

YOUR RELIABLE MRO PARTNER



SIA Engineering Company (SIAEC) is a leading aircraft maintenance, repair and overhaul (MRO) provider based in Singapore. We offer extensive MRO services on current and new generation widebody and narrowbody aircraft. Our portfolio of subsidiaries and joint ventures, forged with leading original equipment manufacturers (OEMs), complements our core competencies and enhances our suite of MRO services and network support to airlines worldwide.

>80

international carriers

>20

subsidiaries and joint ventures

>25

approvals from national aviation regulatory authorities

OUR SERVICES



Base Maintenance



Cabin Solutions



Component Services



Fleet Management



Engine Services



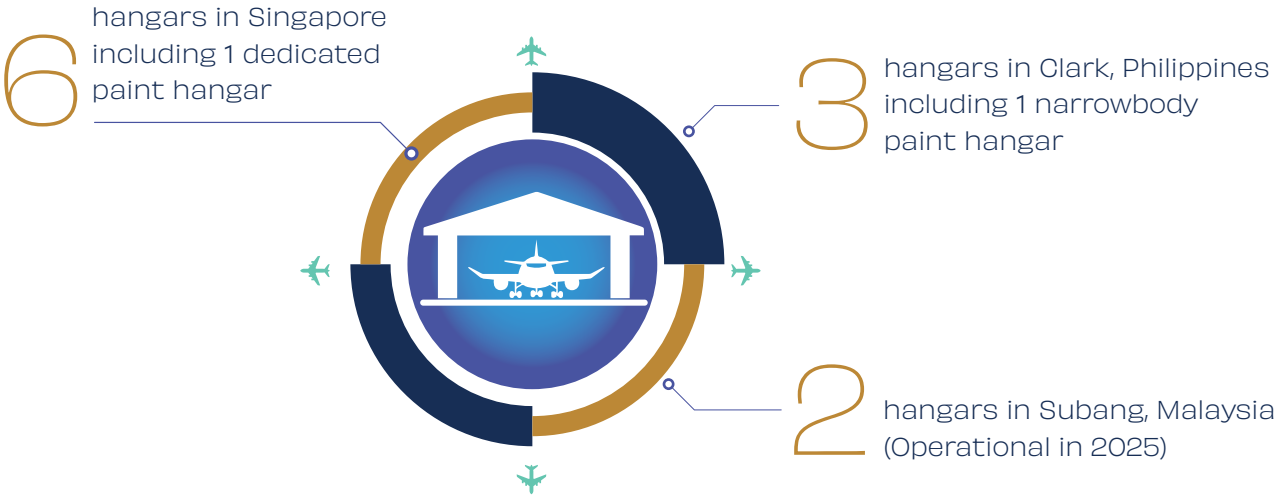
Line Maintenance



BASE MAINTENANCE

The importance of aircraft maintenance in aviation cannot be overstated. We understand the needs of our customers to ensure airworthiness and high-quality maintenance of their aircraft.

From scheduled aircraft maintenance to complete airframe structural repairs and modifications, we possess extensive maintenance experience and capabilities for both current and next-generation Airbus, Boeing and Embraer aircraft types. With more than 25 national aviation regulatory approvals, our services cater to airlines based in Asia Pacific, Europe and the US. We take pride in delivering high-quality maintenance work safely and in competitive turnaround time.



BASE MAINTENANCE >

Our Services

- Scheduled aircraft heavy maintenance up to 'D' checks
- Airframe structural inspection, repairs and modification
- Major aircraft defect rectification/ major component change
- Aircraft preservation and parking
- Aircraft transition services
- Aircraft painting
- Aerostructure composite repairs
- Non-destructive testing
- Calibration laboratory



Our Capabilities

Airbus

- A320neo
- A320ceo
- A330neo
- A330ceo
- A340
- A350
- A380

Boeing

- 737 NG
- 737 MAX
- 747
- 747F
- 777
- 777F
- 787

Embraer

- E170/175
- E190/195

Our Subsidiaries and Joint Ventures

- SIA Engineering (Philippines)
- Base Maintenance Malaysia (Operational in 2025)



BASE MAINTENANCE >

Aircraft Painting

Since 2012, our purpose-built and dedicated paint hangar has been instrumental in providing our airline customers with superior services for stripping and repainting the exteriors of their aircraft. The paint hangar is fully furnished with telescopic platforms, docking and an air circulation system to uphold the highest painting standards. It is completely enclosed using the MEGADOOR™ system and can house Airbus and Boeing aircraft.

