

Aircraft Recognition Guide

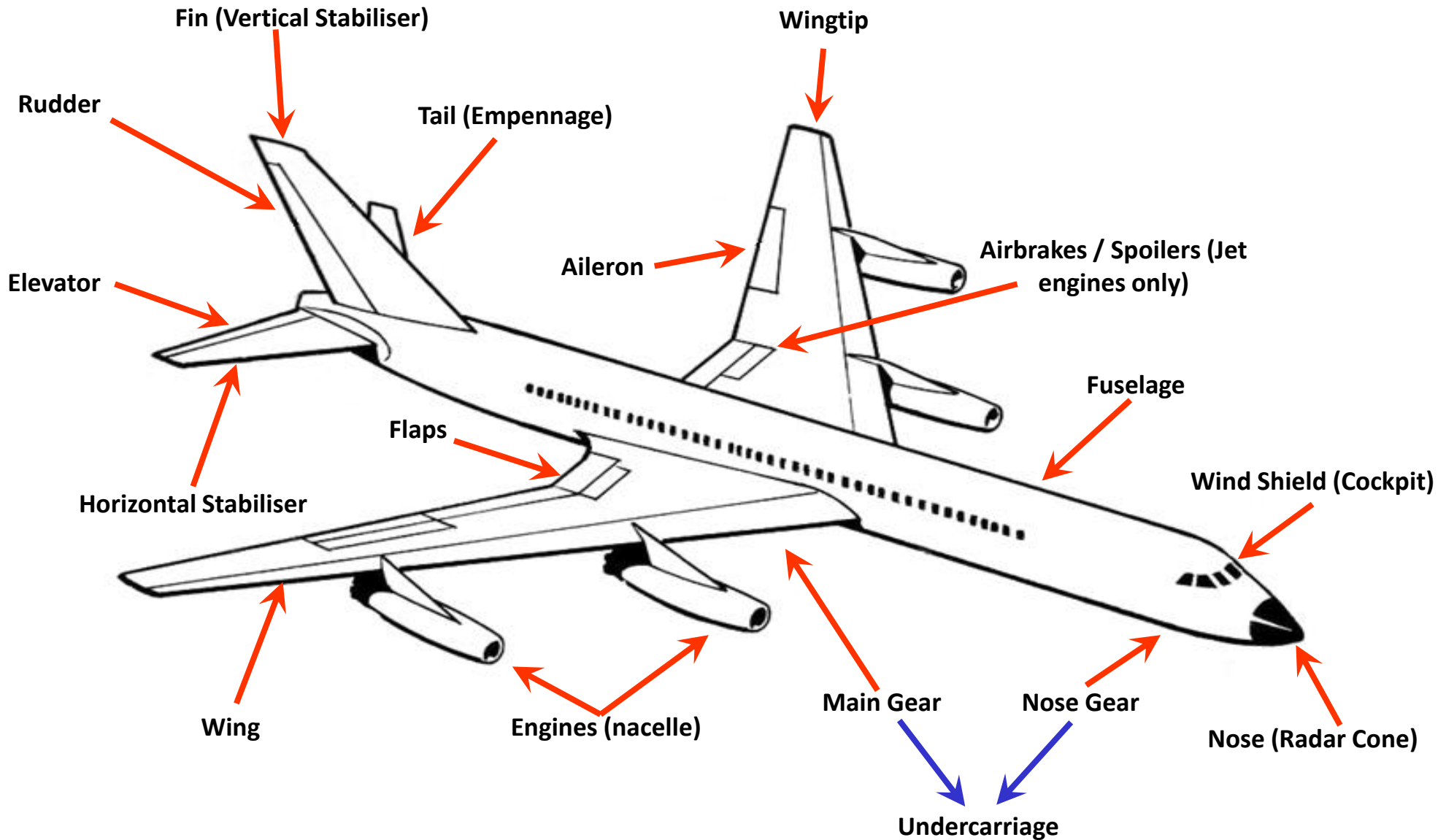
Driver training



Contents

Aircraft components-----	Page 3
Commercial aircraft ID-----	Page 4-66
Helicopter ID-----	Page 67-68
Business Jet ID-----	Page 69-74
Light aircraft ID-----	Page 75-77
Military aircraft ID-----	Page 78-83
Aircraft Dimensions-----	Page 84-91
Taxiway signage-----	Page 92
Phonetic Alphabet-----	Page 93
Radiotelephony-----	Page 94

Aircraft Components



Airbus A200-100 (Formally CS100)

4



Note

Airbus purchased a 50.01% majority stake in the CSeries program in October 2017, with the deal closing in July 2018. The Airbus A220, previously known as Bombardier CSeries (or C Series), is a family of narrow-body, twin-engine, medium-range jet airliners marketed by Airbus but designed and built by the Canadian manufacturer Bombardier Aerospace.

Airbus A200-300 (Formally CS300)

Key Features

- Double Emergency exits over wing
- Winglets
- Engines appear oversized compared to rest of aircraft
- CS300 has extended fuselage than the CS100



Airbus A300 B4

5



CC.1

Key Features

- Dorsal Fin
- No fenced wingtip
- Wide body

Airbus A300-600

Key Features

- Dorsal Fin
- Fenced wingtip
- Wide body



CC.2

Airbus A300-600 ST Beluga



Airbus A330-743L Beluga XL

Key Features

- XL has larger wingspan and longer fuselage than the ST
- Canted Wingtips



Airbus A310-200



Key Features

- Dorsal Fin
- No fenced wingtip
- Wide body fuselage, shorter than A300

Airbus A310-300



Key Features

- Dorsal Fin
- Fenced wingtip (also fitted on later A310-200)
- Wide body fuselage, shorter than A300
- Emergency Exit Over Wing



Airbus A318



CC.6

Key Features

- Shorter Body Than A319/20/21
- Fenced wingtip
- Larger Tail than A319/20/21
- Single Emergency Exit over wing

Airbus A319

Key Features

- Shorter Body Than A320/21
- Fenced wingtip (Newer models may have Sharklet wingtips)
- Double Emergency Exit over wing



Airbus A320



Key Features

- Longer Body Than A319
- Fenced wingtip
- Two Emergency Exit over wing
- Newer models may have Sharklet wingtips

Airbus A321

Key Features

- Longer Body Than A320
- Fenced wingtip
- Two doors forward and rear of wing
- Newer models may have Sharklet wingtips like pictured



Airbus A320 neo



Key Features

- The Neo range all have sharklet wingtips
- Larger engines

Airbus A321 neo



Airbus A330-200



Key Features

- Winglets
- Widebody Fuselage
- “cylindrical looking” engines on each wing
- *A300 -200F - Extension on front undercarriage*

Airbus A330-200F



Airbus A330-300

Key Features

- Winglets
- Longer Fuselage than A330-200
- Two doors forward and rear of wing
- Shorter engines on newer models





Airbus A340-200



Key Features

- Winglets
- Widebody Fuselage
- Two doors forward and rear of wing
- 2 “cylindrical looking” engines on each wing

Airbus A340-300



Key Features

- Winglets
- Widebody Fuselage
- 2 full-size doors before and after wing, slightly further apart than on A340-200
- 2 “cylindrical looking” engines on each wing. Shorter on newer models

Airbus A340-500

14



Key Features

- Winglets
- Widebody Fuselage
- Extended Fuselage
- Centre main bogie wheel
- Short cylindrical engines larger than on A340-200/300

