HR Center Bell with Bell Cover
Electrostatic high speed atomizer

The HR Center Bell electrostatic rotary atomizer system with direct high tension charging is an air driven system. The bell is rotating at very high speed – max. 50,000 rpm during application.

The compact and maintenance friendly design of the HR Center Bell is unbeaten. HR Center Bell features all characteristics of an up to date rotary atomizer system. Separate internal bell wash function, quick flushing valve for colour changes under five seconds and close loop turbine speed control for up to 50,000 rpm.

Dedicated bell designs for today’s coating materials such as waterborne, 2-pack and solventborne coatings ensure perfect results.
Technical Data

HR Center Bell – Electrostatic high speed atomizer

- Weight (without support): approx. 3.8 kg
- Voltage: max. 100 kV
- Paint flow: 20 - 600 ml/min
- Rotating speed: 10,000 - 50,000 rpm (in special cases up to 60,000 rpm)
- Shaping air pressure: max. 6 bar
- Supplement air pressure: min. 1.5 bar
- Paint valve pressure control air: 5 - 8 bar
- Air consumption: max. 1000 Nl/min at 6 bar
  (total for motor, shaping air and supplement air)
- Spray pattern: approx. 400 mm
  (dependent on shaping air share, however min. 120 mm)
- Paint supply pressure: max. 10 bar
- Compressed air supply: Dust and oil free quality standard according to:
  class 3-MF 0.1 mg/m³
- Tool Center Point at C5.3 control:
  - X-axis: +415.73 mm
  - Z-axis: -220.13 mm
  - A-axis: -60°
- 200 mm spraying distance:
  - X-axis: +415.73 mm
  - Z-axis: -220.13 mm
  - A-axis: q1 = 0.866025
  (Quaternions): q2 = 0
  q3 = 0.5
  q4 = 0

Features and design

- High precision rotation speed control improves paint film build distribution, paint consumption and ensures highest system availability
- Cone design for bell mounting avoid trouble after replacement of bells
- Additional flushing valve for quickest color changes
- Shaping air control for high transfer efficiency, excellent particle penetration and finish quality
- Quick connection system minimizes down time for turbine change