HAECO Group Services

Airframe Maintenance
Cabin Reconfiguration
Freighter Conversion
Line Maintenance
Inventory Technical Management
Component Services
TAECO completes C-Checks on NAC freighters

On 6 August, Taikoo (Xiamen) Aircraft Engineering Co. Ltd. (TAECO) completed a C-check on the second of two Boeing 747-400F aircraft commissioned for airframe maintenance by US cargo carrier National Air Cargo (NAC).

TAECO is the first MRO in Asia appointed by National Air Cargo to perform maintenance services on its aircraft. The contract marks a significant milestone in developing the relationship between TAECO and the cargo carrier, with NAC very satisfied with TAECO’s professional performance.
Cabin Reconfiguration

Virgin Atlantic cabin reconfiguration

HAECO recently completed cabin reconfiguration on two Boeing 747-400 aircraft for Virgin Atlantic Airways. The modifications included the installation of new Premium Economy and Economy class seats, new in-flight entertainment systems with wi-fi connectivity, as well as new cabin interior fixtures and décor enhancements.

In addition to the installation of new cabin products, HAECO acted as project manager for the programme, providing on-site coordination between suppliers of cabin products and in-flight entertainment equipment.

Both aircraft have successfully acquired Supplemental Type Certificates (STC) and are already in service, with very encouraging feedback on cabin quality. This project exemplifies the successful close collaboration between Virgin Atlantic Airways, HAECO, the integrator Northwest Aerospace Technologies Inc. (NAT), and other vendors.
HAECO concludes
UA Economy Plus modification

On 9 August, HAECO completed an “Economy Plus” modification programme on 22 of United Airlines’ Boeing 777-200 aircraft.

The modification was carried out in the front section of Economy Class and involved the removal of one row of seats (the 23rd row) and re-adjusting the seat pitches of the rows designated for Economy Plus seats. Work also included the re-routing of wires and upgrading of in-flight entertainment facilities.

Completing the Economy Plus modification entailed two months of intensive effort, but HAECO’s team of professionals were able to master the knack of the programme very quickly, and reduce the average modification time for one aircraft from five days to two days.

The modification programme is part of United Airlines’ plan to expand the availability of Economy Plus seats on various aircraft types. The Economy Plus seats provide passengers with greater comfort on long-haul flights, with more leg room and recline.
Cabin Reconfiguration

On 6 June, HAECO redelivered to United Airlines the first of 14 Boeing 767-300 aircraft that will undergo 2-class modification and winglets installation. The prototype aircraft (registration N674UA) departed Hong Kong on 9 June, following a successful test flight the previous day.

The reconfiguration includes the installation of new BusinessFirst flat bed seats and Economy Plus / Economy Class seats, as well as the upgrading of the Audio Video On Demand (AVOD) system. In addition, Aviation Partners Boeing (APB) winglets will be installed to further enhance aircraft fuel efficiency.

During modification of the prototype aircraft, HAECO worked closely with United Airlines’ on-site representatives, engineering and material teams and suppliers to tackle various technical and material discrepancy issues.

The result is a product that satisfies the expectations of all parties. HAECO will continue modification work on the remaining 13 United Airlines’ Boeing 767-300 aircraft.
TAECO completes first A330 cabin retrofit for Cathay Pacific

TAECO completed its first cabin retrofit on an Airbus A330-300 aircraft (B-LAC) for Cathay Pacific Airways on 13 July. The retrofit on B-LAC, which took just 32 days, involved the installation of new Business Class, Premium Economy and Economy Class seats and was a testament to the well-coordinated efforts of TAECO, the airline’s engineering team, Airbus and other suppliers.

The completed aircraft is the first of 13 Cathay Pacific A330s to undergo cabin retrofitting at TAECO.

As at the end of August, TAECO had completed cabin retrofits on 17 of Cathay Pacific’s Boeing 777-300ER aircraft, and work on the 18th and last 777-300ER aircraft in the programme is currently in progress.
Freighter Conversion

TAECO completes Boeing’s 50th BCF

TAECO has recently completed and redelivered to Boeing its 50th 747-400 Boeing Converted Freighter (747-400BCF); the aircraft also marks the 40th 747-400BCF modification undertaken by TAECO.

TAECO is the only independent maintenance facility licensed by Boeing to convert 747-400 passenger or combi aircraft to Boeing Converted Freighters. Each conversion takes approximately 100 days to complete, and involves major structural works, including cutting the fuselage to insert a cargo door and installing new flooring and new wiring throughout the aircraft.

TAECO’s consistent on-time performance, exceptional production quality and effective cooperation with Boeing and its airline customers have made this programme a resounding success.

