



GENERAL INFORMATION & STRUCTURES



SA FAMILY PRESENTATION

AIRCRAFT GENERAL

The Single Aisle is the most advanced family aircraft in service today, with fly-by-wire flight controls.

The A318, A319, A320 and A321 are twin-engine subsonic medium range aircraft.

The family offers a choice of engines:

International Aero Engines and CFM International for the A319, A320 and A321.

Pratt & Whitney and CFM International for the A318.

The NEO SA family (except the A318) offers a choice of engines:

Pratt & Whitney PW 1100G engines,

CFM LEAP-1A engines.

AIRCRAFT DIMENSIONS

The picture shows the main dimensions for the A320.

The A318, A319 and A321 have exactly the same dimensions except that:

the A318 is 6.12 m (20ft) shorter,
the A319 is 3.74 m (12ft 3in) shorter,
the A321 is 6.93 m (22ft 9in) longer.

SHARKLET PURPOSE

The sharklets are specially designed for a better eco-efficiency and payload-range performance of the A320 family:

Less fuel burn,

Less CO₂,

Revenue payload increased,

Higher range with the original payload,

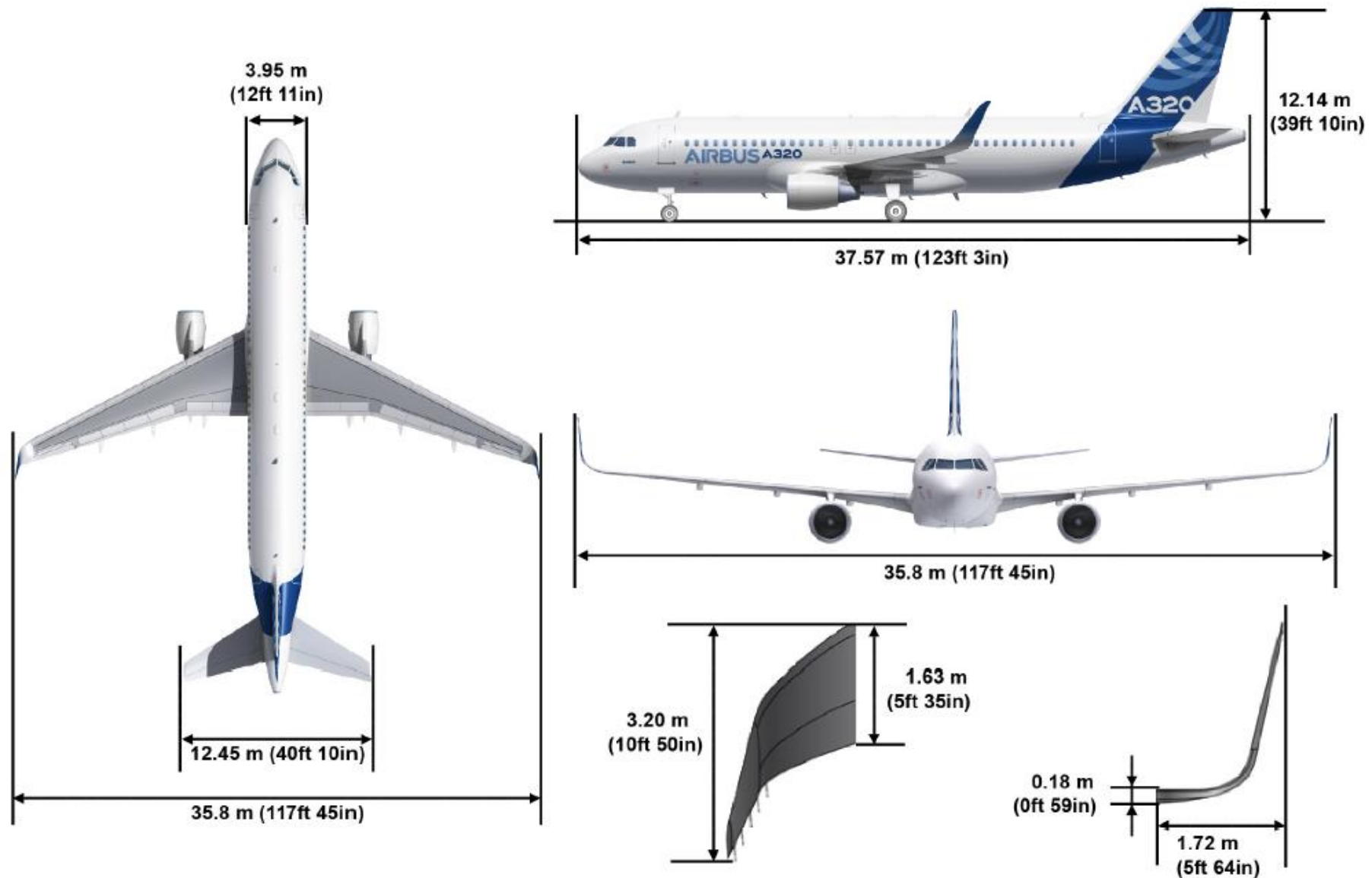
Higher available take-off weight,

Lower average take-off thrust (with large savings in engine maintenance costs),

Lower take-off noise,

Better climb performance,

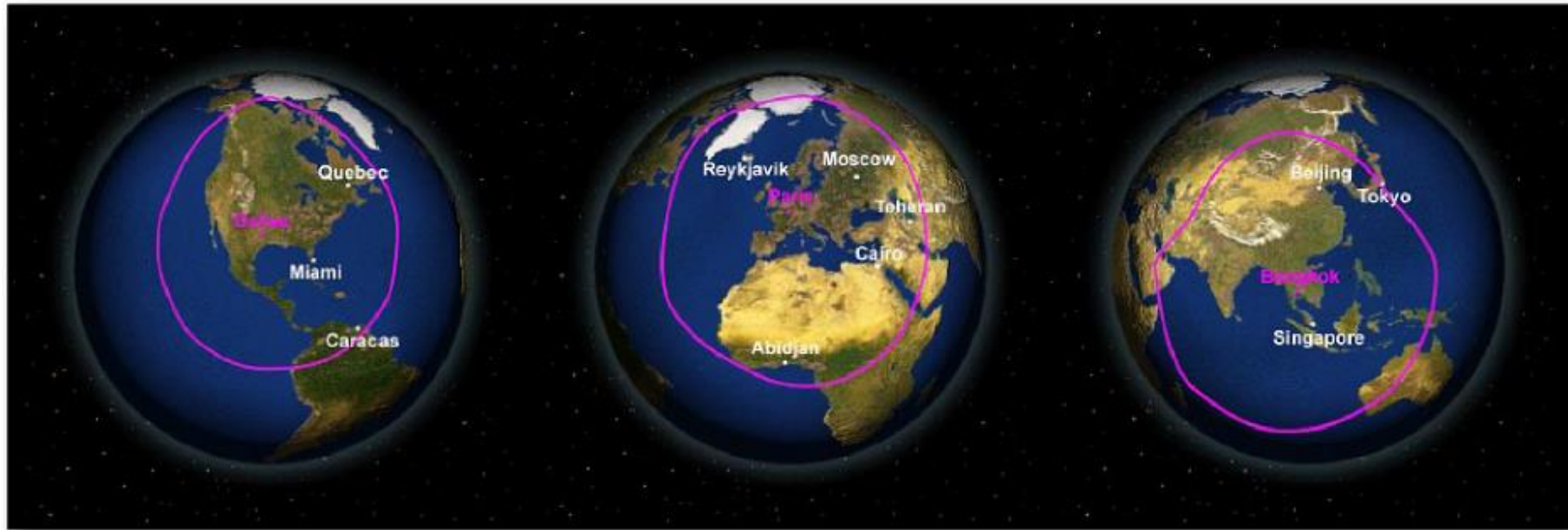
Higher initial cruise altitude.





FAMILY RANGE

