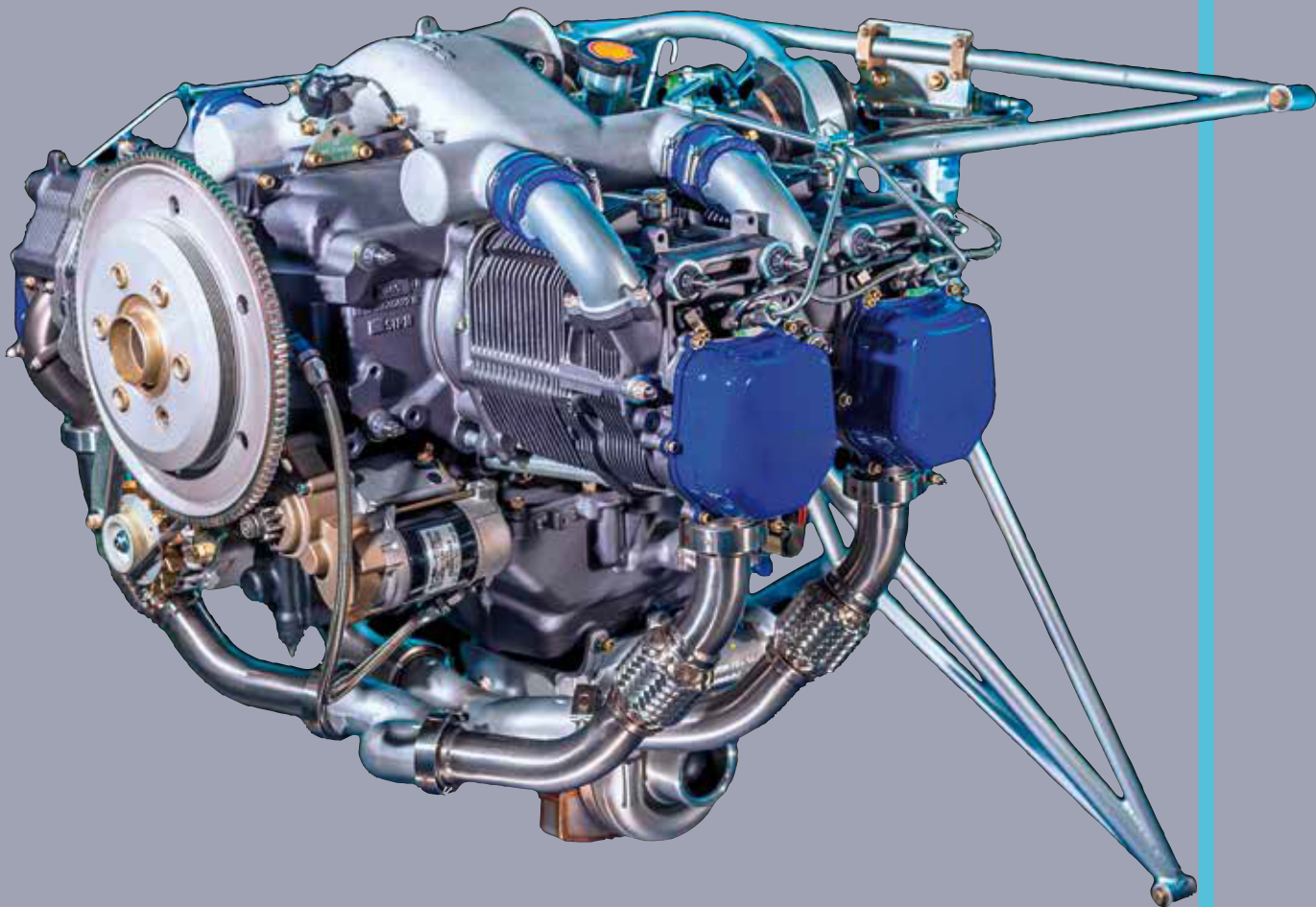
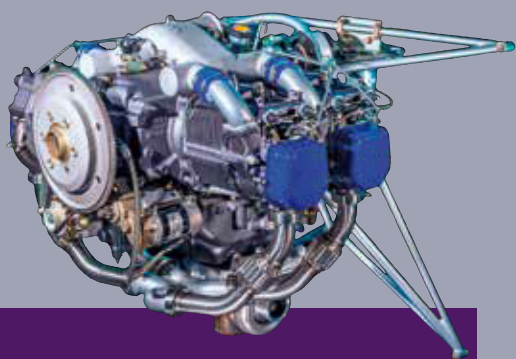


**SR305**

# JET FUEL PISTON ENGINE



- > 4-Cylinder compression ignition engine
- > Continuous power: 230 hp & 260 hp
- > Turbocharged for altitude performance
- > Long range with 0.36 lb/hp/hr



## SR305: JET FUEL PISTON ENGINE DESIGNED FOR AVIATION

SMA Aero Engines manufactures and sells compression ignition engines, developed by Safran Aircraft Engines. Ideally suited for professional or private aircraft using Jet fuels, the SR305 can be installed on single or multi-engines airframes.

The 230 hp version SR305-230E has been certified by EASA and FAA in 2011.

The 260 hp version SR305-260E is certified since 2019

### TAILORED TO MARKET NEEDS

The SR305 is a compression ignition engine purpose-built for aircraft integration. It has four-horizontally opposed cylinders and is air and oil-cooled. It is fully compatible with a large variety of Jet fuels available worldwide.

Specific versions are developed to answer OEM's performance requirements. Air-oil cooled (no additional fluid), Propeller directly driven w/out a gear box and full mechanical control capability.

### ENHANCED PERFORMANCE

The SR305 engines offer higher performance than comparable turbocharged engines fueled by Avgas.

The turbocharger, designed by Safran Aircraft Engines, maintains 260 hp up to 5,000 ft and 230 hp up to 10,000 ft and retains the engine's performance independently of outside air temperature.

The electronic control unit (ECU) optimizes engine start, maintains idle speeds, controls all power settings and automatically provides maximum power according to ambient conditions (pressure, temperature).

From the pilot's standpoint, the

ECU and the mechanical backup system offer a much easier operation than current engines, while ensuring maximum flight safety.

From the environmental standpoint, the SR305 engines significantly reduce CO<sub>2</sub> emission, burn unleaded Jet fuel and are on average 4 dB quieter than Avgas engines.

### OPTIMIZED AIRCRAFT OPERATION

By saving on fuel consumption and cost, and with its longer time between overhauls (TBO) and reduced parts wear, the SR305 reduces operating costs by over 40% compared to Avgas engines.

This results in a more flexible operation of the aircraft with extended range or greater payload capacity and higher dispatch reliability.

### SUPPORT

SMA Aero Engines provides a complete range of worldwide customer support services.

Contact for information:  
Sales@SMA-Aero-Engines.com

## CHARACTERISTICS

	SR305-230E	SR305-260E
Power	227 hp	260 hp
Critical altitude	10,000 ft	5,000 ft
Certified ceiling	20,000 ft	
Displacement	5 liters (305 cu. Inch.)	
Fuels	Jet-A, Jet-A1, Russian TS-1, Chinese N° 3, JP-8	
Brake S.F.C	0.36 lb/hr/hp	
Diesel oil	Aeroshell	
Engine speed	2,200 rpm	
Weight	455 lb	
TBO	2,400 hours	2,000 hours targeted
Certification	EASA TCDS E.076	