TRANS EUROPEAN AIRWAYS, VAG

OFFICIAL FLEET PORTFOLIO

EUROPEAN AIRWAYS GROUP

A319-111

A319 Cabin

A319

The A319 provides a new standard of service to markets where only the smallest jets have operated.

FLEXIBILITY AND COMFORT

As a slightly smaller version of Airbus' A320 cornerstone single-aisle jetliner, the A319 continues to prove its versatility – enabling carriers around the world to benefit from the aircraft's range options and seat layout flexibility. In addition to the standard 124-seat configuration with a range of up to 3,740 nautical miles, Airbus offers an option with a seating capacity of up to 156 passengers – a version that is being ordered by an increasing number of low-cost airlines.

The A319 has the same optimised cabin cross-section as the other A320 Family members – which is the widest single-aisle fuselage on the market and sets the standards for passenger cabin adaptability in this segment. This allows for top-of-the-range comfort with generous seat width, or an extra-wide aisle for fast turnarounds.

The A319 is a slightly smaller version of Airbus' A320 cornerstone single-aisle jetliner

CABIN EXCELLENCE

A new cabin interior introduced by Airbus for the A320 Family ensures the A319 meets the needs of airline travellers today and tomorrow, bringing passenger comfort to a new level for its category. It provides a fresh new look, significant increase in overhead stowage, a noticeable reduction in noise, and options for ambience lighting – all with lower weight.

Facilitating the A319's onboard operational effectiveness is its digital cabin management system, which controls cabin-related tasks ranging from interior lighting, pre-recorded messages and emergency evacuation signalling to potable water management. It also can perform the checkout of all service units from a single point.

Below the main deck, an unmatched cargo capability results from the A320 Family's wider fuselage – enhanced by its containerised cargo loading system that is unique in its aircraft category and is compatible with the airline industry's freight system for widebody jetliners.

PRECISION AND COMMONALITY

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Advanced navigation technology developed for the A320 Family is available on the A319. The use of RNP-AR (Required Navigation Precision – Authorisation Required) procedures combined with RTA (Required Time of Arrival) operations eliminates the need for holds during a flight, and enables a continuous descent approach. The net benefits are lower noise and reduced fuel burn, as less engine thrust is required.

The A319 shares the same fly-by-wire flight controls and state-of-the-art cockpit as the other A320 Family members, profiting from the unique benefits of Airbus operational commonality. All of these aircraft – the A318, A319, A320 and A321 – share the same pilot type rating. With only minimal additional training, A320 Family-rated pilots can quickly transition to Airbus' widebody jetliners.

PERFORMANCE IMPROVEMENTS

Airbus invests more than 100 million euros annually in A320 Family improvements that result in enhanced payload and range capabilities, better performance, easier maintenance and more efficient operations. A significant enhancement will be the 2012 introduction of large wingtip devices called "Sharklets" which are to provide more than 3.5 per cent savings in overall fuel consumption on long route sectors.

In addition, Airbus' A319 will be even more fuel-efficient and eco-friendly with the A320neo new engine option now being offered to customers. This option is to deliver significant fuel savings of up to 15 per cent, along with double-digit reductions in CO2 and NOx emissions, additional range and lower operating costs.

CABIN LAYOUT & COMFORT

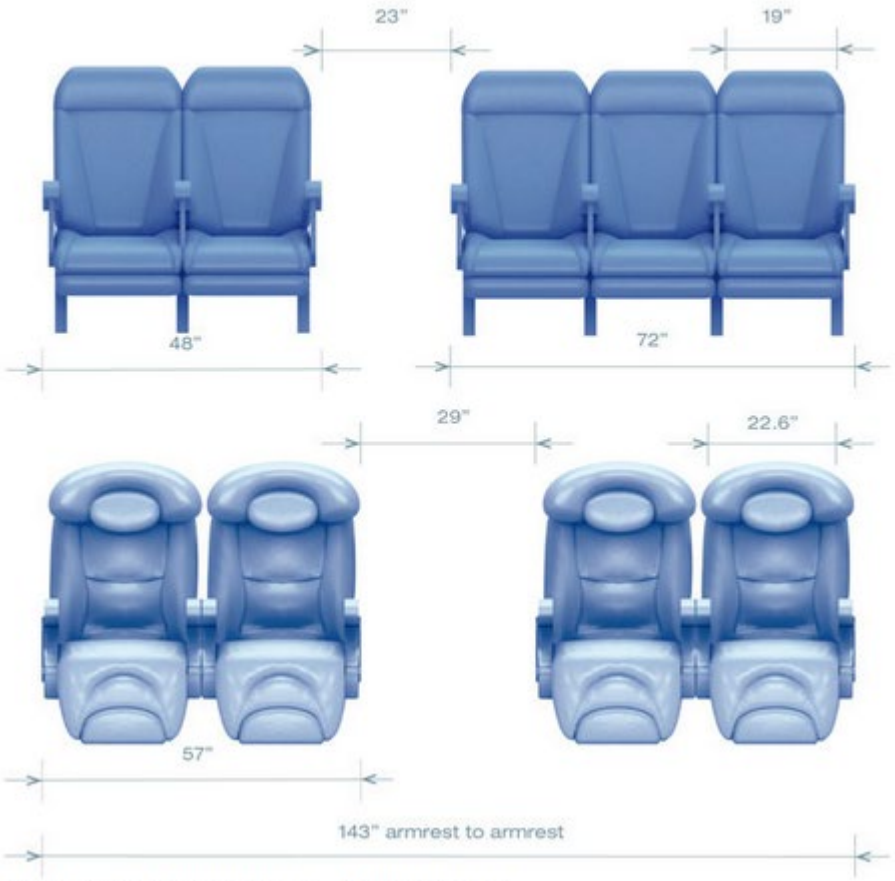
Dimensions & key data

HIGH ON COMFORT

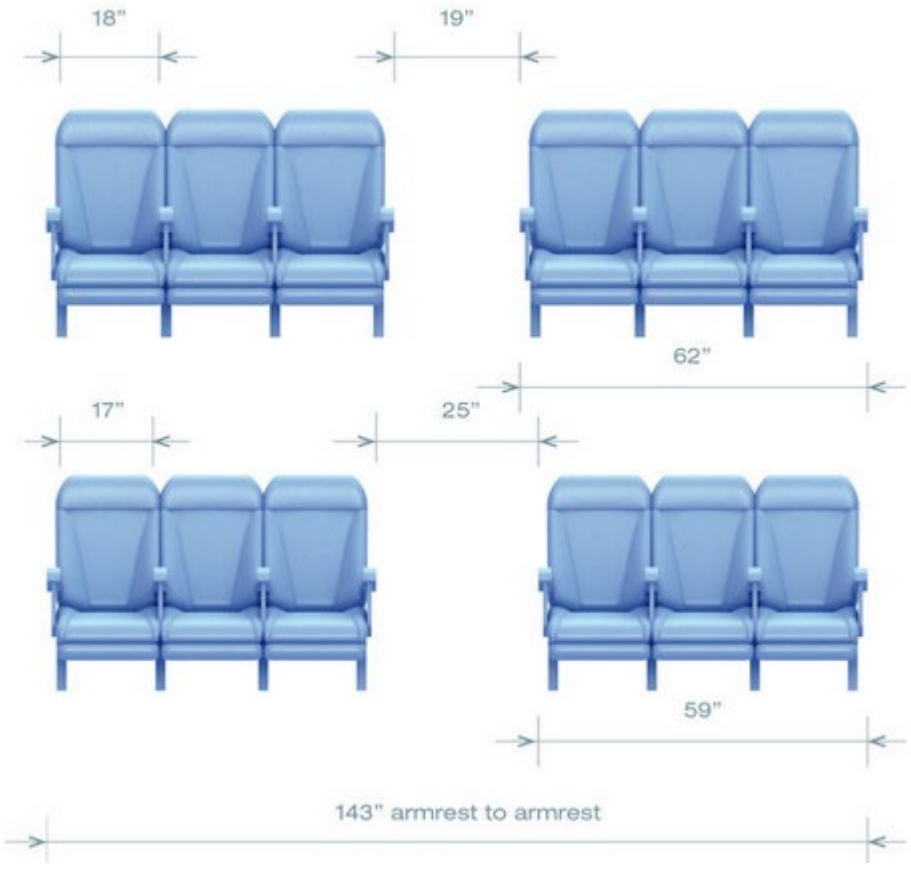
The A319 provides new standards of comfort and performance to markets where only the smallest jets have operated. A member of Airbus' best-selling A320 Family of jetliners, the A319 offers a variety of seating configurations, from a two-class layout with 124 seats to an optional high-density version that accommodates 134 passengers.

In its cabin, seat pitch can be adapted in units of one inch. Galleys and lavatories can be located in different numbers, groupings and locations; while in-flight entertainment can be incorporated in the seats or screens mounted on partitions below the overhead stowage areas.

A320 FAMILY SEATING CONFIGURATION - PREMIUM



A320 FAMILY SEATING CONFIGURATION - ECONOMY CLASS



The A319 has brought a new standard of service and possibilities to markets where previously only the smallest jets have operated and offers trans-Atlantic and transcontinental capability.

Key figures

Range
6 850 km with sharklets

Typical seating x
124 (2-class)

Max payload
13.2 tonnes

Wing span 34.10 m

Overall length 33.84 m

Height 11.76 m

Dimensions

Overall length	33.84 m
Cabin length	23.78 m
Fuselage width	3.95 m
Max cabin width	3.70 m
Wing span (geometric)	34.10 m
Height	11.76 m
Track	7.59 m

Capacity

Pax	Typical seating	124 (2-class)
	Max	156
Freight	LD3 capacity	5LD3-46W
	underfloor Max pallet number underfloor	5
	Bulk hold volume	27.62 m³
	Total volume	17.0/24.2 m³ (LD3/LD3+bulk)

Performance

Range	6 850 km with sharklets
Mmo	M0.82
Max ramp weight	64.4 (75.9) tonnes
Max take-off weight	64.0 (75.5) tonnes
Max landing weight	61 (62.5) tonnes
Max zero fuel weight	57.0 (58.5) tonnes

Wheelbase 11.04 m

Sharklets™

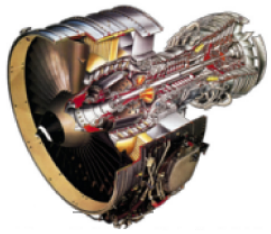
The new Sharklet wing tip devices for A320 Family jetliners – of which the A319 is a member – are part of a long-term enhancement programme to ensure Airbus' best-selling single-aisle aircraft product line remains highly competitive, efficient and airport-friendly for years to come.

Offered as optional equipment on new production A320-series aircraft, Sharklets provide aerodynamic improvements that result in multiple benefits for operators – including lower fuel burn, reduced emissions, increased range and payload, better take-off performance and rate-of-climb, higher optimum altitude and reduced engine maintenance costs.

