

# HAECO | Group

e-newsletter

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# HAECO Group Services



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## Airframe Maintenance ✈️



### HAECO earns praise from Air Canada

HAECO has received a compliment from Air Canada after carrying out four Boeing 777 B checks and one A330 C8 check for the airline. The success of the project has further strengthened the longstanding business relationship between HAECO and Air Canada.

Mr. CP Lee, Regional Manager, Line Maintenance, Asia & Australia, for Air Canada, expressed his appreciation of HAECO's efforts, saying: "Thank you so much for the HAECO team's full support on the Air Canada Boeing 777 and A330 heavy checks. The team performed extremely well throughout the task. This is a very professional and knowledgeable team that demonstrated great teamwork. I have to say it is a job well done!" 🏆

## Airframe Maintenance ✈️



## Delta flat bed modification programme

Following on from the successful completion of the Boeing 767-300T flat bed modification programme for Delta Air Lines in December 2011, HAECO commenced a Boeing 767-300L flat bed modification programme for the airline in March this year. With the concerted efforts of the HAECO team, the first Boeing 767-300L prototype aircraft was completed and returned to service in May. The accomplishment marks another milestone in the long-term business relationship between Delta Air Lines and HAECO. ▽

## Airframe Maintenance ✈️



### HAECO completes first C Check for AeroLogic

On 11 April, HAECO successfully completed a C1/C3 Check on a Boeing 777 freighter belonging to German cargo carrier AeroLogic – achieving a fast turnaround time of just five days. This was not only the first C Check carried out on an AeroLogic aircraft in Asia, but also the first Boeing 777 freighter C Check completed at the HAECO facility, marking an important milestone in HAECO's airframe maintenance portfolio. ▸

## Airframe Maintenance ✈️



### TAECO welcomes return of Japan Airlines

TAECO welcomes the return of long-term customer Japan Airlines for airframe maintenance, after a gap of almost two years. To ensure premium results for the airline's Boeing 767-300, recurrent training was conducted prior to the arrival of the aircraft, which was JAL group's 165th input at the facility. TAECO successfully completed the input on time and in appreciation of a job well done, Mr. Yasuo Yoshida, Vice President of JAL Engineering Co., Ltd. (JALEC) Overseas Heavy Maintenance Management Department, presented the TAECO team with letters of appreciation. TAECO's CEO, Mr. Patrick Healy, and Operations Director, Mr. Louis Lai, took the opportunity to encourage TAECO staff to work closely with customers in order to consistently deliver quality aircraft engineering services. ▶

## Airframe Maintenance ✈️



## New customers for STAECO

At the beginning of 2012, Taikoo (Shandong) Aircraft Engineering Co. Ltd. (STAECO) entered into a contract with Philippine Airlines to perform C checks on three A320 aircraft. This was the first time the airline had outsourced maintenance work on its A320 fleet.

STAECO completed two more airframe maintenance inputs in late-March, including one A320 lease-return check for Air China, and one C check for J-Air – a subsidiary of Japan Airlines. Air China's A320 lease-return check input required 100 days of aircraft ground time, and marked the commencement of a C check contract between STAECO and China's national flag carrier.

Redelivered to the airline by STAECO on 30 March, J-Air's aircraft was also the first in a series of C Check inputs by the airline. To date, STAECO has established business relationships with eight different Japanese airlines. ▶



## Airframe Maintenance ✈️

### STAECO receives additional type approvals

In April, STAECO received additional type approvals from Vietnamese, Indonesian and European authorities.

STAECO has obtained Part 145 certification from the Civil Aviation Administration of Vietnam (CAAV) for the Boeing 737 series, Airbus A320 series and the Bombardier CRJ900, as well as Part 145 certification from the Directorate General of Civil Aviation (DGCA) of the Ministry of Transportation, Republic of Indonesia for the Boeing 737 series and Airbus A320 series. In addition, STAECO has received approval from the European Aviation Safety Agency (EASA) to perform airframe maintenance services on Bombardier CRJ200/700 regional jets. These new certifications will bring clear benefits for STAECO's future business development, by widening the company's potential customer base. ▽



