



Avcon Fins for Learjets

Butler National Corporation



The Logical Approach to Aerodynamic Stability

NO Yaw Dampers Required

Avcon Fins dramatically improve directional stability when installed on Lear 35 & 36 models, and eliminate the FAA requirement for operable yaw dampers. This results in increased dispatch reliability and makes a bold statement about the effectiveness of the fins.

Increased Payload

As an added benefit, the installation of Avcon Fins allow Learjet owners to purchase one or more of the optional weight increases described below:

Avcon *Fin* Weight Increase

Ramp Weight: 19,850
Take-off Weight: 19,600
Landing Weight: 16,000
Zero Wing & Tip Fuel Weight: 14,500

*Requires installation of heavy landing gear (AAK 80-3 or equivalent) on earlier L-35/36 model aircraft.

The weight increases are FAA approved, and increase the useful load of Avcon Fin equipped Learjets by over 1,200 pounds.

Improved Handling & Performance

Smoothness and positive control response even at low airspeeds will be the first thing that flight crews notice when flying an Avcon Fin equipped Learjet. The aircraft simply flies better. Like the feathers of an arrow, Avcon Fins interact with the vertical stabilizer to create positive stability throughout all three axes. The fins also channel and smooth the airflow around the tailcone area, with obvious drag reduction benefits.

At cruise airspeeds, Avcon Fins are aligned to provide aerodynamic input when the aircraft attempts to stray from the intended line of flight, such as during turbulence. This "self-correcting" feature controls yaw and helps keep the aircraft *on the step* for optimal range performance.

During landing and other low-speed maneuvers, Avcon Fins also eliminate divergent Dutch roll tendencies by providing additional lift and directional stability, resulting in very solid and predictable handling characteristics.

The net outcome is an aircraft that flies better and looks great. A winning combination.

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