Max fuel capacity up to 24 210 (30 190) litres

Engines

CFM56-5B x2

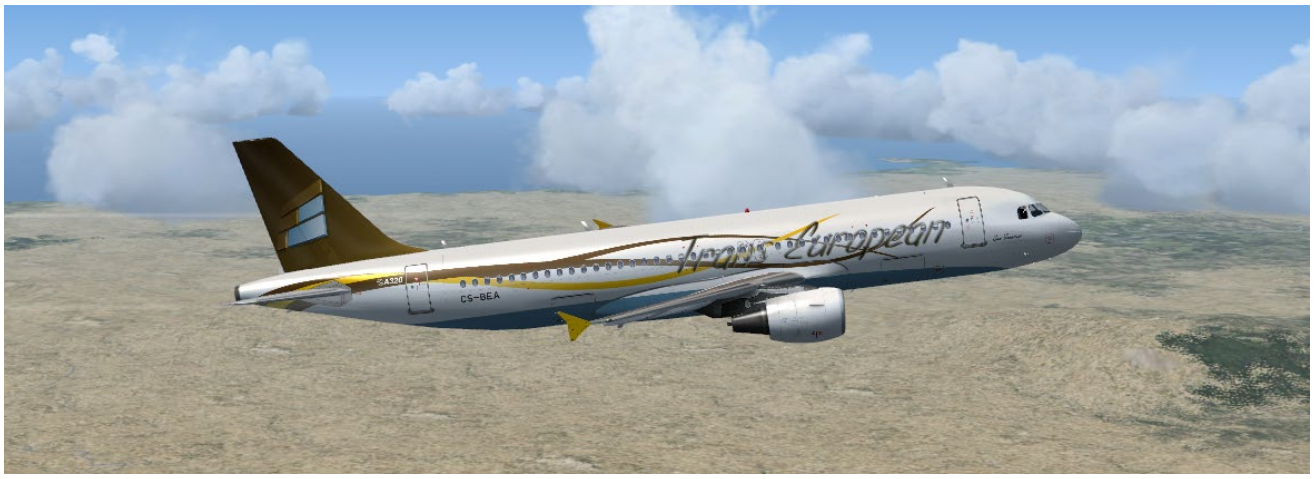


V2500-A5 x2

Thrust range 98 (120) kN

A319 Range from TEA main HUB (Lisbon)

A320-214



A320 Cabin

A320

The founding member of the best-selling Airbus single-aisle Family, the A320 is the only all-new aircraft in its category.

SETTING THE SINGLE-AISLE STANDARDS

Airbus launched its best-selling single-aisle product line with the A320, which continues to set industry standards for comfort and operating economy on short- to medium-haul routes. Typically seating 150 passengers in a two-class cabin – or up to 180 in a high-density layout for low-cost and charter flights – the A320 is in widespread service around the globe on services that vary from short commuter sectors in Europe, Asia and elsewhere to trans-continental flights across the United States.

The A320's advanced technology includes the extensive use of weight-saving composites, an optimised wing that is 20 per cent is more efficient than previous designs, a centralised fault display for easier troubleshooting and lower maintenance costs, along with Airbus' fly-by-wire flight controls.

Advantages of the fly-by-wire controls – which were pioneered on the A320 – are many. They provide total flight envelope and airframe structural protection for improved safety and reduced pilot workload, along improved flight smoothness and stability, and fewer mechanical parts.

The A320 is the best-selling single-aisle product

COCKPIT STANDARDISATION

In addition, fly-by-wire and cockpit standardization across the A320 Family are at the heart of Airbus' commonality, which allows a pilot qualified on one Family member to fly them all, using the same type rating. Over 80 per cent of operators with 10 or more A320 Family jetliners in their fleets fly more than one model of the Airbus single-aisle product line – enabling them to benefit fully from the commonality concept through more effective scheduling of aircraft and crews.

Taking the Airbus commonality one step further, an A320-rated pilot can transition to any other Airbus jetliner with reduced training (known as "Cross-crew Qualification"), and is able to operate another Airbus aircraft type while still actively flying the A320 Family (a capability called "Mixed Fleet Flying").

RANGE IMPROVEMENTS

Sharklets derive their name from the resemblance to a shark's fin, and are the latest component in Airbus' ongoing continuous improvement programme for the A320 Family.

Continuing its role as a pioneer, the A320 will be the first version in Airbus' single-aisle product line to be delivered with the new "Sharklets" large wingtip devices, which are designed to enhance the eco-efficiency and payload-range performance of the A320 Family.

The Sharklets – which completed their maiden flight outfitted on Airbus' A320 development aircraft in November 2011 – are expected to result in at least a 3.5 percent reduced fuel burn over longer sectors, corresponding to an annual reduction in CO2emissions of around 700 tonnes per aircraft. Sharklets also are incorporated in the A320neo, Airbus' fuel-efficient new engine option which brings enhanced range for its benchmark A320 jetliner.

SIMPLY THE BEST CABIN

The A320's right-sized fuselage is seven inches wider than its competitors, enhancing comfort for passengers and increasing revenue opportunities for airlines. It enables choices of four-, five-, and six-abreast layouts with wider seats, along with opportunities for wider aisles and increased overhead storage bins. Rapid turnaround times on the ground are further facilitated by the A320's bigger passenger and service doors.

Airbus has developed a new interior for the A320 and its other family members that brings a fresh new look to the cabin, a significant increase in overhead stowage, a noticeable reduction in noise, and introduces options for ambience lighting. An added advantage is this updated interior's lower weight.

NAVIGATING THE FUTURE

Advanced navigation technology contributes to the A320's operational flexibility. This includes the Required Navigation Performance (RNP) capability, which reduces approach distances for landing while reducing fuel consumption and CO2 emissions; and the Global Position (GPS) landing system, allowing instrument-type approaches where ground stations are not available.

Also offered are the Microwave Landing System (MLS) for increased approach capability in low visibility conditions; and the Future Air Navigation System (FANS) for optimised flight path and reduced aircraft spacing.

CABIN LAYOUT & COMFORT

Dimensions & key data

SIMPLY THE BEST CABIN

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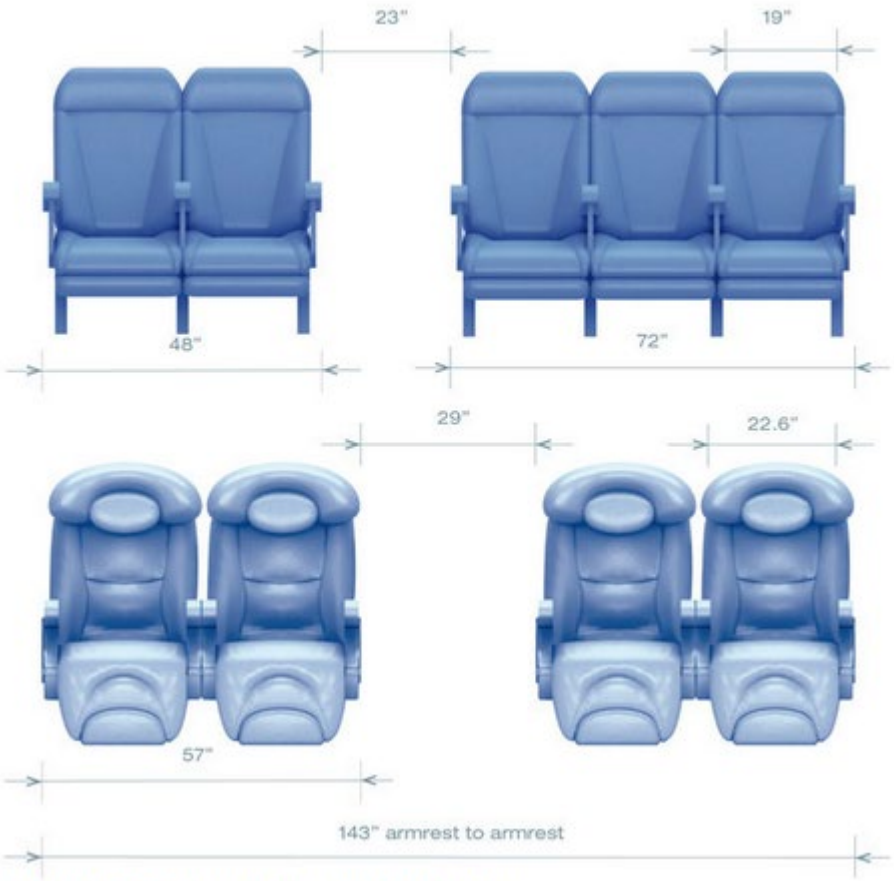
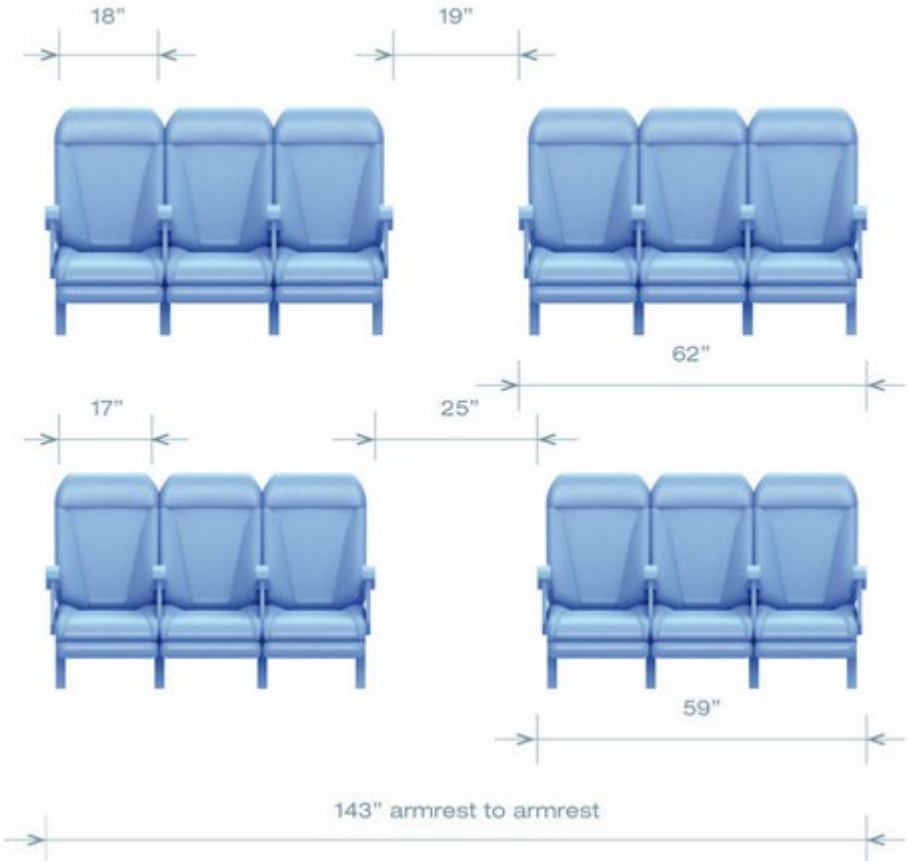
A320 FAMILY SEATING CONFIGURATION - PREMIUM



A320 FAMILY SEATING CONFIGURATION - ECONOMY CLASS



The founding member of the best-selling Airbus single-aisle Family, the A320 continues to set the comfort standards.

Key figures

Range
6 150 km with sharklets

Typical seating x
150 (2-class)

Max payload
16.6 tonnes

Wing span 34.10 m

Overall length 37.57 m

Height 11 m

Dimensions

Overall length	37.57 m
Cabin length	27.51 m
Fuselage width	3.95 m
Max cabin width	3.70 m
Wing span (geometric)	34.10 m
Height	11 m
Track	7.59 m

Capacity

Pax	Typical seating	150 (2-class)
	Max	180
Freight	LD3 capacity	7 LD3-46W
	underfloor Max pallet number underfloor	7
	Bulk hold volume	37.41 m³
	Total volume	25.8/31.7 m³ (LD3 / LD3+ bulk)

Performance

Range	6 150 km with sharklets
Mmo	M0.82
Max ramp weight	73.9 (78.4) tonnes
Max take-off weight	73.5 (78.0) tonnes
Max landing weight	64.5 (66.0) tonnes
Max zero fuel weight	61.0 (62.5) tonnes

Wheelbase 12.64 m

Max fuel capacity up to 24 210 (30 190) litres

A320 New Engine Option

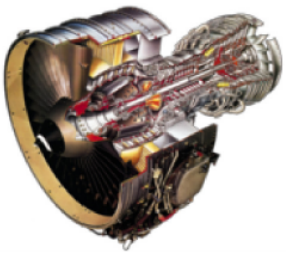
Airbus' A320 aircraft family – which is recognised worldwide as the benchmark single aisle jetliner product line – will become more fuel-efficient and eco-friendly with a new engine option now being offered to customers.

Designated the A320neo, this option provides the minimum change with maximum benefit for the best-selling A319, A320 and A321 through the availability of two new jet engine choices – CFM International's LEAP-X and the PW1100G PurePower from Pratt & Whitney – along with the use of large wing tip devices called Sharklets.

