

A340-200/-300 technical support providers

The A340-200/-300 operates in limited numbers. This survey highlights the capabilities and services the major technical support providers.

The A340-200/-300 are clearly niche aircraft, with just 240 in service. This limits the potential third-party technical support market. The fleet is spread over a wide operator base, with 37 different airlines across the world. The average fleet therefore comprises just six aircraft. There are only another 12 aircraft on order. Most operators are European, with Air France, Iberia and Lufthansa having the largest fleets. The next largest fleet is in the Middle East and Africa, with 11 operators. All have medium-sized fleets.

This survey summarises the major aftermarket and technical support service providers for the A340-200/-300 family. It is grouped into seven sections covering the categories of technical support offered by each of the providers: engineering management and technical support (see table, page 33); line and light maintenance (see first table, page 34); base maintenance (see second table, page

34); engine maintenance (see first table, page 36); spare engine support (see second table, page 36); rotables & logistics support (see first table, page 37); and heavy component maintenance and support (see second table, page 37).

In some cases, companies are listed in most or all of the seven sections, and such organisations can loosely be referred to as one-stop-shop service providers for the A340-200/-300 family. This means that they provide most, if not all, the technical services that a third-party customer would require. These services include: maintenance and engine management; line and light maintenance; base and heavy airframe checks; interior refurbishment; stripping and repainting, engine maintenance management and engine shop visits; repair and overhaul of major components; and rotatable inventory supply and management services. In addition to this, spare engine leasing support services are also provided.

The providers that offer a complete range of services for the A340-200/-300 are Air France Industries, Iberia Maintenance and Lufthansa Technik. This is hardly surprising given the the scale of their maintenance capabilities and the size of their fleets.

The ability to provide one-stop services is rare, given the degree of specialisation of technical support and maintenance providers. Besides the major elements of line and base maintenance, and engineering management, most other technical support activities are specialised and are offered by few providers. These specialised activities include: interior refurbishment; stripping and painting; engine health monitoring; maintenance and maintenance management; auxiliary power unit (APU) shop visits and testing; landing gear overhaul and exchanges; and complete rotatable logistics and support services.

SR Technics and TAP Maintenance & Engineering provide virtually all the technical services of a one-stop shop for the A340-200/-300. The only services that they do not provide are the specialised activities of landing gear overhauls and exchanges.

European providers

As described, Europe's largest operators are Air France, Iberia and Lufthansa. These three airlines have third-party maintenance support partners that offer the most comprehensive levels of support for A340-200/-300 operators. Lufthansa Technik not only offers all services for the aircraft, but its network of services and facilities is well known. Besides its facilities in Germany, examples

A340-200/-300 ENGINEERING MANAGEMENT & TECHNICAL SUPPORT

	Outsourced engineering service	Maint records service	DOC & manuals manage	Maint prog manage	Reliability stats	AD/SB orders manage	Check planning	Config & IPC manage	Total tech support
Air Canada Technical Services	Yes	~	Yes	~	~	~	~	~	~
Technical Services (ACTS)									
Air France Industries	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Airbus	~	~	Yes	~	Yes	~	~	Yes	~
GAMCO	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Iberia Maintenance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik Philippines	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Messier Services	Yes	Yes	Yes	Yes	Yes	~	Yes	~	Yes
SAA Technical	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sabena Technics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIA Engineering Company	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SAS Component	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SAS Technical Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SR Technics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TAP M&E	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Triumph Group	~	~	~	~	Yes (APUs)	Yes	~	~	~

A340-200/-300 LINE & LIGHT MAINTENANCE SUPPORT

	Maint operations control	AOG support	Line checks	A checks	Engine QEC changes	Engine changes	Landing gear changes	APU changes	Thrust reverser changes
Air Canada Technical Services (ACTS)	~	Yes	~	Yes	~	Yes	Yes	Yes	Yes
Air France Industries	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Airbus	~	Yes	~	~	~	~	Yes	Yes	Yes
Ameco Beijing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AVTRADE	~	Yes	~	~	~	~	~	~	~
GA Telesis	~	Yes	~	~	Yes	Yes	~	~	~
GAMCO	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Iberia Maintenance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interturbine Logistik	~	Yes	~	~	~	~	~	~	~
Lufthansa Technik	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik Philippines	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Messier Services	Yes	Yes	~	~	~	~	Yes	Yes	~
SAA Technical	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sabena Technics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SAS Technical Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIA Engineering Company	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Snecma Services	~	~	~	~	Yes	Yes	~	~	~
SR Technics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TAP M&E	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Triumph Group	~	Yes (APUs)	~	~	~	~	~	~	~
Turkish Technic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