Aerostructure Composite Repairs

Our specialised workshops are designed to manage a variety of aerostructure composite repairs and overhaul, including but not limited to radome, aircraft nacelle, thrust reverser, inlet cowl and fan cowl. We also have extensive capabilities to repair structures like flap, fairing and door, as well as fabricate metal parts such as shell cover and flight spare box.

All repairs are conducted in compliance with the approved maintenance manual. In addition, we are an authorised vendor for Boeing 787 Wing/H-stab paint restoration warranty repairs.

Non-Destructive Testing

Non-Destructive Testing (NDT) is crucial in identifying defects, enabling us to perform necessary repairs before these defects escalate into serious problems. Our team of trained inspectors is committed to ensuring that no cracks, leaks, or rust go unnoticed. We hold an ISO 17025 accreditation for NDT services, underscoring our dedication to maintaining high-quality standards.

Our Services

- Radiography
- Eddy current
- Liquid penetrant
- Engine borescope inspection
- Ultrasonic
- Magnetic particle
- Infrared thermography

Calibration Laboratory

Our calibration laboratory is accredited with ISO 17025, reflecting our commitment to maintain the highest industry standards. All equipment are calibrated to meet the industry's stringent standards, ensuring our customers use precise and calibrated tools for the safety of their aircraft.

We have the capability to calibrate equipment across five categories:

- Pressure
- Dimension
- Electrical
- Force
- Temperature

CABIN SOLUTIONS

In the competitive aviation industry, airlines are constantly seeking to provide the best cabin standards and innovative cabin solutions to attract passengers and elevate the in-flight experience.

Working in tandem with our subsidiary, JADE Engineering, we provide tailored cabin modification solutions to our airline customers. Our comprehensive cabin reconfiguration turnkey solution encompasses programme management, structural, electrical and system engineering design, certification, technical publications, onsite support, embodiment and after sales/spare support. We also provide CAAS, EASA and FAA Supplemental Type Certificates (STC) or minor change approvals for our modification solutions.

Our Services

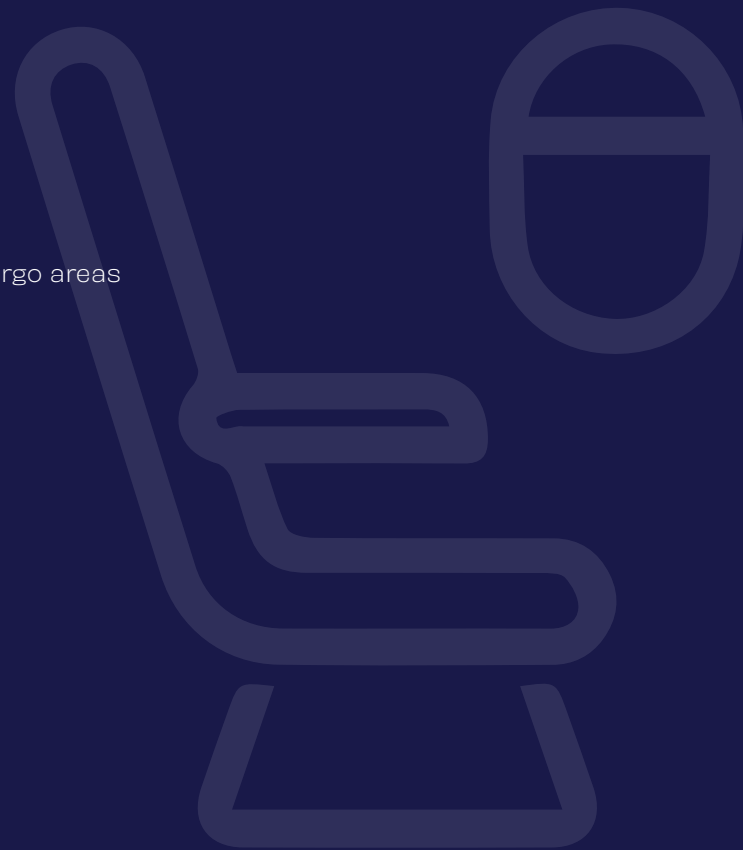
- Aircraft survey and improvement recommendation plan
- Development, management and integration of customised cabin maintenance programme
- Aircraft cabin interior design, engineering, certification to support aircraft interior modification and retrofit
- Manufacture, kitting, maintenance and repair of aircraft interior furnishing and equipment
- Refurbishment of aircraft interiors
- Galley, lavatory, closet and seat modification
- Defects and aesthetic rectification
- In-Flight Entertainment and Communications (IFE/C) system retrofit and modification
- 3D printing and fabrication of cabin interior parts
- Cleaning, disinfection and disinsection of cabin, cockpit and cargo areas

