HR Center Disc

Electrostatic disc spraying system

The HR Center Disc with electrostatic rotary atomizer system with direct high tension charging is an air driven system. The disc is rotating at very high speed – max. 10.000 rpm with a ø 300 mm disc during application.
With this spraying system only electrostatic forces push and atomize the paint material over the sharp disc edge. The material is center feed to the disc ensuring best possible paint distribution.
With the HR Center Disc as integrated part of a system (i.e. painting line/spray booth) an even film build on the work pieces is achieved. Because of the fine atomization of the material the overspray is reduced to lowest levels. Spray disc can be selected from a wide range to suit work piece design.
The material flow rate depends on required wet and dry film builds and the spraying distance. Materials used must be suitable for electrostatic application.

In addition to its low weight, compact and maintenance friendly design the HR Center Disc offers all features of a state of the art rotary disc atomizer. Integrated colour changer with up to 4 paint valves including solvent valve, disc flushing valve allowing colour change time in less than 10 seconds and closed loop speed control up to 10.000 rpm.

For use with 2-pack materials there is an option to mix the A- and B components inside the spray system with an integrated static mixer minimizing paint consumption. Dedicated disc designs for today´s coating materials such as waterborne, 2-pack and solventborne coatings ensure perfect results.

Features

- Accurate speed control for even film build, reduced overspray and highest system availability
- Reduced time for service work for disc change or maintenance due to modular design. Reduced production downtime in case of service
- Reciprocator designed to integrate HR Center Disc for less contamination and easy to clean surface.
- Integrated colour change block with disc flush valve for minimum solvent use and quickest colour change times
- Shaft design avoids any problems after disc change

Technical Data

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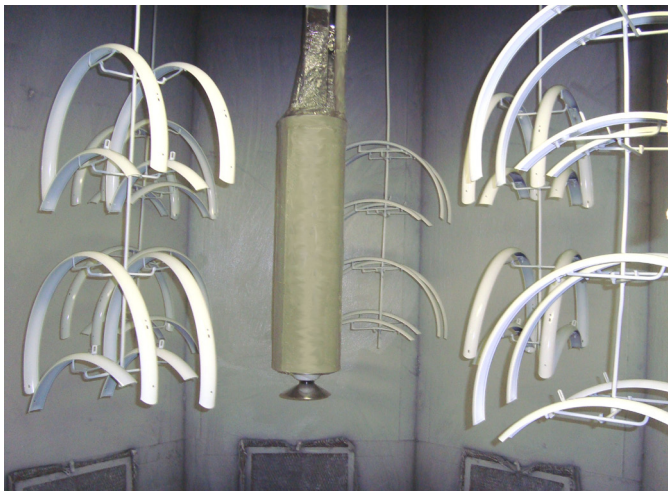
Weight:		approx. 15 kg without disc
Nominal output voltage:		max. 100 kV
Paint flow:		100 - 1.800 ml, depending on the paint material, speed and disc diameter
Length without support:		1.080 mm without disc
Diameter:		approx. 270 mm without disc
Control air pressure:		min. 7,5 bar, oil and condensate-free quality standard according to class 3-MF 0,1 mg/m³
Speed (with paint):		1.600 - 10.000 U/min., with disc 200 mm adjustable 1.600 - 8.000 U/min., with disc 300 mm adjustable
Supplement air pressure:		min. 3 bar
Paint valve pressure control air:		min. 5 bar
Air consumption	drive: supplement air:	approx. 180 NL/min. at 2 bar; approx. 700 NL/min. at 6 bar approx. 20 NL/min. at 1,5 bar; approx. 40 NL/min. at 3 bar
Paint supply pressure:		max. 10 bar



HR Center Disc in production

Quick disc change

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