Airbus A340-600

Key Features

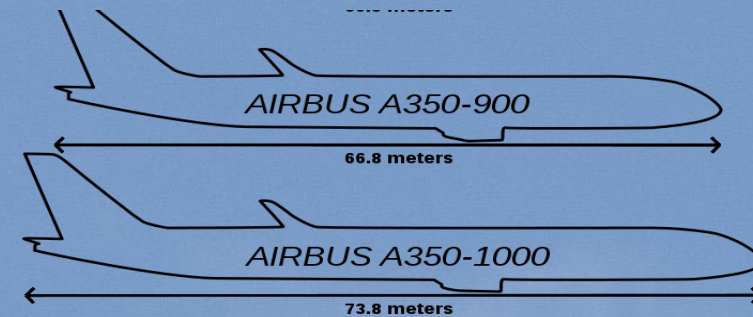
- Winglets
- Widebody Fuselage
- Long Fuselage
- Centre main bogie wheel
- Engines larger than on A340-200/300
- Emergency Exit door over wing



A350 XWB-900/1000

Key Features

- Flex wings with curved tips
- Small tail in relation to rest of aircraft
- Different nose / cockpit area compared to previous Airbus Aircraft
- 4 Large doors on each side similar to A321



A380-800

Key Features

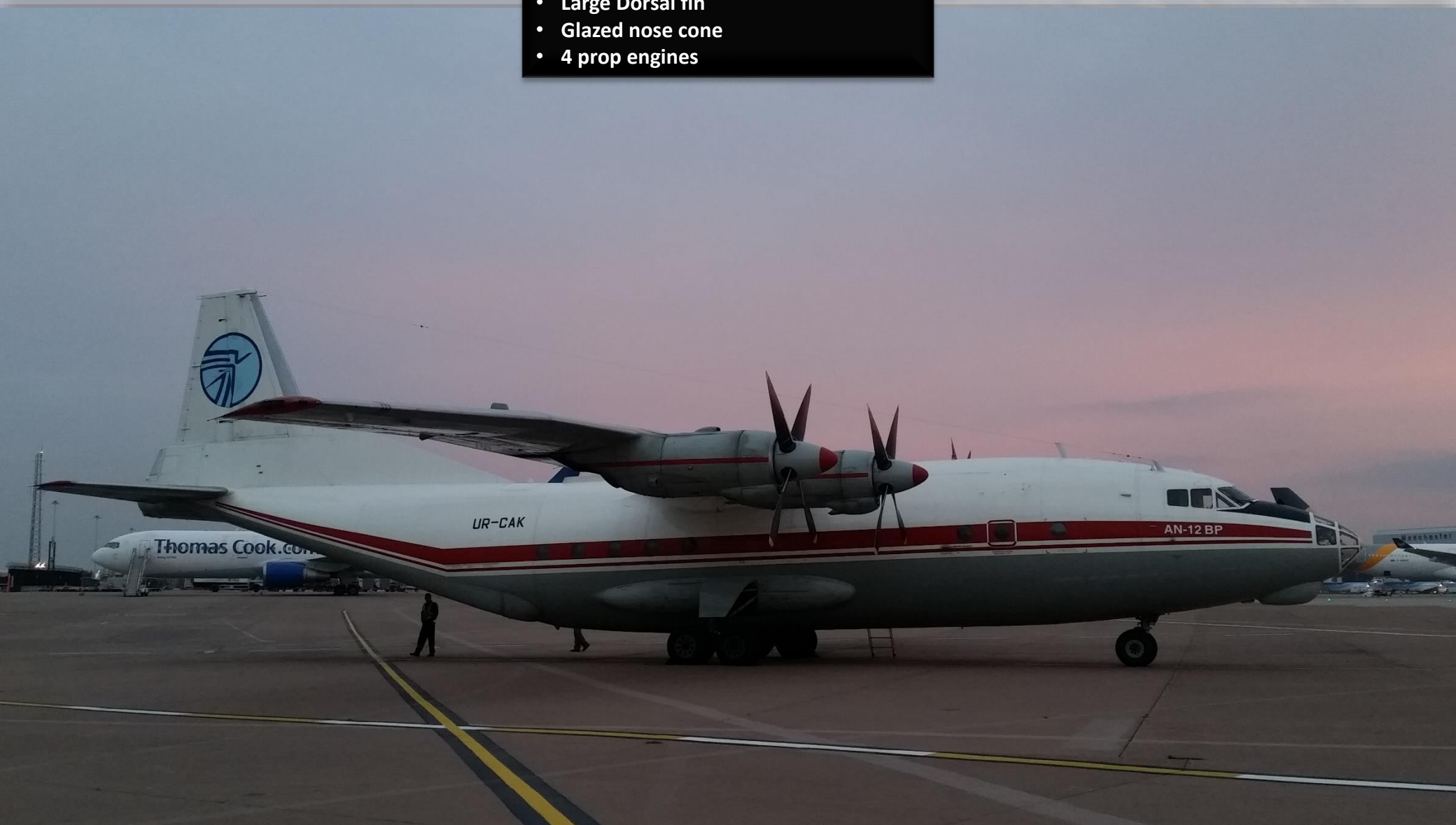
- Double Decked Aircraft
- Fence wingtips
- 4 main gears
- 4 large engines with rear cone



Antonov AN-12

Key Features

- Large Dorsal fin
- Glazed nose cone
- 4 prop engines



Key Features

- H tail
- Partial glazed nose cone
- 4 counter rotating prop engines



Antonov AN-26

Key Features

- Large Dorsal fin
- 'Fish bowl' prominent on front portside
- 2 prop engines
- High-wing sloping down away from aircraft



Antonov AN-72



Key Features

- Large jet engines placed on top of wings
- 'T-Tail' with forward facing point
- Long pointed nose cone

Antonov AN-74

Key Features

- Large jet engines placed on top of wings
- 'T-Tail' with forward facing point
- Long pointed nose cone
- Additional Door under wing



Antonov AN-124

Key Features

- 4 engines mounted on downward sloping wings
- Double nose wheel
- Aligned main gear wheels



Key Features

- 6 bladed prop engines
- Large Dorsal Fin





Key Features

- Short Fuselage
- 'T-Tail'

Antonov AN-158

Key Features

- 'T-Tail'
- Extended forward fuselage compared with the AN-148



Antonov AN-225 Mriya

Key Features

- 6 engines mounted on downward sloping wings
- Double nose wheel
- Aligned main gear wheels
- Largest aircraft in service
- 'H-Tail'





Key Features

- Tail-wing positioned high on tailfin
- Fuselage low to ground
- 4 bladed prop engines
- Rear pointed tail

ATR72

Key Features

- Tail-wing positioned high on tailfin
- Fuselage low to ground
- Longer front fuselage section (than ATR42)
- Rear pointed tail



BAe 146-100



Key Features

- 'T-Tail'
- Same size as RJ70
- Short fuselage forward of wing
- 4 engines mounted on downward sloping wing

BAe Avro RJ70



Key Features

- 'T-Tail'
- Same size as BAe 146-100
- Short fuselage forward of wing
- 4 engines mounted on downward sloping wing

BAe 146-200

Key Features

Fuselage section fore of wing longer than 146-100/RJ70, shorter than 146-300/RJ100



BAe 146-300

Key Features

Fuselage section fore of wing longer than 146-100/RJ70 and 146-200/RJ85



BAe Avro RJ85

Key Features

Fuselage section fore of wing longer than 146-100/RJ70, shorter than 146-300/RJ100



BAe Avro RJ100

Key Features

Fuselage section fore of wing longer than 146-100/RJ70 and 146-200/RJ85



BAe (Hawker Siddeley) 125

Key Features

- Low wing
- Fuselage mounted engines
- Long Nose
- Cruciform tail





Key Features

- Formally a McDonnell Douglas MD95 design before Boeing re-branded the plane
- Two Emergency Exit doors over wing
- Larger Engines than previous MD-80

