

The Powder Coating Specialist

Efficiency and Reliability in Powder Coating Technology

POWDER HANDLING



**Everything from
a single source**

- Consulting
- Design
- Development
- Production
- Service



MS POWDER COATING SYSTEMS

Since our formation in 1991, MS has steadily grown into a leading manufacturer of powder coating solutions. MS systems are now sold, installed and serviced through our global distribution network.

The process of designing, developing and producing an MS custom-built systems takes place at our modern headquarters in Balgach, Switzerland.

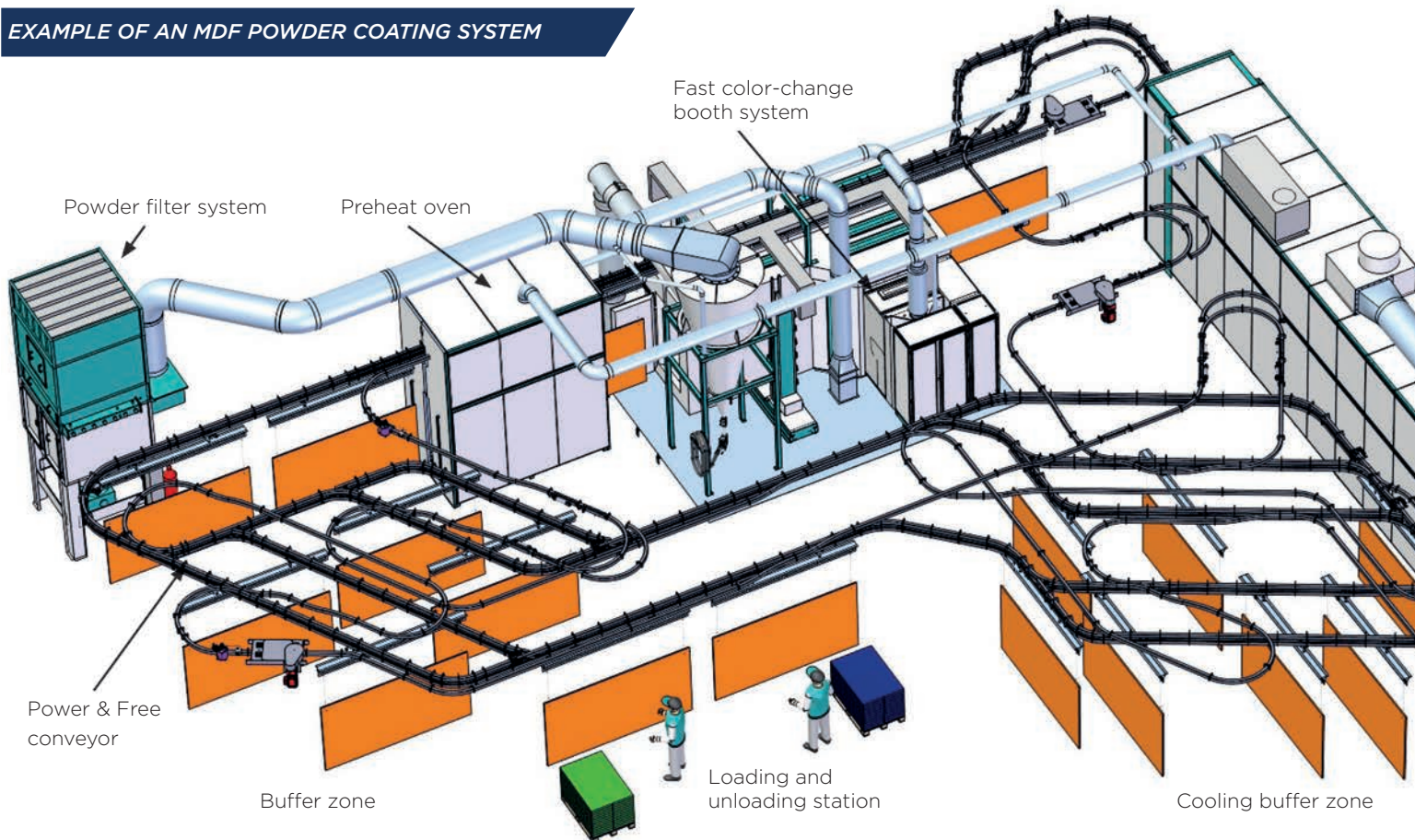
Using the latest 3D CAD tools, we design every detail of each system project, testing it for process, connectivity and spatial requirements right from the outset. We constantly search for new innovations and quality improvements which can be applied to our systems and over the years we have established a strong reputation for high quality solutions for a wide range of applications.