This latest BCF is operated by Evergreen International Airlines.
HAECO achieves 100th ArIES input

Over the past six months, HAECO has completed modifications on more than 100 Boeing 777 inputs from Delta Air Lines, under its Aircraft Interior Enhancement Solution (ArIES) programme. The 100th input was completed on 6 August.

The ArIES programme is an integrated cabin solution initiative aimed at maintaining and improving cabin products for airline customers during long layover ground time. HAECO is the first MRO in the Asia Pacific region to be appointed by Delta Air Lines to undertake this type of cabin enhancement programme.

“It is a great feat and I applaud and appreciate all the hard work everyone has put into this effort. Delta’s aircraft and its customers are in a better place because of the work of the ArIES team!” said Mr. Lonnie Gillespie, Manager, Cabin Maintenance, for Delta Air Lines.
HAECO has recently welcomed two new airline customers, Air Astana and Mongolian Airlines Group, for the provision of line maintenance and ramp services during flight transits at Hong Kong International Airport. On 28 August, Air Astana commenced twice weekly flights from Almaty to Hong Kong, using a Boeing 757 aircraft. The launch of Hong Kong as the sixth international destination introduced by Air Astana in 2012, also marked the airline’s 10th anniversary.

Mongolian Airlines Group launched thrice weekly flights between Ulaanbaatar and Hong Kong in June, using an Airbus A319 aircraft.
HAECO signs ITM contract with NCA

HAECO has entered into an Inventory Technical Management (ITM) contract with Nippon Cargo Airlines (NCA) to provide component exchange services for the airline’s fleet of eight new Boeing 747-8 freighters; the aircraft are scheduled for delivery between 2012 and 2016.

NCA is one of the launch customers for the Boeing 747-8 freighter aircraft.

With a growing customer base for the Boeing 747-8 freighter, HAECO is well positioned to capture future business opportunities from this new aircraft type.
TALSCO adds A320 capability

Taikoo (Xiamen) Landing Gear Services Co. Ltd. (TALSCO) has added the Airbus A320 family (A319, A320 and A321 and derivatives) to its landing gear repair and overhaul capability, to service the growing Asian market.

This addition complements TALSCO’s existing landing gear repair and overhaul capability on Boeing 737, 747, 757, 767 and 777 aircraft.

The A320 capability has been complemented with the acquisition of rotables to support exchanges and the addition of experienced Messier-Bugatti-Dowty engineers to its workforce. It is expected that TALSCO’s Airbus services will be further expanded with A330 capability and rotables towards the end of this year.
VIP visitor

HAECO welcomed Xiamen Municipal Government Deputy Mayor, Zhang Canmin (4th from Right), and accompanying officials to the company’s hangar facilities at Hong Kong International Airport on 22 June.

The visit was an opportunity for HAECO’s Commercial Director, Summit Chan (4th from Left), to discuss the HAECO Group’s relationship with Xiamen Municipality with Deputy Mayor Zhang and exchange views on strengthening cooperation to facilitate the development of the aircraft engineering industry on the Mainland.
Professional recognition

The Aircraft Engineering Division (ACE) of the Hong Kong Institution of Engineers (HKIE) was officially established on 7 June, with more than 300 founding members, representing different aviation sectors.

The formation of ACE is the result of the dedicated efforts of a group of aviation professionals from the HK Civil Aviation Department, HAECO, HAESL and the engineering teams of Hong Kong’s home carriers to gain recognition for local aircraft engineers from local and overseas professional bodies.

Certificates of Appreciation were presented by HKIE to both HAECO and HAESL in recognition of their support for and contribution to the formation of ACE.
Government and Airport Authority officials visited the HAECO booth and were greeted by HAECO CEO Augustus Tang (3rd from left) and COO Kenny Tang (right). The officials are Secretary for Labour and Welfare Matthew Cheung (left), Secretary for Transport and Housing Professor Anthony Cheung Bing-leung, (3rd from right), and Airport Authority CEO Stanley Hui (2nd from right).

**HKIA Job Expo**

HAECO participates in a range of job fairs and recruitment events as part of our commitment to the Hong Kong workforce and to help meet our own business development needs.

In August, the company took part in the Hong Kong International Airport Job Expo 2012. The airport community event was co-organised by the Airport Authority Hong Kong and the Labour Department of the Hong Kong SAR Government.

HAECO is one of the largest employers in Hong Kong and has been investing substantially in the development of aircraft engineering professionals.
HAECO publishes SD Report

The HAECO Group’s first annual Sustainable Development (SD) Report for 2011 is now available online. The report covers the Group’s three major operating companies, HAECO, TAECO and HAESL, and can be found at: http://www.haeco.com/about_haeco/development.html

The HAECO Group is committed to managing the environmental, health & safety, employment, community and supply chain issues impacted by our operations.

