

DASSAULT FALCON 50EX Model Guide

DASSAULT FALCON 50EX is a three-engine business jet in the Falcon 50 family (variants 50 and 50EX). Registry data for the whole family shows up to 12 passengers, up to 3080 nm range and a 49000 ft ceiling. The 2002 example in the listing is set up for 9 passengers and has a 40,780 lbs maximum takeoff weight.

KEY TAKEAWAYS

- Family-level maxima, not confirmed for this variant: up to 3080 nm range, 459 kt cruise, 17600 kg MTOW, 49000 ft ceiling.
- The 2002 listing (SN 318) shows airframe TSN 8,472 and CSN 4,701, with three TFE731-40-1C engines enrolled on MSP Gold.
- Listed weights: 40,780 lbs max takeoff, 22,187 lbs basic operating, 21,418 lbs empty.
- Listed avionics: Collins Pro Line 4, dual FMS, TCAS, EGPWS, RVSM and ADS-B Out.

AIRFRAME, ENGINES AND APU

The 2002 listing shows airframe TSN 8,472 and CSN 4,701. Engine TSN is 8,134, 8,328 and 8,433. The APU is a Honeywell GTCP 36-100 with TSN 3,924, and engines and APU are on MSP Gold. A dry bay modification was done 11/2013 by Duncan Aviation. Times are subject to verification.

INSPECTIONS TO REVIEW

On the 2002 listing, the 3B inspection shows 649 FH remaining to 8941 FH, and the landing gear inspection is due 22/06/2026. Tracking is CAMP, and the listing says no airframe maintenance program. Ask for a full status report. The one for Falcon 50 N950FJ (not an EX) runs 616 pages and covers 12M, 24M, 36M, B and C checks and FAA AD 2023-05-15.

CABIN AND EQUIPMENT

The listed cabin is 9 PAX: four forward club seats, an aft 3-place divan, two single seats, a galley, a flushing aft lav and Airshow 400. It has a 115 cubic foot oxygen system. Certifications listed: MNPS, RNP-10, RNP-5 and RVSM.

PERFORMANCE

Family Max Range Nm	3080
Family Max Cruise Speed Kt	459
Family Max Service Ceiling Ft	49000

WEIGHT & BALANCE

Max Takeoff Weight Lbs	40780
Basic Operating Weight Lbs	22187
Empty Weight Lbs	21418

SAFETY NOTES

- The Falcon 50/50EX maintenance planning list requires a check after a hard or overweight landing (touchdown over 360 ft/min). Ask for event history.
- Ask about lightning, hail, overspeed, excessive turbulence and rejected-takeoff events. The status report lists each as an unscheduled check.
- The maintenance manual has a ground test for the air data computers and the VMO/MMO warning. Confirm it is signed off.