Boeing 727

Key Features

- 3 slim long rear Engines
- Two Emergency Exit doors over wing(PAX only)
- Air Stairs located under engines
- Same Fuselage as B737
- Port Holes above windshield



Boeing 737-300



Key Features

- Fuselage low to the ground
- Engines have a 'flat bottom'
- Longer fuselage than 737-200/500/600
- Single emergency exit over wing

Boeing 737-400

Key Features

- Fuselage low to the ground
- Engines have a 'flat bottom'
- Longer fuselage than 737-300/500/600
- Two emergency exit over wing



Boeing 737-500

Key Features

- Fuselage low to the ground
- Engines – appear to have a 'flat bottom'
- Shorter fuselage than 737-300/400/700/800/900
- Single emergency exit over wing



Boeing 737-600

Key Features

- Fuselage low to the ground
- Engines – appear to have a 'flat bottom'
- Shorter fuselage than 737-300/400/700/800/900
- Single emergency exit over wing



Boeing 737-700/BBJ

Key Features

- Fuselage low to the ground
- Engines appear to have a 'flat bottom'
- Longer fuselage than 737-100/200/500/600
- Single emergency exit over wing



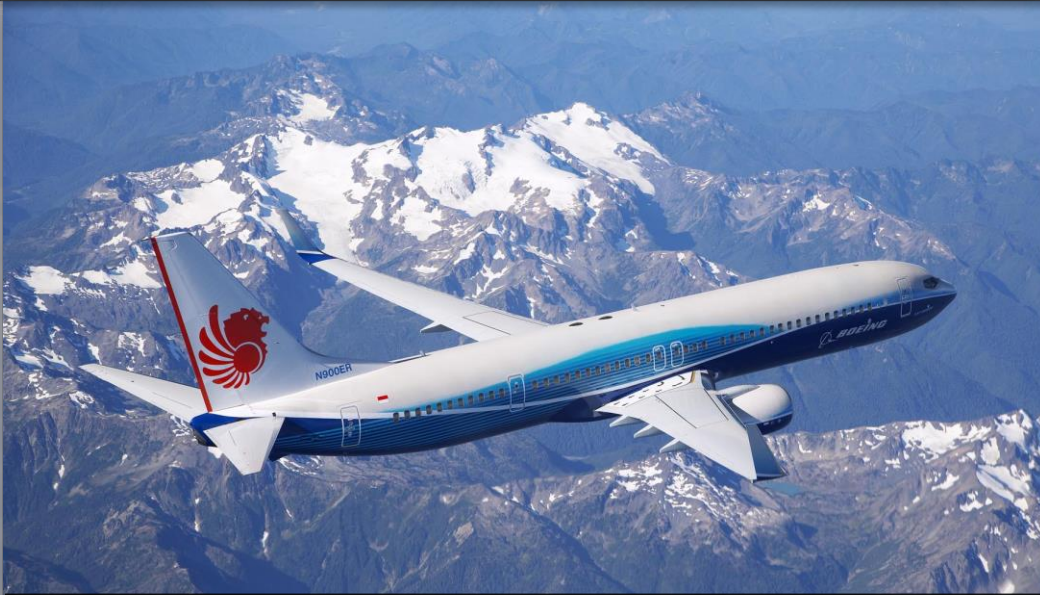
Boeing 737-800/BBJ2

Key Features

- Fuselage low to the ground
- Engines appear to have a 'flat bottom'
- Longer fuselage than 737-100/200/500/600
- Two emergency exit over wing



Boeing 737-900/BBJ3



Key Features

- Two Emergency Exit doors over wing plus additional exit to the rear
- Longest Fuselage in the 737 range

Boeing 737-900 ER

Key Features

- Two Emergency Exit doors over wing plus additional exit to the rear
- Longest Fuselage in the 737 range
- ER = Extended Range



Boeing 737-Max7



Boeing 737-Max8



Key Features

- All Max 737s have
- Serrated engine cowlings
- New large split wingtip design
- Each Model increases in overall length

Boeing 737-Max9



Boeing 737-Max10



Boeing 747-300

CC.62



Key Features

- Extended upper deck compared to B747-100/200
- Full size door added to upper deck
- Long engines showing rear cone
- Additional windows added in front of forward door

Boeing 747-400

Key Features

- Upgraded engines covering rear cone
- Winglets introduced
- Cargo model has a reduced upper deck compared to Pax model

Boeing 747-400F





Key Features

- Extended Upper Deck compared to 747-400
- Full size door added to upper deck
- Serrated rear engine cowlings & Larger Engines
- Longer Fuselage compared to previous models
- New Flex wingtip design

Boeing 747-800F

Key Features

- Reduced upper deck compared to B747-800
- Full size door added to upper deck
- Serrated rear engine cowlings & Larger Engines
- Longer Fuselage compared to previous models
- New Flex wingtip design



Boeing 747-LCF (Large Cargo Freighter)



Boeing 757-200



Key Features

- Narrow body aircraft
- Two emergency exits over wing
- Winglets introduced on newer models

Boeing 757-200F



Boeing 757-300

Key Features

- Narrow body aircraft
- Two emergency exits over wing
- Winglets introduced on newer models
- Extended fuselage compared to 200 model



Boeing 767-200



Key Features

- Wide body aircraft
- One emergency exit over wing
- No winglets
- 4 tyres on main gear

Boeing 767-300

Key Features

- Wide body aircraft
- Two emergency exits over wing
- Winglets introduced on newer models
- Extended Front Fuselage



Boeing 767-400ER

Key Features

- Wide body aircraft
- Two forward doors
- Raked wingtips
- Extended Front Fuselage



Boeing 777-200



Boeing 777-200ER



Key Features

- Wide body aircraft
- Four large doors each side
- Raked wingtips introduced on all but 777-200
- Large engines
- 6 tyres on main bogey
- Considerable length between base of tailfin and APU
- 200LR & Freighter models have increased wingspan

Boeing 777-200LR



Boeing 777-Freighter



Boeing 777-300



Key Features

- Wide body aircraft
- Raked wingtips introduced
- Longer Fuselage
- 6 tyres on main bogey
- Considerable length between base of tailfin and APU exhaust
- 300ER has larger wingspan compared to 300 model

Boeing 777-300ER



Boeing 777-8/9/10X

Future Aircraft

Key Features

- Wide body aircraft
- Folding wingtips introduced
- Serrated engine cowlings
- 6 tyres on main bogey
- Each model increases with length



Boeing 787-8 Dreamliner



Boeing 787-9 Dreamliner



Key Features

- Serrated Engine Cowlings
- Flex-wing with slight wingtip curve
- Overall fuselage & wingspan length increases with each model

Boeing 787-10 Dreamliner



Canadair Regional Jet CRJ-100



Key Features

- Shorter fuselage than CRJ-700/900
- No cone visible from rear of engine

Canadair Regional Jet CRJ-200



Key Features

- Shorter fuselage than CRJ-700/900
- No cone visible from rear of engine

Canadair Regional Jet CRJ-700



Key Features

- Shorter fuselage than CRJ-900
- Smaller Rear engine with cone visible
- Pointed APU Exhaust
- Single Exit over wing

Canadair Regional Jet CRJ-900



Key Features

- Longer fuselage than CRJ-100/200/700
- Smaller Rear engine with cone visible
- Pointed APU Exhaust
- Two emergency exits over wing

Canadair Regional Jet CRJ-1000

Key Features

- Double Emergency exits over wing
- Winglets
- Longest Fuselage of the CRJ range





Key Features

- Double Emergency exits over wing
- Winglets
- Engines appear oversized compared to rest of aircraft
- CS300 has extended fuselage than the CS100

