



PERFECT FINISH – PAINTED BY THE SPECIALISTS.

HR Center Bell with Bell Cover

Electrostatic high speed atomizer



HR Center Bell for robots with hollow wrist.

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.



Material and control hoses are feed through the hollow wrist and arm of the robot to the atomizer couplings.

Easy to clean covers and holders for the operation with reciprocators, robots with external and internal paint feed of all manufacturers are available.



HR Center Bell for reciprocator or fixed installation.
Material and control hoses are feed through the supply hose to the atomizer couplings.

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 NI/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/m ³
Tool Center Point at 200 mm spraying distance:	C5.3 control: X-axis: +415,73 mm Z-axis: - 220,13 mm A-axis: - 60° S4 control: 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

