

WINDSOR AIRMOTIVE ASIA PTE LTD

Windsor Airmotive Asia, a wholly-owned subsidiary of Barnes Group Inc. USA, is part of Barnes Aerospace; a worldwide producer of precision machined and fabricated aerospace components and assemblies; as well as a world leader in the repair, overhaul and manufacture of turbine engine components.

Our worldwide customers include engine manufacturers, airlines and engine overhaul shops.

Quality products and services are the foundation of our business. Meeting customer requirements, delivering superior quality and industry-leading turn around times assures customer satisfaction and confidence.

Our customers are able to access online order status report, part number searches and part delivery information.

Our specialized processes and technologies are:-

- CNC Electron Beam Welding
- Auto Tungsten Inert Gas Welding
- Robotic Plasma Spray
- Machining of Exotic Aerospace Materials
- NDT including X-Ray , FPI, MPI and UT
- Vacuum Brazing
- CNC Machining
- CNC High Pressure Water Jet Stripping;
- Electrical Discharge Machining
- SVPA Coating
- HVOF Coating

Our major products and services include:

- **Casings** - e.g. Trent 700/800 HPC OGV, Rear Inner Combustion case, Combustion Outer case; PW4000 HPC inner rear case, TOBI Duct; CFM56 LPT Case,

Combustion Case, HPC Forward and Rear Stator Cases and Turbine Rear Frame; RB211 IPC and HPC cases.

- **Stator Assemblies** - e.g. CFM56 Stator Shrouds.
- **Rotating Components** - e.g. CFM56 LPT Rotating knife edge seals, bearing seals; Compressor Rotor Spool, Fan Shaft.
- **Stationary Seals** - e.g. PW4000, CFM56 and Trent honeycomb seals.

New businesses include but not limited to components of the CFM56-2/3/5/7, Trent 500/700/800/900/1000/XWB, and GE 90 engines.

Our Singapore OEM Division at 65 Changi North Crescent manufactures aircraft and engine components.

The manufacturing process capabilities include :

- 5-axis state of art grinding
- 5-axis super drill Hole hopper#
- EDM (Sinker & Wirecut)#
- Spark Erosion Grinding,
- CNC machining
- Vacuum Heat Treat/Brazing, Sintering#
- TIG Weld#
- Fluorescent Penetrant Inspection#
- Metal Stamping
- Surface/Rotary Grinding,
- Glass Bead Peening#
- Vibratory Finishing
- Orbital Forming/Roll Forming
- Nickel Plating#
- Laser Welding#
- Airflow Measurement

includes Customer & Nadcap approvals.



1	2	3	4	5
6	7	8	9	10

1. MRO facility
2. CNC Milling Machine
3. CNC VTL Machine
4. CNC Electron Beam Welding
5. Robotic Plasma Spray
6. Manufacturing Facility
7. Swiss Turn Machine
8. 5-Axis Super Drilling
9. 5-Axis Creep Feed Grinding
10. X-Ray Machine

Contact
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