CS300



Canadair Challenger 300



Canadair Challenger 600

47



Canadair Challenger 850



Bombardier Global Express

48



Bombardier Global 5000



Bombardier Global 6000/XRS



Bombardier Global 7000



Bombardier Global 8000



Bombardier CL-215



Key Features

- Water Bomber
- 3 Prop blades
- No Additional stabilisers on tail
- Similar to CL-415

Bombardier CL-415

Key Features

- Water Bomber
- 4 Prop blades unlike CL-215
- Additional stabilisers on tail
- Based on CL-215



Comac ARJ21-700



Key Features

- Model based on MD-90
- Winglets
- 'T-Tail'
- Retracted undercarriage visible from under aircraft

Comac C919

Key Features

- Model similar in size to A320
- Slightly curved up wingtips
- 2 exits over wings



De Havilland Canada DHC-8-100/200/300 Dash

52



Key Features

- Main gear undercarriage bay located within engine compartment
- 'T-Tail'
- Fuselage shorter than 400 series

De Havilland Canada DHC-8-400 Dash

Key Features

- Main gear undercarriage bay located within engine compartment
- 'T-Tail' with rounded point
- Extended front fuselage compared to previous models



Embraer 135



Key Features

- 4 windows after Emergency Exit door
- Emergency exit over wing

Embraer 145

53



Key Features

- 6 windows after Emergency Exit door
- Emergency exit over wing

Embraer Phenom 300



Embraer 170



Key Features

- Shorter fuselage than 190/5
- No Emergency Exit door over Wings

Embraer 175

54



Key Features

- Shorter fuselage than 190/5
- No Emergency Exit door over Wings

Embraer 190



Key Features

- Longer fuselage than 170/5
- Emergency Exit door over Wings

Embraer 195



Key Features

- Longer fuselage than 170/5
- Emergency Exit door over Wings

Embraer E190-E2



Key Features

- All E2 jets are slightly larger in length and wingspan to original model however the tail of the aircraft is small.
- Engines appear larger than original models

Embraer E195-E2



Fairchild Dornier 328 Prop



Fairchild Dornier 328 Jet



Key Features

- Ventral fins under tail
- Pointed tail

Fairchild Swearingen Merlin



Fairchild Swearingen Metroliner



Fokker 50

57



Fokker 100



Ilyushin Il-18



Ilyushin Il-62



Ilyushin Il-76



Key Features

- 4 engines on downward sloping wings
- Glazed lower nose cone
- Wheel alignment differs from similar Antonov aircraft

Ilyushin Il-78 Midas



Ilyushin Il-86



Key Features

- 4 long narrow engines
- Shorter fuselage than IL-96
- Centre main bogie gear

Ilyushin Il-96



Key Features

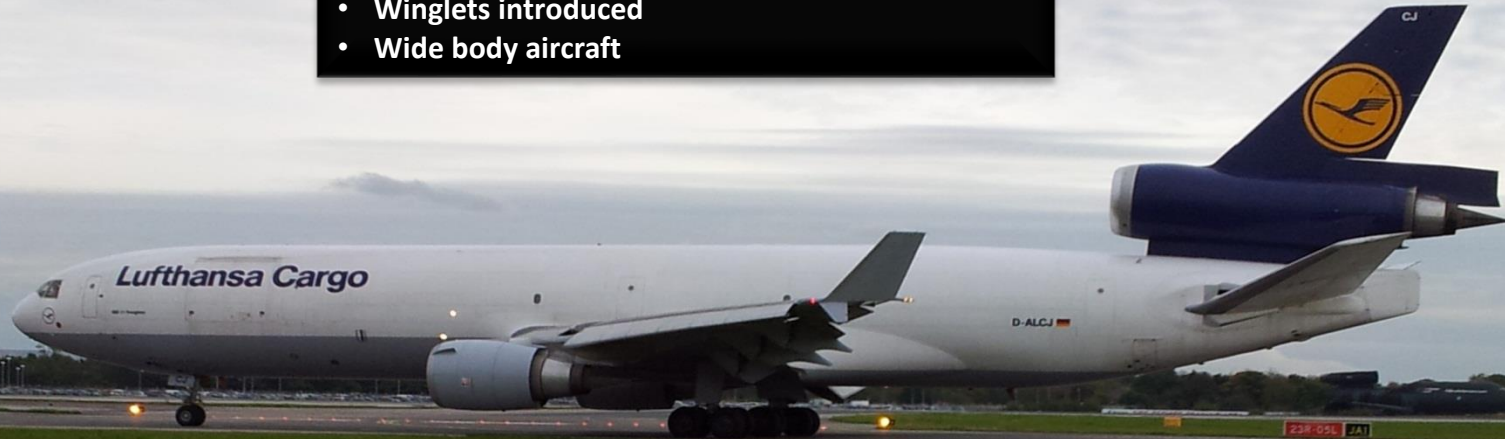
- 4 Modern PS 90A larger engines
- Longer fuselage than IL-86
- Centre main bogie gear



McDonnell Douglas MD-11

Key Features

- Tail engine intake is same height as exhaust
- Three engines
- Winglets introduced
- Wide body aircraft



MD11



DC10

McDonnell Douglas MD-81



Key Features

- Rear door
- Water deflectors behind wheels
- Pointed rear APU

McDonnell Douglas MD-82

62



Key Features

- Slim engines
- Water deflectors behind wheels

McDonnell Douglas MD-83



Key Features

- Larger engines
- Water deflectors behind wheels

McDonnell Douglas MD-87



Key Features

- Larger engines
- Water deflectors behind wheels
- Shorter Fuselage

McDonnell Douglas MD-90

Key Features

- Water deflectors behind wheels
- Larger Engines than MD81/82/83/87
- Longer fuselage than MD81/82/83/87
- 2 windows in-between emergency exit unlike one window in previous models



Saab 340



Key Features

- Large Dorsal fin
- Low-wing
- 4 blade prop engines

Saab 2000

Key Features

- Large Dorsal fin
- Low-wing
- Long, slim fuselage
- 6 bladed prop engines



Sukhoi Superjet 100

Key Features

- Distinctive wind shield
- No emergency exit over wing
- No wingtip device



Tupolev Tu-154



Key Features

- Oval 3rd engine
- 'T-Tail' with point

Tupolev Tu-204/214



Key Features

- Similar to Boeing 757 / Airbus A321
- Fuel tanks that extends down the fuselage

Tupolev Tu-334



Key Features

- Winglets
- No emergency exit over wing

Irkut MC-21



Future Aircraft

Agusta 109



Bell Jet ranger



Eurocopter EC135



Eurocopter EC145



Eurocopter HH-65 Dolphin

68



CC.123

Sikorsky S-72



Sikorsky S-92A



Beechcraft 1900



Hawker Beechcraft 400

69



Beechcraft King Air 90



Beechcraft Super King Air 200



Cessna 510 Citation



Cessna 525 Citation



Cessna 550 Citation



Cessna 560XL Citation



Dassault Falcon 50



Dassault Falcon 7X



Dassault Falcon 900



Dassault Falcon 2000



Gulf stream G500/550



Gulf stream G650

72



Beechcraft Raytheon 390



Learjet 35



Learjet 45



Learjet 55



Learjet 60





Cessna 150/152



Key Features

- Carries up to 2 people

Cessna 172

194



Key Features

- Larger than 152
- Carries up to 4 people

Cirrus SR20



Key Features

- Higher wing than SR20
- 3 blade prop

Cirrus SR22



Piper PA-23 Aztec



Piper PA-28 Cherokee



Piper PA-31 Navajo



Piper PA-34 Seneca





Agusta Westland Apache WAH-64D



AgustaWestland Merlin



Boeing Chinook



Westland Lynx



Westland Sea King



Airbus A400M Atlas



Lockheed C-5M Super Galaxy

80



Boeing C17 Globe master



Lockheed C-130 Hercules



(AWACS – Airborne Warning & Control System)

