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# Center Bell 2012

## Electrostatic high rotation atomizer with change unit



Center Bell 2012 for hollow-wrist robots

The Center Bell 2012 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.

Based on proven technology, the spraying system can perform necessary maintenance and service work with minimal downtime. Within 3 minutes, the complete functional part can be replaced by only one employee.

In addition to low weight and compact design the spraying system Center Bell 2012 has all the features that characterize a modern spraying 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.

Easy to clean covers and holders for the operation with hollow-wrist robots, reciprocators/fixed supports of all manufacturers are available.

### Features and design

- Change unit with all functional components of the spraying system completely removable for maintenance and repair work. To avoid downtime, at least one spare change unit recommended
- 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 dump valve allows shortest colour changes (optional)
- Shaping air control for high transfer efficiency, excellent particle penetration and finish quality
- Quick connection system for turbine change



Change unit

## Technical data

### Center Bell 2012 – Electrostatic high rotation atomizer with change unit

Weight:	approx. 7,5 kg incl. flange (without hose package and without supports)
Voltage:	max. 80 kV
Output current:	350 $\mu$ A
Rotating speed:	10.000 - 50.000 rpm (in special cases up to 60.000 rpm)
Shaping air pressure:	min. 0,4 bar - max. 6 bar
Supplement air pressure:	min. 1,5 bar (project-related)
Material valves control air:	min 5 bar dynamic - max. 8 bar
Air consumption:	max. 1500 NI/min at 6 bar (total for motor, shaping air and supplement air)
Material pressure:	max. admissible 10 bar
Compressed air supply:	Dust and oil free quality standard according to: Class 3-MF 0,1 mg/m <sup>3</sup> ; min. 6 bar dynamic, max. 8 bar
Paint flow:	The paint flow is dependent on the viscosity of the material to be processed and the used spray bells. The paint flow should not be higher than 600ml/min, to obtain still a good atomization. The application rate of 600ml/min is an average. Deviations up or down are possible in individual cases (material properties).

- A Connecting block/insulating support  
(adjusted to robot, reciprocator/fixed support)
- B Supply lines
- C Valve block
- D Air turbine
- E Atomizer

