

# EcoBell2 Powder Rotating Atomiser

## Function **EcoBell2 Powder Rotating Atomiser**

The *EcoBell2* Powder rotating atomiser has been developed for use with robots and is the heart of the application system. Well-ried technologies and components with very innovative features have been combined in this equipment. Being able to change the bell disk allows the same atomiser to be used for exterior painting and interior (cut-in) painting for the first time. A high-voltage cascade and purging technology have been integrated in the *EcoBell2* Powder. Two independently controllable shaping air settings can be used for exterior and interior painting. A door opener can also be installed if necessary. The turbines with air bearing and speed control are the same as those used in the *EcoBell* Powder F and the *EcoBell*.

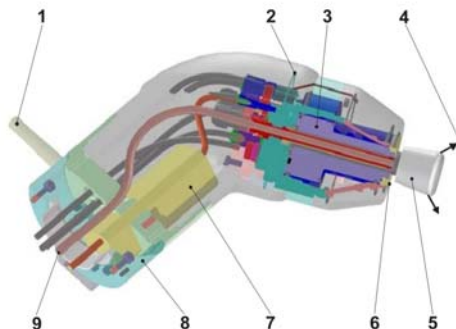
### Technical Data

Bell disk diameter (mm)	41 / 71
Air consumption (NI/min)	120
Speed range (rpm)	4000 - 15000
Length (mm)	approx. 300
Housing diameter (mm)	126
Weight (kg)	3.9
Powder throughput (g/min)	70 - 450
Normal spraying distance (mm)	150 - 280
Efficiency (%)	> 80
Atomiser bend to wrist adapter (x°)	60

### Highlights

- Flexible deployment options because atomiser can be used for exterior and interior painting
- Low operating costs and low air consumption
- Automatic bell disk cleaning, suitable for colour changes
- Robust, low-maintenance
- High efficiency > 80 %
- Same dimensions as *EcoBell2* wet painting system (identical robot systems can be used)
- Integrated high-voltage cascade with minimal use of energy, also has excellent dynamics
- 2 independently controllable shaping air settings

*EcoBell2* Powder sectional drawing



*EcoBell2* Powder atomiser during exterior painting



*EcoBell2* Powder atomiser painting interior (cut-in)



Shaping air setting for exterior painting

Bell disk 71 mm



Shaping air setting for interior painting

Bell disk 41 mm

Key for sectional drawing of *EcoBell2* Powder

- |                            |                          |
|----------------------------|--------------------------|
| 1 Wrist pin for opening    | 2 Quick change equipment |
| 3 Turbine with air bearing | 4 Powder outlet          |
| 5 Bell disk                | 6 Purging/metering air   |
| 7 Integrated cascade       | 8 Robot flange           |
| 9 Powder supply            |                          |



# EcoBell Powder F Rotating Atomiser

## Function **EcoBell Powder F Rotating Atomiser**

The *EcoBell* Powder F rotating atomiser is used for applying the powder coatings that are normally used for painting. Because of its straight design it is best suited for use in side and roof machine.

*EcoBell* Powder F Rotating atomiser configuration:

- Turbine with air bearing, same design as rotating atomiser for *EcoBell* wet painting system
- Quick change equipment
- Air purging for housing
- Shaping air introduced through holes like rotating atomiser for *EcoBell* wet painting system
- Optional second shaping air system
- Bell disk internal purging via separate supply channel
- Speed monitoring via optical waveguide

## Technical Data

Bell disk diameter (mm)	71
Air consumption (Nl/min)	120
Speed range (rpm)	4000 - 15000
Length (mm)	239
Housing diameter (mm)	165
Weight (kg)	2.8
Powder throughput (g/min)	70 - 450
Normal spraying distance (mm)	150 - 250
Efficiency (%)	> 80

## Highlights

- Low operating cost and low air consumption
- Suitable for colour changes
- Automatic cleaning of housing and bell disk
- Same design for machine and robot
- Robust, low-maintenance
- High efficiency
- Minimum powder separation
- Quick change equipment



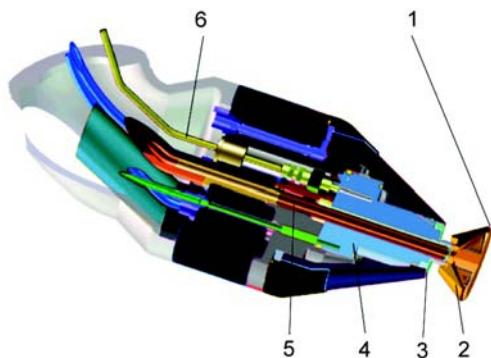
*EcoBell* Powder F Atomiser during painting exterior painting with *Ecopaint* side machines



*EcoBell* Powder F2 atomiser during painting exterior painting with *Ecopaint* roof machine



*EcoBell* Powder F atomizer during painting exterior painting with *Ecopaint* side machines



Key for sectional drawing of *EcoBell* Powder F

- |                    |                            |
|--------------------|----------------------------|
| 1 Powder outlet    | 2 Bell disk                |
| 3 Shaping air ring | 4 Turbine with air bearing |
| 5 Powder tube      | 6 Optical waveguide        |