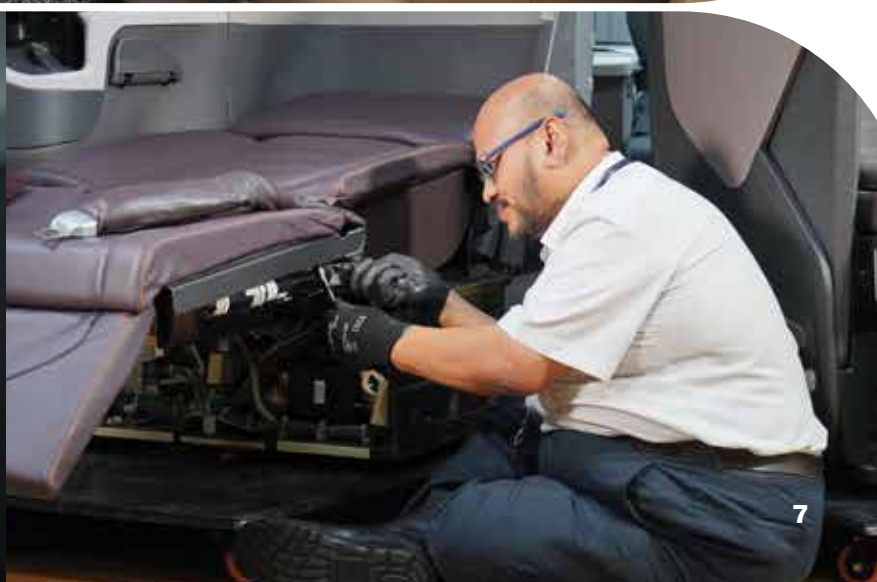
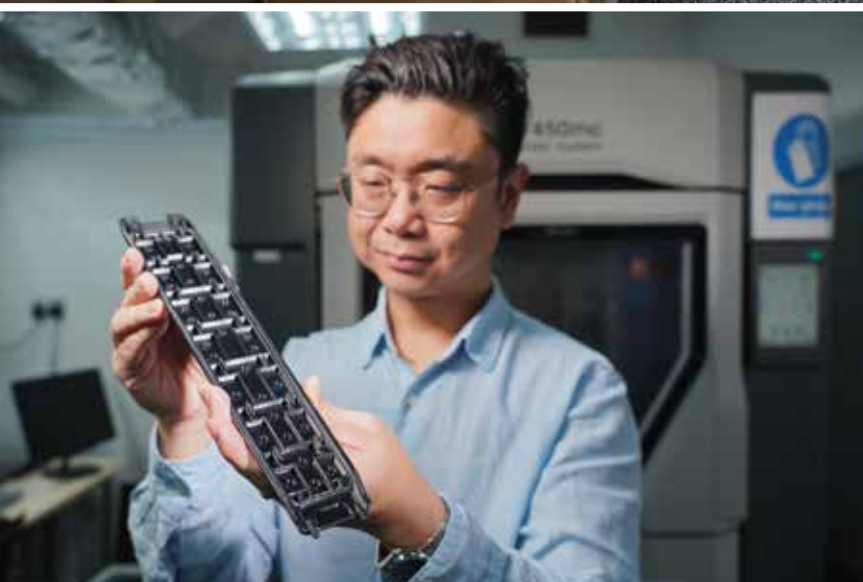
Approvals