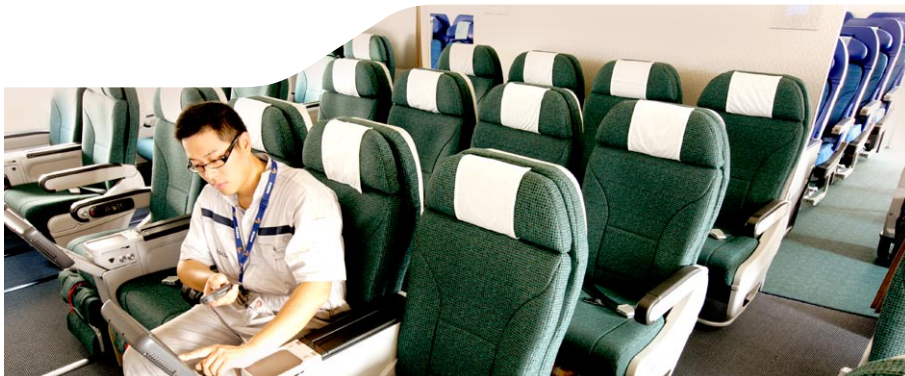
### STAECO gains new approvals for Global Express

In April, STAECO received approval from the Civil Aviation Administration of China (CAAC) to perform airframe maintenance work on Bombardier Global Express (BD-700-1A10) business jets. The company is certified to perform services including 36M checks, and component overhaul on batteries and wheels. On 22 April, STAECO completed its first C check on a Global Express business jet.

STAECO has established itself as a leading MRO service provider for business jets in Mainland China, offering total-care solutions for its customers that include airframe maintenance, Fleet Technical Management (FTM), components and modification. ▽



## Cabin Reconfiguration ✈️



### HAECO completes first Premium Economy Class Reconfiguration for Cathay Pacific

In April, HAECO completed its first Premium Economy Class Reconfiguration on a Boeing 747-400 aircraft (registration B-HUG) for Cathay Pacific Airways. A product of effective cooperation between Cathay Pacific, OEMs and HAECO, the successful completion marks another milestone in HAECO's close business relationship with Cathay Pacific.

Enhancing passenger comfort and space, the new Premium Economy Class is Cathay Pacific's answer to the ever-changing needs of its passengers. The new seats will be installed on Cathay Pacific's long-haul aircraft including the Boeing 777-300ER, 747-400, A330-300 and A340-300 fleets. The HAECO Group will upgrade these aircraft by installing the new Premium Economy Class in rotation, and the entire programme will be completed by the end of 2013. ▸

## Cabin Completion / Design Engineering ✈



## TAECO signs contract with Las Vegas Sands

In May, Taikoo (Xiamen) Aircraft Engineering Co. Ltd. (TAECO) entered into a contract with Las Vegas Sands Corp., to perform VIP cabin reconfiguration on two Boeing 737-300s. TAECO's Completion Centre will provide Las Vegas Sands with services that include conceptual design and rendering, cabin interior parts and monument fabrication, and reconfiguration and installation. The conceptual design, parts fabrication, and installation will all be carried out at TAECO's facility in Xiamen. The first aircraft arrived at TAECO at the end of May.

TAECO is Asia's first and the only Airbus approved and Boeing licensed VIP Completion Centre and this input represents its first VIP reconfiguration contract. TAECO has been performing heavy maintenance for Las Vegas Sands Corp. since 2009. Entrusting TAECO with these reconfigurations is a natural extension of the good business relationship that has been built up over this time between the two companies. The reconfigurations will be completed by the end of 2012. ▶

## Cabin Completion / Design Engineering ✈️



### STAECO expands design engineering capabilities

In February, STAECO expanded its capabilities in design engineering by attaining Designated Modification Design Organisation Representative (DMDOR) approval and Major Design Approval (MDA) from the Civil Aviation Administration of China (CAAC). This means STAECO is now able to design and carry out modifications on aircraft. The first application of these new approvals will be to upgrade the cabins on Shandong Airlines' aircraft by designing and installing new amenity racks in the lavatories. ▽

## Freighter Conversion ✈️

### STAECO performs Passenger-To-Freighter conversions for new customers

In the first quarter this year, STAECO and PEMCO entered into an agreement with Yangtze River Express Airlines (YZR, part of the Hainan Aviation Group), and Hangzhou-based CDI Cargo Airlines (CDI) to convert a total of five 737-300 passenger aircraft to all-cargo configuration. Two of these aircraft belong to YZR, and the other three belong to CDI; the YZR aircraft are currently under modification and the remaining three aircraft have scheduled inputs in the second and third quarters of 2012. To date, STAECO has completed a total of 19 Boeing 737CL converted freighters since the launch of its freighter conversion business in 2007.