DEVELOPED FROM PRACTICAL EXPERIENCE

The demands being placed on powder coating systems are becoming ever more complex and the range of colors is growing all the time. Meeting these demands requires innovative plant technology.

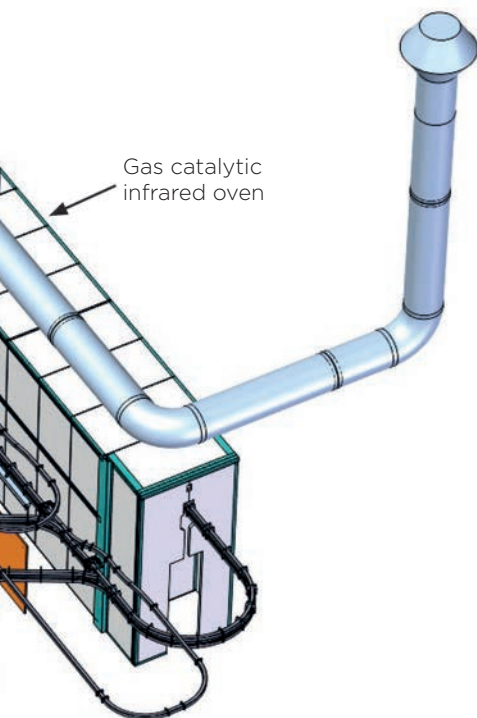
All MS systems components are developed in-house, which means that they can be adapted to meet our customers' needs. We set ourselves very high standards, which is why we design and build our systems in-house. In that way we can ensure functionality and accuracy of fit, as well as controlling the quality of materials and technical components used. We also consider the technical and economic feasibility of automation throughout the whole development process. We offer solutions both for small batches with fast color changes and for high volume mass production.

EXAMPLE OF AN MDF POWDER COATING SYSTEM



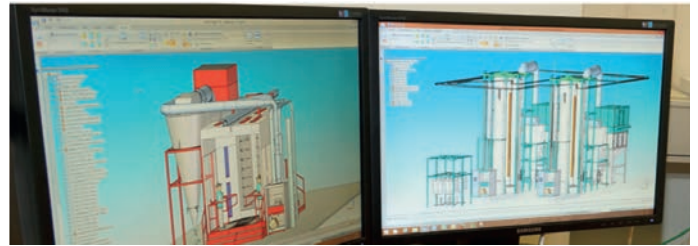
MS POWDER SYSTEMS MILESTONES

- 1991 M+S Oberflächentechnik established in Altstätten, Switzerland
- 1992 Tribo gun and control system developed
- 1993 MS Oberflächentechnik AG established
- 1994 First fast color change powder coating system installed
- 1995 Corona gun and control system developed
- 1996 New offices and production facilities constructed in Balgach
- 1997 PC control system for powder coating developed
- 1998 Robotic system with Z-axis developed
- 1999 Assembly facility built on Wegenstraße
- 2000 More than 100 MS powder coating systems in operation across Europe
- 2001 First powder coating robot brought into service
- 2002 RDF dense phase pump developed
- 2003 World's first MDF coating plant brought into service
- 2004 First robot-controlled system with 19 axes installed
- 2005 Qualispray, modular powder coating system introduced
- 2006 Patented electrostatic control system launched
- 2007 Open-door booth system introduced
- 2008 Refinements to second-generation MDF plant
- 2009 Ultrasonic sieving machines and fully automatic vertical belt powder systems introduced
- 2010 Introduction of fully automatic horizontal belt powder system
- 2011 First MS clean room fast color change system with belt conveyor
- 2012 Refinements made to FCO fast color change system
- 2013 V60 vertical system and Infrared oven introduced
- 2014 MS topline application introduced
First complete MDF coating system from a single supplier
- 2015 New MS technical center constructed
- 2016 MS joins Carlisle Fluid Technologies



ENGINEERING

we specialise in innovative design ...



... and development



PRODUCTION

we build tailor-made systems



SERVICE

we operate a global, flexible service



CONSULTANCY

Our team of experts will guide and support you through the whole project, from concept to installation.



