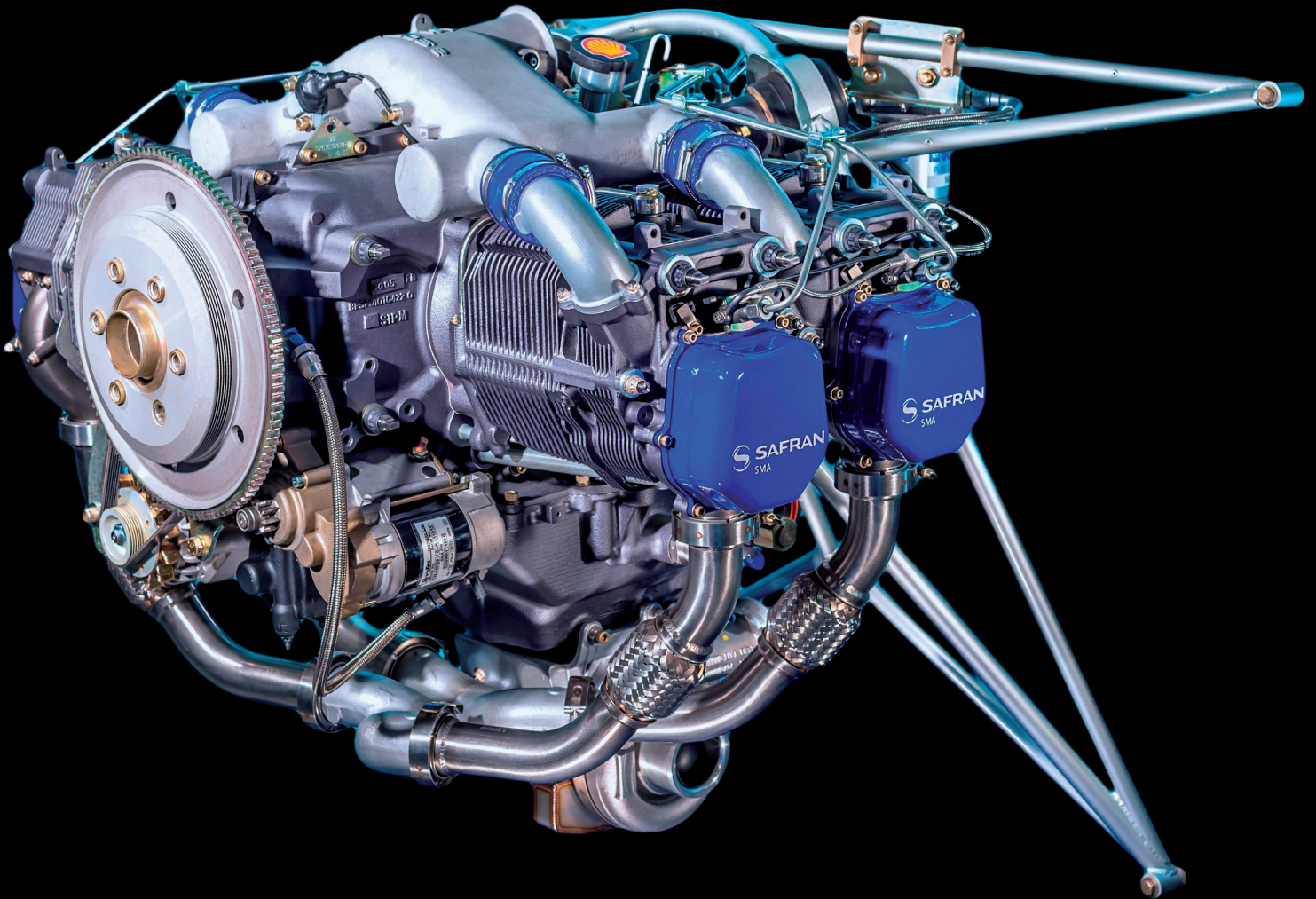


GENERAL AVIATION ENGINES

SR305



- > 4-CYLINDER COMPRESSION IGNITION ENGINE
- > SINGLE OR TWIN-ENGINE AIRCRAFT
- > ENHANCED PERFORMANCE
- > COST EFFECTIVE OPERATION



SR305: THE DIESEL CYCLE ENGINE DEVELOPED BY SMA

SMA, a subsidiary of Snecma (Safran) develops, manufactures and sells compression ignition engines.

Ideally suited for professional or private aircraft using Jet fuels, the SR305 can be easily installed on single or multi-engines airframes.

The 230 hp version SR305-230E has been certified by EASA and FAA in 2010.

TAILORED TO MEET TODAY'S AND FUTURE MARKET NEEDS

The SR305 is a diesel-cycle 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. Cessna, as well as OAP, the Ukrainian aircraft manufacturer, have both selected the SR305-230E version, with the first entries into service in 2013.

ENHANCED PERFORMANCE

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

The turbocharger, designed by SMA, maintains takeoff power up to 10,000 feet 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 CO₂ 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 provides a complete range of customer support services and has reached an agreement with Lycoming Engines to support the SR305-230E engine worldwide through Lycoming Service Centers.

CHARACTERISTICS

Power (SR305-230E)	227 hp
Critical altitude	10,000 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

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