

V-speeds

KNOW THE HIGHLIGHTED V-SPEEDS

A series of designators used by the FAA and listed in 14 CFR 1 to describe certain flight conditions.

- V_A** Design maneuvering speed
- V_B** Design speed for maximum gust intensity
- V_C** Design cruising speed
- V_D** Design diving speed
- V_{DF/MDF}** Demonstrated flight diving speed
- V_F** Design flap speed
- V_{FC/MFC}** Maximum speed for stability characteristics
- V_{FE}** Maximum flaps extended speed
- V_H** Maximum speed in level flight with maximum continuous power
- V_{LE}** Maximum landing gear extended speed
- V_{LO}** Maximum landing gear operating speed
- V_{LOF}** Lift-off speed
- V_{MC}** Minimum control speed with the critical engine inoperative
- V_{MO/MMO}** Maximum operating limit speed
- V_{MU}** Minimum unstick speed
- V_{NE}** Never-exceed speed
- V_{NO}** Maximum structural cruising speed
- V_R** Rotation speed
- V_S** Stalling speed or minimum steady flight speed at which the aircraft is controllable
- V_{SO}** Stalling speed or minimum steady flight speed in the landing configuration
- V_{S1}** Stalling speed or minimum steady flight speed obtained in a specific configuration
- V_{TOSS}** Take-off safety speed for Category A rotorcraft
- V_X** Speed for best angle of climb
- V_Y** Speed for best rate of climb
- V₁** Take-off decision speed (formerly denoted as critical engine failure speed)
- V₂** Take-off safety speed
- V_{2min}** Minimum take-off safety speed