- CAAS DOA
- CAAS SAR 21 POA
- EASA DOA
- EASA PART 21 POA

Our Subsidiaries and Joint Ventures

- JADE Engineering

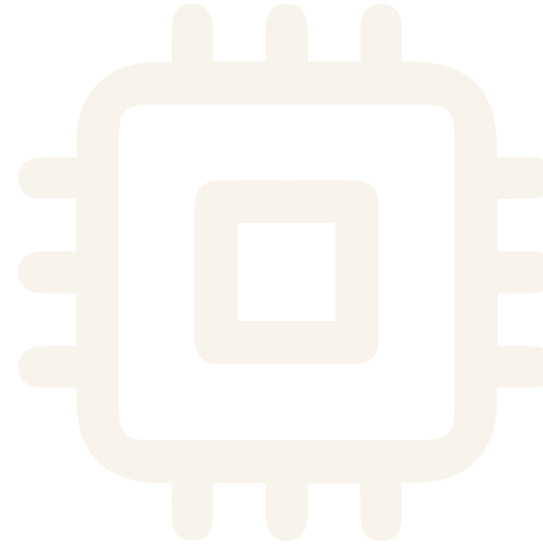




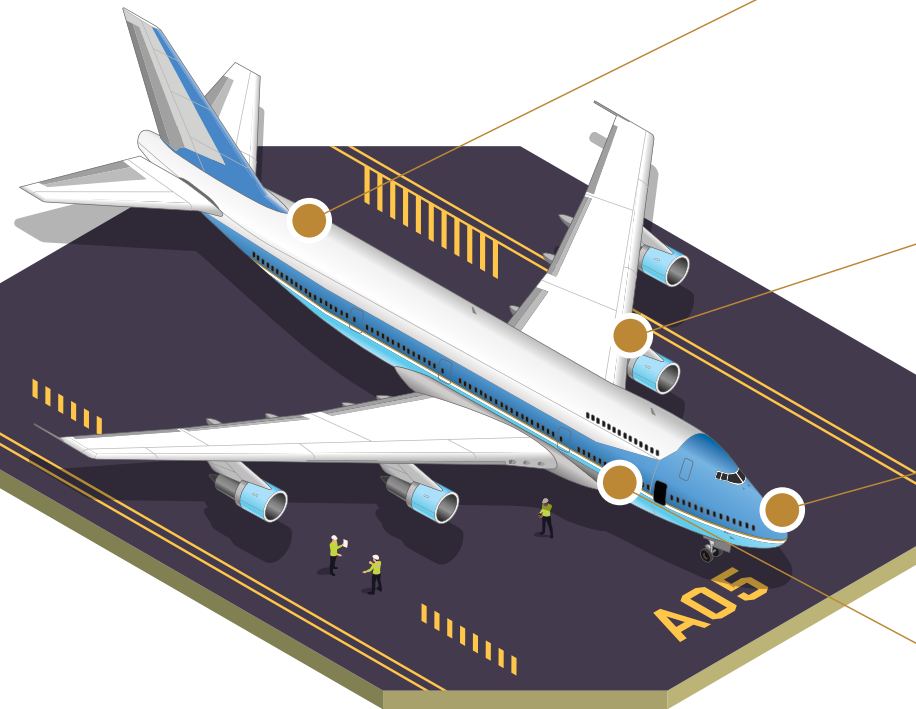
COMPONENT SERVICES

As a leading aircraft component MRO repair centre, we offer comprehensive component repair and overhaul capabilities, bolstered by our network of in-house workshops and strategic alliances with OEMs.

