introduces the ... 

**FS50**  
**Rotary Atomizer**

**Description**

The FS50 electrostatic paint rotary atomizer has been precision engineered to provide you with a superior finish and exceptional transfer efficiency.

The FS50 is designed to be connected to a reciprocating machine or a flexible robot such as an ABB or Fanuc. Its unique Air Bearing Atomizer can easily obtain speeds of 70,000 rpm.

**Features**

- Aerodynamic Design
- Single Paint Line with Dual Paint Line Option
- Built in Fluid Regulator 0-1000cc/min
- Microvalve Dump, Nanovalve Trigger
- Titanium Bell Cups: 65mm, 55mm, 30mm
- Serrated, Super Sharp and Super Round Bell Cups
- Internal and External Bell Wash
- Split Shroud with Multiple Configurations
- Vortex, Straight and Velocity Air
- Digital Power Supply and Quad Turbine Speed Card with RS232 and RS422 Interface
- Digital Closed Loop Shaping Air Control With Mass Air Flow Meter
- Fiber Optic Speed Control
- Quick Disconnect for Rapid Removal
- Hose Bundle w/ Swivel Hosing
- Integrated Fiber Optic Pick Up in Bell Unit
- Solvent / Air Valving at Tip of Bell Cup
- 100% Made in the USA

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**SUPERIOR QUALITY AND APPEARANCE**

**INCREASED TRANSFER EFFICIENCY**

**DIGITAL CONTROL**
**Turbine Specifications:**

**Turbine Type:** Air Bearing Impulse Drive (Orifice Jet)

**Turbine Speed:** 0 – 70,000rpm (Continuous / Intermittent)

**Air Consumption:** at 30,000rpm, 15psi @ 5.6scfm

**Bearing Air:** 90psig ± 10psig, 2.0 scfmi

**Brake Air:** 60psig

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**General Characteristics:**

- **Dimensions:** See figures below
- **Weight:** Approximately 11.0 lbs
- **Voltage:** 0 to 100 kV adjusted manually or by PC analog input
- **Paint Regulation:** 50 to 1000 cc/min by remotely piloted pneumatic input or PC control
- **Single Paint:** Paint 1
- **Bell Cleaning Time:** 2 seconds
- **Speed Readout:** Fiber Optic

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**High Voltage Characteristics:**

- **Maximum Voltage:** 100kV
- **Maximum Current:** 200 µA
- **Fault Indications:** Current, Voltage and Line
- **Constant Voltage or Current:** DI/DT or DV/DT