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# The Powder Coating Specialist for Over 25 Years

## Solutions for A Complete Surface Finishing Turnkey System



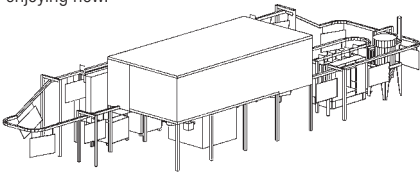
# Customer's Needs and The Environment

Over the years our goal has been meeting customer's needs with the main priority of providing an environmentally friendly system that will benefit the future generations with our vast experiences in:

- Designing
- Installation
- Engineering
- Project Management
- Fabrication

At "AIROCOAT" our objective is to provide the best possibilities solution to meet our customers' requirement through our experience in globally accepted finishing system starting from surface preparation, powder coating, painting, refinishing, material handling and many more. These activities are supported by our international partners ITWGema Ag, Dunphy Combustion Ltd., Jervis B. Webb Company, Uni-Spray Systems Inc., just to name a few.

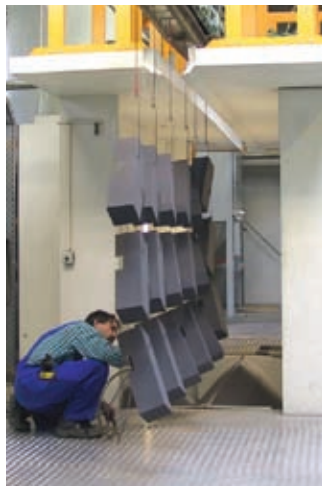
In our striving for excellence, in conjunction we are always striving only to provide the most efficient yet economical solutions to our customers but at the same time 'to protect our fragile environment for the ultimate goal, that is our future generations would be able to enjoy a colourful yet natural surrounding we are enjoying now.



## The Solution for The Environment

The future of product finishing is powder coating for its recyclable form, environmental friendly and superior adhesion properties. Airocoat provides solutions for complete powder coating systems that are economical, running cost effective and advance, be it for job coaters or OEMs.

Experience and technology transfer from Germany, **Switzerland** and **USA** has enabled the most excellent combination into a single Powder Coating Line that consist of material handling, pre-treatment plant, drying and baking ovens, powder recovery booth, and electrostatic powder spray equipment.





# Traditional Method with Today's Technology

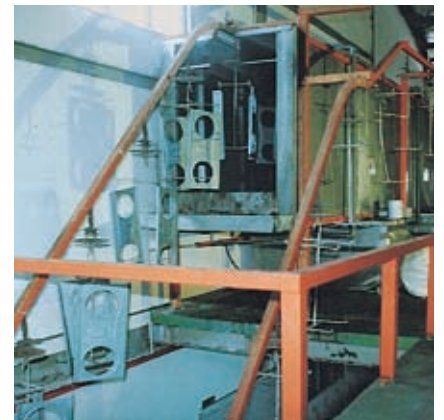
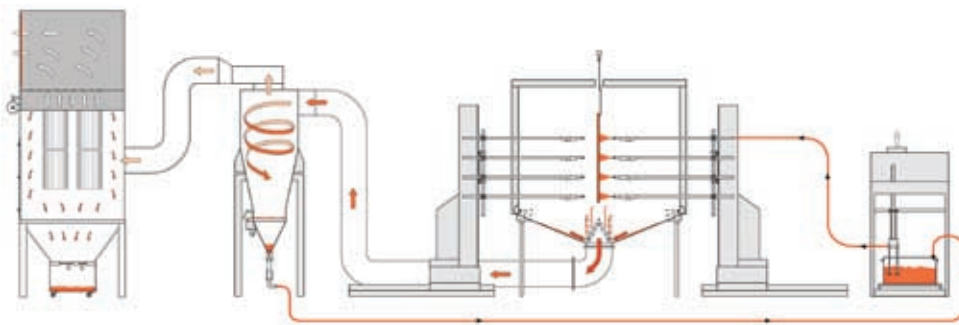
Airocoat has solutions for industries that are using the conventional coating method especially the plastic and wood industries. Experience in car plant has brought forward the best method for liquid finishing to the market where cleanliness is the critical criteria for a liquid coating plant.

Close relationships with the market top players have enable the topmost technology be made available to the clients of various needs or requirements.



## Cost Effective and Environmentally Friendly

Custom designs are possible to suit the layout of client's factory layout and for saving expensive space. Airocoat can design Complete system ranging from the most economical systems for low start up cost, to the most advance system that incorporates full automation.