Engines

V2500-A5

CFM56-5B x2

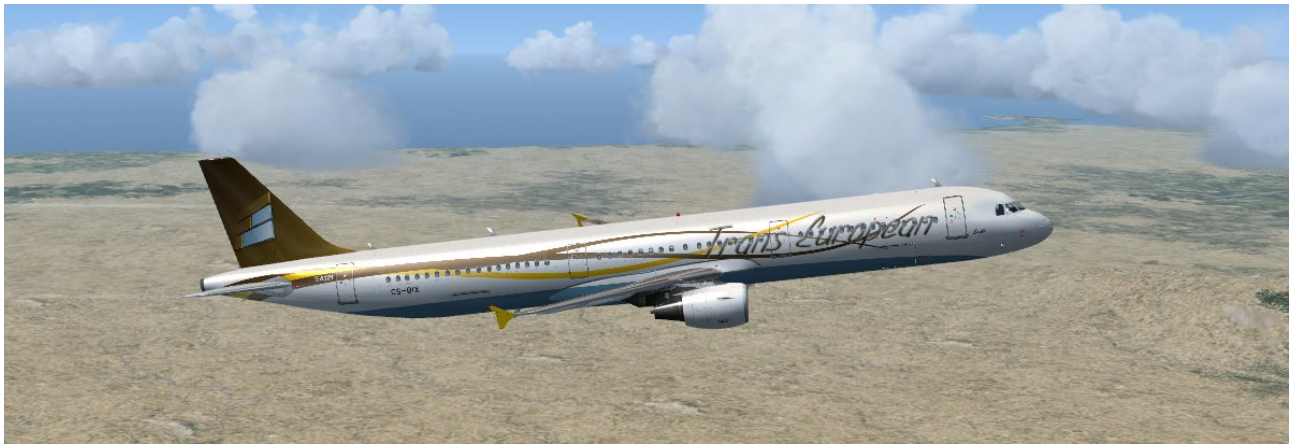


Thrust range 98 (120) kN

The A320 accommodates 150 passengers in a typical two-class cabin layout, and has a 3,300 nm/6,150 km range. It can be powered by CFM56-5 or IAE V2500-A5 engines.

A320 range from TEA main HUB (Lisbon)

A321-211



A321 Cabin

A321

STATE-OF-THE-ART CAPABILITIES

The benchmark A320 Family's largest member – the A321 – offers airline customers the best seat-mile costs of any single-aisle aircraft and seating capacities comparable to that of a widebody jetliner.

This aircraft has a stretched fuselage with an overall length of 44.51 metres, along with an extended operating range of up to 3,000 nautical miles while carrying a maximum passenger payload. Like each member in Airbus' best-selling A320 Family of jetliners, the A321 offers the lowest fuel burn, emissions and noise footprint in its class.

The A321 typically accommodates 185 passengers in a two-class configuration (16 in first class and 169 in economy) – while offering unbeatable economics in high-density seating (with up to 220 passengers) for charter and low-cost operators. The twin-engine A321 can be powered by either of two engine options: the CFM International CFM56 or International Aero Engines' V2500.

The A321 is the A320 Family's largest member

NEW ENGINE OPTION

The industry-leading efficiency of Airbus' best-selling A320 Family – of which the A321 is a member – will be further enhanced in 2015 with the service introduction of its new engine option jetliner versions.

Incorporating Airbus' "Sharklet" wing tip devices and two new engine choices, the A320neo Family offers maximum benefit with minimal changes from baseline A319s, A320s and A321s – delivering fuel savings of up to 15 per cent, along with additional range of up to 500 nautical miles/900 km. or 2 tonnes of extra payload.

For more information on Airbus' new engine option offered for the A320 Family, visit the dedicated "Spotlight on..." page.

A FAMILY APPROACH

The A321 benefits from operational commonality with its fellow A320 Family members, providing carriers with tremendous flexibility in matching aircraft to specific route requirements. All A320 Family aircraft share a single type rating – allowing pilots to fly any member of the Family after attending only one training course and enabling the same team of mechanics to maintain an aircraft.

With only minimal additional training, pilots also can transition quickly from these single-aisle jetliners to Airbus' larger long-range aircraft quickly thanks to the unique family concept and their exceptional degree of operational commonality.

LONGEST CABIN, WIDEST APPEAL

While passengers benefit from the A321's state-of-the-art cabin design, airlines profit from the unique operational flexibility of Airbus' single-aisle aircraft – with the option to provide wider seats and enhanced comfort; a markedly wider aisle for faster boarding and easier cabin movement; and even a hybrid layout. Overall passenger comfort is further enhanced by the A321's optional in-flight entertainment systems.

The A320 Family's wide fuselage also offers unmatched cargo capability for operators. Its four members are the only single-aisle aircraft offering containerised cargo, with the A321 capable of carrying up to 10 standard LD3-46W containers in the lower deck holds – enabling interlining without special ground handling equipment.

CABIN LAYOUT & COMFORT

Dimensions & key data

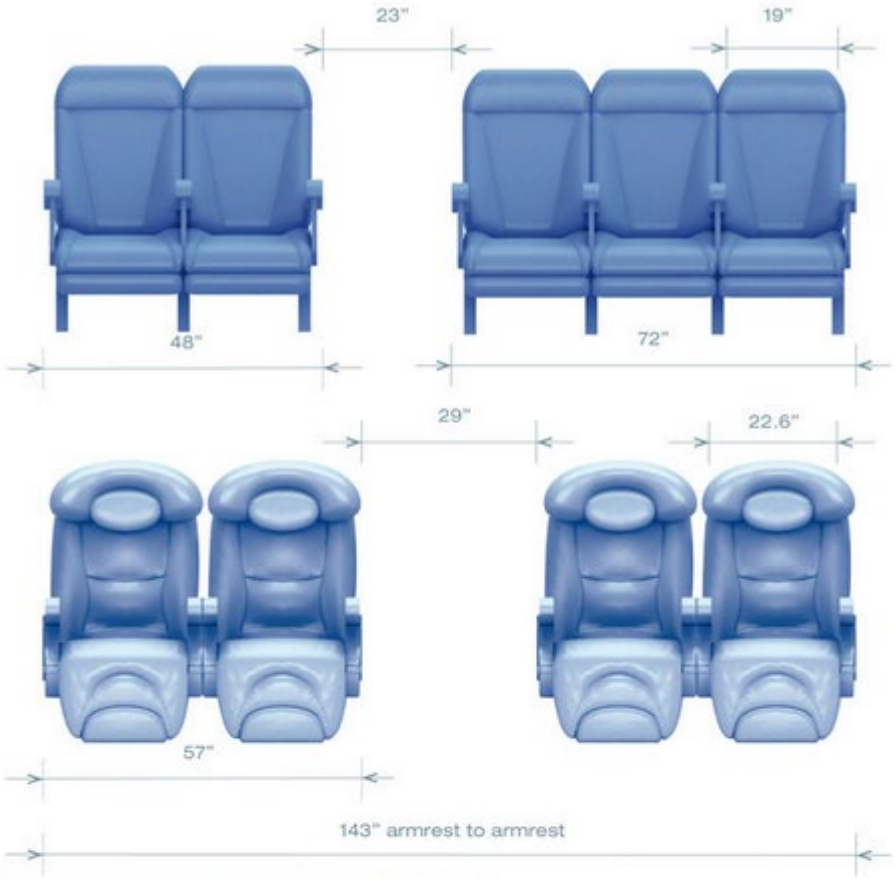
WIDE APPEAL

The A321 typically accommodates 185 passengers in a two-class configuration (16 in first class and 169 in economy) – while offering unbeatable economics in high-density seating (with up to 220 passengers) for charter and low-cost operators.

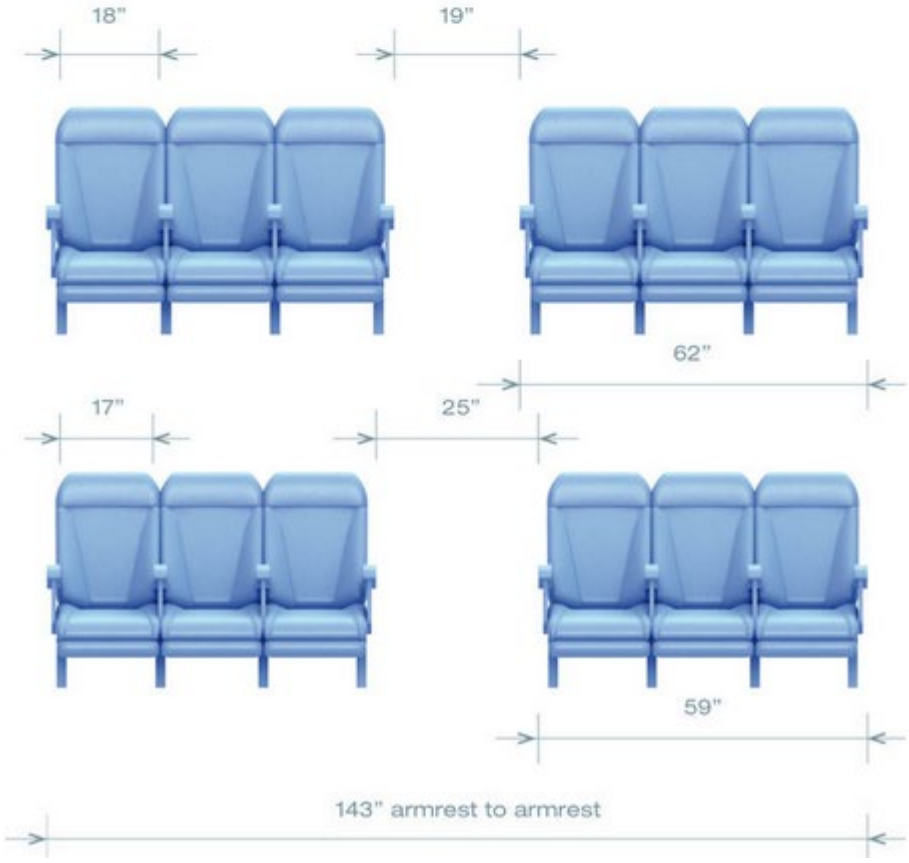
Airlines profit from the unique operational flexibility of Airbus' single-aisle aircraft – with the option to provide wider seats and enhanced comfort; a markedly wider aisle for faster boarding and easier cabin movement; and even a hybrid layout.

As with other members of the A320 Family, a new interior for the A321 creates a modern, fresh environment while also providing a significant increase in overhead stowage, a noticeable reduction in noise, along with options for ambience lighting. Additionally, it weighs less than the previous-generation interiors.

A320 FAMILY SEATING CONFIGURATION - PREMIUM



A320 FAMILY SEATING CONFIGURATION - ECONOMY CLASS



The largest member of the A320 Family, the A321 offers the best seat-mile costs of any single-aisle aircraft, matching widebo efficiency.

A321 SPECS

Key figures

Range 5 950 km

Typical seating x
185 (2-class)

Max payload
21.2 tonnes

Wing span 34.10 m

Overall length 44.51 m

Height 11.76 m

Dimensions

Overall length	44.51 m
Cabin length	34.44 m
Fuselage width	3.95 m
Max cabin width	3.70 m

Capacity

Pax	Typical seating	185 (2-class)
	Max	220
Freight	LD3 capacity underfloor	10 LD3-46W
	Max pallet number underfloor	10

Performance

Range	5 950 km
Mmo	M0.82
Max ramp weight	89.0 (93.9) tonnes
Max take-off weight	89.0 (95.5) tonnes
Max	75.5 (77.8) tonnes

Wing span (geometric)	34.10 m
Height	11.76 m
Track	7.59 m
Wheelbase	16.91 m

Bulk hold volume	51.76 m³
Total volume	36.8 / 42.7 m³ (LD3 / LD3+bulk)

landing weight	
Max zero fuel weight	71.5 (73.8) tonnes
Max fuel capacity	24 050 (30 030) litres

Stretched fuselage

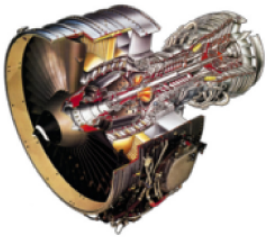
The best-selling A320 Family's largest member, the A321, offers the best seat-mile costs of any single-aisle aircraft – with passenger capacities comparable to that of a widebody jetliner.