Our network of component MRO joint ventures are equipped with the latest equipment to test, repair and overhaul more than 30,000 aircraft and engine-related components on the latest Airbus and Boeing fleet.



Key Aircraft Systems and Components



Airframe

- Flight control actuator, power control unit and landing gear actuator
- Fuel accessories
- Hydraulic and pneumatic valve and pump
- Landing gear
- Power drive unit
- Slide raft
- Wheels and brakes

Engine

- Engine accessories
- Fuel components installed on engines and APUs
- Jet fuel control
- Pre-Cooler Control Valve
- Thrust reverser

Avionics

- Air Data Inertial Reference Unit (ADIRU)
- Avionics and electrical components
- Audio control panel
- Flight control system

Interior

- Cargo Refrigeration Unit (CRU)
- Cockpit seat
- Galley inserts
- Oxygen bottle and fire extinguisher
- Supplemental Cooling Unit (SCU)
- Lavatory
- Ventilation fan
- Galleys and monuments

Our Capabilities

Airbus

- A320neo
- A320ceo
- A330neo
- A330ceo
- A340
- A350
- A380

Boeing

- 737 NG
- 737 MAX
- 747
- 747F
- 777
- 777F
- 787

In partnership with key OEMs, we are the authorised repair centres for Airbus, Collins Aerospace, Moog, Parker Aerospace, Pratt & Whitney, Safran and Rolls Royce. Under such an arrangement, we provide an extensive range of repair and overhaul services covering major systems such as hydraulics, flight controls, fuel and engine systems.

Our broad array of flexible and customisable solutions is designed to meet the unique needs and demands of our airline customers.



Our Subsidiaries and Joint Ventures

- Aerospace Component Engineering Services Pte Ltd (ACES)
- Asia Pacific Aircraft Component Services Sdn Bhd (APACS)
- Fuel Accessory Service Technologies Pte Ltd (FAST)
- Goodrich Aerostructures Service Center-Asia (GASCA)
- Moog Aircraft Services Asia Pte Ltd (MASA)
- Safran Electronics & Defense Services Asia Pte Ltd (SEDSA)
- Safran Landing Systems Services Singapore Pte Ltd (SLSSS)



FLEET MANAGEMENT

Our Fleet Management Programme offers integrated and seamless Fleet Technical Management (FTM) and Inventory Technical Management (ITM) solutions, ensuring efficient operation and maintenance of aircraft. We support both narrowbody and widebody aircraft, as well as various engine types.

With our extensive experience supporting numerous airlines globally over the years, we provide comprehensive care for our customers' maintenance and engineering needs.

Fleet Technical Management (FTM)

- Maintenance planning
- Configuration control
- Technical engineering services
- Quality systems and process audits
- Fleet performance and reliability management
- Defect troubleshooting and management

Inventory Technical Management (ITM)

- 24/7 dedicated component AOG desk
- Component pooling, repair and overhaul
- Material planning and provisioning
- Vendor sourcing and purchasing
- Logistics and supply chain management
- Warranty management

Transition Check Management (TCM)

From the preparation and management of technical records to the handling of physical defects, we support our customers in ensuring a smooth redelivery of their aircraft, while keeping cost under control. Our expertise in lease return management ensures a hassle-free process for our customers.



ENGINE SERVICES

To ensure safe operation and optimal engine time on-wing, we provide a comprehensive suite of engine solutions through our in-house shops and strategic alliances with leading engine OEMs such as Rolls-Royce, Pratt & Whitney, Safran Aircraft Engines and GE Aerospace. These partnerships enable us to support a broad spectrum of existing and next-generation engine types.

We offer both on-wing and off-wing support, along with quick turn services. As part of our general engine maintenance, we support our customers during lease in, lease return and during transition of lease engines. Furthermore, our team of specialists is always ready for immediate deployment to address any engine-related issues onsite.

