

COMMERCIAL AVIATION SYSTEMS

mitsubishi heavy industries, ltd.

COMMERCIAL AVIATION SYSTEMS

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MHI CANADA AEROSPACE, INC.

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IJSC Intercontinental Jet Service Corporation

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Brochure
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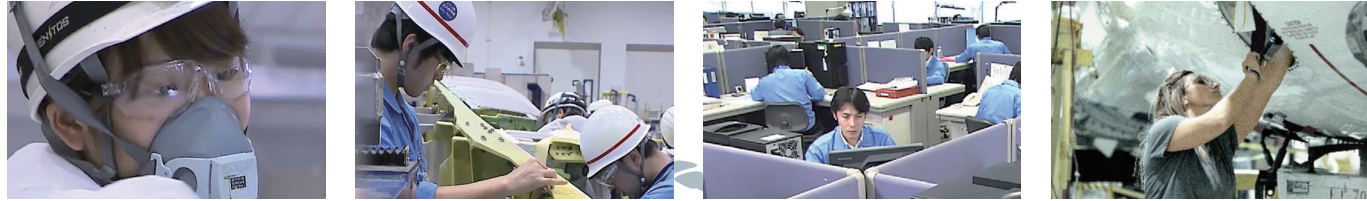
MHI
Website



Our online media
SPECTRA

GLOBAL AVIATION BUSINESS

MHI Commercial Aviation Systems supplies major components of commercial airplanes, including the wings and fuselages to the world's leading aircraft manufacturers – Boeing, Bombardier, and Airbus. As an international joint development and manufacturing partner, we are proud to offer world-class scope of operations and technological capabilities. In the aftermarket business, MHIRJ, one of the largest maintenance, repair, and overhaul (MRO) service provider for regional jets in the United States, serves as the backbone of airline fleet operations. Going forward, MHI Commercial Aviation Systems will continue to improve its productivity through integrated manufacturing, from component manufacturing to structural assembly, as well as refine reliable technologies and expand our aftermarket business, to deliver comfortable air travel to people around the world.



GLOBAL

JAPAN



TORONTO Canada



MHICA MHI CANADA AEROSPACE, INC.

- Global 5000/6000 Series, Challenger 300/3500 Wings, Center Fuselage and Center Wing

MHIRJ MHI RJ Aviation ULC Toronto office

- Aftermarket Business
- Asset Management

MONTREAL Canada



MHIRJ MHI RJ Aviation ULC HQ

- Aftermarket Business
- Aviation Engineering Center
- Aero Advisory Services

TOKYO Head Office

NAGOYA



Nagoya Aerospace Systems Works

- 787 Composite Wings

TUCSON U.S.A.



MHIRJ MHI RJ Aviation INC Tucson

- Aftermarket Business

BRIDGEPORT U.S.A.



MHIRJ MHI RJ Aviation INC Bridgeport

- Aftermarket Business

SHIMONOSEKI



Shimonoseki Shipyard & Machinery Works

- 787 Stringers

HIROSHIMA



Hiroshima Machinery Works

- 767 Aft Fuselage and Cargo Doors
- 777 Aft Fuselage and Tail Fuselage
- 777X Aft Fuselage and Tail Fuselage

HANOI Vietnam



MHIVA MHI AEROSPACE VIETNAM CO., LTD.

- 737 Inboard Flaps
- 777 Passenger Entry Doors and Bulk Cargo Door
- A321 Overwing Doors

TULSA U.S.A.



IJSC Intercontinental Jet Service Corporation

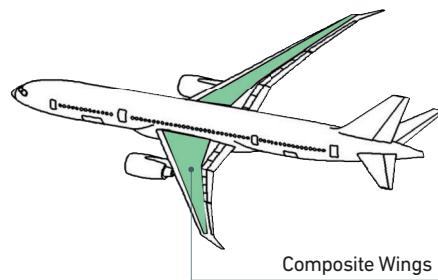
- MU-2 MRO

Major Products

Boeing Commercial Airplanes

787 Composite Wings

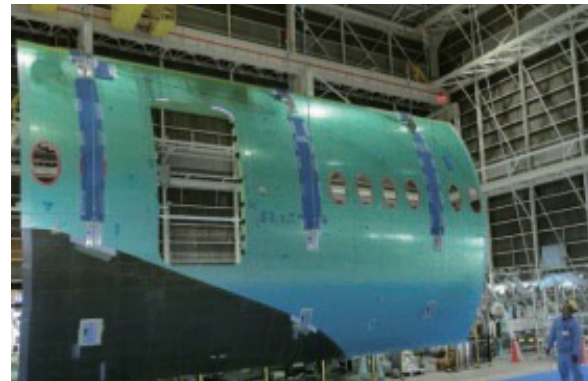
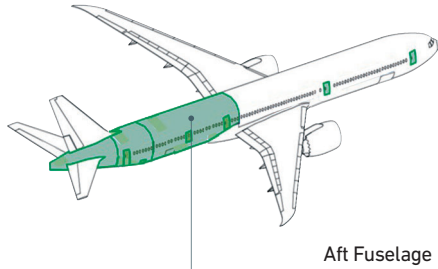
Nagoya



