Magic 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.

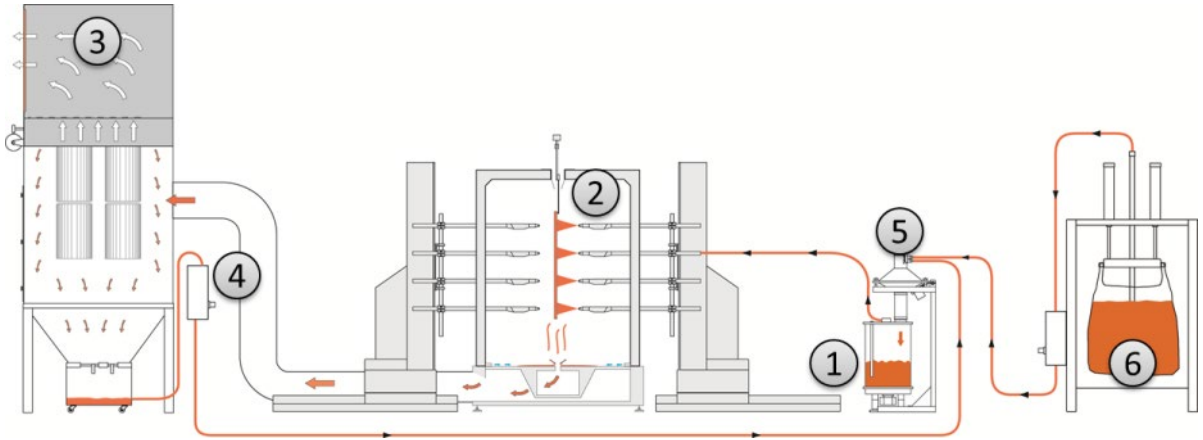
Efficient powder application

Sieving and fresh powder feed

Robust and reliable for every need

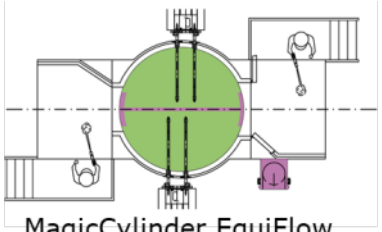
Magic Systems powder circuit

- 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)

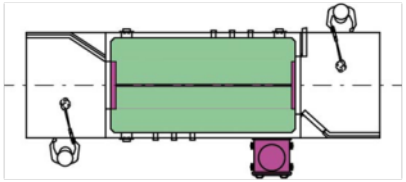


Ideal solution for every customer’s needs

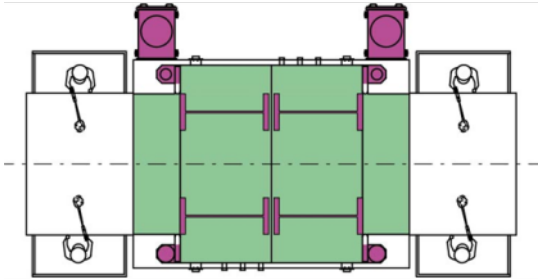
- EquiFlow technology can be used in different layouts to accommodate every customer’s needs
- **MagicCylinder** EquiFlow, the unique round-booth solution
- **MagicCompact** EquiFlow, the compact color change solution
- **MagicCompact XXL** for extra-large parts coating
- Optional pre/post manual coating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



MagicCylinder EquiFlow



MagicCompact EquiFlow



MagicCompact XXL

Powder feed station

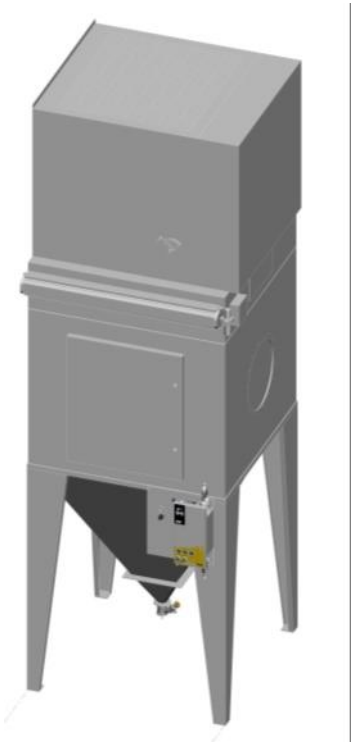
- A fluidized powder hopper is a very **robust and efficient** powder feed solution.
- Optional vibrating table improves powder fluidization.

- 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.

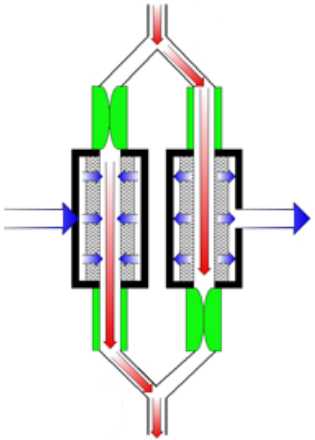
- High **>99.99% recovery efficiency**
- Self cleaning filter elements and air pressure monitoring **reduce filter maintenance**
- Designed for **minimal compressed air consumption**
- Frequency converter technology available to **reduce power consumption**



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

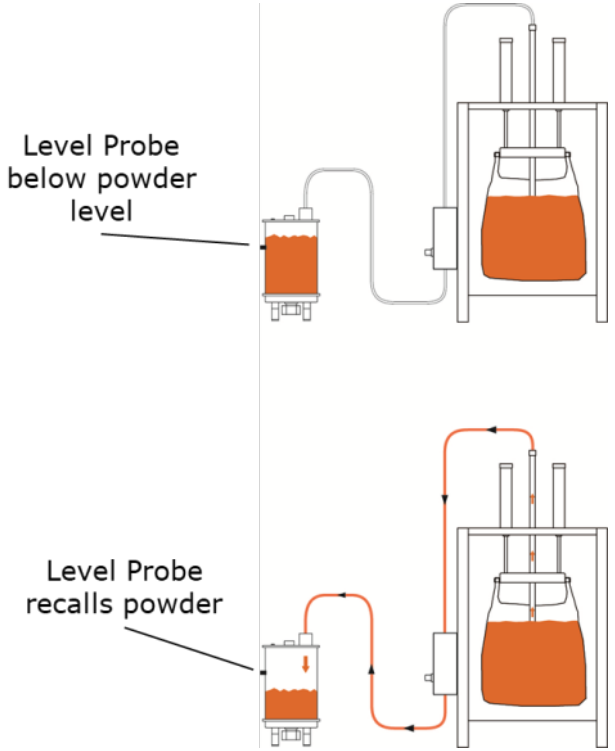




	PS2 Vibratory Sieve	PS2-2 Double Vibratory Sieve	PS7 Vibratory Sieve	AZO Rotary Sieve	US03 Ultrasonic Sieve	US06 Ultrasonic Sieve
Sieve technology	Electric vibratory sieve	Electric vibratory sieve	Electric vibratory sieve	Rotary sieve	Ultrasonic sieve	Ultrasonic sieve
Integration	Stand alone or Powder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

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





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

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)