

# Some Falcon 10 Data

## A. Fuel burn / Range – at typical climb profiles and altitudes:

Hour	Distance	Fuel burn
1	380 nm	1800 lbs
2	470 nm	1400 lbs
3	470 nm	1300 lbs
4	<u>470 nm</u>	<u>1200 lbs</u>
	1790 nm	5700 lbs *

\*Max fuel capacity: 5912 lbs/882 US gallons

## B. Limiting weights:

Max takeoff:	18,740 lbs (most aircraft)	19,300 lbs (with SB F10-0238) *
Max landing:	17,640 lbs	17,640 lbs
Max ZFW:	13,560 lbs	14,400 lbs
Typical empty weight:	11,750 lbs	11,750 lbs

\*SB F10-0238 specifies the installation of thick-wall main gear actuators.

## C. Miscellaneous specs:

US certification basis:	FAR 25
Maximum operating speed:	0.87 Mach
Maximum operating altitude:	45,000 feet
Max cabin differential pressure:	9.1 psi (8,000 foot cabin altitude at 45,000 feet)
Maximum seats:	9
Minimum start temperature:	minus 54 degrees C
Demonstrated crosswind:	25 knots
Typical approach speeds:	110 to 125 knots
Engines:	Garrett (now Honeywell) TFE731-2-1C or TFE731-2C-1C*

\*Higher temperature limits. Either engine has same rated thrust of 3230 lbs.

## D. Runway requirements – some numbers:

<u>Gross Weight Takeoff temperature</u>	<u>Balanced Field Length (at sea-level elevation)</u>
60 degF / 15 degC	4700 feet
90 degF / 32 degC	6000 feet
<u>Landing Weight</u>	<u>Landing distance/Landing field length (at sea-level elevation)</u>
14,500 lbs	2300/3900 feet