

Airbus A320



V Speeds and Ranges

Speed Limits

Max operating speed (V _{MO}):	350 KIAS
Max operating speed (M _{MO}):	.82M
Max gear extension (V _{LO}):	250 KIAS
Max gear retraction (V _{LO}):	220 KIAS
Max gear extended (V _{LE}):	280 KIAS / .67M

Turbulence Penetration –	at or above 20,000 ft.:	below 20,000 ft.:
A319/320	275 KIAS / .76M	250 KIAS
A321	300 KIAS / .76M	270 KIAS

Max Flap / Slats (V_{FE}):

Model	Position	1	1+F	2	3	FULL
A319/320	V _{FE}	230 KIAS	215 KIAS	200 KIAS	185 KIAS	177 KIAS
A321	V _{FE}	235 KIAS	225 KIAS	215 KIAS	195 KIAS	190 KIAS

Speeds

Cockpit Window Open Speed

Maximum - 200 KIAS

Design Maneuvering Speeds - Va (KIAS/Mach)

* Only when in alternate or direct flight control laws.								
Speed	Pressure Altitude (1000 Feet)							
	SL	10.0	16.0	20.0	24.0	28.0	30.0	39.0
* Va	248	250	260	270	280	290	295	.78

Flaps/Slat Extended Speeds - Vfe (KIAS)

Config	1	1 + F	2	3	FULL
Vfe	230	215	200	185	177
Slats	18	18	22	22	27
Flaps	0	10	15	20	40
Remarks	Initial Approach	Takeoff	Takeoff/Approach	Takeoff/Approach Landing	Landing

Takeoff with Flaps 1

When Flaps 1 is selected for takeoff (1 + F), the flaps automatically retract to 0 at 210 KIAS.

Takeoff or Go-Around with Flaps 2 or 3

When Flaps 1 is selected, the 1+F configuration is obtained if airspeed is less than 210 KIAS. The flaps automatically retract to configuration 0 at 210 KIAS.

Flaps Selection in Flight

When the flaps lever is moved from 0 to 1 in flight, only the slats are extended.

Landing Gear Limit Speeds - Vlo/Vle (KIAS/MACH)

Retraction - Vlo	220
Extension - Vlo	250
Extended - Vle	280 / .67
Maximum Tire Speed	195 Knots Groundspeed

Maximum Operating Limit Speeds - Vmo/Mmo

Speed	Pressure Altitude	
	SL - 25,000	25,000 - 39000
Vmo/Mmo	350	.82

Minimum Control Speed Air - Vmca

Vmca - 119 KIAS

Minimum Control Speed Ground - VmCG

VmCG - 114 KIAS

Operating Speeds (KIAS/Mach)

Optimum Climb (FMGC Operative)	ECON CLIMB
Standard Climb (FMGC Inoperative) FL 290 and above 10,000' to FL 290	.78 290
Best Climb Rate	280
Best Climb Angle	220
Optimum Cruise (ECON)	Cost Index = 35
Standard Cruise FL 310 and above 10,000' to FL 310	.80 300
Optimum Descent (FMGC Operative)	ECON DES
Standard Descent (FMGC Inoperative) 10,000' and above	.78 280

Stall Speeds

Stall speeds apply to takeoff and landing altitudes only.						
Gross Weight (1000 lbs)	Flap Position					
	0	1	1 + F	2	3	FULL
170	179	140	134	125	124	121
160	170	136	130	120	119	117
150	161	132	125	116	115	113
140	154	127	119	112	111	109
130	144	121	115	108	107	105
120	138	116	110	104	103	101
110	132	111	105	99	98	96
100	126	106	100	95	94	92
90	119	100	95	90	89	87
80	114	95	90	85	84	82

Taxi Speed - Maximum

When takeoff weight is higher than 167,550 lbs, do not exceed 20 kts in a turn.

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