

When we designed the new Velocity 173 we simply wanted to provide to the public a quality airplane that would be fun to fly and a useful mode of transportation. On several occasions a potential owner would comment about the Velocity's certain sense of security never experienced in an airplane before. It is a very delightful plane to fly and ride in. The

Velocity has performance and efficiency unmatched by any production aircraft but still retaining the predictability and friendliness of the Cessna 172. We have nicknamed the 173 Velocity "Majic" because it has surpassed many of our expectations and calculations. We haven't honestly concluded why. Imagine flying at idle power eighty five miles per hour with a twenty to one glide ratio. It's amazing, this plane just seems to defy gravity. Advance the throttle to about 25% power and you will soon be cruising silently at a 172's top speed without experiencing any of the heat, turbulence and odors created by having the engine in front of you. At a 25% power setting your fuel burn will be around 3.5 gallons per hour yielding approximately fourty miles per gallon. Now increase the power to approximately 65%. Your indicated airspeed will be around 160 to 170 mph. This is an excellent cruising speed for the Velocity 173 especially at higher altitudes.

It is also very easy on your engine and pocketbook. Go ahead and firewall the throttle and you will find that the Velocity will show you between 190 to 200 mph. Not bad for a fixed gear four place airplane with a fixed pitch propeller. All the while you are confident that when it comes to making a cross wind landing on a short field it will be a piece of cake. Once you take off in the Velocity 173 you will soon feel like you're in a twin with it's excellent visibility and ride. But when you pull the power for slow flight the twin becomes a handful and the Velocity

10'0'

shines.

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At speeds below 100 mph, the aerodynamic design of the 173 takes a very dramatic part in keeping the airplane straight and level, resisting steep turns and rapid pitch changes, thus making pilot induced departures difficult, if not impossible. This built in stability can keep a distracted or careless pilot from getting into trouble. As a matter of fact

the Velocity 173 can perform satisfactory landings with the stick in the full aft position on final approach. As the airspeed increases above 100 mph. the Velocity 173 acquires a more neutral stability and allows the pilot to perform the maneuvers he wishes while maintaining the line of flight of the last input. The Velocity 173 is a fun and easy airplane requiring minimum pilot skill. But providing remarkable performance and efficiency in incomparable comfort. The Velocity's strongest point is it's simplicity. This becomes extremely important in an aircraft that is built, maintained and operated by yourself. Honestly, simpler is better and lighter. Fact is, the Velocity is 400 to 800 lbs. lighter than competitive four place aircraft. If you have ever flown a four place airplane you can't help notice the difference when three people either get in or out. A Velocity with four people weighs about the same as most four place aircraft do empty. That explains the conventional aircraft's need for retract gear, constant speed propellers, flaps and turbo chargers just to compensate initial weight disadvantage. Incidentally these systems are responsible for a lot of the complexity. The time and money spent paying for maintenance on these contraptions would be better used for flying.

The reason we have airplanes is to provide fun and economical travel. That's what the Velocity 173 is all about. Without looking too hard at the competition you will find the Velocity provides the most

performance, economy and comfort for the money.

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SPECS ON PRODUCTION 173 VELOCITY

Length overall 192
Height 7'9"
Wheel base 100"
Track width 80"
Wingspan 31'
Canard span 188"
Wing area 122.5 sq. ft.
Canard area 22.8 sq. ft.
Total wing area 145 sq. ft.
Empty weight
Gross weight
Useful load 1100 lbs.
Fuel useful Approx. 80 gals.
Wing loading at gross 15.5 lbs./sq. ft.
Design load factors +12 G's/-9 G's
Tested airframe load+6 G's
Cabin W/L/H 43.5" x 84" x 42.5"
Seating 2 + 2
HP 200 HP Lycoming

ACTUAL PERFORMANCE OF PROTOTYPE 173 N4253M 200 HP LYCOMING 10360 B.T. 68-74 PROP

SULU	unuoo
400 ft	1150 ft.
1700 ft	1000 ft.
197 mph	197 mph
30K +	30K +
55-65 mph	55-65 mph
60-70 mph	60-70 mph
	400 ft

CONTROL SYSTEM

Center mounted stick 3-axis
Rudder and brake Pilot & Copilot
Trim Electric pitch & roll
Speed brake Electric
Elevator Linked directly to the stick
via push-pull tube
Ailerons Connected via torque tube
and HD push-pull cables
Rudders Cable activated and
independent with spring return

KIT INFO

CDOCC

All parts are common to the standard Velocity kit except the following:
Extended Canard and Elevator Cores
4 Trailing Edge Cores per Wing (new airfoil)
3 Leading Edge Cores per Wing (new airfoil)
Larger Fuel and Baggage Strakes
Heavy Duty Nose Gear
Larger Nose and Main Wheels and Tires
Heavy Duty Dual Puck 6" Matco Brakes
Heavier Main Gear Attachments