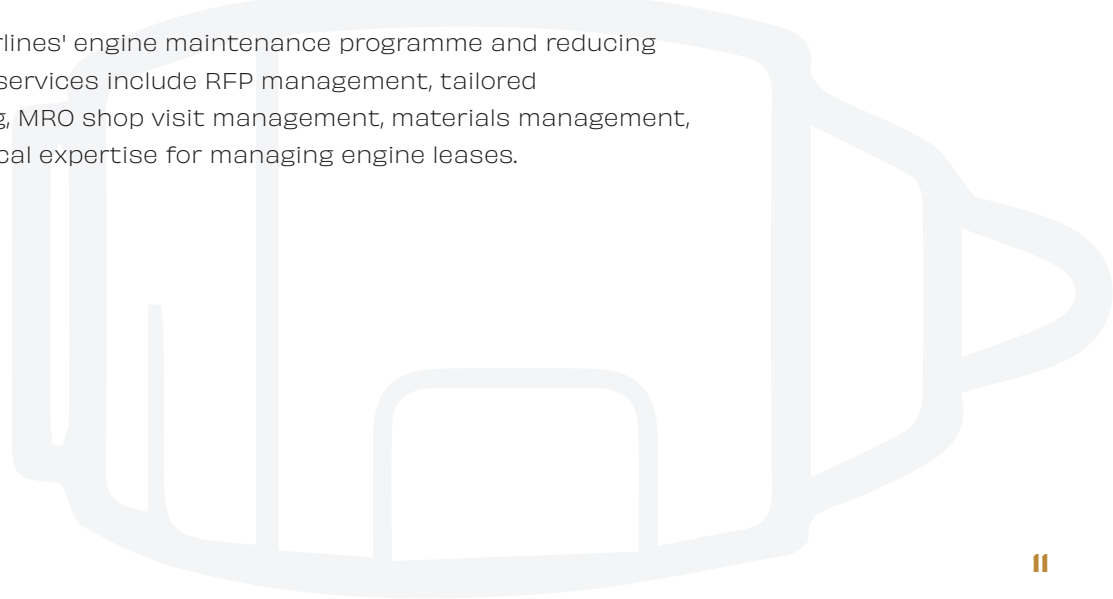
Our Services

- Engine change
- QEC and LRU removal/ installation
- Engine preservation
- Engine storage
- Engine wash
- Pre/ Post lease inspection
- Inventory checks
- Propulsor-Fan case joint/ split
- Engine inspection
- Engine test
- Engine defect rectification
- Boroscope inspection/ Blending
- MPD task
- AD/ SB incorporation

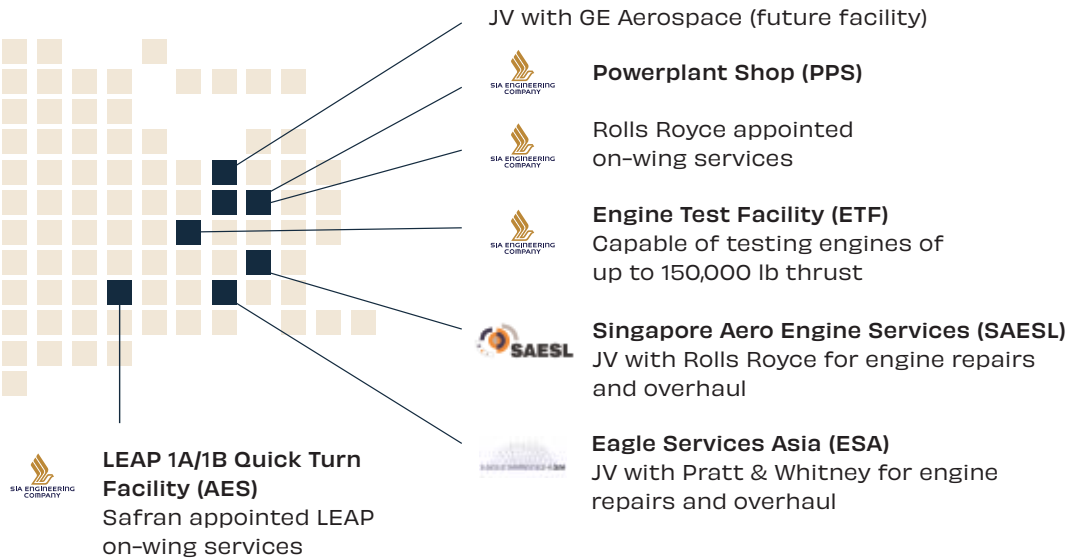
Engine Maintenance Programme Management

Our consulting service focuses on addressing customers' most critical engine issues.

