

Strata Manufacturing Media Fact Sheet

About Strata Manufacturing PJSC

Strata Manufacturing PJSC (STRATA) is a composite aero-structures manufacturing facility based in the heart of Nibras Al Ain Aerospace, Al Ain, United Arab Emirates. The company was established in 2009, with production beginning in 2010. Strata has partnerships with the world's leading aircraft manufacturers such as Airbus, Boeing and Leonardo-Finmeccanica Aero-structures Division as well as a supplier to Pilatus, SAAB and S.A.B.C.A.

Strata is wholly owned by Mubadala Investment Company (Mubadala), the Abu Dhabi-based investment and development company and is part of the Aerospace, Renewables & ICT platform that aims to advance the development of a leading aerospace hub in Abu Dhabi.

Vision

To be a leader in advanced composite aero-structures and the partner of choice for our customers, driving the transformation of the global aerospace industry for Abu Dhabi, while delivering sustainable returns for our shareholder.

Mission

Technology leadership, purposeful collaboration and high performing staff and processes, with an embedded quality and safety culture, to deliver innovative, integrated, value-added solutions for our customers.

Work Packages

Strata manufactures various parts on Airbus, Boeing and ATR aircrafts:

1. Airbus A330 family Flap Track Fairings
2. Airbus A330 family Ailerons
3. Airbus A330 family Spoilers
4. Airbus A350 – 900 family Flap Support Fairings
5. Airbus A350 – 1000 family Flap Support Fairings
6. Airbus A350 – 900 family Inboard Flaps
7. Airbus A380 family Flap Track Fairings
8. ATR 42/72 Rudder
9. ATR 42/72 Vertical Fin
10. Boeing B777 Empennage Ribs
11. Boeing B777X Empennage Ribs
12. Boeing B787 Vertical Fin Ribs
13. Pilatus Aircraft PC-24 Composite Belly Fairings; and
14. Pilatus Aircraft PC-24 Composite Flap Track Fairings

Future Work Packages

1. Strata to manufacture the Vertical Fin for Boeing's B787

Key Facts

Supply Chain

- Strata has more than 300 suppliers worldwide
- Over 50% of Strata's supply base is based in the UAE

HR

- 700 employees
- Over 30 different nationalities

Emiratization

- Over 300 UAE nationals graduated from the Aerostructure technicians training program
- 58% of Strata's workforce is UAE nationals, of which 87% are females
- Strata currently has 21/34 Emirati female Team Leaders and 9/15 Emirati female Team Supervisors, six Emirati junior supervisors and four Emirati supervisors
- 1 of our 12 programs are made at 100% by UAE workforce

Manufacturing Facility

- Built in Al Ain in 2009, and expanded in 2015, the facility has 31,500 m² of production floor space
- Focused on build-to-print production of primary and secondary aero-structures using advanced composite materials
- Qualified facility in July 2010, current qualifications: NADCAP, EN9100, and is qualified by the Original Equipment Manufacturer (OEMs)
- Qualifications include: NADCAP – Composites, NADCAP-NDT, NADCAP – Chemical Processing, EN9100:2016, ISO 14001:2015, OHSAS 18001:2007
- Delivered its first ship set in September 2010 – *A330/340 Flap Track Fairings (FTF) to FACC*

Research & Development

- Created Research & Development (R&D) Department in September 2015 in collaboration with local universities, technology partners, and OEM customers.
- The program encompasses two research labs with state-of-the-art capabilities located in Strata (in Al Ain) and Khalifa University (in Abu Dhabi)
- Strata's primary focus now is two areas:
 1. Digital technologies (3D Printer, Artificial Intelligence, Industry Internet of Things, Virtual Reality, etc.)
 2. Robotic manufacturing (fabrication, assembly & inspection)
- The overall program involves 13 projects covering: **additive manufacturing, advanced inspection techniques and optimized processing and machining of composite parts, robotic assembly, artificial intelligence, and data analytics.** The projects are under development and deployment.

Achievements Timeline

2008-2010

- Airbus commitment to Mubadala, worth \$1 billion – 2008
- Alenia (currently known as Leonardo-Finmeccanica Aero-structures Division) commitment for ATR 42/72 work packages – 2008
- Contract signed with FACC for Airbus A330/340 Flap Track Fairings (FTF) and Spoilers, and A380 FTF – 2008
- Contract signed with Airbus for manufacturing of A330/340 Ailerons – 2009
- Production began at Strata facility – 2010
- Strata delivers its first shipset of A330/340 Flap Track Fairings (FTF) to FACC – 2010