81

Boeing E3 Sentry



Boeing E767



Beriev A-50EI Mainstay



Eurofighter Typhoon









BAE Hawk

82



Lockheed Martin F35 A/B/C Lightning



CTOL	STOVL	CV
		
Span (ft) 35 Length (ft) 51.4 Wing Area (ft²) 460	Span (ft) 35 Length (ft) 51.1 Wing Area (ft²) 460	Span (ft) 43 Length (ft) 51.4 Wing Area (ft²) 668
		
Weight Empty (lb) 29,036* Internal Fuel (lb) 18,480	Weight Empty (lb) 32,161* Internal Fuel (lb) 14,003	Weight Empty (lb) 32,072* Internal Fuel (lb) 20,085

McDonnell Douglas KC-10 Extender



Lockheed Tristar KC1



Aircraft Model	Code Size	ICAO Code	IATA Code	Max Seats	Dimensions			84
					Length	Wingspan	Height	
Airbus A220-100 (Was previously CS100)	C	BCS1	CS1	133	35.00m	35.1m	11.5m	
Airbus A220-300 (Was previously CS300)	C	BCS3	CS3	160	38.7m	35.1m	11.5m	
Airbus A310-200 - 300	D	A310	312	240	44.66m	43.9m	15.8m	
Airbus A318	C	A318	318	132	31.44m	34.1m	12.51m	
Airbus A319	C	A319	319	156	33.84m	34.1m	11.76m	
Airbus A319 (Sharklets)	C	A319	32D	156	33.84m	35.48m	11.76m	
Airbus A319 Neo	C	A19N	319	160	33.84m	35.80m	11.76m	
Airbus A320-100/200	C	A320	320	180	37.57m	34.1m	11.76m	
Airbus A320 (Sharklets)	C	A320	32A	180	37.57m	35.48m	11.76m	
Airbus A320 Neo	C	A20N	320	195	37.57m	35.80m	11.76m	
Airbus A321-100/200	C	A321	321	220	44.51m	34.1m	11.76m	
Airbus A321 (Sharklets)	C	A321	32B	220	44.51m	35.48m	11.76m	
Airbus A321 Neo	C	A21N	321	240	44.51m	35.80m	11.76m	
Airbus A330-200	E	A332	332	380	58.82m	60.3m	17.39m	
Airbus A330-200 Freighter	E	A332	33X	All Cargo	58.82m	60.3m	16.90m	
Airbus A330-300	E	A333	333	440	63.69m	60.3m	16.83m	
Airbus A330-743L Beluga XL	E	A337	TBC	All Cargo	63.1m	60.3m	18.9m	
Airbus A330-800 Neo	E	A338	338	406	58.82m	64m	17.39m	
Airbus A330-900 Neo	E	A339	339	440	63.66m	64m	16.79m	
Airbus A340-200	E	A342	342	300	59.39m	60.30m	16.70m	
Airbus A340-300	E	A343	343	335	63.60m	60.30m	16.85m	
Airbus A340-500	E	A345	345	359	67.90m	63.45m	17.10m	
Airbus A340-600	E	A346	346	419	75.30m	63.45m	17.30m	
Airbus A350-900	E	A359	359	475	66.8m	64.75m	17.05m	
Airbus A350-1000	E	A35K	351	550	73.78m	64.75m	17.08m	
Airbus A380 pax	E	A388	388	853	72.73m	79.75m	24.45m	
Airbus A380 Freighter	E		38F	All Cargo	72.73m	79.75m	24.45m	
Airbus A600-600 Freighter	D	A306	ABY	All Cargo	54.1m	44.84m	16.54m	

Aircraft Model	Code Size	ICAO Code	IATA Code	Max Seats	Dimensions 85		
					Length	Wingspan	Height
Antonov AN-26	C	AN26	A26	50	24.26m	29.20m	8.32m
Antonov AN-28 ZL Miele M-28 Skytruck	B	AN28	A28	18	12.98m	22m	4.6m
Antonov AN-30	C	AN30	A30	50	24.26m	29.20m	8.32m
Antonov AN-32	C	AN32	A32	50	23.78m	29.20m	8.75m
Antonov AN-140	C	A140	A40	52	22.60m	24.51m	8.23m
Antonov AN-148	C	A148	A81	80	29.13m	28.91m	8.19m
Antonov AN-158	C	A158		99	34.36m	28.91m	8.60m
Antonov AN-124 Russian	F	A124	A4F	350	68.96m	73.3m	20.78m
Antonov AN-24	C	AN24	AN4	50	23.53m	29.2m	8.32m
Antonov AN-26 / AN-30 /AN-32	C		AN6	50	24.26m	29.20m	8.32m
Antonov AN-72 / AN-74	C	AN72	AN7	52	28.07m	31.89m	8.65m
Antonov 225 Mriya	U	A225	A5F	All Cargo	84m	88.4m	18.1m
Antonov AN-12	D	AN12	ANF	14	33.10m	38m	10.53m
Aerospatiale/Alenia ATR 42-300 / 320	C	AT43	AT4	50	22.67m	24.57m	7.59m
Aerospatiale/Alenia ATR 42-500	C	AT45	AT5	50	22.67m	24.57m	7.59m
Aerospatiale/Alenia ATR 72	C	AT72	AT7	74	27.17m	27.05m	7.65m
Avro RJ100 Avroliner	C	RJ1H	AR1	100	30.99m	26.34m	8.59m
Avro RJ70 Avroliner	C	RJ70	AR7	70	26.16m	26.34m	8.61m
Avro RJ85 Avroliner	C	RJ85	AR8	85	28.60m	26.34m	8.61m
Avro RJX100	C	RX1H	AX1	85 to 100	30.99m	26.34m	8.59m
Avro RJX85	C	RX85	AX8	85 to 100	28.60m	26.34m	8.61m
BAe 146-100 Pax	C	B461	141	70	26.16m	26.34m	8.61m
BAe 146-200 Pax	C	B462	142	85	28.60m	26.34m	8.61m
BAe 146-300 Pax	C	B463	143	100	30.99m	26.34m	8.59m
BAe 146 Freighter (-100QT & QC)	C	B461	14X	All Cargo	26.16m	26.34m	8.61m
BAe 146 Freighter (-200QT & QC)	C	B462	14Y	All Cargo	28.60m	26.34m	8.61m
BAe 146 Freighter (-200QT & QC)	C	B463	14Z	All Cargo	30.99m	26.34m	8.59m
British Aerospace Jetstream 31	B	JS31	J31	16	14.37m	15.85m	5.32m
British Aerospace Jetstream 32	B	JS32	J32	19	14.37m	15.85m	5.4m
British Aerospace Jetstream 41	B	JS41	J41	32	19.25m	18.42m	5.74m
Beechcraft King Air 90 gti	B	BE9L		7	10.82m	15.32m	4.34m
Beechcraft King Air B100	A	BE10		13	12.17m	14m	4.7m
Beechcraft Super King Air 200	B	BE20		13	13.34m	16.61m	4.5m
(Hawker) Beechcraft 400	A	BE40		9	14.76m	13.26m	4.24m

