

RB1000-SSD/RB1000-SAD

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 may also reduce your costs.

Features	Benefits	Applicable Process	Applicable Paints
High Flow Capacity	Flow rate up to 1000 cc/min *1	Automotive Exterior and Interior Bumper	Solventborne Primer & Base (Metallic, Solid) (Tests are recommended to achieve the desired Quality/High flow ratio in base coat.)
	No condensation on the atomizer body *2		
	Potential to reduce the number of atomizers and robots (combined use with new IRB 5500 paint robot)		
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		

*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)

Technical Data^{*4}

RB1000-SSD / RB1000-SAD

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. 10–15 cc/sec in 2–3 sec	
Air Consumption^{*5} (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)
Rotation Speed	Exhaust Purge Air	Min. 100 - Max. 300 NI/min (Min. 100 - Max. 500 kPa)
	Bell Cup Diameter	φ30, φ40, φ50, φ70
	Regular Rotation	60,000 rpm
Weight (including paint)	Maximum Rotation	70,000 rpm
	approx. 10.0 kg	

*4 Data, specifications and dimensions may change without notice.

*5 Distance of 2.5 meters from the bell.

Bell Cups List

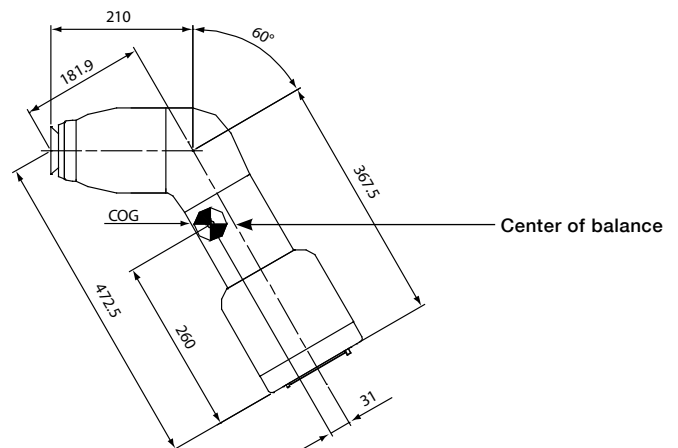
Pattern size varies depending on the Bell Cup/Shaping Air Ring combination.

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

SSD/SAD Valve Configuration

Model	Valve
SSD	Built-in Bell cup flushing valve
SAD	Built-in front Trigger valve, Dump and bell cup flushing valve

Dimensions



For more information please contact:

ABB K.K.

DMRO Division
Cerulean Tower, 26-1 Sakuragaoka-cho
Shibuya-ku, Tokyo 150-8512
Japan
Tel: +81.3.5784.6170
Fax: +81.3.5784.6280

Technical Center

Atomizer Supply Unit Department
948-1 Ohka, Shimada-shi,
Shizuoka 427-0033
Japan
Tel: +81.547.32.0316
Fax: +81.547.32.0366

www.abb.co.jp

Power and productivity
for a better world™