CDI is a newly established cargo operator located in Hangzhou, the capital city of Zhejiang Province. The airline is scheduled to commence operations in July, after redelivery of the first converted aircraft from STAECO. ▶



### STAECO completes first QACVR installation

In April, STAECO completed the installation of Quick Access Cockpit Voice Recorder (QACVR) devices on two Boeing 737-300 freighters. The installation project was the first of its kind under CAAC approval for Boeing 737 freighters. Shenzhen Donica Electronic Technology Co. Ltd. (DONICA) is the designated designer and manufacturer of this product and holds Modification Design Approval (MDA) from CAAC in respect of the modification. Three more aircraft are scheduled for modification later this year.

The QACVR is an electronic product designed to act as a standby unit to supplement standard Cockpit Voice Recorders (CVR). The QACVR offers longer recording-time, clearer voices, digitalised storage and simple data export procedures. The QACVR is an effective tool to monitor communications between the pilot and airport control and is an especially useful tool during investigations into safety-related issues. ▶

## Line Maintenance ✈️



### HAECO provides GSS's B747-8F fleet with full Line Maintenance support

Global Supply Systems (GSS) inaugurated its Boeing 747-8F service to Hong Kong in November 2011, HAECO was since entrusted by the cargo operator to provide full technical support in Hong Kong for its B747-8F fleet, service scope covers line maintenance certification, aircraft release, defect rectifications and Light Maintenance Visits (LMV). To date, HAECO has completed eight B747-8F Light Maintenance Visits (LMV) for the cargo operator, which is its third customer operating the new aircraft type, in addition to Cathay Pacific and Cargolux. GSS took delivery of a total of three B747-8Fs since the new jumbo freighter was introduced. ▶



### Line Maintenance “Excellent Performance Award”

In March, EVA Air presented the HAECO Line Maintenance team with an “Excellent Performance Award 2011” for its quality services and high safety standards achieved. Mr. James Chiou and Mr. Bryan Chang, General Manager and Station Manager of EVA Air, presented the Award to Mr. WM Chung, HAECO’s Assistant General Manager – Line Maintenance (Ramp Operations) at a special award presentation dinner on 2 March. ▶

## Engine Overhaul ✈️

### TEXL completes first Performance Restoration for Cathay Pacific

In May, Taikoo Engine Services (Xiamen) Co. Ltd. (TEXL) completed its first Performance Restoration on a GE90-115B engine for one of its shareholders, Cathay Pacific Airways. This is the third Performance Restoration GE90-115B engine that has been completed at the facility, with a further two inputs currently in progress.



Photo Courtesy of Cathay Pacific Airways

Mr. Christopher Gibbs, Cathay Pacific's Engineering Director, said: "We are very pleased that TEXL has successfully completed Cathay Pacific's first Performance Restoration engine. I am confident that the company will continue to deliver quality engines to Cathay Pacific in the future."

Located in Xiamen, TEXL specialises in the repair, overhaul and testing of GE90 series engines. TEXL is an authorized GE90 service provider, a GE90 Centre of Excellence and the sole holder of a GE90 GE Branded Service Agreement in Asia.

Since the first engine induction in mid-2010, TEXL has completed a total of 45 engine repairs for various operators including Cathay Pacific Airways, Emirates, EVA Airways, China Southern Airlines, Jet Airways, Thai Airways, Turkish Airlines and Air India. ▸