This stretched-fuselage aircraft has an overall length of 44.51 metres, providing ample room to comfortably accommodate 185 travellers in a two-class configuration – or up to 220 in a high-density layout.

Engines

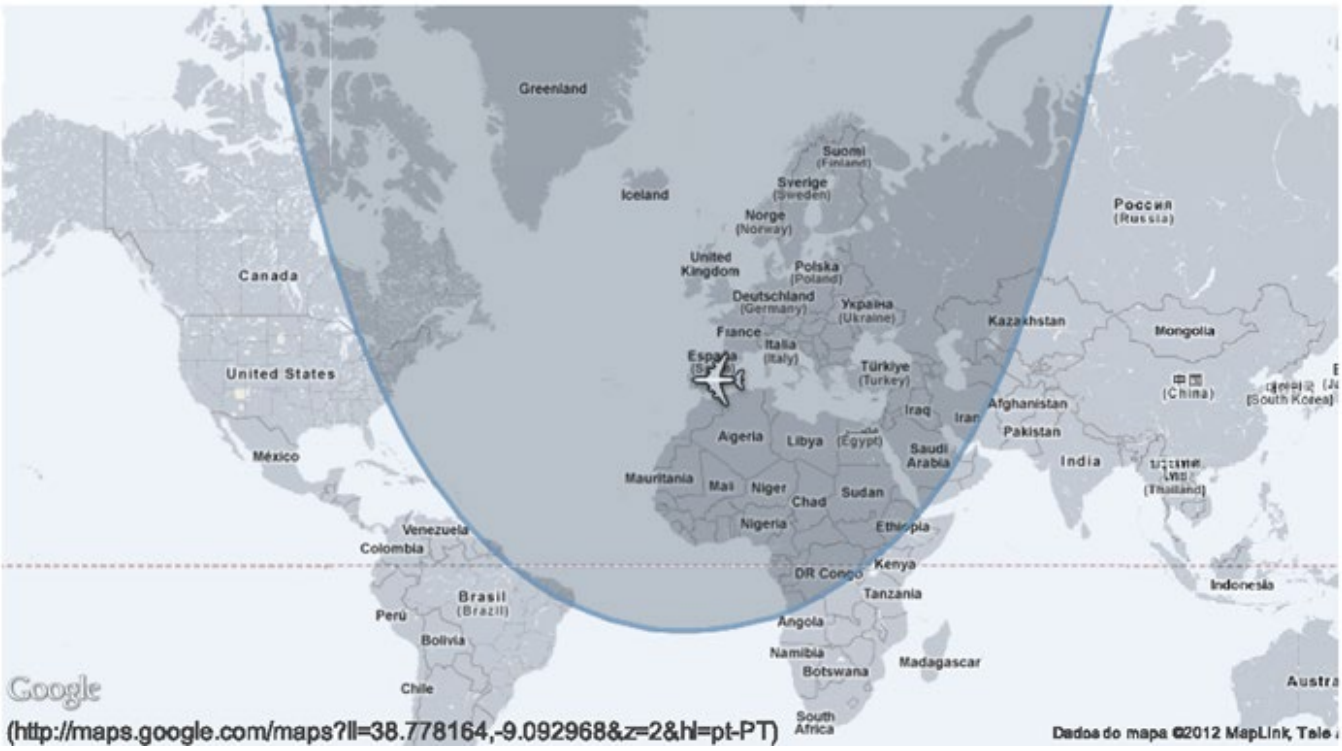
V2500 A5 x2

CFM56-5B x2



Thrust range 120 (148) kN

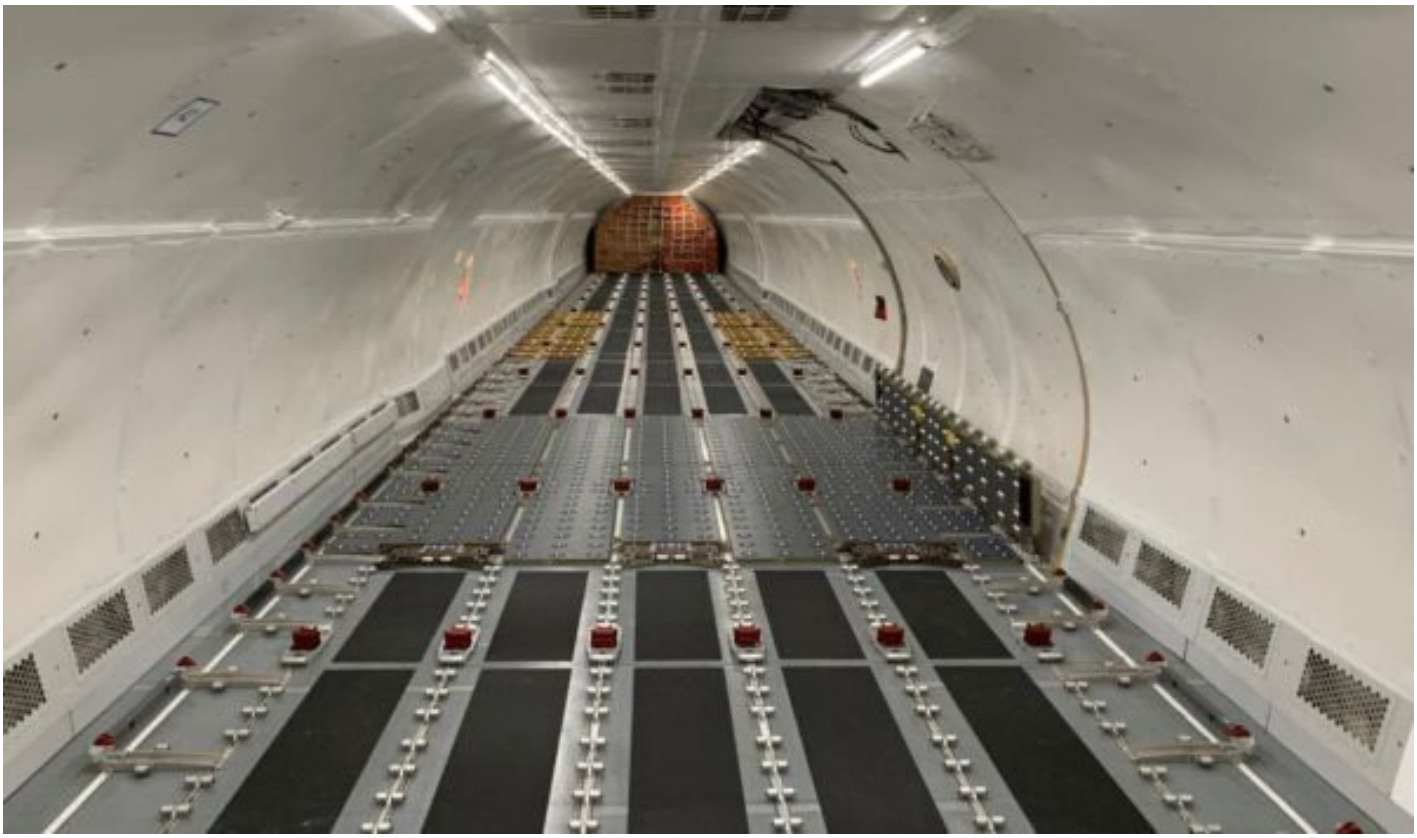
The A321 accommodates 185 passengers in a two-class configuration over a range of up to 3,200nm/5,950km, and up to 22 passengers in a high-density configuration. It can be powered by CFM56-5 or IAE V2500-A5 engines.



A321 range from TEA main HUB (Lisbon)

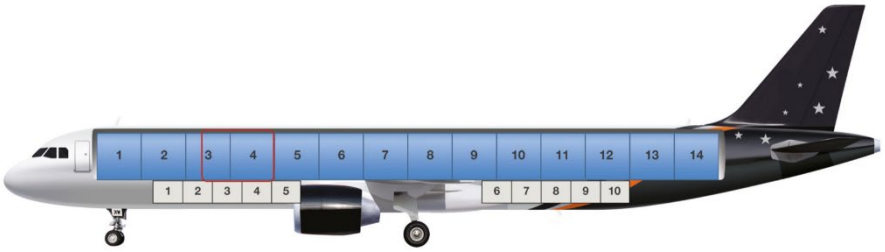
AIRBUS
AN EADS COMPANY

A321P2F



The Airbus A321P2F is a highly efficient cargo aircraft designed for medium-haul routes. Known for its significant payload capacity and spacious cargo hold, the A321P2F is ideal for transporting a variety of goods. Its modern engineering and reliable performance make it a preferred choice for operators needing a versatile and dependable freighter for regional and international operations.

The Airbus A321P2F (Passenger-to-Freighter) conversion program was developed to meet the growing demand for efficient and high-capacity air cargo transport. First introduced in the 2010s, the A321P2F has quickly gained popularity among cargo operators for its ability to offer an economical solution for medium-haul routes. The conversion process involves modifying passenger A321 aircraft into freighters, extending their operational life and enhancing their utility in the cargo market.



The A321P2F features a twin-engine configuration and is powered by two advanced turbofan engines, providing the necessary thrust and efficiency for medium-haul flights. Its spacious cargo hold, with a volume of 207 cubic meters and a large cargo door measuring 360 x 220cm, facilitates the easy loading and unloading of various cargo types. The aircraft's range of 3,900km and cruising speed of 833 km/h ensure efficient and timely deliveries. The A321P2F's design emphasizes operational efficiency and ease of maintenance, making it a favorite among operators for regional and international cargo tasks.

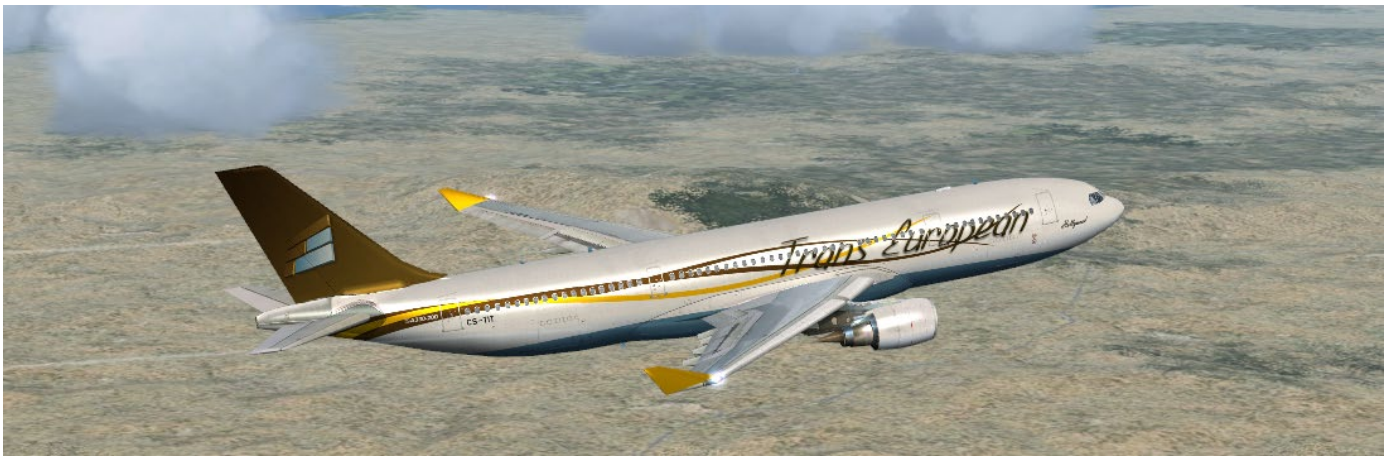
Performance

Range	3 800 km
Mmo	0.82
Max ramp weight	93.9 tonnes
Max take-off weight	93.5 tonnes
Max landing weight	77.8 tonnes
Max zero fuel weight	73.8 tonnes
Max fuel capacity (density = 0.803)	30 030 kg

Capacity

Max payload	Up to 28.1 tonnes
Pallets or containers main deck	14
Pallets or containers underfloor	10

A330-223



A332 Cabin

A330-200

The shortest fuselage member of the A330 series provides airlines with excellent range and cargo capacity.

