

Embraer Phenom 300

Base price: \$8.14 million

Specifications

Powerplants	(2) Pratt & Whitney PW535E, 3,360 lbst
Recommended TBO.....	5,000 hr
Length	51 ft 4 in
Height.....	16 ft 9 in
Wingspan	52 ft 2 in
Wing area	306.8 sq ft
Wing loading	58.6 lb/sq ft
Power loading	2.67 lb/hp
Seats.....	2 + 7/9
Cabin length	17 ft 2 in
Cabin width.....	5 ft 1 in
Cabin height	4 ft 11 in
Basic operating weight.....	11,583 lb
Max ramp weight	18,078 lb
Max takeoff weight	17,968 lb
Max zero fuel weight	13,999 lb
Max payload.....	2,416 lb
Payload w/full fuel.....	1,142 lb
Max landing weight	16,865 lb
Fuel capacity	5,353 lb
Baggage capacity, forward	66 lb, 8 cu ft
Baggage capacity, aft	463 lb, 66 cu ft

Performance

Takeoff field length	3,138 ft
Rate of climb, @ 400 ft	4,050 fpm
One-engine inop ROC, sea level.....	918 fpm
Cruise speed/range w/NBAA fuel reserves (fuel consumption, ea engine)	
@ Max cruise power, 30,000 ft.....	453 kt/1,177 nm (1,606 pph/240 gph)
@ Long range power, 45,000 ft.....	375 kt/1,971 nm (708 pph/106 gph)
Max operating altitude.....	45,000 ft
Sea-level cabin to.....	25,559 ft
Cabin altitude, 45,000 ft.....	6,600 ft
Landing distance.....	2,621 ft

Limiting and Recommended Airspeeds

V_R (rotation)	108 KIAS
V_1 (takeoff decision speed).....	108 KIAS
V_{MCG} (min control w/one engine inop, ground) ...	97 KIAS
V_{MCA} (min control w/one engine inop, air).....	86 KIAS

V_2 (takeoff safety speed)	119 KIAS
V_{FE} (max flap extended)	180 KIAS
V_{LE} (max gear extended).....	250 KIAS
V_{LO} (max gear operating)	
Extend	250 KIAS
V_{REF} (reference speed, final approach)	104 KIAS
V_{MO} (max operating speed)	320 KIAS
M_{MO} (max Mach number).....	0.78 M
V_{S1} (stall, clean)	100 KIAS
V_{S0} (stall, in landing configuration)	89 KIAS

For more information, see the Website
(www.embraerexecutivejets.com).

All specifications are based on manufacturer's calculations. All performance figures are based on standard day, standard atmosphere, no wind, sea level, maximum gross weight conditions unless otherwise noted.