TAILOR-MADE SYSTEMS

Increasingly, our customers are looking to establish long-term partnerships with suppliers who can offer high quality systems coupled with excellent on-going service. Individual, customized solutions are becoming increasingly important and MS takes pride in meeting these demands. From the very beginning, MS and its employees have focused on development through innovation. Working closely with customers, we develop and build tailor-made, fast color change powder coating systems, using state-of-the-art, cost-efficient technologies. Systems which can be installed in both vertical and horizontal coating versions. Powder coating MDF surfaces is considerably more challenging than other application processes, especially in regard to the gelling and curing of the coating. We can offer a complete solution for MDF systems, including specially adapted powder application equipment, feed systems and twin ovens.



EVERYTHING FROM A SINGLE SOURCE

Our proprietary system components are not only meticulously developed to perform but are also designed to seamlessly interface with one another. Our customized solutions, designed to give productivity gains at every stage, can be integrated, offering interconnected individual components through to full-scale automation.

Every MS powder coating system essentially consists of a booth system, a powder supply unit, control elements and the application systems.

Revolutionary in-house developments, such as our computer-controlled powder coating system, advanced MS powder spray guns or our innovative '5 minute' color change system, are setting new industry standards giving MS an international reputation as a high-quality specialist supplier. The latest developments from MS include the MS topcase touchscreen controller and the MS topcoat hand gun, which at just 388g is the lightest in its class and boasts intuitive controls and optimized ergonomics.

AVOIDING SYSTEM OUTAGES

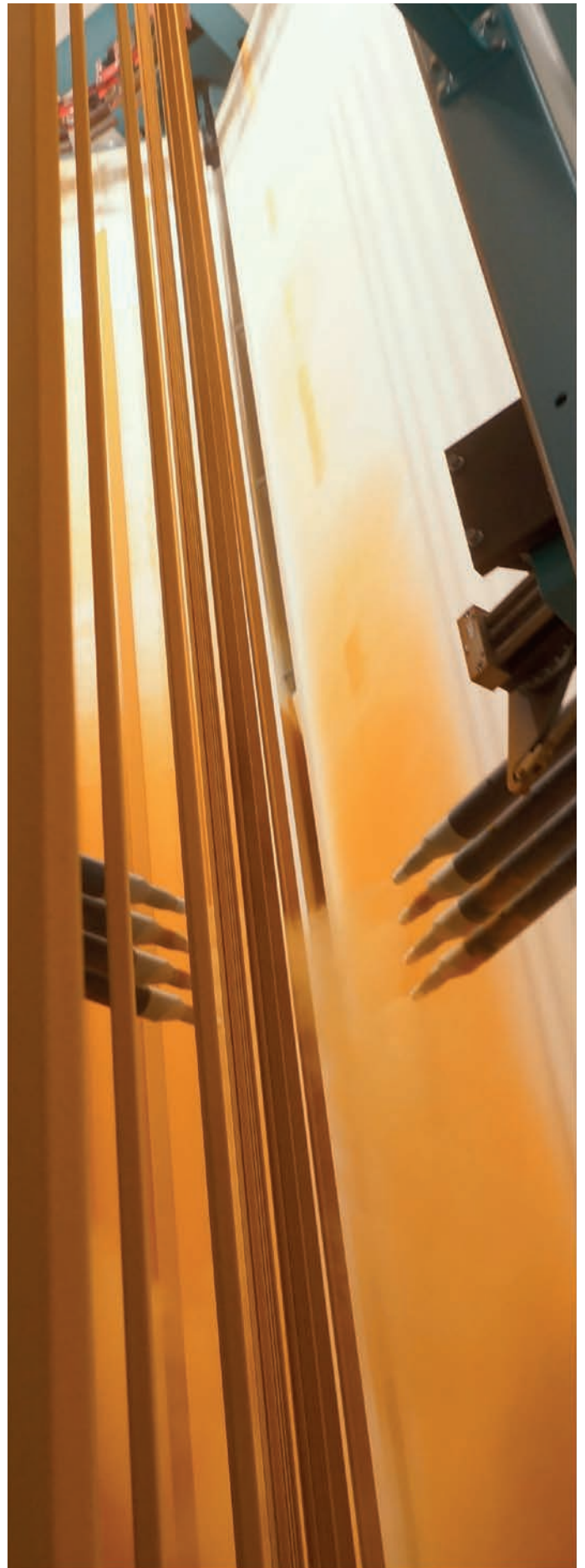
Having your MS powder coating system maintained and repaired by our expert service team minimises production downtime. We can offer tailored, long or short term service agreements to give you peace of mind.

As well as this we can offer operator training and annual servicing, which also helps to prevent possible production stoppages.



