready to provide you with a high level of local support. ServiceNet offers:

- Factory-direct, field-service staff for emergency situations
- Repair center in Indianapolis, Indiana
- System installation and start-up assistance
- Application and powder testing
- R&D lab for specialized application testing
- Operator training in Indianapolis, Indiana or on-site
- On-going training programs conducted by the Regional Technical Engineer
- Maintenance and support programs to meet specific customer requirements

*The SMART™ Series coating booth is versatile, easy to use, efficient, and simple to install.*



*Horizontally mounted filters are easily accessed.*



*Proprietary filter design requires no seasoning.*



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