2011-2013

- Agreement signed between Mubadala and Boeing at Dubai Airshow 2011 to establish Strata as a Tier 1 supplier to Boeing
- Graduated inaugural class of the Aero-structures Technician Training Program – 2011
- Strata obtains the initial EN9100 certification for its quality management system -2011
- Awarded the A350-900 Flap Support Fairings (FSF) contract from SABCA – 2012
- Boeing and Mubadala announced that Strata would produce 777 Empennage Ribs and 787 Vertical Fin Ribs and was positioned to build the Vertical Fin for the Dreamliner – 2012
- At Dubai Airshow 2013, agreements with Airbus and Boeing saw approximately \$5 billion worth of aero-structures manufacturing work packages transferred to Strata, through to 2030

2014 - 2015

- Strata reached 45% Emiratization rate – 2014
- Emirates Airline receives its first shipset of 777 Empennage Ribs made by Strata – 2014

- Contract signed with SAAB on the A350-1000 Flap Support Fairing (FSF) – 2015
- Etihad receives first Boeing 787 Dreamliner Vertical Fin Ribs made by Strata – 2015
- More than 200 Emiratis graduated from the Aero-structures Technician Training Program since 2011 – 2015
- Sole supplier contract to provide ailerons to Airbus for the A330 and A330neo, making Strata the single source supplier of ailerons to Airbus for its A330 programs – 2015
- Two Emirati Team Leaders were promoted to Production Supervisors and seven Emirati aero-structure technicians were promoted to Team Leader positions

2016

- Contract signed with Boeing on the B787 Dreamliner Vertical Fins 787 during Farnborough airshow
- Contract signed with Airbus on the A350 – 900 Inboard Flaps (IBF) during Farnborough airshow
- Strata celebrated the completion of the First Article Inspection (FAI) of Aileron and Flap Track Fairing (FTF) shipsets for the Airbus A330neo
- Strata delivered its first shipset of A350 – 1000 Flap Support Fairings (FSFs), from its contract with Saab, to Airbus

2017

- Ismail Ali Abdulla appointed CEO of Strata
- Strata and Siemens launched a pilot project to advance industrial 3D printing capabilities in the Middle East by partnering to develop the region's first 3D-printed aircraft interior part for Etihad Airways
- Strata earns its 5th consecutive zero-findings accreditation on the periodical NADCAP NDT (Non Destructive Testing) audit, demonstrating the company's dedication to customer needs and commitment to quality.
- Strata delivers its first set of A350-900 inboard flaps to Airbus.
- Boeing B777/787 production line is 100% Emirati

2018

- Strata extends its EN9100 certification to include also design and development in the aerospace industry.
- Strata signs an agreement to manufacture Belly Fairings for the PC-24, a twin-engine business jet produced by Pilatus Aircraft Ltd of Switzerland.
- Strata signs a new contract with Boeing to manufacture composite empennage ribs for Boeing's new 777X airplane.
- Strata Introduces Automated Tape Laying (ATL) Technology by acquiring the two latest generation MTorres Automatic Tape Laying (ATL) machines that will be used in the manufacturing of Airbus A350-900 Inboard Flap components.
- Strata completes the industrialization of the Airbus A350-900 elongated Flap Support Fairings (eFSFs) modification for Belgian aerospace company, Sociétés Anonyme Belge de Constructions Aéronautiques (SABCA). The new eFSFs are designed to further optimize the aerodynamics, resulting in lower fuel burn and better economics for operators
- Strata has signed a Cooperation Agreement (CA) with Dema SpA, the Italian aerospace company headquartered in Naples. The agreement will enable Strata and Dema SpA to transfer knowledge and exchange manufacturing services, which is in line with Strata's strategy towards expanding its supply chain footprint in the global aerospace industry.

2019

- Strata marks a decade in the aerospace industry its 10th year anniversary
- Strata signs an agreement to manufacture flap track fairings for the world's first 'Super Versatile Jet' PC-24, a twin-engine business jet produced by Pilatus Aircraft Ltd of Switzerland.
- Strata is set to collaborate with UAE-based DGWorld (Digi Robotics Technologies) to implement a robotics system within Strata's manufacturing processes.

- Strata will replicate the capabilities of the Boeing Salt Lake City 787 vertical fin assembly line to sub-assemble vertical fins for the Dreamliner family of airplanes in its Al Ain base.
- Strata reached 58% Emiratization rate
- Strata delivers its first shipset of belly fairing for the PC-24, a twin-engine business jet produced by Pilatus Aircraft Ltd Switzerland.

2020

- Strata delivers its first shipset of flap track fairings for the Pilatus pc-24 shipset, a twin-engine business jet produced by Pilatus Aircraft Ltd Switzerland.

Senior Leadership

Chief Executive Officer	Ismail Ali Abdulla
Senior Vice President- Finance & Support Services	James Payne
Senior Vice President – Operations	Julien Fabreguette