EXCEPTIONAL FLEXIBILITY

The A330-200 is the shorter-fuselage variant of Airbus' A330 twin-engine widebody family, and has the versatility to cover all ranges from short-haul to true long-haul, with ideal sizing for point-to-point operations.

Its optimised 222-inch fuselage cross-section – which is shared with the other members of Airbus' A330/A340 Family – accommodates 253 passengers in a comfortable two-class cabin layout that provides more window and aisle seats in much quieter cabins. As a modern jetliner, the A330-200 accepts the latest in-flight entertainment, including video-on-demand, mobile telephone and e-mail via satellite.

Another advantage of the A330-200's fuselage is its large-capacity underfloor cargo holds, which accommodate industry-standard LD3 containers in side-by-side loading, as well as 96-inch pallets.

The A330-200 is well established with major carriers around the world, and has become a preferred aircraft for charter and leisure operators, as well as the growing low-cost long-haul market segment. With Airbus commonality in cockpit and cabin systems, an increasing number of airlines that fly the single-aisle A320 Family are discovering the advantages of stepping up to the widebody A330-200 for higher-capacity, longer-range service.

UPGRADES AND IMPROVEMENTS

Airbus' continuous investment in the A330 Family benefits the A330-200 version by lowering costs and improving operations. This includes system upgrades and enhancements , the introduction of advanced navigation aids and new-generation flight instrumentation, and engine upgrades. Updated passenger cabin features developed for the A330 include state-of-the-art LED lighting, smoother contours with softened lines and new interior styling – all of which provide a lighter, brighter and more spacious interior.

An increased maximum takeoff weight of 240 metric tonnes was launched by Airbus in July 2012. The new 240 tonne A330-200 will fly up to 270 naut. mi. further – to 7,050 naut. mi. (13,060 km.) – with 246 passengers and carry over 2.5 tonnes more payload than the previous 238 tonne A330-200 version. This latest takeoff weight increase also will bring increased fuel efficiency thanks to wing aerodynamic refinements and enhancements to the engines.

LONG-RANGE CREW ACCOMMODATIONS

For long-distance operations, the A330-200 can be fitted with innovative crew rest areas. A secure rest facility for pilots with one or two bunks is designed to be located next to the cockpit for easy, rapid access. A mobile rest area for cabin crews can be installed in the aircraft's lower-deck aft cargo hold and accessed by a stair from the main cabin – thereby eliminating any impact on passenger seating. Based on a 96 X 125-inch pallet, this cabin crew facility can have up to seven bunks and be removed in 50 minutes for shorter flight operations not requiring crew rest accommodations.

CABIN LAYOUT & COMFORT

Dimensions & key data

Spotlight on.. latest ads

BEST IN CLASS

An optimum, flexible passenger cabin combined with interior updates provided by Airbus make the A330-200 a jetliner of choice for an increasing number of customers worldwide. This shortest-fuselage version of Airbus' A330 Family has an overall length of 59 metres and carries 253 passengers in a typical first/business/economy class layout. A two-class configuration also is available, with accommodations for 293 travellers

With its designed-in maximum flexibility, the A330-200 allows operators to meet changing market trends, providing full comfort in cabin layouts that range from ultra-high comfort four-abreast first class and six-abreast business class to an economy class cabin with eight abreast that places no passenger more than one seat from an aisle, or an efficient higher-density nine-abreast arrangement.

BUILT-IN FLEXIBILITY

Cabin "flexibility zones" for both galleys and lavatories enable rapid reconfiguration that aboard the A330-200, allowing airlines to adapt to changing market needs and fleet deployment. Galleys can be ideally situated for dedicated service in each cabin, while toilets are able to be located within large areas of the floor plan.

Among the cabin improvements introduced by Airbus are redesigned air conditioning outlets, enhanced interior styling along with lateral and mood lighting – all of which provide an environment that is even brighter, lighter and more spacious.

SEATING CONFIGURATION

The A330-200 typically carries 253 passengers in a first/business/ economy class layout, while the aircraft's two-class configuration seats 293 passengers.

FIRST CLASS

4-abreast – 27in seat cushion

BUSINESS CLASS

6-abreast – 22in seat cushion

ECONOMY CLASSES

Premium economy : 7-abreast – 20in seat cushion

Standard economy: 8-abreast – 18.1in seat cushion

High efficiency: 9-abreast – 16.7in seat cushion

The A330-200 provides airlines with a low risk entry into the long haul market with excellent range and cargo capacity. It offers true long haul comfort and amenities for both passengers and crew.

A330-200 SPECS

Key figures

Range 13 400 km

Typical seating x
253 (3-class)

Max payload
36.4 tonnes

Wing span 60.30 m

Overall length 58.82 m

Height 17.39 m

Dimensions

Overall length	58.82 m
Cabin length	45.00 m
Fuselage width	5.64 m
Max cabin width	5.28 m
Wing span (geometric)	60.30 m
Height	17.39 m

Capacity

Pax	Typical seating	253 (3-class)
	Max	380
Freight	LD3 capacity underfloor	26 (27)
	Max pallet number underfloor	8+3 LD3
	Bulk hold volume	19.7 (13.76) m³
	Total	136.0 (134.6) m³

Performance

Range	13 400 km
Mmo	M0.86
Max ramp weight	230.9 (238.9) tonnes
Max take-off weight	230.0 (238.0) tonnes
Max landing weight	180 (182) tonnes
Max zero fuel	168.0 (170) tonnes

Track	10.69 m
Wheelbase	22.20 m

volume (LD3+bulk+LDMCR) **weight**

Max fuel capacity	139 090 litres

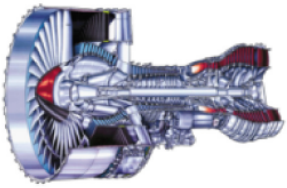
Maximum versatility

The A330 Family – which includes Airbus' highly-efficient A330-200 – offers the most spacious cabin of any widebody aircraft in its category, allowing for a range of cabin interior possibilities

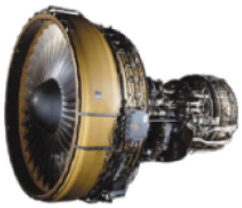
The A330-200's seat pitch can be adapted in units of one inch, while galleys, lavatories and stowage areas can be located in different numbers, groupings and locations – providing excellent versatility for operators of this widebody Airbus jetliner.

Engines

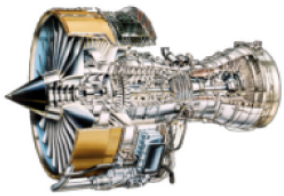
PW4000 x2



GE CF6-80E1 x2

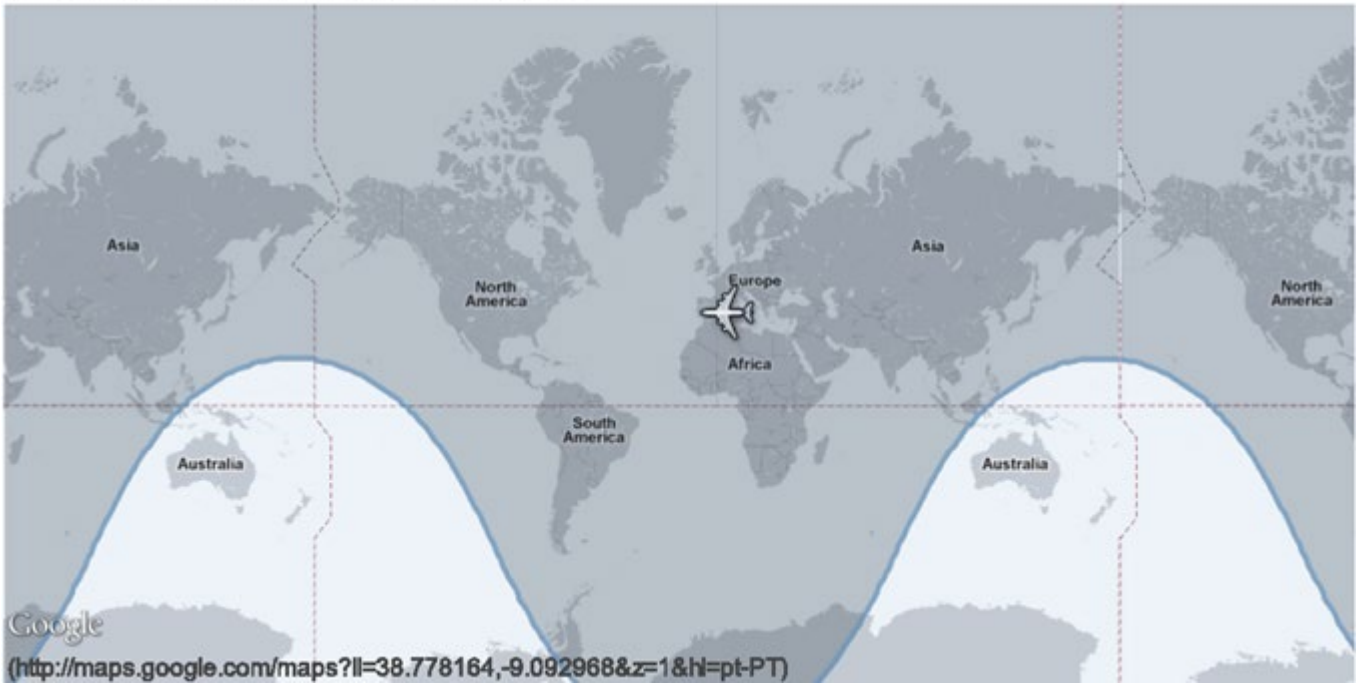


RR Trent 700 x2



Thrust range	303 to 316 kN

The A330-200 seats 253 passengers in a typical three-class cabin layout over a range of up to 7,250 nm/13,400 km, powered by PW4000, RR Trent 700 or GE CF6-80E1 engines.



A330-200 range from TEA main HUB (Lisbon)

AIRBUS
AN EADS COMPANY

A330-900NEO

A330-900 NEO: Game-changing efficiency

The A330-900 is a versatile platform that delivers highly efficient performance for airlines, from short-haul segments to long-range routes over distances of up to 7,350nm.
The A330neo incorporates the new Rolls Royce Trent 7000 engines, latest-generation flight ops systems and aerodynamic designs.
Purpose-built to be efficient on any sector length, the A330-900 reduces fuel consumption and CO_2 emissions by 25% compared to previous generation aircraft (777-200ER).
The A330neo was the first jetliner to feature Airbus' Airspace cabin philosophy, providing passengers new standards of comfort and on-board relaxation, with more personal space, more luggage stowage and the latest generation in-flight entertainment

Winning a "Best Product Launch" award from the marketing industry, the A330neo Airspace cabin was revealed in 2016. Now delivered successfully, it provides a new level of comfort, ambience and design with efficient services, ensuring that this cabin has the versatility to match all airline operations and serve all passenger markets.

Utilizing new generation cabin developments and encompassing four key pillars – comfort, ambience, services and design – Airspace offers more personal space and a unique welcome area, as well as Airbus' signature design elements to create a cabin that represents the highest standards of design and luxury.

