Welcome to IAI
IAI is a World-Leading Aerospace Company

- Employees: 17,000
- 2011 results:
  - Sales: $3.4B
  - Backlog: $9B
  - R&D: $154M
- Reporting company
- Global company – over 80% export

IAI Groups

- Bedek Aviation
- Commercial Aircraft
- Engineering
- Military Aircraft
- ELTA Systems
- Systems Missiles & Space

IAI is in a period of accelerated growth
IAI is a World Leading Aerospace Company

- Special mission and early warning aircraft
- Unmanned air vehicle systems
- Radars and electronic intelligence
- Strategic defense systems
- Missiles and loitering weapons
- Passenger-to-freight aircraft conversions
- Satellites and space systems
Commercial Aircraft Group (CAG) within IAI

- Israel’s sole aircraft manufacturer, with integrated logistics network of suppliers & subcontractors
- IAI’s unique aerostructures manufacturing center, with comprehensive in-house production infrastructure & technologies
CAG Attributes

Full spectrum of technologies, capabilities and expertise for design, integration, test, certification, manufacturing & product support of commercial aircraft, aerostructure assemblies, hydraulic systems & Components.
Products & Activities

Business-Jets Family
More than 1,000 business-jets originated from IAI: The new G280, G200 (Galaxy), G150 & G100 (Astra SPX), Astra & Westwind series. Since 2001 - part of the Gulfstream family of business-jets.

Primary & Secondary Aerostructures
Integrated design & production technologies for wings, fuselages, empennages and jet-engine nacelles, their subassemblies & detail-parts, for commercial and military aircraft.

Landing-Gear Systems, Flight Control Actuators & Hydraulic Systems
Development, manufacture & product support of landing-gear, servo actuators, hydraulic test stands and systems for Business Jet & UAVs.
Products & Activities (cont.)

Super- Dvora – Multi-Mission Fast Patrol Craft Family
Purpose-designed to support a variety of sensor & weapons suites for littoral and deep-water missions. Combat proven, 50 knot speed, over 30 years of accumulated experience in more than a dozen navies & coast-guards worldwide

Armored Vehicles
Development & manufacture, marketing & support of armored vehicles, force protection & homeland security systems
IAI – Business-Jets History

Around 1,000 aircraft in service designed and manufactured by IAI

CERTIFICATION: DECEMBER 1998
NEW FUSELAGE, IMPROVED ENGINES, MODIFIED WING WITH WINGLETS, UPGRADED AVIONICS, NEW INTERIOR

G280
CERTIFICATION and EIS: 2011
"ALL NEW": FUSELAGE, T-TAIL, WINGS, ENGINES, SYSTEMS AND ADVANCED AVIONICS

G150
CERTIFICATION: NOV 2005
FUSELAGE WIDENED & STRETCHED, NEW NOSE, NEW AVIONICS, UPRATED ENGINES

G100 (ASTRA) SPX
CERTIFICATION: JANUARY 1996
NEW IMPROVED ENGINES, UPGRADED DIGITAL AVIONICS, NEW INTERIOR, WINGLETS

1125 ASTRA SP
CERTIFICATION: MAY 1990
DIGITAL AVIONICS, NEW INTERIOR

1125 ASTRA
CERTIFICATION: AUGUST 1985
NEW WING, MODIFIED FUSELAGE, NEW SYSTEMS, NEW INTERIOR, UPGRADED AVIONICS

1121 JET COMMANDER
CERTIFICATION: NOVEMBER 1964
LINE RELOCATION TO ISRAEL: 1969

1123 COMMODORE JET
CERTIFICATION: DECEMBER 1971
GE-CJ610-9 ENGINES WITH THRUST-REVERSERS, FUSELAGE STRETCH, WING-TIP TANKS, NEW INTERIOR, STANDARD APU

1124 WESTWIND I
CERTIFICATION: MARCH 1976
TFE 731-3 ENGINES (TURBO-FANS), NEW SYSTEMS, NEW AVIONICS, NEW INTERIOR

1124A WESTWIND II
CERTIFICATION: APRIL 1980
WINGLETS, WING AERODYNAMIC REFINEMENTS, ADDITIONAL FUEL TANK, UPGRADED AVIONICS, NEW INTERIOR

G200 (GALAXY)
CERTIFICATION: DECEMBER 1998
NEW FUSELAGE, IMPROVED ENGINES, MODIFIED WING WITH WINGLETS, UPGRADED AVIONICS, NEW INTERIOR

1125 ASTRA
CERTIFICATION: AUGUST 1985
NEW WING, MODIFIED FUSELAGE, NEW SYSTEMS, NEW INTERIOR, UPGRADED AVIONICS
Major International Programs