787

777/777X Aft Fuselage, Tail Fuselage, Passenger Entry Doors and Bulk Cargo Door

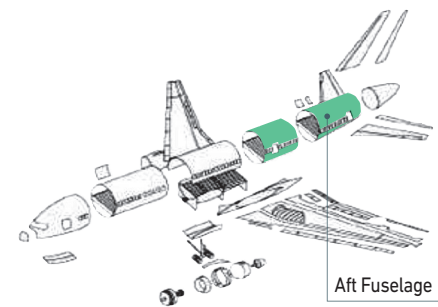
Hiroshima/MHIVA Vietnam



777/777X

767 Aft Fuselage, Tail Fuselage, Cargo Door

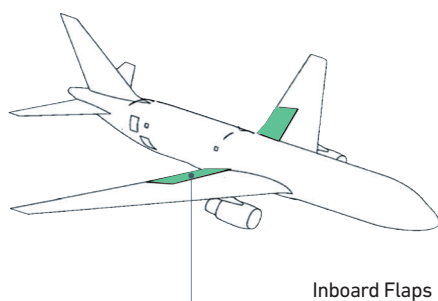
Hiroshima



767

737 Inboard Flaps

MHIVA Vietnam

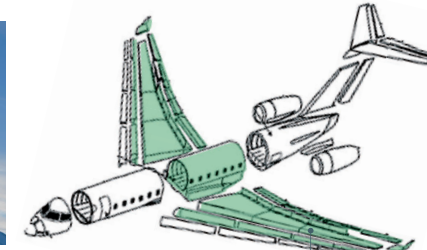


737

Bombardier Business Jets

Global 5000/6000 Series (GX) Wings, Center Fuselage and Center Wing

MHICA Canada

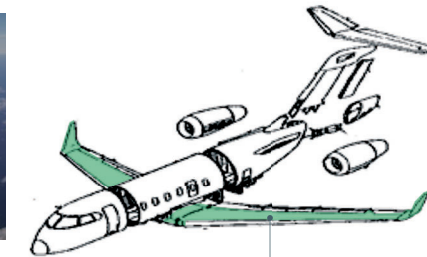


Global 5000/6000 SERIES (GX)

Wings

Challenger 300/3500(CL) Wings

MHICA Canada



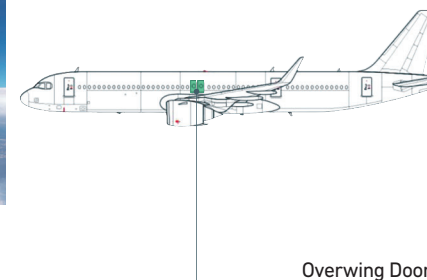
Challenger 300/3500 (CL)

Wings

Airbus Commercial Airplanes

A321XLR Overwing Doors

MHIVA Vietnam



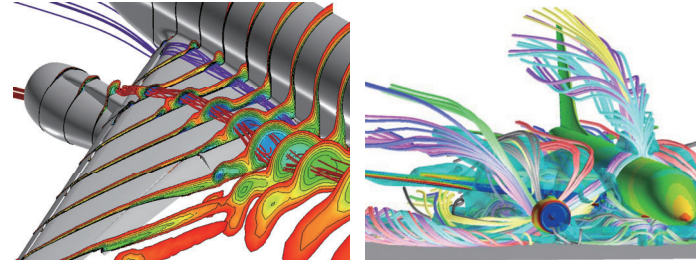
A321

Overwing Doors

Engineering Capabilities

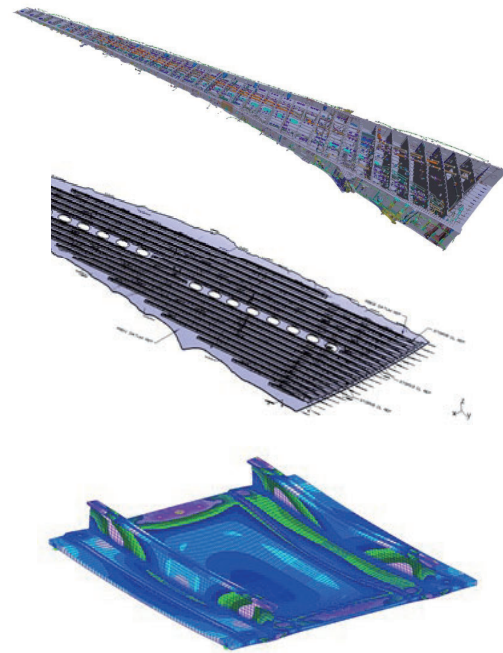
Design of Whole Aircraft

Various analytical techniques such as CFD and FEM



Design of Large Composite Structures

Design of large composite structures and development simulation



Type Certification Support

Providing know-how as an OEM manufacturer



MHIRJ

Supports ZeroAvia's hydrogen electric power train certification

Manufacturing Capabilities

Equipment for manufacturing large carbon fiber composite parts

Autoclave



Heating and pressurizing device to cure resin of carbon fiber composite material

Key Performance	Maximum Temperature: 220°C Pressure: 0.7 MPa (104psi)
Effective Dimension	Φ7,000 mm × 36,000 mm

Automatic Assembly Robot Line

MPAL: Multi Panel Assembly Line



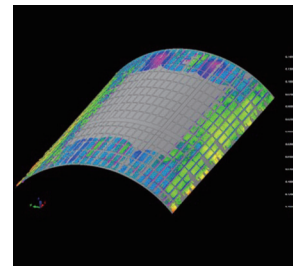
Automatic drilling and riveting device

Key Performance	Upper Unit 5 Axis / Lower Unit 6 Axis Spindle speed: 18,000 rpm Clamp force: 0.7
Effective Dimension	8,000mm × 5,010mm

Automatic measurement system



Dimension inspection result



Aftermarket Business

Service Centers

Aircraft maintenance, repair and overhaul (MRO)



Material Solutions

Spares, rotables, component repair and overhaul (CR&O)



Service Solutions

In-service support and technical services



New Approaches

Unmanned Aerial Vehicle (UAV)

Middle Size: Payload up to 200kg



Small Size: Range up to 2 hours flight (optional battery type available)



Robotics

Automation of confined space work