## HAECO named Leading Independent MRO

In April, HAECO was named “Leading Independent MRO Organisation” by the leading aviation publication, Aviation Week’s Overhaul & Maintenance. The Aviation Week MRO of the Year Awards honour the best MRO service providers around the world for pioneering achievements and value-adding accomplishments annually. The award this year underscores HAECO’s achievements in managing its Cabin Management Centre (CMC) to

support Cathay Pacific Airways, in ensuring cabin conditions are maintained to the highest quality standard. The CMC is a HAECO initiative to create synergy between all parties involved in cabin management projects, dramatically shortening service lead-times and achieving excellent outcomes. The CMC consists of a team of 50 cabin specialists made up of HAECO staff and representatives from the airline, as well as seat and inflight entertainment system vendors. ▸



## HAECO voted Best Airframe MRO Provider

In May, HAECO was voted “Best Airframe MRO Provider – Asia” at the 2012 Aircraft Technology Engineering & Maintenance (ATE&M) Awards. The ATE&M Awards recognise the best service providers and suppliers in the Maintenance, Repair and Overhaul (MRO) industry through a web-based voting process, in which the nominations and voting are determined by those working in the aviation industry. The four Airframe MRO awards – Americas, Europe, Middle East and Asia – can only be nominated by airline employees – meaning the finalists and winners can proudly proclaim themselves to be the genuine choices of the airlines. ▀

## HAECO Group executives meet with Mayor of Xiamen

On 24 May, Mayor Liu Keqing of the Xiamen Municipal Government, met with senior executives from the HAECO Group. The meeting was held at a hotel in Xiamen, and was an opportunity for Mayor Liu to introduce HAECO’s CEO, Mr. Augustus Tang, and other guests to the government’s latest strategies for Xiamen’s ongoing economic and social development. The Mayor paid tribute to the Group’s subsidiary in Xiamen – TAECO’s – rapid growth over nearly two decades, saying that TAECO has not only been a driver of Xiamen’s economic growth, but also contributed to enhancing the image of the city. Mayor Liu also expressed his appreciation to HAECO and the Swire group for their contribution to the development of Xiamen, adding that the Xiamen government will give its full support to the group for all future expansion plans in aircraft engineering and other areas.

Mr. Tang responded by assuring Mayor Liu that Xiamen has been and will continue to be the Group’s flagship aircraft engineering base in Mainland China and the HAECO Group will continue to strengthen its operations and investment in the city.

Other attendees at the meeting included Vice Mayor of Xiamen, Mr. Li Dong Liang, HAECO’s Chief Operating Officer, Mr. Kenny Tang and Commercial Director, Mr. Summit Chan and TAECO’s CEO, Mr. Patrick Healy. ▀





## TAECO exhibits at EBACE

TAECO recently took part in the 2012 European Business Aviation Convention & Exhibition (EBACE), held in Geneva from 14-16 May. This was the third year that TAECO has attended this annual event.

EBACE is one of the biggest events in the aviation industry calendar and TAECO took the opportunity to showcase its capabilities in the area of cabin completion on executive and private jets. During the three-day event, the TAECO team introduced the company to many potential new customers, vendors and OEMs. China is emerging as one of the world's most rapidly developing aviation markets, and as TAECO is the only Airbus approved and Boeing licensed completion centre in the region, it received a great deal of interest at the event, with a constant stream of visitors to its booth. ▶



## 5 Year+ Caring Company

HAECO has received a "5 Year+ Caring Company" accreditation from The Hong Kong Council of Social Service (HKCSS), in recognition of its efforts to operate along sustainable lines and its strong commitment to corporate citizenship. Organised by HKCSS, the Caring Company Scheme aims to build a cohesive society by promoting strategic partnerships amongst businesses and social service partners. For more than five years, HAECO has consistently demonstrated responsible corporate citizenship by encouraging and supporting its staff to participate in voluntary services aimed at assisting children, young people and other groups in need, and by offering training and placement opportunities for vulnerable people. ▶



## HAECO and HAESL pedal hard for charity

On 11 and 12 February, teams from HAECO and HAESL joined the Hong Kong 24-hour Charity Pedal Kart Grand Prix, held in Victoria Park. This annual event is organised by the Association of Round Tables to raise funds for various charities in Hong Kong, Mainland China and around the globe.

This year, the HAECO team, was named "HAECO Funtier". With over 30 staff taking part as pedallers, coaches and the support team, the Funtier took home the Championship in the Formula Fun race, at the

same time setting the fastest lap by a fun kart in the event. HAESL's two teams – "HAESL Rollers" and "HAESL Fun" meanwhile acquitted themselves well in the F1 race and fun kart race respectively. In the hope of raising more money for the needy, HAESL staff also organised a charity sale of snacks prior to the race.