Aircraft Model	Code Size	ICAO Code	IATA Code	Max Seats	Dimensions			86
					Length	Wingspan	Height	
(Hawker) Beechcraft 800	B	H25B		13	15.6m	16.5m	5.5m	
Beechcraft 1900/1900C	B	B190	BES	19	17.62m	16.6m	4.5m	
Beechcraft 1900D	B	B190	BEH	19	17.62m	17.64m	4.72m	
Beechcraft Premier I	A			7	14.02m	13.56m	4.67m	
Boeing 707-300 pax	D	B703	703	202	46.61m	44.42m	12.93m	
Boeing 707 Freighter	D	B703	70F	All Cargo	46.61m	44.42m	12.93m	
Boeing 717	C	B712	717	117	37.8m	28.47m	8.92m	
Boeing 727-100 pax	C	B721	721	131	40.6m	32.92m	10.36m	
Boeing 727-200 pax	C	B722	722	189	46.69m	32.92m	10.36m	
Boeing 737-300 pax / Winglets	C	B733	733 / 73C	149	33.4m	28.88m	11.13m	
Boeing 737-400 pax	C	B734	734	168	36.5m	28.9m	11.1m	
Boeing 737-500 pax	C	B735	735	132	31.1m	28.9m	11.1m	
Boeing 737-600 pax	C	B736	736	130	31.2m	35.7m	12.6m	
Boeing 737-800 pax	C	B738	738	189	39.5m	35.7m	12.5m	
Boeing 737-900 /ER pax	C	B739	739	215	42.1m	35.7m	12.5m	
Boeing 737-900 /ER pax (Winglets)	C	B739	73J	215	42.1m	37.2m	12.5m	
Boeing 737 Max 7	C	B73M	7M7	176	33.6m	35.9m	12.5m	
Boeing 737 Max 8	C	B78M	7M8	200	39.5m	35.9m	12.5m	
Boeing 737 Max 9	C	B79M	7M9	220	42.1m	35.9m	12.5m	
Boeing 737 Max 10	C	B3JM	7MJ	230	43.8m	35.9m	12.5m	
Boeing 737-700 /ER pax	C	B737	73G	148	33.6m	35.7m	12.5m	
Boeing 737-800 (winglets) pax	D	B738	73H	189	39.5m	38.1m	12.5m	
Boeing 737-700/ER (winglets) pax	D	B737	73W	126	33.6m	38.1m	12.5m	
Boeing 747-100 pax	E	B741	741	452	70.6m	59.6m	19.3m	
Boeing 747-200 pax	E	B742	742	452	70.6m	59.6m	19.3m	
Boeing 747-300 pax	E	B743	743	496	70.6m	59.6m	19.3m	
Boeing 747-400 pax	E	B744	744	660	70.6m	64.4m	19.4m	
Boeing 747-800 pax	F	B748	74H	605	76.3m	68.4m	19.4m	
Boeing 747-200 Combi	E	B742	74C	210 & cargo	70.6m	59.6m	19.3m	
Boeing 747-300 Combi	E	B743	74D	266 & cargo	70.6m	59.6m	19.3m	
Boeing 747-400 Combi	E	B744	74E	266 & cargo	70.6m	64.4m	19.4m	
Boeing 747-400 (Domestic) pax	E	B744	74J	568	70.6m	64.4m	19.4m	

Aircraft Model	Code Size	ICAO Code	IATA Code	Max Seats	Dimensions 87		
					Length	Wingspan	Height
Boeing 747-400 Freighter	E	B744	74Y	All Cargo	70.6m	64.4m	19.4m
Boeing 747-800 Freighter	F	B748	74N	All Cargo	76.3m	68.4m	19.4m
Boeing 757-200 pax	D	B752	752	239	47.32m	38.05m	13.56m
Boeing 757-200 pax (Winglets)	D	B752	75W	239	47.32m	41.1m	13.56m
Boeing 757-300 pax	D	B753	753	289	54.47m	38.05m	13.56m
Boeing 757-300 pax (Winglets)	D	B753	75T	289	54.47m	41.1m	13.56m
Boeing 757 Freighter	D	B752	75F	All Cargo	47.32m	38.05m	13.56m
Boeing 757 Mixed Configuration	D	B752	75M	239	47.32m	38.05m	13.56m
Boeing E767 (AWACS)	D			Surveillance	48.5m	47.6m	15.8m
Boeing 767-200 pax	D	B762	762	290	48.5m	47.6m	15.8m
Boeing 767-300 pax	D	B763	763	350	54.9m	47.6m	15.8m
Boeing 767-300 ER (Winglets)	D	B763	76W	350	54.9m	50.9m	15.8m
Boeing 767-400 ER pax	D	B764	764	375	61.4m	51.9m	16.8m
Boeing 767-200 Freighter	D	B762	76X	All Cargo	48.5m	47.6m	15.8m
Boeing 767-300 Freighter	D	B763	76Y	All Cargo	54.9m	47.6m	15.8m
Boeing 777-200 pax	E	B772	772	440	63.7m	60.9m	18.5m
Boeing 777-200 LR	E	B772	77L	440	63.7m	64.8m	18.6m
Boeing 777-300 pax	E	B773	773	550	73.9m	60.9m	18.5m
Boeing 777 Freighter	E	B77L	77F	All Cargo	63.7m	64.8m	18.6m
Boeing 777-300 ER	E	B77W	77W	550	73.9m	64.8m	18.5m
Boeing 777-800 (Foldable Wings)	F - <i>unfolded</i> E – <i>folded</i>	B778	TBC	365	69.8m	71.8m (64.8m folded)	19.5m
Boeing 777-900 (Foldable Wings)	F - <i>unfolded</i> E - <i>folded</i>	B779	TBC	414	76.7m	71.8m (64.8m folded)	19.7m
Boeing 787-800 Dreamliner	E	B788	788	359	56.7m	60.12m	16.9m
Boeing 787-900 Dreamliner	E	B789	789	406	62.8m	60.12m	17.2m
Boeing 787-1000 Dreamliner	E	B78X	78J	440	68.28m	60.12m	17.2m
Bombardier CL-415	C	CL2T		18	19.82m	28.6m	8.9m
Bombardier Global Express 6000/ XRS	C	GLEX	BD7	19	30.3m	28.65m	7.57m
Bombardier Global 5000	C	GL5T	CCX	19	29.5m	28.65m	7.7m
Bombardier Global 7000	C	TBC	TBC	19	33.71m	31.79m	8.14m
Bombardier Global 8000	C	TBC	TBC	19	30.97m	31.79m	8.14m