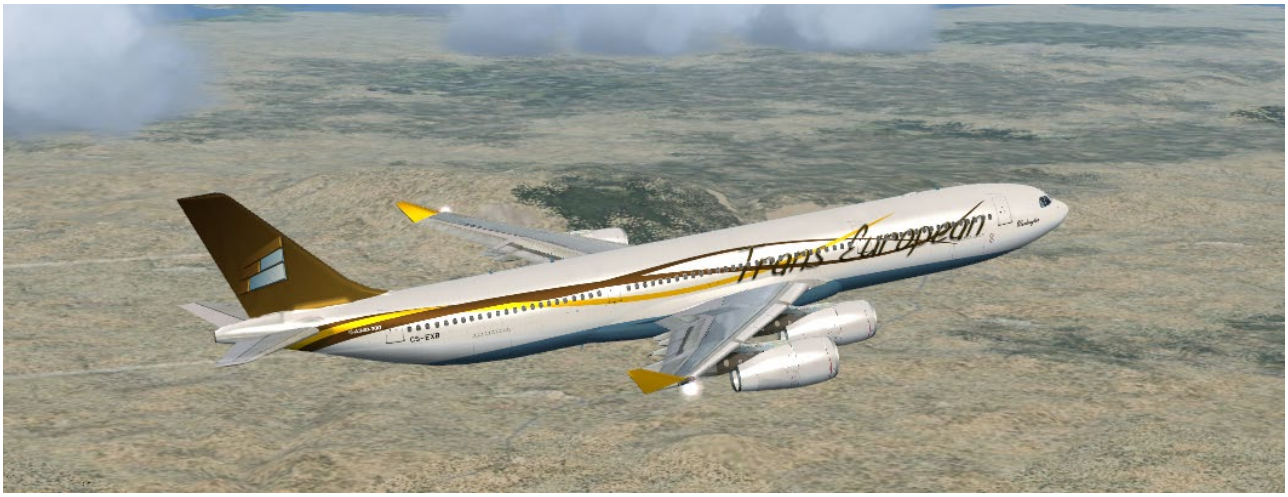
Capacity	
Max Pax seating	465 seats
Typical 3 class configuration	287-303 seats
Max number Pallets / Containers	11 pallets or 33 LD3

Performance	
Max range	13,600 km
Cruise Mach	0.82
Maximum taxi weight	253.90 tonnes
Max take-off weight	253.00 tonnes
Max landing weight	191.00 tonnes
Max zero fuel weight	183.00 tonnes
Max fuel capacity	139,090 liters

Dimensions	
Overall length	63.69 m
Cabin length	50.36 m
Fuselage width	5.64 m
Max cabin width	5.26 m
Wing span (geometric)	64.00 m
Height	16.79 m
Track	10.68 m
Wheelbase	25.38 m

A glimpse at the A330-900 range

A340-312



A343 Cabin

A340-300

OUTSTANDING RANGE CAPABILITY

With a service range of more than 7,400 nautical miles, Airbus' A340-300 is tailored to meet the needs of the 300-seat long-range market – offering direct point-to-point services and increased flight frequencies at lower costs.

It thrives in many market environments and often forms a key part of a larger international operation with major carriers, operating along with other A330 or A340 models. As flagships with smaller airlines, the A340-300 provide vital long-range links to and from less populous cities; while it serves as the most cost-effective 300-seat long-range complement for operators of A320 Family aircraft.

The four-engine A340-300 features one of the quietest cabins in the sky – a key element for relaxing long-haul operations – as well as the best economy in its class, which makes this jetliner an airline favourite. The A340-300 seats 295 passengers in a typical three-class cabin configuration, while a two-class layout comfortably accommodates as many as 335 travellers.

INOVATION AND EFFICIENCY

Like all members of Airbus' family of modern jetliners, the A340-300 features a number of key innovations, including fly-by-wire flight controls, which bring increased flight protection as well as weight and cost savings; advanced weight-saving materials such as carbon fibre; and fuel-saving aerodynamics. Commonality with Airbus' family of fly-by-wire jetliners also brings important reductions in training and maintenance costs, providing customers with an important competitive advantage.

The A340-300 demonstrates outstanding environmental efficiencies, including low fuel burn and reduced engine emissions, while its reduced noise signature comfortably meets international standards.

CABIN VERSATILITY

The A340-300 cabin's flexibility allows for a wide variety of customised cabin interiors. Seat pitch can be adapted in units of one inch, while galleys, lavatories and stowage areas can be located in different numbers, groupings and locations – providing excellent versatility for operators of this widebody Airbus jetliner. In addition, state-of-the-art in-flight entertainment can be incorporated into the seats or mounted on partitions below overhead stowage areas.

Under the main deck, the A340's large cargo holds provide voluminous capacity for extra revenue. With large cargo doors as basic fit, they take industry-standard LD3 containers in side-by-side loading. The A340-300's forward hold accommodates six 96-inch pallets or 18 LD3 containers, while the aft hold accepts 14 LD3s or a mix of three 96-inch pallets and two 88-inch pallets.

CABIN LAYOUT & COMFORT

WIDEBODY CABIN

Airbus' modern A340-300 jetliner seats 295 passengers in a typical three-class widebody cabin configuration, while a two-class layout comfortably accommodates as many as 335 travellers. Its cabin – which is among the quietest in the sky – provides high flexibility, allowing operators to customise the interior to suit market demands.

FIRST CLASS

4-abreast – 27in seat cushion

BUSINESS CLASS

6-abreast – 22in seat cushion

ECONOMY CLASSES

Premium economy : 7-abreast – 20in seat cushion

Standard economy: 8-abreast – 18.1in seat cushion

High efficiency: 9-abreast – 16.7in seat cushion

The 4-engined A340-300E is the true long haul aircraft for point-to-point services with the edge that can win high-yield traffic. Seating 295 passengers in a typical three-class cabin layout in the long haul Airbus widebody cabin, it is recognized as the quietest mid-size airliner in the sky.

A340-300 SPECS

Key figures

Range 13 700 km

Typical seating x
295 (3-class)

Max payload
43.5 (41.0) tonnes

Wing span 60.30 m

Overall length 63.69 m

Height 16.91 m

Dimensions

Overall length	63.69 m
Cabin length	50.35 m
Fuselage width	5.64 m
Max cabin width	5.28 m
Wing span (geometric)	60.30 m

Capacity

Pax	Typical seating	295 (3-class)
	Max	440
Freight	LD3 capacity underfloor	32 (33)
	Max pallet number underfloor	11
	Bulk hold volume	19.7 (13.76) m³

Performance

Range	13 700 km
Mmo	M0.86
Max ramp weight	275.9 (277.4) tonnes
Max take-off weight	275.0 (276.5) tonnes
Max landing weight	190.0 (192.0) tonnes

Height	16.91 m
Track	10.69 m
Wheelbase	25.60 m

Total volume	162.8 (161.4) m³ (LD3+bulk)

Max zero fuel weight	180.0 (183.0) tonnes
Max fuel capacity	140 640 (147 850) litres

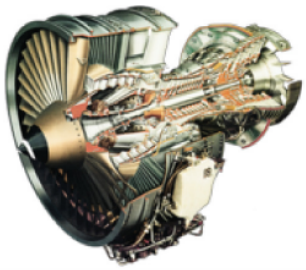
Cabin flexibility

Beneath its main deck, the A340-300's large cargo holds provide voluminous capacity to maximize operators' revenue potential. With large cargo doors as basic fit, they take industry-standard LD3 containers in side-by-side loading. The jetliner's forward hold accommodates six 96-inch pallets or 18 LD3 containers, while the aft hold accepts 14 LD3s (or a mix of three 96-inch pallets and two 88-inch pallets).

Engines

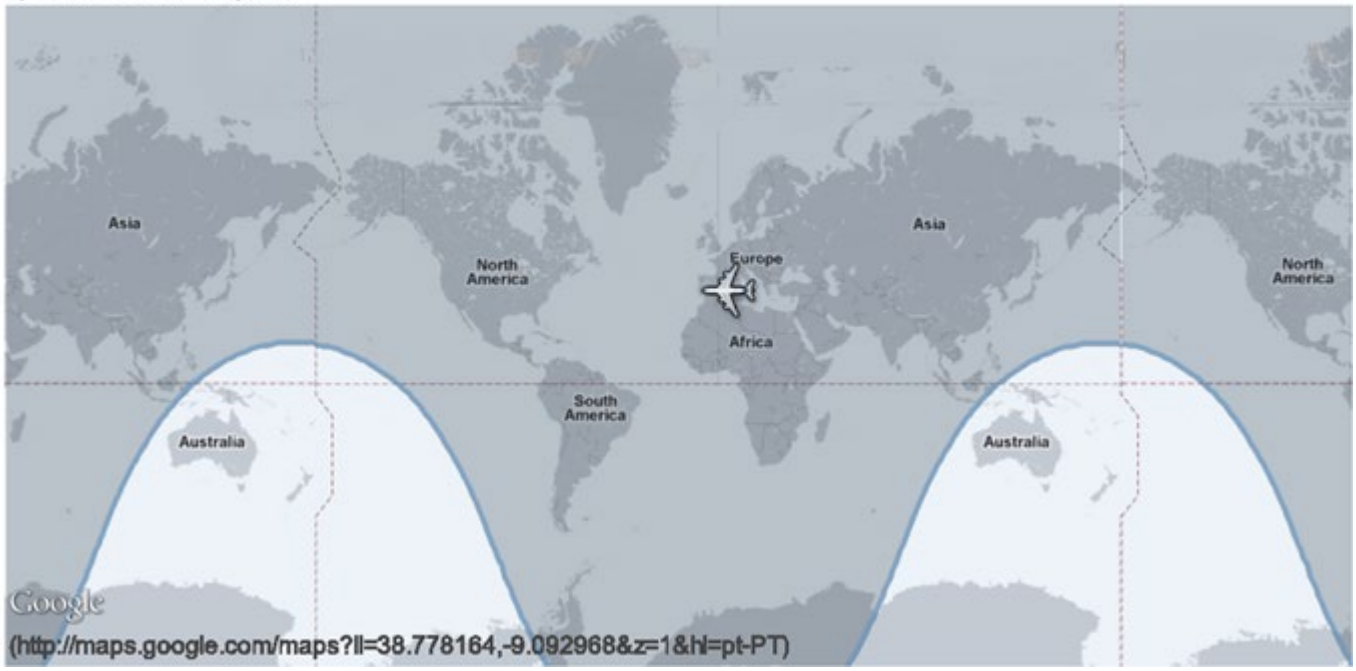
CFM56-5C4/P

x4



Thrust range	151 kN

The A340-300 seats 295 passengers in a typical three-class cabin layout over a range of up to 7,400 nm/13,700 km, powered by CFM56-5C4/P engines.



A340-300 range from TEA main HUB (Lisbon)

AIRBUS
AN EADS COMPANY

A340-600HGW

A346 Cabin

A340-600

THE LARGEST A340

The A340-600 is the longest-fuselage jetliner ever built by Airbus, and the largest-capacity member of the A340 Family.

With an overall length of 75.3 metres, it has a seating capacity for 360 passengers in a three-class layout, or 419 in a two-class configuration.

This super-stretch aircraft provides operators with unrivalled standards of space, comfort and amenities in each class of service, along with twice the underfloor cargo capacity of comparable airliners.

FLYING FARTHER

Airbus' A340-600 also is an ultra long-haul leader, with a range of 7,900 nautical miles. Equipped for the best economy on long-haul routes, the A340-600 offers unmatched operational flexibility on non-stop flights over remote areas such as oceans and mountain ranges.

The jetliner's four Rolls-Royce Trent 500 engines use only 56,000 lbs. of their certified 60,000 lbs. of thrust, resulting in longer on-wing lives. In addition, the use of four engines – as opposed to two larger powerplants – allows for a 13 per cent reduction in maintenance costs for operators.

In addition, the A340-600's four engines allow for operations that are not subject to ETOPS (Extended-range Twin-engine Operational Performance Standards) regulations. This enables airlines to fly more direct routes – even long distances over water or on segments far from airports – saving travel time and cutting fuel consumption.

A FAMILY APPROACH

The A340-600 also includes state-of-the-art technologies such as weight-saving composite structures; a fuel-saving aerodynamic design; along with pilot-friendly cockpits, flight controls and systems – all of which significantly enhance the A340-600's long-range capabilities and overall cost-efficiency.

True to Airbus' unique family concept, it also offers an exceptional degree of operational commonality with all of the company's fly-by-wire aircraft – allowing pilots to transition from one type to another with minimum training time.

