



RMA-580

DIRECT CHARGE HYBRID ROTARY ATOMIZERS

The RMA-580 is a quick disconnect robot mounted rotary atomizer designed to apply both solvent and waterborne coatings electrostatically, using a direct charge method. An internal cascade applies high voltage to the coating material as it exits the applicator, providing maximum voltage at the applicator, resulting in high transfer efficiency and reduced coating material usage. The atomizer's design incorporates the new Platinum Series turbine, capable of operating speeds up to 100,000 rpm for demanding production environments.

The RMA-580's unique design allows the unit to spray waterborne materials, with direct charge, in conjunction with an isolation system, such as the Ransburg Voltage Block.

The newest member in a long line of Ransburg robotic atomizers, the RMA-580 utilizes state-of-the-art technology to ensure superior performance with consistent, high-quality results. The atomizer's highly polished exterior and aerodynamic design makes cleaning external surfaces a breeze. The RMA-580 includes a fitting-less tubing bundle for quick and easy change out; the tubing is allowed to rotate within the robot plate, for greater flexibility and longer life.

The RMA-580 Hybrid Atomizer provides a cost effective solution for changing production demands while providing superior atomization, increased uptime and flexibility.

Internal solvent and air valves...

provide fast solvent/air chop to quickly and efficiently clean the interior and exterior of the bell cup.

Proven long life turbine and bell cup...

capable of speeds up to 100,000 rpm, achieving optimum atomization and versatility for today's coatings.

Warranty... proven components - 3 year or 15,000 hour warranty.

Serrated and non-serrated bell cup design...

provides application flexibility and color match.

Heavy duty design provides excellent service life...

even when subjected to the quick motions of robotic applications.

Compact high voltage system...

MicroPak2e microprocessor provides the latest in voltage and cascade technology.



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Fitting-less tubing bundle...

more flexibility in the robot wrist and easier to repair damaged tubes.

Long life titanium and aluminum bell cup design...

ensures continual uninterrupted performance.



Color coded tubing bundle for easy change-outs and operational efficiency.

Specifications

Electrical:

Power Supply Type:	MicroPak 2e
Charging Method:	Direct
Output Voltage:	30-70 kV Variable (70 kV Maximum)
Output Current:	125 μ A

Mechanical:

Weight Atomizer Only:	11.80 lbs. (5.35 Kg) max. (with 65mm Dual Flex)
Total Payload with Robot Plate & Adapter:	14.25 lbs. (6.46 Kg) max. (65mm Dual Flex)
Turbine Type:	Air Bearing Impulse Drive
Turbine Speed:	Up to 100,000 rpm (dependent upon flow rate)
Tubing Bundle Max. Rotation:	450° in Either Direction
Bearing Air Supply at the Applicator:	90 psig (\pm 10 psi) (Nominal): (621 kPa \pm 69 kPa) 2.9 SCFM (82 slpm)
Brake Air Supply (Nominal):	60-100 psig (414-689 kPa)
Maximum Fluid Pressure Supply:	
Paint:	200 psi (1379 kPa)
Solvent:	150 psi (1035 kPa)
Fluid Flow Rate:	25-1000 cc/min. (Dependent on bell cup size, speed and flow rates) Available in 30mm, 55mm, 65mm
Note:	Air Heater is recommended for the turbine air supply.

Ransburg

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