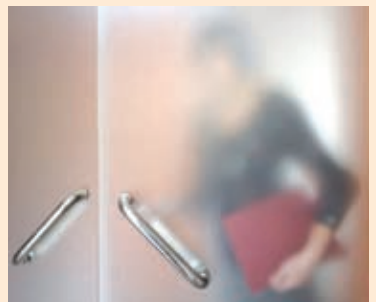
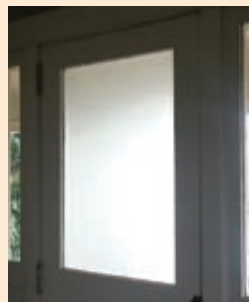
# Safety and Low Running Cost

## Drying and Curing Ovens

Airocoat offers various drying and curing oven configurations with the lowest fuel consumption. This is achieved with the optimum airflow design such as gravity air seal design with elevated ovens, forced air seal with the floor ovens, special sandwich panel design, high density insulation and much more.



## Automatic Spray System for Glass Spray Finish



## Systems for automatic powder coating



1. A completely different kind of sandwich

2. Here's where you control the coating

3. All the powder you want, where and when you want it

4. The heart of the powder coating

5. For a good atmosphere

6. Coating in every direction



### OptiCenter fast, clean and superb coating results!

Powder management systems The new generation of powder management systems has a name: OptiCenter. With this system's quick and dustfree operation, it produces excellent coating results. OptiCenter is a new modular concept that is suitable for both standalone operation and for integration with gun, axis and booth controls.

### Excellent coating results and minimized powder consumption



#### Efficient powder management

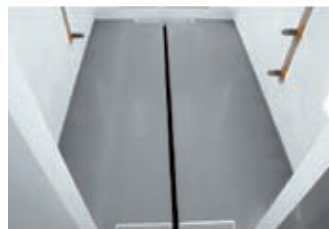
The core of this new powder center is the OptiSpeeder II. This unique container concept prevents any loss of powder whatsoever through fluidization. Control of the entire powder circuit is done fully automatically and very precisely. The result is extremely low powder consumption and excellent coating results.



#### Improved coating quality

The OptiSpeeder II is equipped with an automatic fresh powder supply and a powder-level control system that ensures a constant amount of powder in the container. The suction pipes for the injectors are considerably shorter than in conventional powder centers. These features translate into an even more uniform powder flow and improved coating results.

## The perfect air distribution



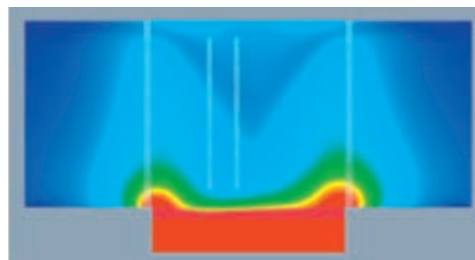
### Perfect coating conditions and quick color changes

Extremely uniform airflow creates the ideal conditions for perfect control of the powder application process and produces excellent coating results. The use of non-conductive plastic materials in the booth and its self-cleaning floor prevent powder accumulations. One operator can clean the booth in a very short time, even without entering it.



### EquiFlow technology for intelligent air distribution

Air extraction is concentrated where it is needed most, at the booth's entry and exit. This prevents powder from escaping into the environment, and creating an ideal flow of air at the pre- and posttouchup stations. Resulting in a perfect balance between the powerful air extraction in the manual coating area and gentle airflow in the automatic section.



#### EquiFlow technology

ensures a homogenous flow of air in the automatic coating zone and optimal air extraction at the pre- and post-touch up stations.

### A modern powder coating system needs to achieve many contrasting goals:

- create an optimal environment for the electrostatic powder-application process
- avoid powder accumulations and allow quick color changes with no contamination
- provide powerful air extraction to prevent powder from escaping and maintain save powder concentration

Thanks to the patented EquiFlow technology, the new MagicCompact easily meets all of these goals. The combination of the new booth design with the best gun technology and the flexible and versatile OptiCenter will exceed the most demanding expectations in terms of coating quality and quick color changes.



#### A variety of configurations

The OptiCenter is configurative according your demands.

The option lists includes amongst others:

- Ultrasonic sieve insert US05
- Powder supply out of the box alternatively to cone solution



# OptiFlex Automatic

High transfer efficiency, reproducible results and the control of all gun parameters at one glance!  
The OptiFlex automatic system leaves nothing to chance and guarantees high-quality powder coating!



