



**MS Powder Systems Milestones**

- 1991 Foundation of M+S-Oberflächentechnik in Altstätten
- 1992 Development of the Tribo Gun and Control System
- 1993 Foundation of MS Oberflächentechnik AG  
Development of the Sandwich Powder Cabin
- 1994 First Fast Color Change-Powder Coating Plant
- 1995 Development of the Corona Gun with Control System
- 1996 New Building of the Office and Factory in Balgach
- 1997 Development of PC Control System for powder coating
- 1998 Development of Robotic with Z-axis
- 1999 Building of the assembly hall at Wegenstrasse
- 2000 Over 100 MS powder coating plants all over Europe in use
- 2001 First powder-coating-robot in use
- 2002 Development of RDF
- 2003 First MDF coating plant in use world wide  
Founding of a sub company in USA
- 2004 First robotic plant with 19 axis
- 2005 Qualispray the first remote controllable und modular powder coating system

- 2006 Founding of the sub company in Italy in Lecco  
New patented electrostatic control system
- 2007 Development of Open Door cabin system
- 2008 Further development of MDF second generation
- 2009 Development of Ultrasonic Sieving System  
full automatic Vertical Belt-powder plant
- 2010 Full automatic Horizontal-powder plant  
with automatic color change in 3.5 minutes
- 2011 First MS clean room belt - Fast Color Change Plant
- 2012 Development Easypaint
- 2012 Further development FCO – Fast Color Change System
- 2013 New development of Vertical System V60
- 2014 New development of MS topcoat
- 2015 New building "MS technology center "
- 2016 Entry to Carlisle family



**ms**

**ms**

**MS is Developer and Manufacturer of customized Powder Coating Systems and Application**



**ms**®

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**Tailor-made systems**

More and more customers are looking for partners with high service competence to cooperate in the long term in the field of powder coating. Individual and customized concept solutions are gaining more significance. MS Oberflächentechnik AG meets these requirements. Since its founding in 1991, the company along with its staff has focused on the development of innovation. It develops and manufactures customized fast-color-change powder coating systems, based on state-of-the-art and economically feasible technologies, in partnership with its customers. These are designed for vertical and for horizontal coating, depending on the requirements. The powder coating of MDF surfaces is considerably more demanding, especially in terms of the gelation and curing of the powder in the furnace. We offer complete MDF systems, including feed and furnace - thanks to our integrated know-how.



**Engineering, Production, Service, Consulting**

We do conceptual design and we develop innovatively. We produce customized and durable. We are flexible and operate worldwide. We guarantee the expected consulting performance by our longtime team.