MOVING TOWARDS AUTOMATION

Throughput rates can only truly rise if all systems are harmonised and in perfect working order. We can offer you expert consultation and advice on whether full automation is the right option for you, or whether partial automation of individual production steps would be a better solution.



OUR VALUED CUSTOMERS

Over 400 companies have placed their trust in us.
They include:



MS TOPCOAT® SERIES 4



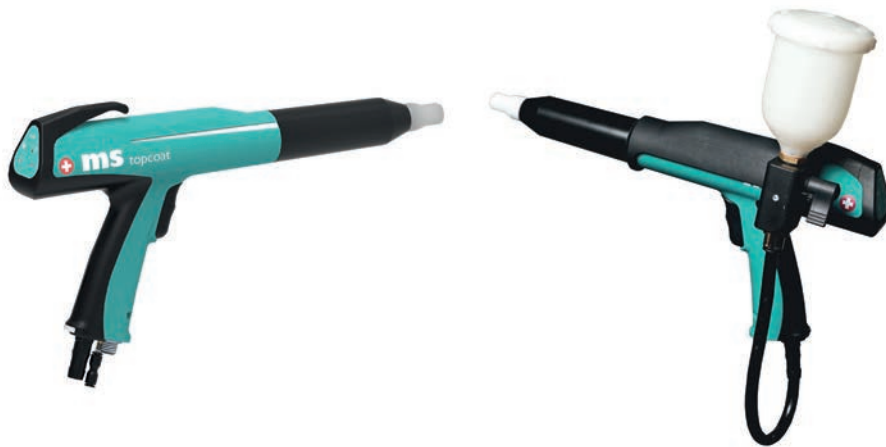
MS TOPCOAT® POWDER SPRAY GUNS

MS topcoat series 4 represents the forefront of powder application technology. Our newest range includes an advanced automatic powder gun and the lightest manual gun in its class. As well as being very easy to use, MS topcoat series 4 products offer outstanding powder charging and high transfer efficiency.

MS TOPCASE S4 CONTROLLER

The topcase S4 is a touch screen controller with simple controls and an intuitive display. Preloaded with standard programs ("Metallic", etc.) and with easily accessed memory locations for up to 999 additional programs, our S4 controller can be easily tailored to your needs. Precision setting of air flow, powder output, kV and μ A values, can be set via the easy-to-use touchscreen. It is also suitable for both corona and corona/tribo guns. The patented corona feedback system gives integrated diagnostic functions for cascade and control devices.

MS TOPCOAT® M4 AND MS TOPCOAT® M4 GRAVITY-CUP GUN



MS topcoater® Box

MS TOPCOAT® M4 MANUAL POWDER GUN

- Powder suction direct from the original container means that color changes are completed in a matter of minutes
- The world's lightest hand gun (388g) with the latest digital high-voltage technology and ergonomic design
- Patented corona feedback system
- Wide range of multifunctional nozzle systems for fine spray patterns and uniform coating thicknesses, even with metallic powder coatings
- Touchscreen with simple controls and intuitive display
- Powder feed with automatic metering
- 3 basic programs and memory storage for up to 999 custom programs
- Diagnostic functions for cascade and control device
- Gravity cup gun option also available
- ATEX compliant



MS topcoater® Fluid

MS TOPCOATER®

The new generation MS topcoater® mobile system has been designed for use in industrial coating and production facilities where maximum application flexibility from equipment is needed.

You can choose between the MS topcoater Box, MS topcoater® elite and MS topcoater® Fluid, depending on your requirements. All can support 1 or 2 manual guns. The MS topcoater® system is made up of a handy mobile trolley with an integrated vibrating table and/or fluidization system to help get the most from your powder coatings. It also includes the MS topcase® S4 controller and MS topcoat® M4 manual gun, as well as an efficient suction system with air and powder hose package. The built-in air filter unit prevents the ingress of contaminated feed air, whilst the MS topcoat® elite also features an integrated cleaning system.



MS topcoater® Elite

There are currently more than 400 MS powder-coating plants in operation around the world. Customers can benefit from an expanded, well-established distribution and service network.

MS is part of Carlisle Fluid Technologies, a global company which manufactures equipment for the supply, application and curing of sprayed materials including paints, coatings, powders, mastics and bonding materials.

We are best known for our world leading brands of Binks, DeVilbiss, MS, Ransburg and BGK. All of our brands are highly respected in their market sectors for quality in design and manufacture and the cutting edge technology inherent in their product ranges.

As a combined group Carlisle Fluid Technologies has over 375 years' of collective finishing industry experience.

