Falcon 7X

Specifications & Performances

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Falcon 7X

PERFORMANCE TAKEOFF					
SF1 DRY - 0 ft - 15°C					
TOW (lb)	V1 (kt)	VR (kt)	V2 (kt)	VFR (kt)	VFT (kt)
40000	95	103	109	139	152
42000	96	104	112	142	156
44000	98	107	114	144	160
46000	101	109	116	146	164
48000	104	112	118	148	167
50000	107	114	121	151	171
52000	110	116	123	153	174
54000	112	118	125	155	177
56000	115	120	127	157	180
58000	117	122	129	159	183
60000	119	125	131	161	186
62000	122	127	133	163	190
64000	124	129	135	165	193
66000	126	131	137	167	196
68000	128	132	139	169	199
70000	130	134	140	170	202

VFR = V2+30Kt

Wind (kt) = +0.0 ; Runway Slope (%) = +0.0

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PERFORMANCE TAKEOFF					
SF2 DRY - 0 ft - 15°C					
TOW (lb)	V1 (kt)	VR (kt)	V2 (kt)	VFR (kt)	VFT (kt)
40000	95	101	107	137	152
42000	94	101	108	138	156
44000	94	102	110	140	160
46000	97	104	112	142	164
48000	100	106	113	143	167
50000	102	108	115	145	171
52000	105	111	117	147	174
54000	107	113	119	149	177
56000	110	115	121	151	180
58000	112	117	122	152	183
60000	114	119	124	154	186
62000	117	121	126	156	190
64000	119	123	128	158	193
66000	121	125	129	159	196
68000	123	126	131	161	199
70000	125	128	133	163	202

VFR = V2+30Kt

Wind (kt) = +0.0 ; Runway Slope (%) = +0.0

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LANDING PERFORMANCE - SF3					
LANDING WEIGHT (lb)	VREF (kt)	LANDING DISTANCE			
		0 ft	2000 ft	4000 ft	6000 ft
40000	106	2125	2201	2281	2369
42000	109	2189	2270	2356	2449
44000	111	2255	2341	2433	2532
46000	114	2326	2418	2517	2624
48000	116	2397	2496	2602	2716
50000	119	2466	2570	2680	2800
52000	121	2534	2644	2758	2883
54000	123	2603	2718	2836	2966
56000	126	2676	2795	2920	3055
58000	128	2750	2872	3003	3143
60000	130	2824	2949	3086	3232
62000	132	2905	3032	3176	3326
64000	134	2985	3115	3265	3420
66000	136	3065	3198	3354	3514
68000	138	3150	3289	3448	3612
70000	140	3237	3382	3543	3713

Wind (kt) = +0.0

PERFORMANCE	
Range @ .80 Mach cruise (8 pax, 3 crew, NBAA IFR reserves)	5,950 nm / 11,020 km
MMO (Maximum Operating Mach Number)	Mach 0.90
Take Off Distance (SL – ISA, Max Take Off Weight)	5,710 ft / 1,740 m
Landing Distance (Typical) (FAR Part 91, 8 pax, SL, NBAA IFR reserves)	2,070 ft / 630 m
Approach Speed (Typical Landing Weight)	104 kias / 195 km/h
Max. Certified Altitude	51,000 ft / 15,545 m

WEIGHTS/CAPACITIES		
Max. Takeoff Weight	70,000 lb	31,300 kg
Max. Landing Weight	62,400 lb	28,305 kg
Basic Operating Weight	34,272 lb	15,545 kg
Max. Fuel Weight	31,940 lb	14,490 kg
Max. Payload	6,000 lb	2,720 kg

ENGINES & AVIONICS
3 Pratt&Whitney Canada PW307A – 6,402 lb / 28.49 kN (Max Thrust, ISA + 17°C, SL)

EXTERNAL DIMENSIONS			CABIN DIMENSIONS		
Height	25 ft 8 in	7.83 m	Cabin Length	39.1 in	11.91 m
Length Overall	76 ft 1 in	23.19 m	Cabin Height	74 in	1.88 m
Wing Span	86 ft	26.21 m	Cabin Width	92 in	2.34 m
			Cabin Volume	1,552 ft^3	44 m^3
			Baggage Volume	140 ft^3	4 m^3
			Crew / Passengers	2-3 / 8-19	