The A320 family has a range from 3000 to 4000 Nm.



A320 Family range in Nm:

AIRCRAFT	CEO Winglets	CEO Sharklets	NEO
A318	3100	N/A	N/A
A319	3600	3700	4200
A320	3200	3300	3700
A321	3000	3100	3700



MAXIMUM WEIGHTS AND OPERATING LIMITS

The following picture shows maximum weights and operating limits for the Single Aisle family aircraft.



MODEL	ENGINE		MAXIMUM WEIGHTS (kg)			OPERATING LIMITS	
	MANUFACTURER	TYPE	Max Take-Off Weight (MTOW)	Max Landing Weight (MLW)	Max Zero Fuel Weight (MZFW)	Match Max Operating Speed (MMO)	Maximum Operating Speed (VMO)
A318-100	CFMI	CFM56-5-B	FROM 59000 TO 68000	FROM 56000 TO 575000	FROM 53000 TO 54500	0.82	350 kt
	PW	PW 6122					
A319-100	CFMI	CFM 56-5A CFM 56-B	FROM 64000 TO 75500	FROM 61000 TO 62500	FROM 57000 TO 58500		
	IAE	IAE V2522 IAE V2524 IAE V2527					
A320-100	CFMI	CFM56-5A	68000	63000	59000		
A320-200	CFMI	CFM 56-5A CFM 56-5B	FROM 73500 TO 78000	FROM 64500 TO 66000	FROM 61000 TO 62500		
	IAE	IAE V2527 IAE V2500					
A320 NEO	PW	PW1127G-JM	FROM 73500 TO 79000	FROM 66300 TO 67400	FROM 62800 TO 64300		
	CFM	LEAP-1A					
A321-100	CFMI	CFM56-5B	FROM 89000 TO 93500	FROM 73500 TO 75000	FROM 69500 TO 71000		
	IAE	IAE V2530					
A321-200	CFMI	CFM56-5B	FROM 89000 TO 93000	FROM 75500 TO 77800	FROM 71500 TO 73800		
	IAE	IAE V2533 IAE V2530					



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