## The versatile, comfortable modular solution

User-friendly design and capacity for integration. The OptiFlex A2 meets these requirements all the way down the line. Thanks to its modular system, the unit can be perfectly tailored to the customer's needs.

- Modular system for up to 14 control units per cabinet
- Large and clearly readable display panels to read operating conditions
- OptiStar gun control unit with storage capacity of 250 programs each
- OptiMove control units for the reciprocators
- OptiAir control units, for hose rinsing and hopper fluidization
- Interlocking and data exchange with higher-level plant control unit
- PLC communication via the optional CAN-Bus or DigiBus



## Save powder

The integrated 100 kV cascade delivers the highest transfer efficiency. This means more powder on the work piece, less powder in the recovery system! The patented DVC technology ensures a precise and constant powder delivery. This results in a more uniform distribution and lay down of powder.



## Quality always at its best

The clear display makes it easy to find the optimal settings in every condition. 3 pre-set programs give you the best performance on flat parts, profiles and re-coating. Advanced users can create other programs customized to their own needs. The result? Perfect coating quality, reproducible time after time!

## MagicControl CM-10

- Fully programmable, PC-based module
- 5,7" color touch-screen monitor
- Controls guns, axis and object recognition system
- Interlocking and data exchange with higher level plant control units
- Ideal solution to upgrade existing line with advanced functionalities



## OpticControl CM-10

- Fully programmable, PC-based master control
- Large 12" TFT color touch-screen monitor
- Full control of all the system components as booth, guns, reciprocators, powder supply, object recognition system.
- Interlocking and data exchange with higher-level plant control units
- Storage of operating software and application programs on Compact Flash cards
- Integration into control cabinet or on swivel arm



**Gema**

## OptiFlexl A1



## The basic solution for simple automatic systems

The OptiFlex A1 includes all basic functions which are necessary for high-quality coating. The compact system can be integrated into any existing powder coating plant.

- Modular system for up to 12 control units per cabinet
- Large and clearly readable display panels
- OptiStar gun control
- OptiMove reciprocator control
- OptiAir hopper fluidization control

## Reciprocator ZA



## Solid and maintenance-friendly

Quiet running, individual programming options and stability, together with heavy loading capabilities are the indispensable tools required for uniform powder coating. The ZA reciprocators perfectly meet these requirements and feature a solid and maintenance-friendly design. A broad array of translating and rotating axes complete the range.

- Long and short-stroke operation
- Quiet running belt transmission
- Maintenance-free AC motor
- Space-saving column design



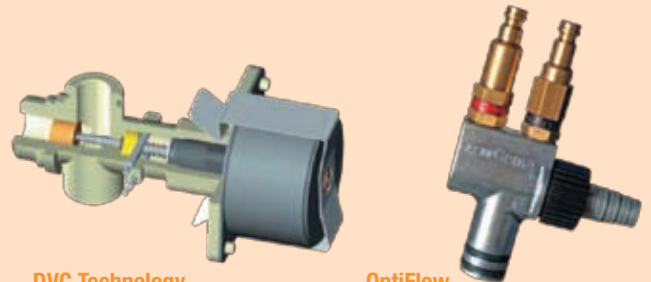
## SuperCorona®

The optional SuperCorona collects and neutralizes the free ions that would disturb the powder deposition on the object. This improves the surface quality.



## The OptiMove axis control unit is user-friendly and allows free programming.

- Teach-in function
- Up to 255 programs
- Segment operation and pendulum stroke
- Displayed cycle times
- PLC communication via CAN-Bus/DigiBus



## DVC Technology

Digital Valve Control (DVC) is the highly precise airflow control technology integrated in the OptiStar control module.

## OptiFlow

Uniform powder transport, stable powder delivery, easy-to-clean internal design and low maintenance costs are the main benefits of the OptiFlow powder injector.

# Gema OptiFlex®2

The world's most advanced manual powder coating technology



any place  
any powder  
any part



## any place

No matter where you are, you'll be coating perfectly with the new Optiflex 2. Whether operating in heat or cold, in dry or humid conditions, OptiFlex 2 delivers outstanding functionality and performance required for any coating environment.