Aircraft Model	Code Size	ICAO Code	IATA Code	Max Seats	Dimensions			88
					Length	Wingspan	Height	
Canadair Challenger			CCJ		20.85m	19.61m	6.3m	
Canadair Challenger 300	B	CL30	CL3/CCJ	16	20.93m	19.46m	6.2m	
Canadair Challenger 600	B	CL60	CL6/CCJ	19	20.85m	19.61m	6.3m	
Canadair Challenger 850	B	CRJ2	CL8/CCJ	14	26.77m	21.21m	6.22m	
Canadair CL - 215	C	CL21	CL2	18	19.82m	28.60m	8.98m	
Canadair CL-44	D	CL44	CL4	160	41.73m	43.37m	11.18m	
CRJ 100	B	CRJ1	CR1	50	26.77m	21.21m	6.22m	
CRJ 200	B	CRJ2	CR2	50	26.77m	21.21m	6.22m	
CRJ 700	B	CRJ7	CR7	78	32.51m	23.24m	7.57m	
CRJ 900	C	CRJ9	CR9	90	36.40m	24.85m	7.51m	
CRJ 1000	C	CRJX	CRK	104	39.13m	26.18m	7.50m	
CS100 (Now Airbus A220-100)	C	BCS1	CS1	133	35.00m	35.1m	11.5m	
CS300 (Now Airbus A220-300)	C	BCS3	CS3	160	38.7m	35.1m	11.5m	
Cessna Citation 510	A	C510	CNJ	5	12.37m	13.16m	4.09m	
Cessna Citation 525	A	C525	CNJ	9	12.98m	14.30m	4.19m	
Cessna Citation 550	B	C550	CNJ	8	14.39m	15.90m	4.57m	
Cessna Citation 560XL	B	C56X	CNJ	9	16.00m	17.17m	5.23m	
Cirrus SR20	A	SR20		4	7.92m	11.68m	2.71m	
Cirrus SR22	A	SR22		5	7.92m	11.68m	2.72m	
Comac ARJ21 - 700	C			90	33.46m	27.28m	8.44m	
Comac ARJ21 - 900	C			105	36.35m	27.28m	8.44m	
Comac C919	C	C919	TBC	168	38.9m	35.8m	11.95m	
Dassault Falcon 10	A	FA10		8	13.86m	13.08m	4.61m	
Dassault Falcon 50	B	FA50	DF3	8	18.52m	18.86m	6.98m	
Dassault Falcon 7X	C	FA7X	DF3	14	23.19m	26.21m	7.86m	
Dassault Falcon 900	B	F900	DF3	18	20.21m	19.33m	7.55m	
Dassault Falcon 2000	B	F2TH	DF2	18	20.23m	19.33m	7.06m	
De Havilland DHC-8-100 Dash 8 8Q	C	DH8A	DH1	39	22.2m	25.9m	7.5m	
De Havilland DHC-8-200 Dash 8 8Q	C	DH8B	DH2	39	22.2m	25.9m	7.5m	
De Havilland DHC-8-300 Dash 8 8Q	C	DH8C	DH3	50	25.7m	27.4m	7.5m	
De Havilland DHC-8-400 Dash 8Q	C	DH8D	DH4	78	32.8m	28.4m	8.4m	
De Havilland DHC-7 Dash 7	C	DHC7	DH7	50	24.6m	28.3m	8m	

Aircraft Model	Code Size	ICAO Code	IATA Code	Max Seats	Dimensions			89
					Length	Wingspan	Height	
Embraer 170	C	E170	E70	78	29.9m	26m	9.8m	
Embraer 175	C	E175	E75	86	31.7m	26m	9.7m	
Embraer 175 – E2	C	E275	E75	90	32.4m	31m	9.98m	
Embraer 190	C	E190	E90	106	36.2m	28.7m	10.6m	
Embraer 190 – E2	C	E290	E90	114	36.24m	33.72m	10.95m	
Embraer 195	C	E195	E95	118	38.6m	28.7m	10.5m	
Embraer 195 – E2	C	E295	E95	146	41.5m	35.1m	10.9m	
Embraer EMB.120 Brasilia	B	E120	EM2	30	20m	19.78m	6.35m	
Embraer EMB.110 Bandeirante	B	E110	EMB	19	15.1m	15.3m	4.9m	
Embraer 170/190			EMJ					
Embraer Phenom 100	A	E50P	E50	6	12.80m	12.30m	4.4m	
Fairchild Dornier Do.228	B	D228	D28	19	16.56m	16.97m	4.86m	
Fairchild Dornier Do.328(prop)	B	D328	D38	33	21.11m	20.98m	7.24m	
Fairchild Dornier 728JET	C		FA7	70 to 85	27.40m	27.12m	9.05m	
Fairchild Dornier 328JET	B	J328	FRJ	33	21.11m	20.98m	7.24m	
Fairchild Swearingen Metroliner	B	SW4		19	18.09m	17.37m	5.08m	
Fairchild (Swearingen) Metro Merlin Expediter	A		SWM	9	12.85m	14.10m	5.13m	
Fokker F100	C	F100	100	122	35.53m	28.08m	8.50m	
Fokker 50	C	F50	F50	58	25.25m	29.00m	8.32m	
Gulfstream G500/550	C	GLF5	G55	19	29.4m	28.5m	7.9m	
Gulfstream G650	C	G650	GJ6	18	30.41m	30.36m	7.72m	
Harbin Yunshuji Y12	B	Y12	YN2	17	18.86m	17.24m	5.68m	
Ilyushin IL114	C	I114	I14	64	26.87m	30.00m	8.32m	
Ilyushin IL96-300 pax	E	IL96	I93	237	53.3m	60.11m	15.7m	
Ilyushin IL96-400 pax	E	IL96	IL9	315	63.94m	60.11m	15.7m	
Ilyushin IL96M pax	E	IL96	I9M	307	64.7m	60.11m	15.7m	
Ilyushin IL62	D	IL62	IL6	186	53.12m	43.20m	12.35m	
Ilyushin IL76	D	IL76	IL7	All Cargo	46.59m	50.2m	14.76m	
Ilyushin IL18	D	IL18	IL8	120	35.9m	37.4m	10.16m	
Ilyushin IL86	D	IL86	ILW	350	60.21m	48.06m	15.68m	
Irkut MC-21-200	C	TBC	TBC	165	36.8m	35.9m	11.5m	
Irkut MC-21-300	C	TBC	TBC	211	42.2m	35.9m	11.5m	






Aircraft Model	Code Size	ICAO Code	IATA Code	Max Seats	Dimensions 90		
					Length	Wingspan	Height
Learjet 35	A	LJ35	L35	8	14.71m	11.97m	3.71m
Learjet 45	A	LJ45	L45	9	17.68m	14.58m	4.30m
Learjet 55	A	LJ55	L55	10	16.80m	13.35m	4.48m
Learjet 60	A	LJ60	L60	10	17.88m	13.34m	4.47m
McDonnell Douglas MD11 pax	D	MD11	M11	410	61.62m	51.66m	17.60m
McDonnell Douglas MD11 Freighter	D	MD11	M1F	All Cargo	61.62m	51.66m	17.60m
McDonnell Douglas MD80	C	MD80	M80	172	45.01m	32.82m	9.02m
McDonnell Douglas MD81	C	MD81	M81	172	45.01m	32.82m	9.02m
McDonnell Douglas MD82	C	MD82	M82	172	45.01m	32.82m	9.02m
McDonnell Douglas MD83	C	MD83	M83	172	45.01m	32.82m	9.02m
McDonnell Douglas MD87	C	MD87	M87	139	39.73m	32.82m	9.25m
McDonnell Douglas MD88	C	MD88	M88	172	45.01m	32.82m	9.02m
McDonnell Douglas MD90	C	MD90	M90	172	46.5m	32.87m	9.4m
Pilatus PC-12	B	PC12	PL2	9	14.40m	16.23m	4.26m
Piaggio P180 Avanti	A			9	14.41m	14.03m	3.97m
Pilatus PC-6 Turbo Porter	B	PC6T	PL6	10	11.00m	15.87m	3.20m
Piper PA-23 Aztec	A	PA23	PA2	5	9.32m	11.34m	3.15m
Piper PA-28 Cherokee	A	PA28	PA1	3	7.16m	9.20m	2.25m
Piper PA-31 Navajo	A	PA31	PA2	7	9.94m	12.40m	3.96m
Piper PA-34 Seneca	A	PA34	PA2	6	8.72m	11.86m	3.02m
Piper PA-38 Tomahawk	A	PA38	PA1	0	7.04m	10.36m	2.76m
Saab 2000	C	SB20	S20	58	27.28m	24.76m	7.73m
Saab SF340A/B	B	SF34	SF3	37	19.73m	21.44m	6.97m
Sukhoi Superjet 100 – 75 / 75 LR	C		SU7	83	26.44m	27.80m	10.28m
Sukhoi Superjet 100 – 95 / 95 LR	C		SU9	103	29.94m	27.80m	10.28m
Tupolev Tu-204 / Tu-214	D	T204	T20	210	46.14m	41.8m	13.9m
Tupolev Tu134	C	T134	TU3	84	37.10m	29.00m	9.02m
Tupolev Tu154	D	T154	TU5	180	48.00m	37.55m	11.4m
Tupolev Tu 334	C			102	31.26m	29.77m	9.38m






