

RB1000-WSC

Our High Flow Atomizer for Top Performance



Our new high flow atomizer not only increases performance, but also achieves paint savings through the integrated pattern control function. Furthermore, using the high flow atomizer in combination with the highly revolutionary ABB IRB 5500 painting robot and our new enlarged 700cc cartridge may also reduce your costs.

Features	Benefits
High Flow Capacity	Flow rate up to 1000 cc/min *1
	No condensation on the atomizer body *2
	Potential to reduce the number of atomizers and robots (combined use with new IRB 5500 paint robot)
Dedicated Cartridges	Dramatic reduction in paint and solvent loss
Flushable Cartridges	Color change possible
	Required installation space minimized
Pattern Control	Excellent paint savings of 20% or higher *3
	Reduction in paint waste caused by overspray
	Reduction of VOC emissions
Modular Design	Shorter maintenance time
	Less spare parts within RB1000 series

Applicable Process	Applicable Paints
Automotive Exterior and Interior, Bumper	Solventborne Primer & Base (Metallic, Solid) *4
	Waterborne Primer & Base *4 (Tests are recommended to achieve the desired Quality/High flow ratio in base coat.)

*1 The finishing quality depends on the paint flow rate, the paint itself and the environmental conditions. A validation test is recommended.

*2 Patent pending

*3 Based on bumper spray tests carried out at ABB paint laboratory (60-300 mm variable pattern vs. 250 mm fixed pattern)

*4 2K not applicable

Technical Data^{*5}

RB1000-WSC

Shaping Air Ring	Double Shaping Air Type (Standard) or Metabell Type (Option)	
Bell Cup Diameter	φ30, φ40, φ50, φ70 (with G Serrated Edge)	
High Voltage	-90 kV Internal High Voltage Supply (Internal charge)	High voltage current: Max. 150 μA
Paint Flow Rate	Max. 1,000 cc/min for φ70 Bell	
Flushing Solvent	Max. 8–9 cc/sec in 2–3 sec	
Air Consumption *6 (φ70 bell cup case)	Shaping Air (IN)	Min. 100 - Max. 600 NI/min (Min. 10 - Max. 280 kPa)
	Shaping Air (OUT)	Min. 100 - Max. 600 NI/min (Min. 20 - Max. 300 kPa)
	Bearing Air	Max. 80 NI/min (790 kPa)
	Turbine Air	Min. 100 - Max. 900 NI/min (Min. 60 - Max. 870 kPa)
	Break Air	Max. 150 NI/min (870 kPa)
	Exhaust Purge Air	Min. 100 - Max. 300 NI/min (Min. 100 - Max. 500 kPa)
Rotation Speed	Bell Cup Diameter	φ30, φ40, φ50, φ70
	Regular Rotation	60,000 rpm
	Maximum Rotation	70,000 rpm
Weight (including paint)	500cc Cartridge: approx. 12.5 kg	700cc Cartridge: approx. 13.0 kg

^{*5} Data, specifications and dimensions may change without notice.

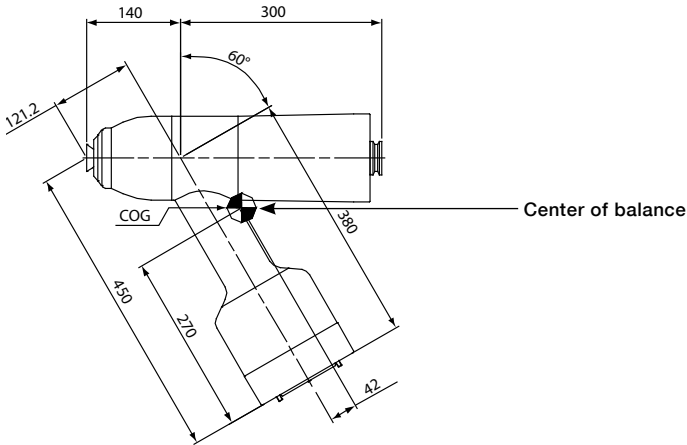
^{*6} Distance of 2.5 meters from the bell.

Bell Cups List

Pattern size varies depending on the Bell Cup/Shaping Air Ring combination.

Bell cup diameter	Primer	Base			Pattern size (mm)	
		Pattern Control	Metabell	Clear	Min.	Max.
φ30	O	O	X	O	80	30
φ40	O	O	O	O	100	300
φ50	O	O	O	O	150	500
φ70	O	O	O	O	250	600

Dimensions



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