

iflybombardier.com

Bombardier's footprint on the Maintenance, Repair and Overhaul (MRO) market

Francisco Lopez, ing., MBA Customer Services Bombardier Commercial Aircraft (BCA)

April 28, 2016

Bombardier Commercial Aircraft Customer Services



Agenda





Bombardier's footprint on the Commercial and Business Aircraft MRO market

Services Centers:

 Wholly owned Service Centers deliver comprehensive MRO services 24 hours a day and 7 days a week

Authorized Service Facilities (ASF):

- Authorized service partners strategically located around the world provide a full suite of MRO services
- Bombardier approved parts and equipment
- Same quality standards as Bombardier wholly owned Service Centers

Mobile Response:

- Mobile Repair Team (MRT) specialized in the repair of all Bombardier aircraft types
- Repairs at the highest OEM standards
- Quick Turn Around Time (TAT)



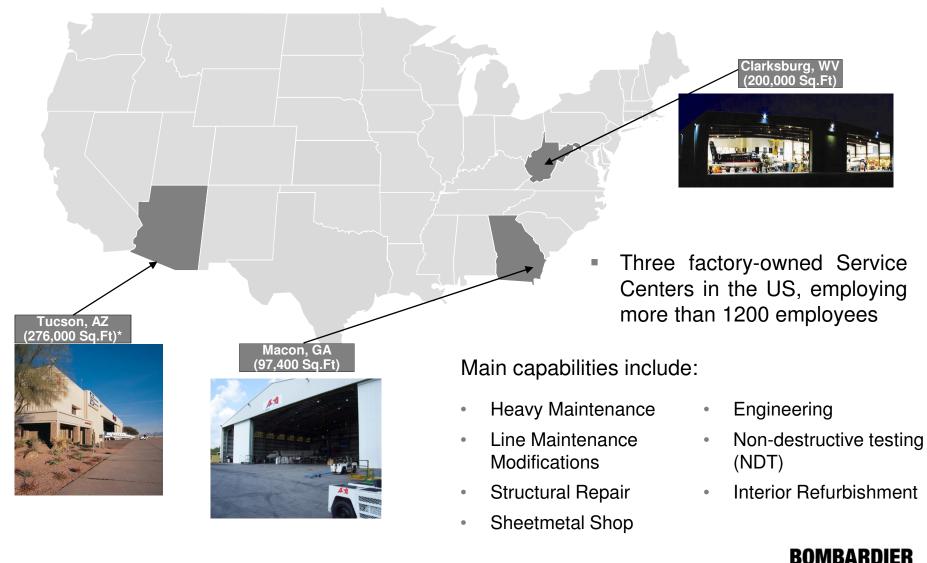
PRIVATE AND CONFIDENTIAL © Bombardier Inc. or its subsidiaries. All rights reserved

Bombardier's footprint on the Commercial and Business Aircraft MRO market





Commercial Aircraft - Service Centers



PRIVATE AND CONFIDENTIAL © Bombardier Inc. or its subsidiaries. All rights reserved.

Commercial Aircraft – Authorized Service Facilities (ASF)



- Independent MROs designated as ASFs
- Strategically located around the world
- Main capabilities equal to that of the Bombardier Service Centers
- To be designated an ASF, prospective MROs must meet stringent quality and business process standards
- ASFs use OEM approved technical publications, parts and tooling for Bombardier products

BOMBARDIER

Business Aircraft – Service Centers and ASFs



BOMBARDIER

the evolution of mobility

7

Commercial and Business Aircraft – Mobile Repair Team (MRT)







- Prepared to deploy on short notice to anywhere around the world.
- Dedicated AOG on-site support.
- In-field structural repairs and system rebuilds for rapid aircraft return to service.
- Liaison between Bombardier Engineering and the customer on MRT project related activities

Main capabilities:

- Damage assessment
- Repair proposal
- Aircraft recovery
- Damage repair
- Project Management



MRT Services: Success Stories Commercial Aircraft



CRJ200: Repairs to radar bulkhead and cockpit skin after ramp collision damage





CRJ200: frame and Nose Landing Gear (NLG) support structure replacement after runway excursion

BOMBARDIER the evolution of mobility

MRO services: Success Stories Business Aircraft

Interior refurbishment shop added to the Singapore Service Center in April 2015:

- Flying Colours Corp., the Ontario-based Canadian aviation company specializing in business aircraft completions, maintenance and refurbishments, has a full interior shop on-site at the Singapore Service Centre
- It can perform interior work on all Learjet, Challenger and Global aircraft.
- Full range of services includes preliminary interior inspection, removal and installation, repair, modification and refurbishment work
- Offers expanded capability to operators closer to their base operations





Aircraft Customization: Success Stories Commercial Aircraft

CRJ200 "Large Cargo Door" Freighter Conversion



- Aftermarket solution for CRJ 200 freighter operators
- Bombardier Licensed third party STC provider: Aeronautical Engineers, Inc. (AEI)
- IFL Group was the launch customer for the CRJ200 SF (Special Freighter)
- 40 aircraft modified up to date





Aircraft Customization: Success Stories Business Aircraft

Bombardier MEDEVAC aircraft solution:

- The Quebec Government operates two Challenger 601 which fly a combined annual 2,500 hours
- The aircraft are used for remote missions in Quebec province
- Air Hospital configuration: Up to five passenger seats, three Intensive Care Units, three Stretchers, one Infant Incubator







BOMBARDIER the evolution of mobility

Small and Medium-sized Enterprises (SME) contribution to Bombardier Aerospace



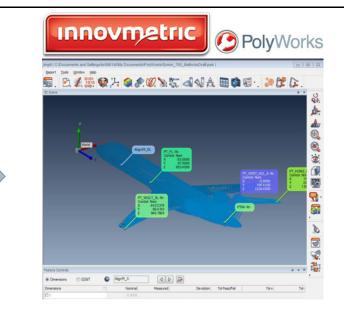
- Aerospace Welding (AWI) employs over 100 workers in Blainville, QC.
- Currently an approved repair facility by Bombardier Commercial Aircraft
- To provide a better customer experience, Bombardier worked with AWI to develop a robust repair solution as an alternative to purchasing new slats tracks
 - Bombardier and AWI developed a repair procedure using HVOF (High Velocity Oxy-Fuel spraying).



Small and Medium-sized Enterprises (SME) contribution to Bombardier Aerospace

Symmetry measurements





- InnovMetric Software Inc. is a Canadian company with headquarters in Quebec
- Bombardier purchased a software tool used for aircraft symmetry measurements:
 - Aircraft geometry evaluation to assess viability of repairing the aircraft
- Recently used in the Tucson Service Center to assist the return to service of a CRJ 200 after long-term storage
- Bombardier worldwide support to assist Operators with symmetry measurement requirements

BOMBAKU

the evolution of mobility

14

Best Practices for MRO Services

- Infrastructure:
 - In-house shops with expanded capabilities to meet customer needs
 - State-of-the-art Technology
- Quality Assurance:
 - Customer and regulatory oversight/audits
 - Shared best practices across Service Center network
 - Highly experienced labor force that is dedicated to the product
- Operations:
 - Robust operational processes continually under improvement
- Maintenance & Cost Planning:
 - Overall cost and turn around time (TAT) guarantees
 - Scope of work definition ahead of aircraft arrival
- Inventory Management
 - Forecast of aircraft parts demand
 - A flexible and efficient parts distribution network









BOMBARDER the evolution of mobilit