- The robust design of the OptiFlex 2 gun provides greater reliability and operational performance in environments of heat and humidity.
- Industrial strength one piece gun body design, die-cast zinc pump, and steel construction cart provides unparalleled toughness and durability that stand up to any coating environment.
- Regardless of location, the product quality and performance of OptiFlex 2 offers coating process stability and higher productivity.
- The mobile cart coupled with the industry's first 360° rotating control unit offers flexibility for adjustment in any work location.

## any powder

Today, you're faced with the challenge of spraying a multitude of colors and chemistries. OptiFlex 2 gives you the power and control needed to achieve the best looking finish with any powder.

- The high performance integrated cascade power supply, with 100,000 volts of first pass power, efficiently charges all types of powders.
- For challenging powders such as metallic or special effect, OptiFlex 2 offers Precision Charge Control (PCC) ensuring greater accuracy and adjustability of current settings below ten microamperes (10 iA).
- PowerClean™ is a new development which cleans the entire powder path from the pump to the gun tip. Using powerful blasts of air (30Nm3/h), OptiFlex 2 improves performance when spraying challenging powders and mak
- New, ultra-efficient powder pump design employs the most effective angle to consistently deliver powder, resulting in optimized air consumption and less powder waste.



## any part

Complex part geometries won't slow you down. Optiflex 2 simplifies the coating of difficult shapes by applying the powder precisely where needed.

- Unprecedented precision control of current and voltage ensuring maximum efficiency and uniformity of coating.
- New generation of spray nozzles provide excellent powder distribution and penetration needed to coat difficult geometries.
- Light-weight, ergonomically designed gun provides better in-hand balance and feel allowing you to comfortably position the gun for better coverage and faster coating.
- On-gun remote control gives you the flexibility to adjust parameters without turning away from your work, and easily activate the PowerClean mode.



OptiFlex®2 B



OptiFlex®2 F



OptiFlex®2 S



OptiFlex®2 W



OptiFlex®2 L

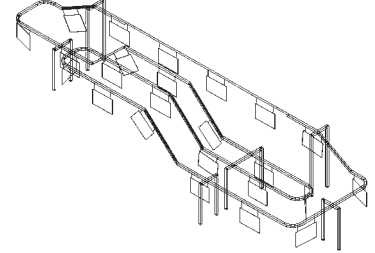


OptiFlex®2 C



# To Fufill Various Requirements

## Overhead Conveyors



## Heavy Duty Overhead Conveyors



## Various Belt Top Conveyors



Throughout the years our scope of supplies have included all the industries listed below:

Industry	Scope of Business
External architecture	Garage doors, doors, windows
Internal architecture	doors, handles
Fittings	Metal Fittings, Alu Fittings
Automobiles	Passenger cars, Trucks, Busses
Automotive Parts	Rims, Wheels, Wipers, Filters
Office furniture and parts	Desks, Chairs, Copiers
Fencing	Fences, Wire Wares, Baskets
Iron industry	Castings, Valves, Iron Boxes
Electric- and Electronics Industry	Computer, Switch Boards, Switches, Control Panels, Telephones
Garden furniture, Garden equipment	Lawn-mover, Garden Furniture, Leisure Furniture, Sunshades
Gas bottles, Fire extinguisher, Drums	Gas Cylinder, Gas Containers, Gas Counters, Fire Extinguisher
Shelves	Shelves for Stock, Shop Fittings, Rackets
Glass	Bottles, Ceramic, Laminates
Distributors	Local Distributors
Household Appliance	Refrigerators, Washing Machines, Micro Waves, Pans, Fans
Heating, Ventilation, Air Conditioning	Radiators, Ventilation Systems, Air Conditioning,
Hobby	Toys
Wood Furniture	MDF Coating
Internal Coating	
Farming	Mowing Machines, Tractors, Earth Moving Parts, Silos
Food	
Job Coater	Job Coating
Machine Construction	Machinery
Metal Construction	Panels, Tool boxes, Wagons, Metal Products
Metal Furniture	Shoe Boards, Office Steet Furniture, Metal Beds
Profiles	Aluminium Profiles
Tubes	
Sanitary Installation	Bathroom Equipment, Shower Box, Bath Tub
Entertainment electronics	Hi-Fi Equipment, Radio, TV, Satellite Receivers, Parable Antennas
Tools	Saws, Bolts, Tool Kits, Hand Tools
Enamel internal	Boiler, Kitchen Wares
Enamel exterior	Kitchen stoves, Stoves, Panels
Lightings	Lightings, Illumination Equipment, Lamps



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