A340-200/-300 BASE MAINTENANCE SUPPORT

	C checks	IL/ 5-year checks	D/ 10-year checks	Interior refurb	Strip & paint
Air Canada Technical Services (ACTS)	Yes	Yes	Yes	Yes	Yes
Air France Industries	Yes	Yes	Yes	Yes	Yes
Air Mauritius	Yes	Yes	Yes	Yes	Yes
Ameco Beijing	Yes	Yes	Yes	Yes	Yes
GAMCO	Yes	Yes	Yes	Yes	Yes
Iberia Maintenance	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik Philippines	Yes	Yes	Yes	Yes	Yes
SAA Technical	Yes	Yes	Yes	Yes	Yes
Sabena Technics	Yes	Yes	Yes	Yes (104)	Yes
SAS Technical Services	Yes	Yes	Yes	Yes	Yes
Shanghai Technologies (STARCO)	Yes	Yes	Yes	Yes	Yes
SIA Engineering Company	Yes	Yes	Yes	Yes	Yes
SR Technics	Yes	Yes	Yes	Yes	Yes
ST Aviation Services (SASCO)	Yes	Yes	Yes	Yes	Yes
ST Mobile (MAE)	Yes	Yes	Yes	Yes	Yes
TAP M&E	Yes	Yes	Yes	Yes	Yes
Triumph Group	~	~	~	backshops	n/s
Turkish Technic	Yes	Yes	Yes	Yes	Yes

of Lufthansa Technik's facilities are Lufthansa Technik Philippines (LTP) in the Asia Pacific, and Ameco Beijing, which is its joint venture with Air China.

Other major technical support providers in Europe include Sabena Technics, TAP Maintenance &

Engineering, SR Technics, SAS Technical Services and Turkish Technic.

TAP has a small fleet of four aircraft, but TAP Maintenance and Engineering still provides almost all technical services for the A340. The exceptions are shop visit maintenance for the GTCP 331-350

APU and landing gear overhaul and exchange services. TAP Maintenance & Engineering has a long history of providing all levels of maintenance and technical support for TAP's fleet.

SR Technics is a similarly-sized technical support services provider that has built up an extensive technical support capability. Traditionally SR Technics has received about half its business from its previous partner airline Swissair, although it now receives a smaller proportion of its maintenance activity from Swiss Airlines, and a larger share from third-party airlines.

Sabena Technics is a product of the original maintenance and engineering division of Sabena, TAT Industries, Sogerma. Sabena operated A340s prior to its bankruptcy, so Sabena Technics inherited a large A340 maintenance capability. Sogerma's hangars in Bordeaux are some of Europe's largest widebody base maintenance facilities. Sabena Technics also has a facility at Brussels.

SAS Technical Services, the maintenance and engineering division of SAS, is an airframe specialist provider, providing a full range of engineering management, line and light maintenance, base maintenance, interior refurbishment; and stripping and painting.

SAS Component is a joint venture between SAS Technical Services and Singapore Technologies Aerospace. SAS Component is a well-known major component repair and maintenance provider, offering services for wheels, brakes and thrust reversers. It is also one

A340-200/-300 ENGINE MAINTENANCE (CFM56-5C)

	Engine health monitor	Engine maint manage	On-wing engine maint	Engine shop visits	Parts repair schemes
Air Canada Technical Services (ACTS)	Yes	Yes	Yes	Yes	Yes
Air France Industries	Yes	Yes	Yes	Yes	Yes
Air Mauritius	Yes	Yes	Yes	Yes	Yes
Ameco Beijing	Yes	Yes	Yes	~	~
GA Telesis	Yes	Yes	~	~	~
GAMCO	Yes	Yes	Yes	~	Yes
GE Aviation Engine Services	Yes	Yes	Yes	Yes	Yes
Iberia Maintenance	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik Philippines	Yes	Yes	Yes	~	~
Pratt & Whitney (Eagle Services)	Yes	Yes	Yes	Yes	Yes
SAA Technical	Yes	Yes	Yes	line	~
Sabena Technics	Yes	Yes	Yes	~	~
Snecma Services	Yes	Yes	Yes	Yes	Yes
SR Technics	Yes	Yes	Yes	Yes	Yes
TAP M&E	Yes	Yes	Yes	Yes	Yes
Total Engine Support	Yes	Yes	Yes	~	~
Turkish Technic	Yes	Yes	Yes	Yes	~

