






# Normalized engine thrust for several aircraft

Newton/pound=4.44822

Aircraft	# engines	Condition	Weight (lbs)	L/D	Total Thrust(lbs)	Engine	A2(m <sup>2</sup> )	Thrust/engine(N)	P0(N/m <sup>2</sup> )	T/P0A2
	2	Takeoff	775,000	0	230,601	GE90-115B1	9.0307	512880	1.01325x10 <sup>5</sup>	0.5605
		M=0.84	700,000	17.0	41,177			91581	0.23842x10 <sup>5</sup>	0.4253
	2	MaxTakeoff	68,000	0	34,000 dry	PWF100-229	1.0956	75620	1.01325x10 <sup>5</sup>	0.68119
		M=0.6	60,000	9.0 (est)	6,668 dry			14827	0.23842x10 <sup>5</sup>	0.5676
		M=1.3	60,000	4.5	13,336 wet			29655	0.23842x10 <sup>5</sup>	1.1353
	1	MaxTakeoff	42,300	0	17,155 dry	GEF110-129	1.0956	76309	1.01325x10 <sup>5</sup>	0.6874
		M=0.6	36,300	11.2	3241 dry			14417	0.23842x10 <sup>5</sup>	0.5519
		M=1.3	36,300	5.0	7260 wet			32294	0.23842x10 <sup>5</sup>	1.2363
	2	MaxTakeoff	51,900	0	22,000 dry	GEF404-402	0.6207	48930	1.01325x10 <sup>5</sup>	0.7780
		M=0.6	46,900	10.3	4,553 dry			10127	0.23842x10 <sup>5</sup>	0.6843
		M=1.3	46,900	4.8	9,771 wet			21732	0.23842x10 <sup>5</sup>	1.4685
	1	MaxTakeoff	17,800	0	11,000 dry	GEF404-400	0.6207	48930	1.01325x10 <sup>5</sup>	0.7780
		M=0.6	15,800	9.5	1,663 dry			7398	0.23842x10 <sup>5</sup>	0.5000
		M=1.3	15,800	4.8	3,292 wet			14642	0.23842x10 <sup>5</sup>	0.9894

Altitude – 35,000 feet