A NEW GENERATION STC DEVELOPMENT PROGRAM
bringing modern engine technology to a global marketplace

Matching a legendary airframe to a new generation engine STC proven throughout the world for thousands of hours

Cessna 182 Skylane power conversion to the SMA SR305-230E compression ignition (CI) engine

» Improved engine power and reliability
» Approximately 35% Fuel Burn Reduction over Avgas
» Operated at 6 GPH long range - 12.2 GPH at max power
» Increased range and payload
» Enhanced airframe aerodynamics package
» US based program and STC ownership by Soloy
» Factory support that operators can trust and believe

FULL SOLOY FACTORY SUPPORT
An STC conversion you can trust

Single lever power control .............................................................. decreased workload
Proprietary turbocharger ......................................................... maintain takeoff power to FL100
Electronic Control Unit (ECU) ................................................... optimize starting and power delivery
Mechanical Injection Pump .................................................... reliable fuel delivery operated by ECU
Propeller Interface ................................................................. constant speed, direct drive, no reduction

www.soloy.com  Olympia, WA (KOLM)  360.754.7000
**SPECIFICATIONS**

**Design Weight and Capacities**
- Maximum Ramp Weight .................. 2,950 lbs (1,338 kg)
- Maximum Takeoff Weight .................. 2,940 lbs (1,333 kg)
- Maximum Landing Weight .................. 2,950 lbs (1,338 kg)
- Standard Empty Weight .................. 2,092 lbs (948 kg)
- Maximum Useful Load .................. 1,018 lbs (461 kg)
- Baggage Allowance .................. 200 lbs (91 kg)

**Fuel Capacity**
- Total Capacity .................. 92 gal (348.2 L)
- Total Useable .................. 88 gal (333 L)
- Total Capacity each Tank .................. 46 gal (174.1 L)
- Total Useable Capacity each Tank .................. 44 gal (166.5 L)

**Oil Capacity**
- Sump .................. 8.5 qts (8 L)
- Total Capacity .................. 12.7 qts (12 L)

**PROJECTED PERFORMANCE**

**Design Weight and Capacities**
- Service Ceiling .................. 20,000 ft
- Takeoff Distance S.L. (Ground Roll) .................. 775 ft
- Takeoff Distance S.L. (To Clear 50 ft. Obstacle) .................. 1,385 ft
- Maximum Climb Rate S.L. .................. 1,000 fpm
- Maximum Speed (10,000 ft) .................. 156 kts / 180 mph
- Maximum Range and Endurance .................. 1,480 nm / 12.3 hrs
- Cruise Speed (90% pwr at 14,000 ft) .................. 155 kts / 178 mph
- Cruise Range and Endurance (90% pwr at 14,000 ft) .................. 1,025 nm / 6.6 hrs
- Landing Distance (Ground Roll) .................. 590 ft
- Landing Distance (To Clear 50 ft. Obstacle) .................. 1,350 ft

**POWERPLANT & ACCESSORIES**

- SMA SR305-230E- MA02 Engine
- 227 HP @2200 RPM
- Certified for Jet A, Jet A1, TS-1 (Russia and CIS) and #3 Jet Fuel (China)
- Turbocharging System (Fully Automatic)
- Fuel Injection System
- Tubular Steel Engine Mount
- Dynafocal Rear Engine Mount
- Engine Driven Vacuum Pump
- Oil Cooler

- Rigid - Mounted Cowling
- Manual Cowl Flaps
- Induction Air Flaps
- Full Flow Oil Filter
- Single Power Lever
- 3 Blade Composite Prop
- Propeller Governor
- Propeller Spinner, Polished
- Electric Starter
- New Engine Gauges

*The information provided is non-contractual and may vary depending on aircraft model, configuration and certification*