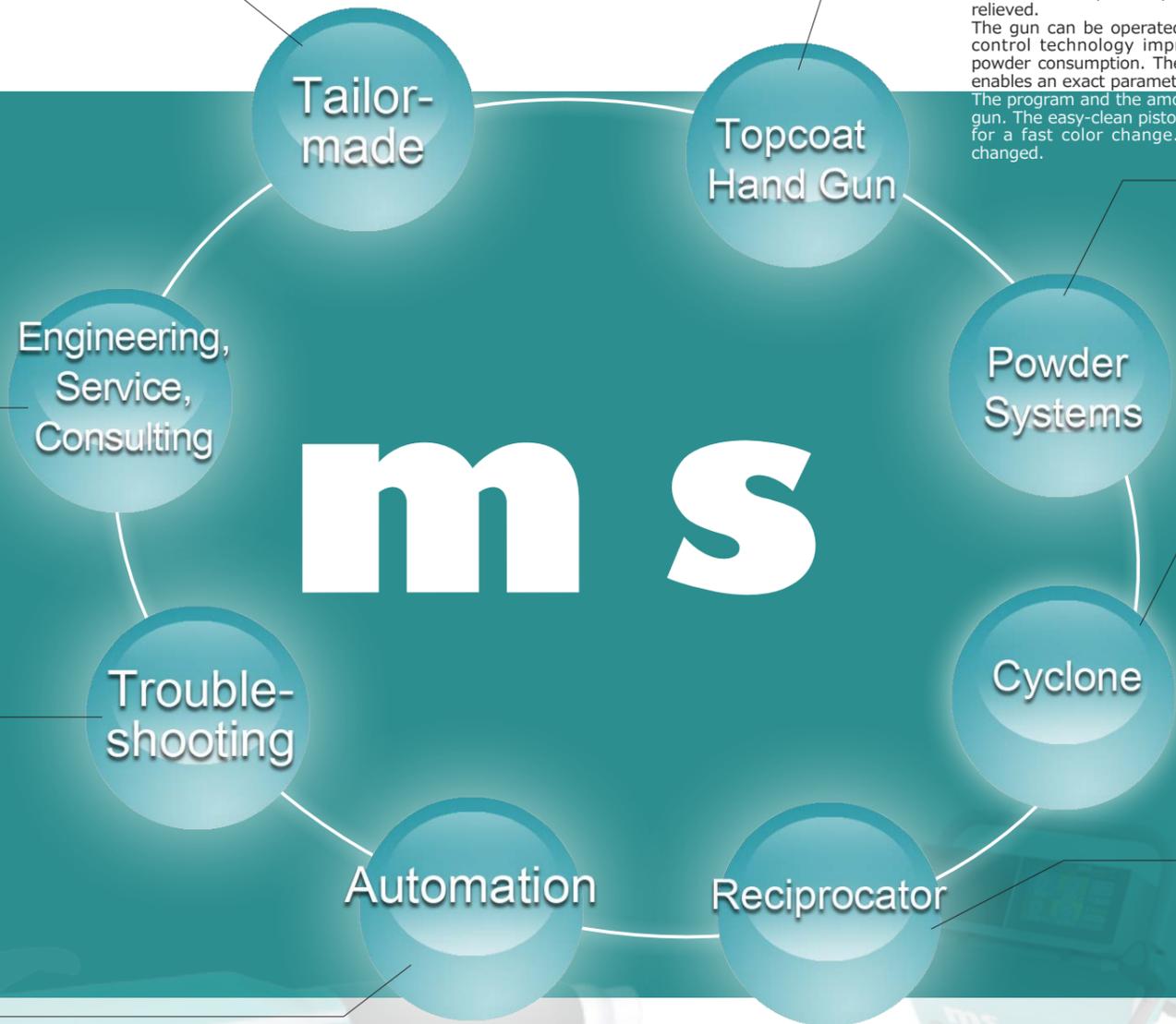
**Can anyone afford system outage?**

Machine failures mean not only unpleasant interruptions, but also consequential costs. We focus our services on these. Who knows a system better than the one who has developed it? Therefore, our operations team will be available on site or via remote servicing in order to rectify a fault, to replace a spare part or to carry out an adjustment in the system.



**The step to automation**

Only when all systems are perfectly tuned to one another and when they function properly, the transit rate can actually be increased. We shall explain to you in detailed consultation sessions as to whether a full automation makes sense or whether only individual working steps should be automated.



**Topcoat M4 Powder Gun**

The latest development of MS is the handgun MS topcoat, the lightest in her ownway, which is characterized – besides its easy handling – by an excellent powder charge and an extremely high transfer efficiency. To unburden the user ergonomic criteria are emphasized. Because of its perfect placed balance point the joints are more relieved. The gun can be operated by one or two fingers. Newest digital control technology improves penetration, surface finish and powder consumption. The newest digital high voltage technology enables an exact parameter control. The program and the amount of powder can be set directly on the gun. The easy-clean pistol design is a prerequisite for a fast color change. Naturally all the spare parts can be changed.



**MS Powder Systems**

The increasing colour and product diversity and smaller production batches at the same time requires more and more flexibility in the powder coating business. The MS powder coating conceptions are optimally customized. This leads to a much better cost-benefit ratio and pay-off.



**MS Cyclone Powder Recovery Units**

For powder recovery in quick color change installations, special Cyclones developed by MS are used. The powder/air mix that is sucked from the booth goes through a special suction line to the cyclone. Due to the tangential movement in the cyclone, the powder is separated from the extruded air and is forced spirally downwards by centrifugal force. The automated powder return system returns the recovered powder back to the powder kitchen. The powder return system is automatically cleaned using a cleaning program.



**MS Reciprocator**

These electronically controlled reciprocators with X-Y and Z axes have been developed for efficient production operation in automated powder or wet coating systems. This sophisticated system can be expanded thanks to its modular design - with a control module for a lifting machine all the way to complex axis control systems using PC controllers. Reliability and robustness, as with all MS systems, is our trademark.



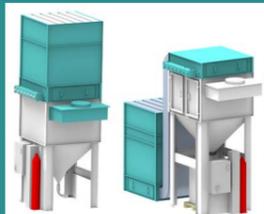
**Powder Kitchen**

Economical for automatic powder coating of crucial importance for economical powder coating with many color changes is a powder kitchen with automated powder supply from the original powder container with monitored fresh powder. The easy-clean powder pump transports the powder into the powder container. The integrated MS Ultrasonic screening system guarantees loose,



**Jet-Clean Absolute Filter**

MS Jetclean series of technology provides powder material separation from the in-coming air stream mixture. Horizontally mounted, small diameter filters with a high air to cloth ratio are constructed with the highest quality filter media, ensuring consistent air movement within the powder coating booth system throughout the long life span of the filter media. Back-pulsing is accomplished through an electronically controlled timer circuit, allowing the end user complete control over settings associated with purge cycles.



**MS Oberflächentechnik AG**

We have been developing over the past twenty-five years to become a leading manufacturer of powder coating systems. Our systems are sold, installed and maintained worldwide through our distribution network. The entire development, planning and production of our tailor-made equipment is customized to the needs of our customers and take place at our headquarters in Balgach, Switzerland. Your system is precisely designed using the latest 3D CAD systems, thus allowing advance assessment in terms of connectivity and spatial requirements. Being consistently on the lookout for high-quality and innovative applications, we were able to successfully gain ground among the powder coating system suppliers in various fields of application in recent years

**Developed out of practice**

The requirements for the powder coating technology are becoming increasingly complex, while the range of colors is getting wider. This requires innovative plant technology. All our system components are proprietary developments that are consistently adapted in tune with the demand of users. The standards we set for ourselves are high. Therefore, we design and produce in-house. This is how we ensure the functionality and accuracy of fit as well as have the materials used and technical parts under control. We also consider the technical and economic feasibility of automation. We offer solutions for both smaller quantities and fast color change, as well as for mass production.

