

Aircraft description

Spec of the Falcon 7x are close as possible from the original

Limitations:

Weights

Maximum ramp weight	69,200 lb	31,389 kg
Maximum takeoff weight	69,000 lb	31,298 kg
Maximum landing weight	62,400 lb	29,304 kg
Maximum zero fuel weight	41,000 lb	18,598 kg
Equipped Empty weight	33,200 lb	15,060 kg
Basic operating weight	34,272 lb	15,546 kg

CG location

CG limits: From 38.5% of Mean Aerodynamic Chord (MAC) aft to 19.5% of MAC forward.

Fuel Quantity

The approximate total usable fuel capacity is 4,784 US gallons (18,110 liters) or 31,940 lb (14,448 kg) at a 0.803 kg/l density (6.7 lb/US gallon)

Speeds

Maximum Operating Speed (VMO)	370 kias
Maximum Operating Mach (MMO)	0.90

Altitude and Temperatures

Maximum operating altitude	51,000 ft
Airport altitude (maximum)	14,000 ft
Operating temperatures at sea level	-54°C to +55°C

GUARANTEED PERFORMANCE:

Approach Speed (Vref).....104 kias*
38,287 lb (8 passengers, NBAA IFR reserves)

Takeoff Distance
Balanced Field Length
67,811 lb5,505 ft**
(8 passengers, full fuel)

Landing Distance
38,287 lb2,262 ft**
(8 passengers, NBAA IFR reserves)

Range
(Full fuel, 8 passengers and baggage,
3 crew, 34,272 lb Basic operating weight,
NBAA IFR reserves, Mach .80* , ISA, no wind ..5,950 nm**

* Guaranteed Performance (+- 3%)

** Guaranteed Performance (+- 5%)

Speed Limitations:

SF1	200 KIAS
SF2	190 KIAS
SF3	180 KIAS

VLO	190 KIAS
VLE	245 KIAS

VA	218 KIAS
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MAXIMUM OPERATING LIMIT SPEED: VMO / MMO

VMO / MMO ENVELOPE

Unless otherwise specified, limits are expressed in terms of indicated values.
Instrument error is assumed to be zero.