We aid in reviewing and optimising airlines' engine maintenance programme and reducing unnecessary engine shop visits. Our services include RFP management, tailored workscoping, engine removal planning, MRO shop visit management, materials management, dedicated onsite support and technical expertise for managing engine leases.



Strong OEM Alliances through JV Partners



Our Capabilities

GE

- GE90 Series
- GENx Series
- CF6 Series

CFMI

- CFM56 Series
- LEAP Series

IAE

- IAE V2500

Rolls-Royce

- Trent 500
- Trent 700
- Trent 800
- Trent 900
- Trent 1000
- Trent 7000
- Trent XWB
- RB211

Pratt & Whitney

- PW2000
- PW4000

Engine Test Facility Test Capabilities

- Rolls Royce – Trent 700, 800, 900
- Engine Alliance – GP7200
- CFMI – LEAP 1A
- Pratt & Whitney – PW4000 – 112"
- General Electric – GE90

Our Subsidiaries and Joint Ventures

- Component Aerospace Singapore (CAS)
- Eagle Services Asia (ESA)
- Singapore Aero Engine Services (SAESL)
- Turbine Coating Services (TCS)



LINE MAINTENANCE

We recognise the importance of ensuring safe and on-time departure of aircraft. As the leading line maintenance service provider, our qualified engineering teams are committed to providing safe and high quality engineering solutions to ensure high dispatch reliability. We are also appointed as the sole Disabled Aircraft Recovery service provider at Singapore Changi International Airport.

Our 24/7 Quick Action Team comprises technically competent and experienced engineers and technicians who are able to respond swiftly and support AOG situations including engine or any other major component changes. This is complemented by our round-the-clock Customer Response Centre which manages and coordinates AOG situations in Singapore or overseas.

Our Services

- Transit certification and defect rectification
- Technical ramp services for arrival/departure handling
- Provision of ground support equipment
- Light maintenance up to 'A' checks
- Engine change, thrust reverser change and other major component changes
- Aircraft interior cleaning (cabin, cockpit and carpet deep cleaning) and other ancillary services
- Exterior aircraft, landing gear and engine wash
- Integrated pest management and residual disinsection
- 24/7 AOG rescue worldwide

Our Capabilities

Airbus

- A320neo
- A320ceo
- A330neo
- A330ceo
- A350
- A380

Boeing

- 737 NG
- 737 MAX
- 747
- 767
- 777
- 787

Embraer

- E190



Our Global Line Maintenance Network

Beyond Singapore, we uphold the same dedication to ensuring high dispatch reliability and swift response to any defects that arise during flight handling for immediate troubleshooting and rectification.

Our team of experienced engineers, backed by our strong capabilities and extensive global network, stands ready to support our airline customers worldwide.

Over **30** airports in **8** countries

>3,000 engineers and technicians

>80 international carriers

>25 approvals from national aviation regulatory authorities



Our Subsidiaries and Joint Ventures

- Pan Asia Pacific Aviation Services (Hong Kong)
- Pos Aviation Engineering Services (Malaysia)
- PT JAS Aero-Engineering Services (Indonesia)
- SIA Engineering (Japan)
- SIA Engineering (Philippines)
- SIA Engineering (USA)
- Southern Airports Aircraft Maintenance Services (Vietnam)
- Line maintenance partnership in Cambodia
- Line maintenance partnership in Korea



SIA Engineering Company Ltd

31 Airline Road

Singapore 819831

Email: siaec_commercial@singaporeair.com.sg

www.siaec.com.sg