Business-Jets

Development, Certification, Manufacture, Assembly & After-sales Support

Integrated into the Gulfstream family of Business-Jets

More than 1,000 Business-Jets originated from IAI since 1971

G150
Midsize Business-Jet

G200
Super-midsize Business-Jet

G280
New Super-midsize Business-Jet
G100 (Astra SPX)

Midsize Business-Jet

Major program milestones:
Program launching: 1980
First flight: Mar. 1984
Certification: Aug. 1985

A total of more than 150 aircraft were produced

Last aircraft delivery: January 2006

Was replaced by the Wide Cabin G150

Dispatch Reliability & Availability
12 Month Average:
NBAA D/R (Oct. 10) - 99.63%
NBAA Avail. (Oct. 10) - 91.43%
G150
Midsize Business-Jet
Part of the Gulfstream family of business-jets

The performance leader in its class, with a surprisingly spacious cabin

With max. speed of .85 Mach, the G150 offers the best performance in its class.
At a long-range cruise speed of .75 Mach, it can cover 2,950 NM easily with 4 pax., on nonstop U.S.A. coast-to-coast trips.
The G150 features a spacious cabin with stand-up headroom, ample aisle space, and generous seated headroom and legroom.

In production (certification: Nov.2005)
Entry into service: Aug.2006

Dispatch Reliability & Availability
12 Month Average:
NBAA D/R  (March 13) - 99.82%
NBAA Avail. (March 13) – 91.80%
G200
Super-Midsize Business-Jet
Since 2001 - part of the Gulfstream family of Business-Jets

Large cabin, true intercontinental capability
The G200 features a maximum range of 3,400 NM with IFR reserves: Nonstop Los-Angeles to Caracas, Tokyo to Singapore, Berlin to Delhi. Balanced performance combines high-speed and long-range, with excellent climb capability, 45,000 ft cruising altitude and short-landing capability.

In serial production certification: Dec.1999

Dispatch Reliability & Availability
12 Month Average:
NBAA D/R (March 13) - 99.88%
Availability (March 13) - 88.33%
G280

The New Model of Super-Midsize Business-Jet

Significant improvement in operational performance

- Longest-range & Highest-speed in its class
- Takeoff performance equal to or better than competitors
- Excellent payload and time-to-climb

Best-in-class cabin

- Longest cabin
- Better cross-section
- Largest baggage volume

<table>
<thead>
<tr>
<th>Max TOW</th>
<th>39,600 lbs</th>
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<tbody>
<tr>
<td>Passengers</td>
<td>2+10</td>
</tr>
<tr>
<td>IFR Range</td>
<td>3,600 nm</td>
</tr>
<tr>
<td>Max Speed</td>
<td>0.85M</td>
</tr>
</tbody>
</table>

G280

- New Wing
- Anti-Ice
- No Slats
- Rockwell Collins PlaneView Flight Deck
- Honeywell HTF7000 Enhanced Baseline Engines
- New T-Tail
- In Flight Access to Baggage Compartment
- Increased Cabin by Eliminating Fuselage Fuel Tank
- Four Additional Cabin Windows
- Brake By Wire w/auto braking
- FBW Spoilers & Rudder
Computerized Development & Manufacturing
Same Digital Model From Geometry–Definition to Manufacturing

- Design for Manufacturing and Assembly
- Full 3D Digital Definition of Geometry
- Systems’ Installation
- Structure and Assembly
- Finite Element Analysis Dynamic Landing – Longitudinal Stresses
- CFD Aerodynamic Analysis Pressure Distribution

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Fully Integrated Development Capability

Major Facilities

- Low-speed, high-speed and hypersonic wind tunnels
- Structural and fatigue test facilities
- Environmental and acoustic laboratories
- Flight test center
- Metallurgical, chemical and non-metallic materials laboratories
- Far-field indoor antennae & radome test range
- Computer center, CAD/CAM and analytical software programs
Comprehensive Development Technologies Capabilities

Advanced Programs

Aerostucture Design & Analysis

Mechanical Systems Design

Product Assurance

Test Centers

Flight Sciences

Materials Eng. & Technologies Development

Electrical & Avionics Design

Computerized Systems

- Stress & Fatigue
- Loads & Dynamics
- Weight Control
- Advanced Struct. Technologies
- Structural Design
- Liaison