Aircraft Model	Aircraft type	Country	Dimensions		
			Length	Wingspan	Height
Military Aircraft Dimensions					
Agustawestland Apache WAH-64	Attack Helicopter	United Kingdom	17.7m	14.6m	3.87m
Agustawestland Merlin	Helicopter	United Kingdom	19.53m	18.59m	6.62m
Airbus A400M Atlas	Tactical Airlifter	Spain	45.1m	42.4m	14.7m
Boeing E3 Sentry	AWACS Plane	United States	46.61m	44.42m	12.6m
Boeing E767	AWACS Plane	United States	48.5m	47.6m	15.8m
Beriev A-50 El Mainstay	AWACS Plane	Russia	49.59m	50.50m	14.76m
BAE Hawk	Fighter / Training Jet	United Kingdom	12.43m	9.94m	3.98m
Bell Boeing V22 Osprey	Tilt Rotor	United States	17.5m	14m	5.5m
Boeing C17 Globemaster	Transport Plane	United States	53m	51.75m	16.8m
Boeing Chinook	Transporter Helicopter	United States	30.1m	18.3m	5.7m
Britten-Norman Defender	Reconnaissance Plane	United Kingdom	12.2m	16.2m	4.4m
Eurofighter Typhoon	Fighter Jet	United Kingdom	15.96m	10.95m	5.28m
Lockheed Hercules C-130	Transport Plane	United States	29.8m	40.4m	11.6m
Lockheed C-5M Super Galaxy	Transport Plane	United States	75.31m	67.89m	19.84m
Lockheed Martin F35 (A & B) Lightning II	Stealth multirole fighter	United States	15.4m	10.7m	4.33m
Lockheed Martin F35 (C) Lightning II	Stealth multirole fighter	United States	15.5m	13.1m	4.33m
Lockheed Tristar KC1	Transport / Tanker	United States	50.05m	50.09m	16.87m
McDonnell Douglas KC-10 Extender	Aerial Refueller	United States	54.4m	50m	17.4m
Panavia Tornado GR4	Fighter Jet	UK, Germany, Italy	16.72m	28.2m	5.95m
Sikorsky MH-53 Pave Low	Helicopter	Poland	28.0m	21.9m	7.6m
Westland Lynx	Helicopter	United Kingdom	15.24m	12.80m	3.7m
Westland Sea king	Rescue Helicopter	United Kingdom	17.02m	18.90m	5.13m

Taxiway Signage

**Black and Yellow =
Information**

**Red and White =
Mandatory**

	Taxiway Direction
	Runway Location
	Taxiway Ending
	Specific Taxiway Location (Holding Position)
	Taxiway Designator

	Visual Runway Taxi – Holding Position
	Intermediate Taxi – Holding Position
	No Entry
	Combined Runway Taxi – Holding Position (Can be single – see below)
	Runway Taxi – Holding Position & Associated taxiway location

Phonetic Alphabet

Letter	Word	Pronunciation
A	Alpha	AL FAH
B	Bravo	BRAH VOH
C	Charlie	CHAR LEE
D	Delta	DELL TAH
E	Echo	ECK OH
F	Foxtrot	FOKS TROT
G	Golf	GOLF
H	Hotel	HOH TELL
I	India	IN DEE AH
J	Juliet	JEW LEE ETT
K	Kilo	KEY LOH
L	Lima	LEE MAH
M	Mike	MIKE
N	November	NO VEM BER
O	Oscar	OSS CAH
P	Papa	PAH PAH
Q	Quebec	KEH BECK
R	Romeo	ROW ME OH
S	Sierra	SEE AIR RAH
T	Tango	TANG GO
U	Uniform	YOU NEE FORM
V	Victor	VIK TAH
W	Whiskey	WISS KEY
X	X-ray	ECKS RAY
Y	Yankee	YANG KEE
Z	Zulu	ZOO LOO

Radiotelephony

Numeral or Numeralelement	Pronunciation
0	ZERO
1	WUN
2	TOO
3	TREE
4	POWER
5	FIVE
6	SIX
7	SEVEN
8	AIT
9	NINER
10	WUN ZERO
100	WUN ZERO ZERO / HUN DRED

Word/Phrase	Meaning
ACKNOWLEDGE	Let me know that you have received and understood this message.
AFFIRM	Yes.
APPROVED**	Permission for proposed action granted.
BREAK	Indicates the separation between messages.
BREAK BREAK	Indicates the separation between messages transmitted to different aircraft in a busy environment.
NOTE: The phraseology "BREAK BREAK" may be confused with an instruction to an aircraft formation and should be used with caution.	
CANCEL	Annul the previously transmitted clearance.
CHANGING TO	I intend to call... (unit) on... (frequency).
CHECK	Examine a system or procedure. (Not to be used in any other context. No answer is normally expected.)
CLEARED ‡	Authorised to proceed under the conditions specified.
CLIMB ‡	Climb and maintain.
CONFIRM	I request verification of: (clearance, instruction, action, information).
CONTACT	Establish communications with... (your details have been passed).
CORRECT	True or accurate.
CORRECTION	An error has been made in this transmission (or message indicated). The correct version is...
DESCEND ‡	Descend and maintain.
DISREGARD	Ignore.
EXPEDITE	Act quickly
FANSTOP	I am initiating a practice engine failure after take off. (Used only by pilots of single engine aircraft.) The response should be, "REPORT CLIMBING AWAY".
FREECALL	Call... (unit) (your details have not been passed – mainly used by military ATC).
HOLD POSITION	Do not move until further clearance, instruction is given
HOLD SHORT**	Stop before reaching the specified location. Note: Only used in limited circumstances where no defined point exists (e.g. where there is no suitably located holding point), or to reinforce a clearance limit.
HOW DO YOU READ	What is the readability of my transmission?
I SAY AGAIN	I repeat for clarity or emphasis.
MAINTAIN ‡	Continue in accordance with the condition(s) specified or in its literal sense, e.g. "Maintain VFR".
MONITOR	Listen out on (frequency).
NEGATIVE	No; or Permission not granted; or That is not correct; or Not capable.
NEGATIVE I SAY AGAIN	May be used if repeated incorrect readbacks are given by the pilot and additional emphasis is required.
OUT*	This exchange of transmissions is ended and no response is expected.
OVER*	My transmission is ended and I expect a response from you.
PASS YOUR MESSAGE	Proceed with your message.
READ BACK	Repeat all, or the specified part, of this message back to me exactly as received.
RECLEARED	To be used only in relation to routings and NOT for instructions to climb or descend.
REPORT**	Pass requested information.
REQUEST	I should like to know... or I wish to obtain...
ROGER	I have received all your last transmission. Note: Under no circumstances to be used in reply to a question requiring a direct answer in the affirmative (AFFIRM) or negative (NEGATIVE).
SAY AGAIN	Repeat all, or the following part of your last transmission.
SPEAK SLOWER	Reduce your rate of speech.
STANDBY	Wait and I will call you. Note: No onward clearance to be assumed. The caller would normally re-establish contact if the delay is lengthy. STANDBY is not an approval or denial.
UNABLE	I cannot comply with your request, instruction or clearance. Unable is normally followed by a reason.
WILCO	I understand your message and will comply with it (abbreviation for will comply)
WORDS TWICE	As a request: Communication is difficult. Please send every word twice. As Information: Since communication is difficult, every word in this message will be sent twice.

Readability Scale	Meaning
1	Unreadable
2	Readable now and then
3	Readable but with difficulty
4	Readable
5	Perfectly readable