CABIN LAYOUT & COMFORT

HIGH CAPACITY

The widebody A340-600 is the longest Airbus airliner in operation, with an overall fuselage length of 75.3 metres. It also is the A340 Family's highest-capacity member, with a seating capacity for 360 passengers in a three-class layout (or 419 in a two-class configuration).

As with each A340 Family member, all first and business class passengers are guaranteed to have the optimum seating choice; while in economy class, the eight-abreast seating layout ensures that no passenger is more than one seat from the aisle.

FIRST CLASS

4-abreast – 27in seat cushion

BUSINESS CLASS

6-abreast – 22in seat cushion

ECONOMY CLASSES

Premium economy : 7-abreast – 20in seat cushion

Standard economy: 8-abreast – 18.1in seat cushion

High efficiency: 9-abreast – 16.7in seat cushion

Combining range and efficiency, the A340-600 is the latest development of the Airbus A340 Family, and is the longest airliner operation.

It is renowned for interior comforts such as advanced lighting and temperature control, and the quietness of its cabin.

A340-600 SPECS

Key figures

Range 14 600 km

Typical seating x
380 (3-class)

Max payload
55.6 tonnes

Wing span 63.45 m

Overall length 75.36 m

Height 17.22 m

Dimensions

Overall length	75.36 m
Cabin length	60.98 m
Fuselage width	5.64 m
Max cabin width	5.28 m

Capacity

Pax	Typical seating	380 (3-class)
	Max	475
Freight	LD3 capacity underfloor	42 (43)
	Max pallet number underfloor	14

Performance

Range	14 600 km
Mmo	M0.86
Max ramp weight	369.2 (381.2) tonnes
Max take-off weight	368.0 (380.0) tonnes
Max landing weight	259.0 (265.0) tonnes

Wing span (geometric)	63.45 m
Height	17.22 m
Track	10.69 m
Wheelbase	32.89 m

Bulk hold volume	19.7 (13.76) m³
Total volume	207.6 (206.2) m³ (LD3+bulk)

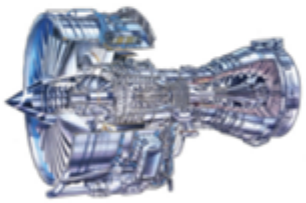
Max zero fuel weight	245.0 (251.0) tonnes
Max fuel	195 520 (204 500) litres

Longest fuselage

The super-stretch A340-600 is Airbus' longest jetliner operating today, with an overall fuselage length of 75.3 metres. Passenger capacity of the A340-600 (in a typical three-class configuration) is 380 seats, while a two-class layout also is available with accommodations for up to 419 passengers – providing an ideal mix of capacity and efficiency for operators across the globe.

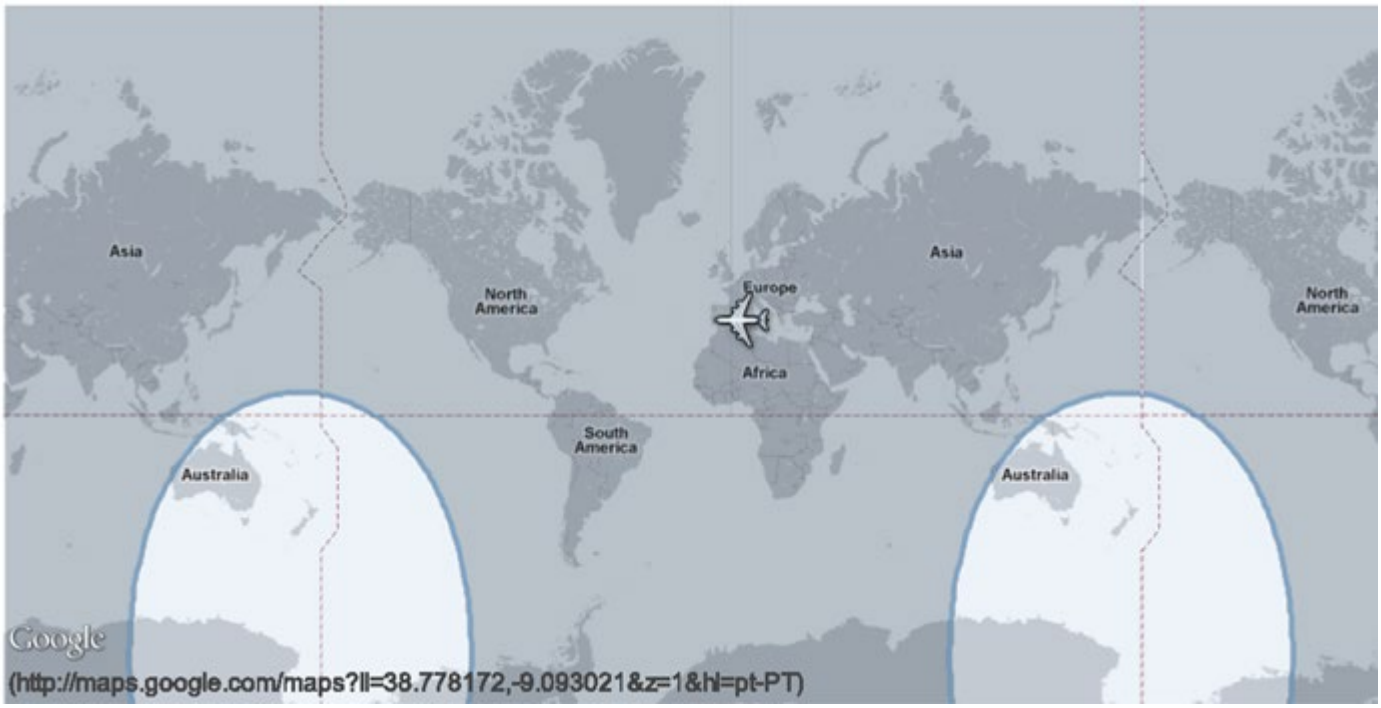
Engines

RR Trent 500 x4



Thrust range	249 kN

The A340-600 seats 380 passengers in a typical three-class cabin layout over a range of up to 7,900 nm/14,600 km, powered by RR Trent 500 engines.



A340-600 range from TEA main HUB (Lisbon)

A350-948XWB

A359 Cabin

In providing ultimate flexibility and versatility to operators, the uncompromised all-new design of the A350-900 delivers capacity, range, and economics, while providing the best cabin environment.

A350s fly efficiently on any sector from short-haul to ultra-long-haul routes up to 9,700nm, carrying 300-410 passengers in typical three-class configurations, and up to 480 passengers in a single-class layout.

The A350's cabin advanced technology delivers high air quality – renewing the air every two-to-three minutes, and precisely controlling temperature and humidity. Passengers can relax knowing that Airbus can arrive at their destination feeling fresh and relaxed.

Integrated connectivity lets travellers stay in touch with the rest of the world, while smart galleys and comfortable crew rest areas provide the cabin personnel with a pleasant working environment – making it even easier to look after the well-being of passengers.

With a maximum take-off weight (MTOW) of 280 tonnes, the A350-900ULR **can fly more than 20 hours non-stop**, combining the highest levels of passenger and crew comfort with unbeatable economics for such distances.

A350-900 SPECS

Dimensions

Overall length	66.80 m
Cabin length	51.04 m
Fuselage width	5.96 m
Max cabin width	5.61 m
Wing span (geometric)	64.75 m
Height	17.05 m
Track	10.60 m
Wheelbase	28.66 m

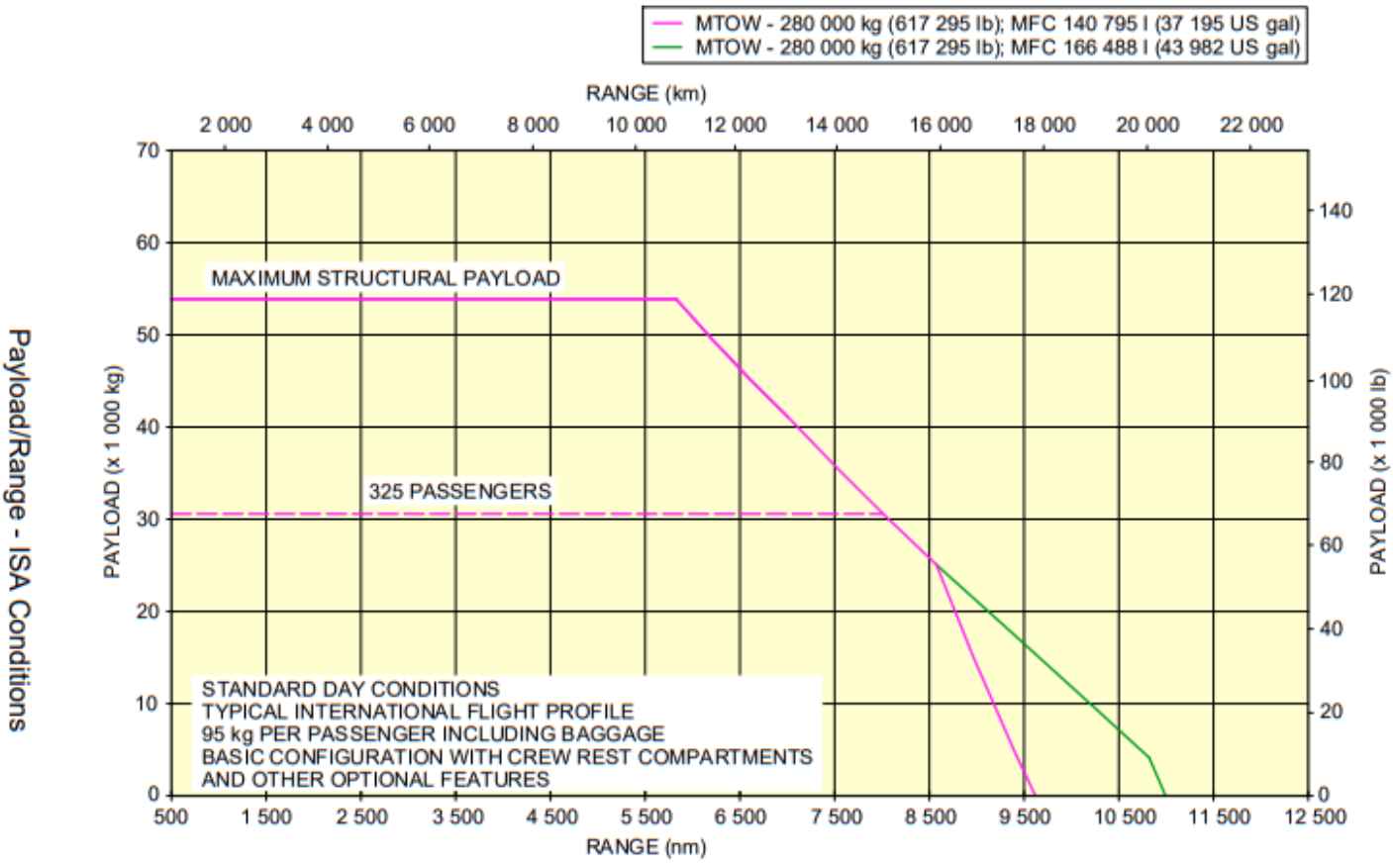
Capacity

Pax Max seating	440
Typical seating 3-class	300-350
Cargo LD3 capacity underfloor	36
Max pallet number underfloor	11
Water volume	223 m³

Performance

Range	15 372 km
Mmo	M0.89
Max ramp weight	283.90 tonnes
Max take-off weight	283.00 tonnes
Max landing weight	207.00 tonnes
Max zero fuel weight	195.70 tonnes
Max fuel capacity	166 488 litres

As the cornerstone member in Airbus' A350 Family, **the A350-900 accommodates 300-350 passengers in a standard three-class configuration**, and flies efficiently on everything from short-range segments to ultra-long-range routes of up to 9,700nm (18,000km) non-stop.



AIRBUS
AN EADS COMPANY

A350-1041XWB

The A350 XWB is the first Airbus mostly made of carbon fibre reinforced polymer. It has a new fuselage designed around a nine-abreast economy cross-section, up from the eight-abreast A330/A340. It has a common type rating with the A330. In service since 2018.