- Aerodynamics
- Flight Control & FQS
- Preliminary Design

- Metallurgy
- Composite Materials
- Chemistry
- NDT
- Radomes
- RCS

- Mechanical Systems
- Fluid Systems
- ECS
- Powerplants

- Electrical Design
- Avionics Sys. Integration
- EMI
- El. Simulators Testing

- Maintainability
- Reliability
- Components Eng.
- ILS

- Wind Tunnels
- Flight Testing
- Ground Testing

The design authority for air-vehicles of IAI

Over 1,100 Employees
Major International Programs
Boeing 787 – IAI Packages

Section 46/47
Pax Floor Grid Assy
Section 47
Cargo Floor Grid Assy

Section 48
Pivot Bulkhead

Horizontal Stabilizer:
- Tip Assy
- LE Assy & Strakelet
- Trailing Edge

Section 46 & 47
Door Surrounds
Major International Programs
Boeing 777 Empennage

Leading-Edge Assemblies, Tips & Skin Panels

Sole-Source
Major International Programs

Engine Nacelles, Fan Cowls (F/C) & Barrels

Build-to-Print
Sole-source for AIRCELLE

Build-to-Print
F/C door
FALCON 7X

Build-to-Spec.
Life-of-program/ risk-sharing partners/suppliers
for ROHR/GOODRICH

Build-to-Spec.
Sole-source/risk-sharing for ROHR/GOODRICH

F/C Door & Outer Barrels
CF6-80-E1

Air Inlet
CFM56-5C

Air Inlet +F/C
P&W 305

Build-to-Print
for GOODRICH

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Major International Programs
Landing Gear Systems

G200 Landing Gear

B717-200 Main Landing Gear

G280 Main Landing Gear

F16 Flight Control Actuators

Heron UAV Nose & Main Landing Gear
Business Jets Division

Commercial Aircraft Group’s Business Jets Division is a center of excellence for the production, assembly and after-sales support of business jets.

Our G150, G200 and G280 business-jets are an integral part of the Gulfstream family of business-jets.
Commercial Aircraft Group’s Aero-Assemblies Division is a center of excellence for the production of a wide range of composite, metallic and hybrid primary & secondary aerostructure assemblies, landing-gear systems and servo actuators.

Versatile business collaboration options range from risk-sharing partnership in integrated design, manufacture and certification.

**Comprehensive Composites Technologies:**
- Advanced Prepreg Laminates
- Co-cured Structures
- Integrally Stiffened/Foam-core Structures
- Full-depth Honeycomb Structures
- Liquid Resin Infusion (LRI)
- Metal-to-metal Bonding
Composite Materials
Production Centers of Excellence

- Automated Contour Tape Lay-up (CTL)
- Liquid Resin Infusion (LRI)
- Hot Drop Forming (HDF)
- Autoclaves (x6)
  Largest: 15’ Dia. x 40’L
Production Technologies Division

Commercial Aircraft Group’s Production Technologies Division offers comprehensive, in-house, state-of-the-art, aerostructure detail-parts manufacturing infrastructure and technologies.

All production is supervised by stringent quality control systems, to ensure product conformance to the most demanding international military and civilian standards.

Comprehensive Production Technologies

- **Machining**
  - High-speed Milling
  - 5 Axis CNC Milling
  - Precision Grinding
  - Turning
  - Deep Drilling

- **Hot-Forming & Tubing**
  - Ti & Exotic Metals
  - Hot-forming
  - Super-plastic Forming
  - Tubes/Hoses Manufacture

- **Sheet-metal Forming**
  - Stretch-forming
  - Hydro-forming
  - Chemical Milling

- **Processes**
  - Heat Treatment
  - Surface Treatment
  - Electro Plating

- **Jigs and Fixtures**
  - Tools for Detail-Parts Manufacture & Assembly

- **Hydraulic Components Assembly**
  - Landing-gear Systems
  - Flight Controls
  - Actuating Systems
  - Modular Test Stands
Production Facilities
Production Centers of Excellence

Metals
- HSM
  Up to 5 axis, 24,000 RPM
  394"x118"x47"
- Stretch Forming
  Up to 1500 ton, 200"x480"
- Super Plastic Forming
- Jigless Assembly

Composite Materials
- Autoclaves (x6)
  Largest 15’ Dia. x 40’ L
- Laser Layup
- 5 Axis Water Jet Cutting
- Robotic Skin Polishing
- 9 Axis Automatic Scanner

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Commercial Aircraft Group’s Ramta Division is a center of excellence for metallic, composites & metal-bonded aerostructures, fast patrol and attack craft, manned and Unmanned ground vehicles, armoring platforms & other homeland security systems.
IAI Quality Management System (QMS)

IAI QM. System fully meets the requirements of:

- **SAE AS 9100** Aerospace basic Quality System
- **Federal Aviation Regulation (FAR) Part 21** - Order 8100.7 ACSEP
- **NADCAP** – 7 major production processes
- **FAA CFR part 145** – Repair Station
- **ISO 17025:1999** – EN 45001 – ANSI Z540-1
- **ISO 14001** Environmental Management System
- **OHSAS 18001** Health and Safety System
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