The report aims to provide stakeholders with an overview of the Group’s sustainable development strategies, activities and performance over the past year, as well as our future plans.
Interview with Mr. Arnaud Martin
Vice President Programmes, Airbus Corporate Jets

Q In 2011, Airbus appointed TAECO as an approved cabin completion centre for Airbus executive and private jets - the first in Asia Pacific. Can you tell us why Airbus chose to work with TAECO?

Mr. Arnaud Martin

Q Airbus Corporate Jets has some experience of working with TAECO, any comments so far?

Mr. Arnaud Martin

Q What are the main strengths of TAECO as a completion centre?

Mr. Arnaud Martin
Interview with Mr. Arnaud Martin
Vice President Programmes, Airbus Corporate Jets

Q These are challenging times for many economies around the world, how is the executive and private jet market currently performing globally?

Mr. Arnaud Martin

Q What is your view on the potential of the business aviation market in China generally, and for Airbus in particular?

Mr. Arnaud Martin
## HAECO Group Capabilities

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<tr>
<th>AIRCRAFT TYPE</th>
<th>EASA AIRFRAME MAINTENANCE</th>
<th>EASA LINE MAINTENANCE</th>
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<th>FAA LINE MAINTENANCE</th>
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Capabilities of the HAECO Group include but not limited to major aircraft types as listed above.

The Group also has approvals on aircraft, engines and components maintenance from the other regulatory authorities across Asia, Africa, the Pacific, the Caribbean and Australia, which include Australia CASA, Bahrain CAA, Bangladesh CAAB, Bermuda DCA, Canada TC, Fiji Islands CAAF, India DGCA, Indonesia DGCA, Israel CAAI, Japan JCAB, Jordan CARC, Kenya CAA, Korea MLTM, Macao SAR JMM, Malaysia DCA, Mongolia MCAA, Nepal CAA, Pakistan CAA, Papua New Guinea CAA, People’s Republic of China JMM, Philippines CAAP, Qatar CAA, Republic of China CCAA, Saudi Arabia SACAA, Singapore CAAS, South Africa SACAA, Sri Lanka CAA, Thailand DCA, United Arab Emirates GCAA, Vietnam CAAV.
Airbus MRO Network

Executive and Private Jet Cabin Completions
- Airbus-approved Completion Centre for Executive and Private Jets
- Boeing Business Jets VIP Completion Centre

Cabin Reconfiguration / Modification

Winglet Modification
- B737 / 757 / 767

Freighter Conversion
- B737-300 / 400
- B747-200 / 300 / 400
- B757-200

Engine Overhaul
- Rolls-Royce Engines (RB211 & Trent)
- GE90 Engines

Landing Gear Overhaul
- B737 / 747 / 757 / 767 / 777
- A320 / 330

Composite Repair / Overhaul
- A330 Trent 700 T/R & N/C
- A320 V2500 A5 T/R, F/C & N/C
- B737NG CFM56-7 T/R
- B777 Trent 800, GE90 – 90/94/110/115, PW4000 T/R
- B767 / 747 CF6-80C2, PW4000 T/R
- Gulfstream BRJ725 T/R, F/C & N/C

Wheels & Carbon Brakes Repair/Overhaul
- Boeing / Airbus / CRJ / EMB / MD

Tyre Retreating Services
- B737C / 737NG / 757 / 767
- CRJ100 / 200
- Bombardier -8 300/400
- Embraer 135 / 140 / 145 / 170 / 175 / 190 / 195
- Dornier 328

Aircraft Parts Production & Manufacturing
Approved under:
- HKAR-21 POA
- Boeing BQMS
- BVQI (AS9100)
- Nadcap

Design & Engineering
Approved under:
- HKAR-1 E3 Design Organisation Approval
- HKAR-21 Design Organisation Approval
- SAR-21 Design Organisation Approval
- CAAC DMDOR Designated Design Modification Organisation Approval

Maintenance Training & Examination
Approved under:
- HKAR-147
- CCAR-147
- EASA Part-147
- SAR-147
- Airbus MRO Maintenance Training Network
- Hong Kong Civil Aviation Department
Authorised Aircraft Maintenance Licence Examination Centre

Aircraft Painting

Hydrostatic Test Facility
Approved by:
- U.S.A. - DOT

Calibration Laboratory (CALMET)
- HOKLAS accredited laboratory; Mutual Recognition Arrangement through APLAC on traceability of standards
- CNAS accredited laboratory