

Airbus A320-214



V Speeds and Ranges

Speed Limits

Vmo	Max Operating Speed	350 KIAS				
Mmo	Max Operating Speed	.82M				
Vlo	Max Gear Extension	250 KIAS				
Vlo	Max Gear Retraction	220 KIAS				
Vle	Max Gear Extended	280 KIAS / .67M				
Turbulence Penetration		At or Above 20,000 FT		Below 20,000 FT		
A320		275 KIAS / .76M		250 KIAS		
Max Flaps / Slats (Vfe)						
Model	Position	1	1+F	2	3	Full
A320	Vfe	230 KIAS	215 KIAS	200 KIAS	185 KIAS	177 KIAS

Speeds

Cockpit Window Open Speed Maximum - 200 KIAS

Design Maneuvering Speeds - Va (KIAS/Mach)								
Speed	Pressure Altitude (1000 FT)							
	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 (KAIS)					
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

Takeoff with Flaps 1 When flap configuration 1 is selected for takeoff flaps and slats are extended (1 + F), the configuration automatically changes to 1 at 210 KIAS, retracting the flaps and leaving only the slats extended.

Takeoff or Go-Around with Flaps 2 or 3 When configuration 1 is selected from flap setting 2 or higher, the 1+F configuration is obtained if airspeed is less than 210 KIAS. The Flaps automatically retract at 210 KIAS resulting in the configuration 1 (only slats)

Flaps Selection in Flight When the Flaps lever is moved from 0 to 1 in flight, only the Slats are extended (CONF 1).

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 - 39,000
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)	
FL290 and Above	.78
10,000 FT to FL290	290
Best Climb Rate	280
Best Climb Angle	220
Optimum Cruise (ECON)	Cost Index=35
Standard Cruise	
FL310 and Above	.80
10,00 FT to FS310	300

Operating Speeds (KIAS/MACH)	
Optimum Descent (FMGC Operative)	ECON DES
Standard Descent (FMGC Inoperative)	.78
10,000 FT and Above	280

Stall Speeds

Stall Speeds apply to takeoff and landing altitudes only						
Gross Weight (1,000 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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