

N 787NV



PERFORMANCE - SPECIFICATIONS

SPAN: 25' 0"
 LENGTH: 20' 4"
 HEIGHT: 7' 10"

SPEED: 200 kts
 Maximum at Sea Level 180 kts
 Cruise, 75% Power at 8,000 Ft

RANGE (includes 3 gal. for taxi, takeoff & climb): 765 sm
 75% @ 8000', no reserve 940 sm
 55% @ 8000', no reserve 500 sm
 75% @ 8000', one hour (10 gal) reserve 680 sm
 55% @ 8000', one hour (10 gal) reserve

RATE OF CLIMB AT SEA LEVEL 1,600 FPM

SERVICE CEILING 19,500 FT

TAKEOFF PERFORMANCE: 575 Ft

LANDING PERFORMANCE: 500 Ft

STALL SPEED (CAS): 54 kts
 Flaps Up, Power Off 52 kts
 Flaps Down, Power Off

MAXIMUM WEIGHT (Normal Category) 1800 Lbs
 1134 Lbs
 666 Lbs

EMPTY WEIGHT 100 Lbs

MAXIMUM USEFUL LOAD: 143 Lbs

BAGGAGE ALLOWANCE 10 Lbs

WING LOADING (Pounds/ Sq. Ft)

POWER LOADING (Pounds/ HP)

FUEL: Total

Capacity 8.0

Type IO 360-118

OIL CAPACITY MTV 12B/153-59B

ENGINE: Lycoming

PROPELLER: MT

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AIRSPEED LIMITATIONS

	SPEED	IAS	REMARKS
V _{NE}	Never Exceed Speed	200 kts	Do not exceed this speed in any operations.
V _{NO}	Maximum Structural Cruising Speed	156 kts	Exceed this speed only in smooth air.
V _A	Maneuvering Speed	123 kts	Do not make full control movements above this speed. Full elevator deflection will result in a 6g load at this speed.
V _{FE}	Maximum Flap Extended Speed	95 - 20deg 87 - Full	Do not exceed this speed with flaps down
V _y	Best Rate of Climb	96 kts	
V _x	Best Angle of Climb	78 kts	
V _s	Stall Speed Clean	54 kts	
V _{so}	Stall Speed Landing Configuration	52 kts	

AIRSPEED INDICATOR MARKINGS

MARKING	IAS VALUE OR RANGE	SIGNIFICANCE
White Arc	52-87 kts	Full Flap Operating Range. Lower limit is V _{so} . Upper limit is maximum speed with flaps extended
Green Arc	54-156 kts	Normal Operating Range. Lower limit is V _s . Upper limit is maximum structural cruising speed
Yellow Arc	156-200 kts	Operations must be conducted with caution and only in smooth air.
Red Line	200 kts	Maximum speed for all operations

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AEROBATIC INFORMATION

Weight Limitation – 1600 Pounds

Recommended Entry Speeds:

Loops, Horizontal Eights	122-165 kts
Immelman Turns	130-165 kts
Aileron Rolls, Barrel Rolls	104-165 kts
Snap Rolls	69-95 kts
Vertical Rolls	156-165 kts
Split-S	87-96 kts