

## Learjet 45 Reference Speeds and Weights

Jon Dyer 3 March 3021

SPEEDS	Learjet 45	Learjet 45
<b>Source</b>	Flight Sim (FS2004) etc.	Aeroplane Flight Manual
M <sub>MO</sub>	M0.81	M0.81
V <sub>MO</sub>	330	330
V <sub>A</sub>	20,200 lbs 40,000ft: 245 20,000ft: 225 SL: 198 12,500 lbs 40,000ft: 195 20,000ft: 163 SL: 150	21,500 lbs 36,000ft: 267 20,000ft: 235 SL: 205 14,000 lbs 45,000ft: 215 20,000ft: 175 SL: 159
V <sub>LO</sub> / V <sub>LE</sub>	V <sub>LE</sub> : 260 V <sub>LO</sub> : 200	V <sub>LE</sub> : 260 V <sub>LO</sub> : 200
V <sub>FE</sub>	flaps 8°: 250 flaps 20°: 200 flaps 40°: 150	flaps 8°: 250 flaps 20°: 200 flaps 40°: 150
V <sub>C</sub>	425 to 468	425 to 468
V <sub>Cruise Climb</sub>	250?	240
V <sub>Y</sub>	160?	160
V <sub>X</sub>		
V <sub>Best Glide / Range</sub>	160	160
V <sub>2</sub>	20,200 lbs: 130 13,200 lbs: 120	21,500 lbs: 130 14,000 lbs: 115
V <sub>R</sub>	20,200 lbs: 119 13,200 lbs: 108	21,500 lbs: 119 14,000 lbs: 107
V <sub>I</sub>	20,200 lbs: 119 1,3200 lbs: 106	21,500 lbs: 119 14,000 lbs: 106
V <sub>REF</sub> (V <sub>APPR</sub> ) flaps down - typical	20,200 lbs: 123 13,200 lbs: 103	21,500 lbs: 128 14,000 lbs: 106
V <sub>MCA</sub> (Red Line)		flaps 8°: 103 flaps 20°: 101
V <sub>MGC</sub>		102
V <sub>MCL</sub>		flaps 8°: 105 flaps 40°: 98
V <sub>SI</sub>	112	22,000 lbs: 115 14,000 lbs: 95
V <sub>SO</sub>	99	22,000 lbs: 104 14,000 lbs: 86
Max. Crosswind	30	30

WEIGHTS	Learjet 45 (lbs / kg)	Learjet 45 (lb s/ kg)
Max Ramp	20,500 / 9,300	21,750 / 9,865
Max Takeoff MTOW	20,200 / 9,163	21,500 / 9,752
Max Landing MLW	19,200 / 8,700	19,200 / 8,700
Max Zero Fuel ZFW <sub>MAX</sub>	16,000 / 7,257	16,000 / 7,257
Min Flight		14,000 / 6,350
Empty	12,550 / 5,698	12,550 / 5,698
Max Useful Load	7,650 / 3,470	7,650 / 3,470
Max Fuel	6,062 / 2,750	6,062 / 2,750
Max Baggage	500 / 227	500 / 227
Engine/Thrust (lbs)	Garrett TFE731/3,500	Garrett TFE731/3,500
Length (m)	18	18
Seats	9 (+2 crew)	9 (+2 crew)
Range (nm)	2120	2120