Recognised as the airline industry's large widebody aircraft of reference, the A350-1000 comfortably accommodates from 350 to 410 passengers in a standard three-class configuration, with 40% more area for premium-category seating.

As a founding member of the Airspace cabin family and winner of two prestigious design awards, the A350 creates the perfect space for airline and passenger well being. Committed to passenger experience and delivering performance for airlines, Airspace delivers the next generation flying experience.

The A350-1000 is the biggest variant of the A350 family. It is 7m longer than the -900 variant, and can accommodate up to 40 more passengers.

Both A350 variants are fitted with the Rolls-Royce Trent XWB, however the A350-1000 is powered by the Trent XWB-97, and the A350-900 with the Trent XWB-84.

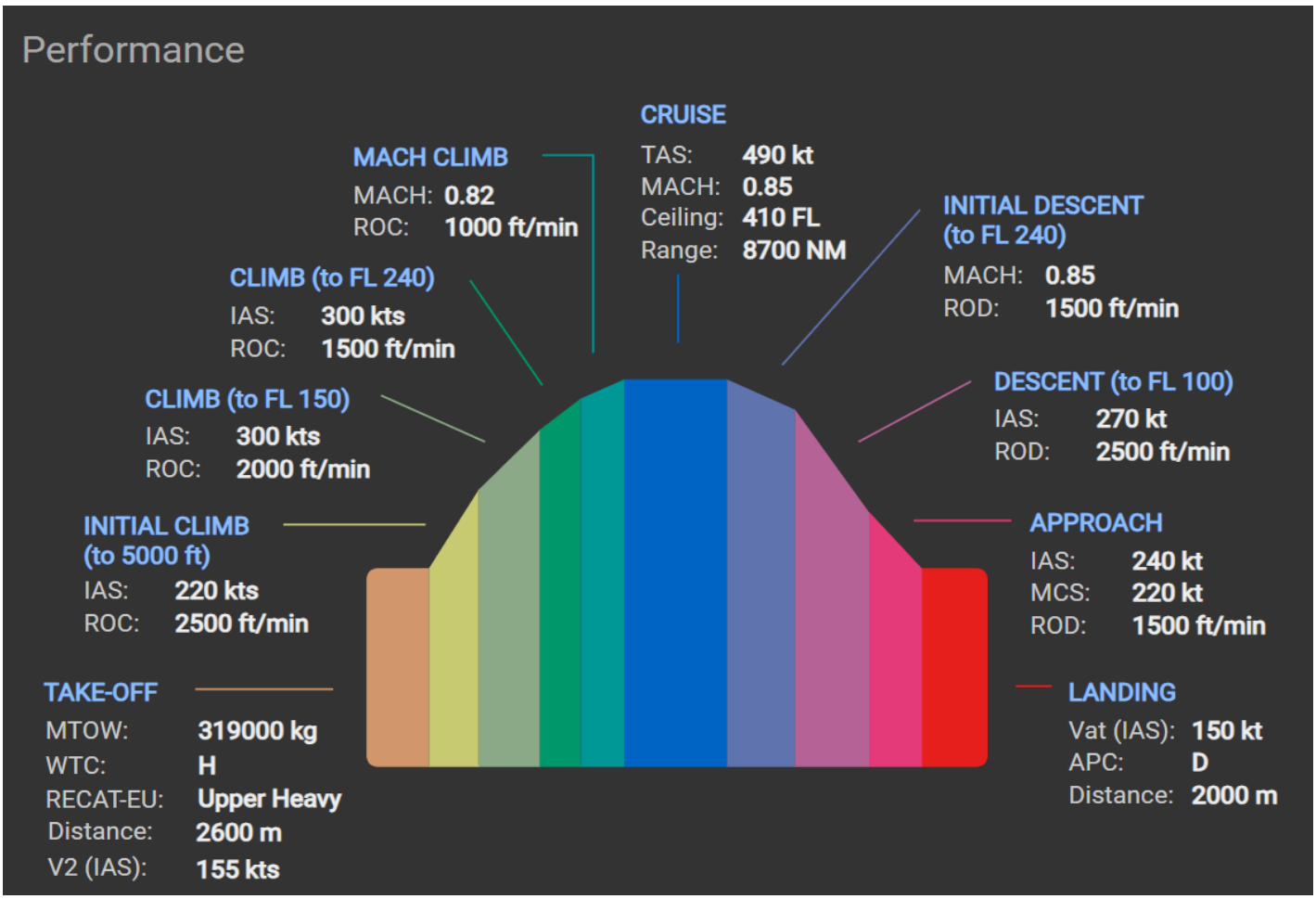
The A350 is made out of 70% advanced materials (53% composite and 14% titanium) resulting in lower weight and reduced maintenance.

For pilots who do not have any Airbus aircraft qualification, full type rating takes 24 days. For A320 pilots, 11 days of training are necessary to get an A350 certification. For A330 pilots, 8 days of training are necessary to get an A350 certification. For A380 pilots, 5 days of training are necessary to get an A350 certification.

Capacity	
Pax Max seating	480 seats
Typical seating 3-class	350-410 seats
Max number Pallets / Containers	14 pallets /44 LD3

Performance	
Range	16,482 km
Cruise Mach	0.85
Max ramp weight	322.90 tonnes
Max take-off weight	322.00 tonnes
Max landing weight	236.00 tonnes
Max zero fuel weight	223.00 tonnes
Max fuel capacity	164,000 litres

Dimensions	
Overall length	73.78 m
Cabin length	58.03 m
Fuselage width	5.96 m
Max cabin width	5.61 m
Wing span (geometric)	64.75 m
Height	17.08 m
Track	10.73 m
Wheelbase	32.48 m



AIRBUS
AN EADS COMPANY

A380-842

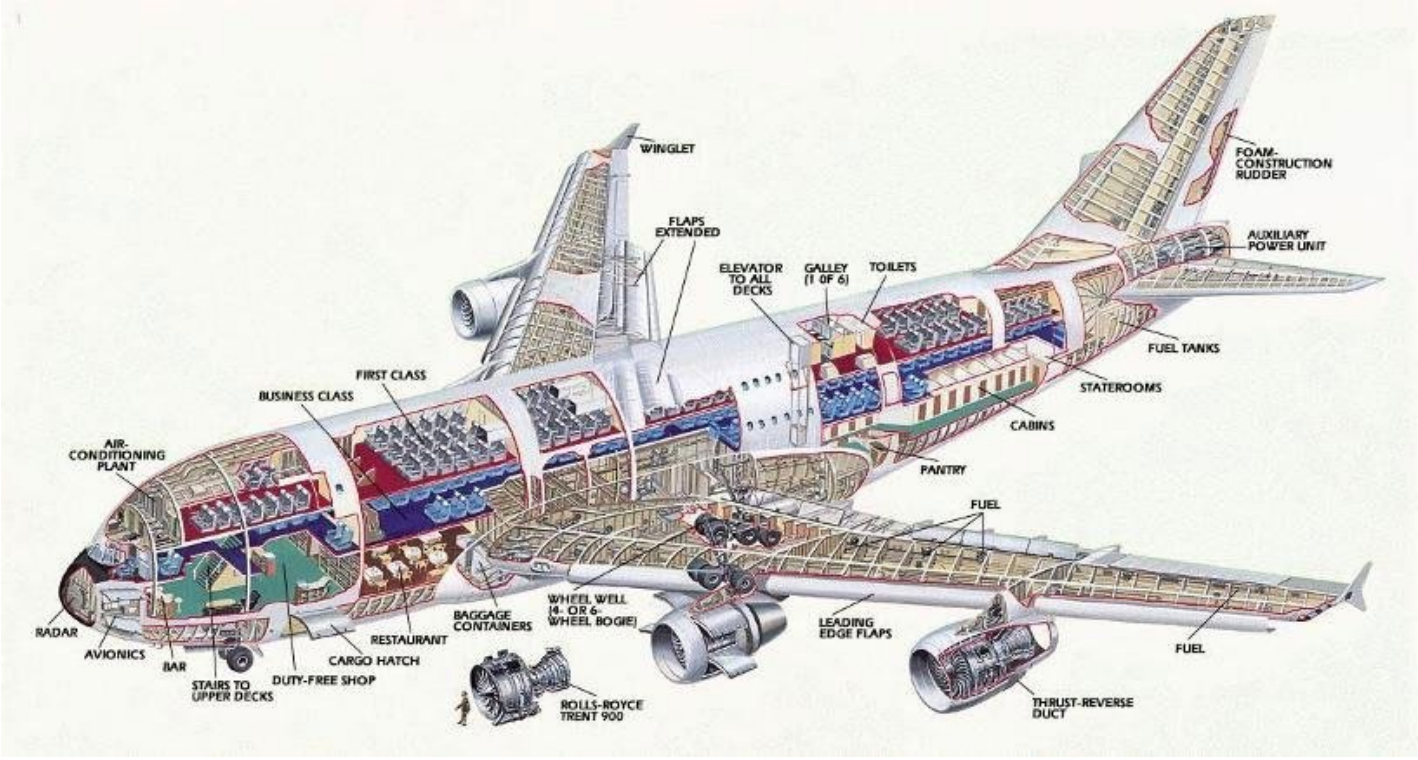
Boarding an A380 is a unique experience that introduces passengers to superior standards of in-flight comfort. Combining the most advanced aviation technology and an inspired cabin design, Airbus is proud to have created an aircraft celebrated for its outstanding quality in every aspect. Leading the industry in standards for innovation, experience and efficiency, it is appreciated by passengers, pilots and crew alike.

The A380 has set a new standard for the global aviation industry. Not only did it usher in a new era for passenger comfort, the A380 also raised the bar for environmental standards with its low fuel consumption per passenger and low noise levels – as well as reduced CO2 and NOx emissions, which has been passed on to future aircraft generations.

A380-842 SPECS

General	
Typical Seating	555 passengers
Airbus A380 Price (average)	US$375.3 Million
Flight Crew	2
Dimensions	
Length	73 Metres (239 Feet 6 Inches)
Height	24.1 Metres (79 Feet)
Fuselage Diameter	7.14 Metres (23 Feet 5 Inches)
Cabin Length	50.68 Metres (166 Feet 4 Inches)
Maximum Cabin Width, Main Deck	6.58 Metres (21 Feet 6 Inches)
Maximum Cabin Width, Upper Deck	5.92 Metres (19 Feet 11 Inches)
Wheel Base	30.4 Metres (99 Feet 9 Inches)
Track	14.3 Metres (46 Feet 11 Inches)
Wing Area	843 Square Metres (9,096 Square Feet)
Wing Span	79.8m (261 Feet 10 Inches)
Sweep, 25% of Chord	33.5%
Weights	
Maximum Ramp Weight	562,000kg (1,238,998lb)
Maximum Take-off Weight	560,000kg (1,234,600lb)
Maximum Landing Weight	386,000kg (850,984lb)
Maximum Zero Fuel Weight	361,000kg (795869lb)
Maximum Fuel Capacity	320,000 Litres (84,535 U.S. Gallons)
Typical Operating Empty Weight	277,000kg (610,700lb)
Typical Volume Payload	664,000kg (1,463,869lb)
Engines	
	A380-800 - Four 311kN (70,000lb), initially de-rated to 302kN (68,000lb), later growing to 374kN (84,000lb) thrust Powerplants. **Rolls-Royce Trent 900** or 363kN (81,500lb) thrust **Engine Alliance (General Electric-Pratt & Whitney)** GP-7200 turbofans.

Performance	
Range with Maximum Number of Passengers.	15,000 Km (8,000 Nm)
Maximum Operating Speed.	0.89 Mach
Long Range Cruising Speed.	0.85 Mach
Service Ceiling.	43.000ft (13,100m)
Cargo	
Total Freight and Cargo Volume.	171 Cubic Metres (6,039 Cubic Feet)
Bulk Hold Volume.	18.4 Cubic Metres (650 Cubic Feet)
Maximum Volume of Pallets.	Under Floor 13 Pallets
Container Capacity.	Underfloor 38 LD3 containers



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