With the generous support of customers, business partners and staff, as well as the countless efforts of the pedallers, the two companies raised a total of over HK\$110,000 for charity. ▀



## BT Outward Bound Adventure Race

On 11 March, five HAESL teams took part in the BT Outward Bound Adventure Race 2012. Team members included staff from Customer Business, Engine Overhaul / Technical Services, Component Repair, Management Team / General Managers and Technical Services / Field Support Office.

The first challenge was the weather, which on the day was wet and cold, with temperatures as low as 10°C – very different to the previous year. The 16km course began and finished in Sai Kung, by way of the Ma On Shan saddle and the famous Trio Beach. Adding

difficulty to the already tough course, this year's participants were required to trek through waterfalls, paddle kayaks, and to find their way through drainage channels.

Everyone who participated in the event deserves to be called a “winner” for overcoming this challenging adventure under the very difficult weather conditions, but out of the five HAESL teams, three finished the course with very respectable times – including two award-winners. ▶



# HAECO Group Capabilities

AIRCRAFT TYPE	EASA		FAA		HKCAD / CAAC	
	AIRFRAME MAINTENANCE	LINE MAINTENANCE	AIRFRAME MAINTENANCE	LINE MAINTENANCE	AIRFRAME MAINTENANCE	LINE MAINTENANCE
A300 / A310		✈ ✈	✈	✈		✈ ✈
A319 / A320 / A321	✈ ✈ ✈	✈ ✈	✈ ✈ ✈	✈	✈ ✈ ✈ ✈	✈ ✈ ✈ ✈
A330	✈ ✈	✈ ✈	✈	✈ ✈	✈ ✈	✈ ✈ ✈
A340	✈ ✈	✈ ✈			✈ ✈	✈ ✈
A380						✈
B737	✈ ✈	✈	✈ ✈ ✈	✈ ✈	✈ ✈	✈ ✈ ✈ ✈
B737NG	✈		✈ ✈ ✈	✈ ✈	✈ ✈	✈ ✈ ✈
B747-200 / 300	✈ ✈	✈ ✈	✈ ✈	✈ ✈	✈ ✈	✈ ✈
B747-400	✈ ✈	✈ ✈	✈ ✈	✈ ✈	✈ ✈	✈ ✈
B747-8		✈ ✈	✈	✈	✈	✈
B757	✈ ✈	✈ ✈	✈	✈	✈ ✈	✈
B767	✈ ✈	✈ ✈	✈ ✈	✈ ✈	✈ ✈	✈
B777	✈ ✈	✈ ✈	✈	✈ ✈	✈ ✈	✈ ✈
MD11	✈	✈ ✈	✈	✈ ✈	✈	✈
CL-600	✈				✈	✈ ✈
CL604-605					✈	✈
SAAB340B					✈	✈
BD-700-1A10					✈	✈
G450						✈

Capabilities of the HAECO Group include but not limited to major aircraft types as listed above.



**HAECO**  
Hong Kong Aircraft  
Engineering Co. Ltd.



**TAECO**  
Taikoo (Xiamen) Aircraft  
Engineering Co. Ltd.



**STAECO**  
Taikoo (Shandong) Aircraft  
Engineering Co. Ltd.



**SCTAECO**  
Taikoo Sichuan Aircraft  
Engineering Services Co. Ltd.

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, Indonesia DGCA, Israel CAAI, Japan JCAB, Jordan CARC, Kenya CAA, Korea CASA, Macao SAR AACM, Malaysia DCA, Mongolia CAA, Nepal CAA, Pakistan CAA, Papua New Guinea CAA, People's Republic of China CAAC, Qatar CAA, Republic of China CCAA, Singapore CAAS, South Africa SACAA, Sri Lanka CAA, The Fiji Islands CAAFI, The Philippines CAAP, Thailand DCA, Vietnam CAAV, United Arab Emirates GCAA.



### 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

- A320 / A330 / B737C / B737NG / 747 / 757 / 767 / 777

##### 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

#### Non Destructive Testing (NDT)

#### 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