A340-200/-300 SPARE ENGINE SUPPORT PROVISIONING (CFM56-5C)

	On-wing support	AOG services	Short-term leases	Med/long-term leases	Engine pooling
Air Canada Technical Services (ACTS)	Yes	Yes	~	~	~
Air France Industries	Yes	Yes	Yes	Yes	Yes
Ameco Beijing	Yes	~	~	~	~
Engine Lease Finance	~	~	Yes	Yes	Yes
GA Telesis	Yes	Yes	Yes	Yes	Yes
GAMCO	Yes	Yes	Yes	Yes	Yes
Iberia Maintenance	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik Philippines	Yes	Yes	~	~	~
SAA Technical	Yes	Yes	~	Yes	Yes
Shannon Engine Support	~	~	Yes	Yes	Yes
Snecma Services	Yes	Yes	Yes	Yes	Yes
SR Technics	Yes	Yes	Yes	Yes	Yes
TAP M&E	Yes	Yes	Yes	Yes	Yes
Triumph Group	~	accessories	~	~	~
Turkish Technic	Yes	Yes	Yes	Yes	~
Willis Lease	~	Yes	Yes	Yes	~

of the few companies that can provide full, turn-key rotatable support packages for the A340-200/-300.

Turkish Technic in Istanbul is the maintenance and engineering division of Turkish Hava Yollari (THY) Airlines, which has seven A340-300s. Turkish Technic provides all line, light and base maintenance services, and has a comprehensive engine and component capability. It provides all engine services, except repair schemes for parts, as well as

most engine support services, including short- and long-term leasing.

Middle East & Africa

The two most prominent technical support providers in the Middle East and Africa are: Gamco, Abu Dhabi, UAE; and SAA Technical, Johannesburg, South Africa.

Gamco is best known for its support of Gulf Air's fleet, but it has a large

number of other customers which include Kuwait Airways, Royal Jordanian, Qatar Airways and Emirates.

Gamco provides all levels of engineering and management support, line and light maintenance, base maintenance, interior refurbishment and stripping and repainting. It also has an engine shop, but it does not provide maintenance for the CFM56-5C series. It does, however, offer engine health monitoring and maintenance management, as well as light on-wing engine maintenance. Gamco also provides a full range of spare engine support services, such as aircraft-on-ground (AOG) services and spare engine leasing. In addition, Gamco provides repair and document management for rotables, although it does not offer rotatable inventories or power-by-the-hour (PBH) rotables provisioning packages. Gamco does overhaul and repair the simpler major components of wheels, tyres, brakes and thrust reversers, as well as offering shop visits for the GTCP 331-350 APU.

SAA Technical, the maintenance and engineering division of South African Airways (SAA), is another comprehensive provider of technical support for the A340-200/-300.

SAA Technical's largest capabilities are in engineering management, line and light maintenance, base maintenance, interior refurbishment and stripping and painting. SAA Technical has built up these capabilities over several decades to support SAA's fleet. As it has left the engine market, SAA Technical does not provide engine shop visit capability, although it does offer engine management and light on-wing engine maintenance services.

Air Mauritius is another significant provider of A340-200/-300 maintenance and technical support, specialising in base and engine maintenance.

Asia Pacific

The four main technical support providers in the Asia Pacific are Lufthansa Technik Philippines (LTP), Ameco Beijing, SIAECO of Singapore, SASCO of Singapore, and STARCO of Shanghai.

LTP is the Philippine Airlines facility bought by Lufthansa Technik, of which it is now a subsidiary. LTP provides a comprehensive service for the A340-200/-300. The services that it offers do exclude engine shop visits and repairs, although these are available via the Lufthansa Technik network.

Ameco Beijing provides full airframe maintenance services and some engine management and on-wing maintenance. It also provides repair and maintenance for various component categories.

SIA Engineering Company (SIAECO), the maintenance and engineering division of Singapore Airlines, retains a lot of capability to support the A340-200/-300. SIAECO specialises in engineering management and technical support, line and light maintenance, and base maintenance.

ST Aviation Services (SASCO) and Singapore and Shanghai Technologies (STARCO) specialise in base maintenance activities.

