

WORK



The Soloy TurboProp:

- *Performance,*
 - *Reliability,*
 - *Comfort*
- ... and it's Quiet too.*

or



You decide...

PLAY

The ultimate sport/utility vehicle.

The Soloy Turbine 206

Just listen to the 420 hp Allison turbine starting and you'll know you're in for a new experience. With virtually no engine vibration, it's quiet and comfortable. Six seats and 1,650 lbs. of useful load allow you to carry your business payload or family, friends, and their gear. Superior takeoff/landing performance, 160 kts. (TAS) cruise, the Soloy 206 will put you into places you've only dreamed of...*safely*. We're proud of our product, our reputation and our service. Let us tell you more.

(And for even more capabilities look into the Soloy Turbine 207).



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SOLOY TURBO-PROP CESSNA 206 FEATURES AND SYSTEMS

TURBO-PROP POWERPLANT: Soloy's rugged, patented "Turbine Pac" utilizes the 420 hp Allison 250-C20S turbo-shaft engine in combination with the propeller reduction gearbox, engine/gearbox frame and other components engineered and manufactured by Soloy. By locating the engine's combustion air inlet at the rear of the engine compartment, Soloy's unique installation provides protection from foreign object damage. Soloy's beefy gearbox, frame and mounting system add to the durability of the installation resulting in a turbo-prop airplane ideally suited to dirt runways and water operations.

PROPELLER: Hartzell 3-bladed, full feather, constant speed with autofeather. Propeller control system has taxi range and flight range functions. Non-reversing. Diameter 95 inches. Maximum RPM 1810.

AIRFRAME: Cessna 206 Stationair 6. All models after 1972. 1979 or later preferred because of larger fuel tanks and required 28 volt electrical system.

SEATS: Six. Easily removable for conversion to cargo hauling.

ELECTRICAL SYSTEM: 28 Volt, 150 Amp starter generator.

FUEL: Jet and qualifying Diesel No. 1.

FUEL CAPACITY: Pre-1979 models: 80 gallons total, 76 gallons usable.
1979 and later: 92 gallons total, 88 gallons usable.

AUXILIARY FUEL: Optional, 54 gallons total, 52 gallons usable. Auxiliary fuel system employs wing bladders installed just outboard of standard tanks which gravity feed into standard tanks. No valves. No pumps.

CABIN HEAT: Standard heater employs exhaust duct heat exchanger. Optional "Arctic Heater" supplements the standard heater with engine compressor bleed air and fan.

LANDING GEAR: Cessna oversize wheels with or without fairings. Tundra Tire System (29 inch mains). Optionally available.

FLOATS: Edo Seaplane, Edo Amphibious
P.K. Seaplane, P.K. Amphibious
Wipline Seaplane, Wipline Amphibious

SLOW SPEED CONTROL ENHANCEMENT: Wing "vortex generators" greatly improve aileron control at very slow speeds. Aileron control is positive even in a deep stall.

EXTERNAL NOISE: The turbine engine is inherently quiet, producing very little exhaust noise. In the Soloy system, the propeller turns very slowly, i.e., approximately 1200 RPM for taxi, 1810 RPM for takeoff and cruise. Consequently, the Soloy Turbine Cessna is very quiet in all areas of operation.

SERVICE: Available worldwide from Soloy Dealers and Allison Engine Service Centers. As the primary light helicopter engine of the western world, service for the Allison can be found wherever helicopters operate.

SPECIFICATIONS

Maximum Gross Weight, All Configurations	3600 lbs., 1620 kg.
Empty Weight, Wheels, 6 Seats	1908 lbs., 859 kg.
1 Seat, Utility	1806 lbs., 813 kg.
Seaplane, 6 Seats	2248 lbs., 1012 kg.
Amphibious, 6 Seats	2538 lbs., 1142 kg.
Fuel Capacity, Standard, 1978 and earlier, Usable	76 gal., 195 lt.
Standard, 1979 and later, Usable	88 gal., 333 lt.
Auxiliary Fuel, Usable (Optional)	52 gal., 197 lt.
Fuel Burn Rate, Normal Cruise	
@10,000 ft. 3048 meters	24 gph., 91 lph.
@20,000 ft. 6096 meters	18 gph., 68 lph.
@ loiter power, 5,000 ft. 1524 meters	15 gph., 57 lph.
Service Ceiling	20,000 ft., 6096 m.
Stall Speed, Flaps Down, Flight Idle Power	52 kts
Takeoff Distance, Wheels, Ground Roll	570 ft., 174 m.
50 ft Clearance	1063 ft., 324 m.
Landing Distance, Wheels, Ground Roll	553 ft., 169 m.
50 ft Clearance	1094 ft., 333 m.

NOTE: Floatplane takeoff and landing distances have not been formally measured, but they are even more impressive than wheel performance. At max gross weight, takeoff water run is about 12 seconds.

Max Climb, Wheels	1950 fpm., 594 mpm.
Floats	1800 fpm., 549 mpm.
Time to Climb to 10,000 ft., 3048 m	7½ min.
20,000 ft., 6096 m	20 min.
Normal Cruise, Wheels, 10,000 ft., 3048 m	163 kt TAS
Floats, 10,000 ft., 3048 m	150 kt TAS
External Sound, Max Cruise Power, 1000 ft., 305 m. overhead	
Sound	69.4 decibels
Sound Pressure59 microbars
Noise	7.7 sones

NOTE: Performance specifications are at max gross weight, standard day. Specifications are typical and may vary with individual aircraft.

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SOLUTIONS

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