A complete range of solutions for single color needs

Magic Systems are easy to customize in booth dimensions, air volume, number and position of guns and touch-up stations.

- Efficient powder application
- Sieving and fresh powder feed
- Robust and reliable for every need

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Magic Systems powder circuit

- From the feed station (1) the powder is transported to the electrostatic guns (2) that charge it and apply it on the parts.
- The final filter (3) separates the overspray powder from the extraction air.
- A recovery pump (4) transports the powder to the sieving station (5) where powder is cleaned from contaminants and returns to the powder feed station (1).
- The system can be provided with various automatic fresh powder feed solutions (6).
Ideal solution for every customer’s needs

- EquiFlow technology can be used in different layouts to accommodate every customer’s needs
- **MagicCylinder EquiFlow**, the unique round-booth solution
- **MagicCompact EquiFlow**, the compact color change solution
- **MagicCompact XXL** for extra-large parts coating
- Optional pre/post manual coating in every solution
- **Great performance, robustness and easy maintenance in every solution**
Powder feed station

- A fluidized powder hopper is a very **robust and efficient** powder feed solution.

- Optional vibrating table improves powder fluidization.

- An **OptiCenter** offers additional advantages like:
  - **Cleaner** working environment
  - **Ideal powder preparation** for Venturi injectors and AP01 pumps
Final filter

- The **final filter** retains dust particles and returns clean air to the ambient.

- High **>99.99% recovery efficiency**

- Self cleaning filter elements and air pressure monitoring reduce filter maintenance

- Designed for **minimal compressed air consumption**

- Frequency converter technology available to reduce power consumption
OptiFeed PP06 Powder Pump

- The **OptiFeed** pump ensures gentle and constant transportation of large quantities of powder

- **High powder transport capacity**

- Stable powder transport with **minimum compressed air** consumption

- **Automatic cleaning** for a fast color change

- Long lifetime of wear parts and service interval monitoring functions ensure **low maintenance costs**
Sieving solutions

● Powder passes through a **screen** that retains the particles with a bigger diameter (contaminants).

● The choice of the right **mesh size** of the sieving screen is very important and usually requires some compromise:
  - A finer mesh grants a higher quality sieving
  - A coarser mesh allows a bigger powder throughput.

● Different sieve technologies are available to facilitate the screening process:
  - **Vibratory sieves** are the easier solution, robust and reliable.
  - **Ultrasonic sieves** use higher frequency vibrations and can consequently process higher powder quantity with a small mesh size.
  - **Rotary sieves** offer the advantage of the automatic discharge of the dust particles.
A wide variety of sieving solutions

<table>
<thead>
<tr>
<th></th>
<th>PS2 Vibratory Sieve</th>
<th>PS2-2 Double Vibratory Sieve</th>
<th>PS7 Vibratory Sieve</th>
<th>AZO Rotary Sieve</th>
<th>US03 Ultrasonic Sieve</th>
<th>US06 Ultrasonic Sieve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sieve technology</td>
<td>Electric vibratory sieve</td>
<td>Electric vibratory sieve</td>
<td>Electric vibratory sieve</td>
<td>Rotary sieve</td>
<td>Ultrasonic sieve</td>
<td>Ultrasonic sieve</td>
</tr>
<tr>
<td>Integration</td>
<td>Stand alone or Powder Center</td>
<td>Stand alone</td>
<td>OptiCenter OC04/5</td>
<td>Stand alone</td>
<td>Stand alone or Powder Center</td>
<td>OptiCenter OC02/3</td>
</tr>
<tr>
<td>Powder Type</td>
<td>Organic powder or porcelain enamel</td>
<td>Organic powder or porcelain enamel</td>
<td>Organic powder or porcelain enamel</td>
<td>Organic powder or porcelain enamel</td>
<td>Organic powder</td>
<td>Organic powder</td>
</tr>
<tr>
<td>Powder sieve capacity</td>
<td>*up to 3 kg/min</td>
<td>*up to 6 kg/min</td>
<td>*up to 3 kg/min</td>
<td>*up to 5 kg/min</td>
<td>*up to 4 kg/min</td>
<td>*up to 3.5 kg/min</td>
</tr>
<tr>
<td>Standard mesh size</td>
<td>300 µm</td>
<td>300 µm</td>
<td>350 µm</td>
<td>245 µm</td>
<td>200 µm</td>
<td>250 µm</td>
</tr>
<tr>
<td>Available mesh sizes</td>
<td>200 - 750 µm</td>
<td>200 - 750 µm</td>
<td>300 - 500 µm</td>
<td>160 - 500 µm</td>
<td>140 - 200 µm</td>
<td>140 - 300 µm</td>
</tr>
<tr>
<td>Ideal for</td>
<td>Flexibility, Easy integration</td>
<td>Flexibility, capacity Easy integration</td>
<td>Flexibility, Color change</td>
<td>High quality needs Automatic dirt discharge</td>
<td>High quality needs Easy integration</td>
<td>High quality needs Color change</td>
</tr>
</tbody>
</table>
Fresh Powder Feed solutions

- The powder hopper is provided with a level probe that monitors the presence of powder.
- When powder level decreases, the level probe activates the fresh powder equipment that feeds virgin powder to the hopper.
- When the powder level is restored, the level probe interrupts the feed of virgin powder.
Feed from a variety of containers

<table>
<thead>
<tr>
<th></th>
<th>OptiFeed Box</th>
<th>OptiFeed Drum</th>
<th>OptiFeed Octabin</th>
<th>OptiFeed Big Bag</th>
<th>OptiFeed Hopper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh powder feed from</td>
<td>Powder Box</td>
<td>Drums</td>
<td>Octabin</td>
<td>Big bags</td>
<td>Fluidized hopper</td>
</tr>
<tr>
<td>Fresh powder container capacity</td>
<td>20 - 25 kg</td>
<td>100 - 150 kg</td>
<td>500 - 600 kg</td>
<td>500 - 1000 kg</td>
<td>150 - 200 kg</td>
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<tr>
<td>Powder feed pump</td>
<td>1 OptiFlow Injector or 1 OptiFeed pump</td>
<td>1-2 OptiFlow Injector or 1-2 OptiFeed pump</td>
<td>1-2 OptiFeed pumps</td>
<td>1-2 OptiFeed pumps</td>
<td>1 x OptiFeed pump</td>
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<tr>
<td>Powder Type</td>
<td>Organic Powder or Porcelain Enamel</td>
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<td>Organic Powder or Porcelain Enamel</td>
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<tr>
<td>Powder feed capacity</td>
<td>up to 4 kg/min</td>
<td>up to 4 kg/min</td>
<td>up to 8 kg/min</td>
<td>up to 8 kg/min</td>
<td>up to 5 kg/min</td>
</tr>
<tr>
<td>Ideal for</td>
<td>Portability, flexibility</td>
<td>Flexibility</td>
<td>Single color lines</td>
<td>Single color lines</td>
<td>Difficult Powders</td>
</tr>
</tbody>
</table>
Multi color / single color combination

- A **switching device** is an attractive solution to combine the quick color change capabilities of a multi color recovery with the high recovery efficiency of a single color recovery.
  - **Easy and fast switching** between single and multicolor operation
  - **Contamination-free** operation
  - **Short ROI** and **space-saving layout**
    (compared to two dedicated systems)