North America

The three major A340-200/-300 support providers in North America are Air Canada Technical Services (ACTS), ST Mobile Aerospace Engineering (MAE), and Aeroframe Services.

ACTS is owned by ACE holdings, after it was separated from Air Canada following the latter's financial restructuring in 2004. Air Canada Maintenance provides most of the engineering and technical management and some of the line and light maintenance for its own fleet, but it does not carry out third-party maintenance work. ACTS provides most line and light maintenance services and the full range of base maintenance support activities, as well as full engine maintenance services for the CFM56-5C and on-wing and AOG engine support.

MAE of Mobile, Alabama is owned by Singapore Technologies Aerospace. MAE specialises in heavy maintenance of all Airbus types, and can offer base maintenance, interior refurbishment, and stripping and painting. The company also provides wheels and brakes repair capability.

Aeroframe Services, Lake Charles, Louisiana was previously a subsidiary of EADS. The company specialises in airframe checks for all Airbus types, but in particular it performs C and heavy checks. The company also has a strip and paint hangar, as well as the capability to repair and overhaul some components.

Specialist services

In addition to the main support providers, there are specialist providers for engine maintenance, spare engine leasing, heavy component repairs, and rotables support.

Pratt & Whitney Engine Services (PWES), Snecma Services, and GE Engine Services are major engine maintenance providers, while Total Engine Support (TES) specialises in third-party engine maintenance management.

Specialist engine lessors include Shannon Engine Support (SES), Engine Lease Finance, GA Telesis and Willis Lease.

Examples of specialist heavy

A340-200/-300 ROTABLES & LOGISTICS

	Rotable inventory leasing	Rotable inventory pooling	Repair & doc manage	AOG support	PBH rotables support
Air France Industries	Yes	Yes	Yes	Yes	Yes
Airbus	Yes (proprietary parts)	~	~	Yes	~
AJ Walter	Yes	Yes	Yes	Yes	Yes
AVTRADE	Yes	Yes	Yes	Yes	Yes
GA Telesis	Yes	Yes	Yes	Yes	Yes
GAMCO	~	~	Yes	Yes	~
Kellstrom	Yes	Yes	Yes	Yes	~
Iberia Maintenance	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik Philippines	Yes	Yes	~	Yes	Yes
Messier Services	Yes	Yes	Yes	Yes	Yes
Sabena Technics	Yes	Yes	Yes	Yes	Yes
SAS Component	Yes	Yes	Yes	Yes	Yes
SAS Technical Services	Yes	Yes	Yes	Yes	Yes
SR Technics	Yes	Yes	Yes	Yes	Yes
TAP M&E	Yes	Yes	Yes	Yes	Yes
Triumph Group	Yes	Yes	Yes	Yes	Yes
Turkish Technic	~	~	~	Yes	Yes

A340-200/-300 HEAVY COMPONENT MAINTENANCE

	Wheels, tyres & brakes	APU test & repair	Thrust reversers	Landing gear	Landing gear exchanges
	(GTCP331-350)				
Air Canada Technical Services (ACTS)	Yes	Yes	~	~	~
Air France Industries	Yes	Yes	Yes	Yes	Yes
Ameco Beijing	Yes	~	~	Yes	Yes
GAMCO	Yes	Yes	Yes	~	~
Honeywell Aerospace	~	Yes	~	~	~
Iberia Maintenance	Yes	Yes	Yes	Yes	Yes
Lufthansa Technik	Yes	Yes	Yes	Yes	Yes
Messier Services	Yes	~	~	Yes	Yes
Revima APU	~	Yes	~	~	~
SAA Technical	Yes	Yes	Yes	Yes	Yes
Sabena Technics	Yes	Yes	Yes	Yes	Yes
SAS Component	Yes	~	Yes	~	~
SR Technics	Yes	Yes	Yes	~	~
ST Aviation Srvcs (SASCO)	Yes	Yes	Yes	Yes	Yes
TAP M&E	Yes	~	Yes	~	~
Triumph Group	~	Yes	Yes	~	~
Turkish Technic	Yes	Yes	Yes	Yes	Yes

component repair providers include: Messier Services for landing gears, wheels and brakes; Revima for the APU; and Middle River Aircraft Systems for thrust reversers.

Companies that specialise in rotatable support packages, and provide turnkey

total support packages, include AJ Walter, Avtrade and SAS Component. [AC](#)

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