



LIGHT AIRCRAFT ENGINE

SR305-230E

JET A FUEL

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230-HP diesel engine for light aircraft, using Jet A fuel

Sets a new standard in diesel engines for light aircraft

Designed to meet increasingly demanding customer expectations and environmental regulations

Certified by EASA and FAA

The SR305-230E engine is designed, developed and sold by SMA, a wholly-owned subsidiary of Snecma (Safran group), one of the world's leading aircraft and rocket engine manufacturers. It gives aircraft manufacturers all the advantages needed to offer a highly competitive product to customers and users, and can be easily installed on single- or multi-engine airframes.

SMA takes complete responsibility for the SR305-230E engine program, spanning design, assembly, marketing, sales and support.

The SR305-230E at a glance

The SR305-230E is a diesel engine purpose-designed for aviation. It is a flat-four, horizontally opposed, four-stroke engine, using Jet A or Jet A1 fuel. Air and oil-cooled, it has a direct mechanical injection pump and a turbocharger. The propeller is direct drive.

The engine's design provides performance equal to or exceeding comparable turbocharged gas engines. Furthermore, by cutting fuel costs in half, or even more, and with longer times between overhauls, it significantly reduces operating costs.

Easy control

A single stick controls both the throttle and propeller pitch, managing all engine parameters and also offering two decisive advantages: it increases flight safety while decreasing workload.

Operational advantages

The SR305-230E is an extremely efficient powerplant in terms of fuel consumption and cost: it burns 42% less than a comparable gas engine, and reduces costs by more than 50%.

Its ability to use Jet A fuel also means significantly longer range than aircraft powered by gas engines.

Environmental friendliness

The SR305-230E meets environmental requirements because of the total absence of lead in the exhaust and is 4 dB quieter than a gas engine, on average.

Customer support

SMA deploys a network of service centers worldwide. It also offers training for operators' maintenance staff to ensure the satisfaction of professional and private operators around the world.

In addition, SMA has established a network of Field Support Representatives (FSR) to assist distributors and service centers, providing local service almost everywhere in the world.

CHARACTERISTICS

Power (sea level and ISA) (shp)	227
Critical altitude (ft)	10,000
Displacement (l)	5 (305 cubic inches)
Fuel	Jet A1 / Jet A
Brake S.F.C. (lb/hr/hp)	0.365
Certified ceiling (ft)	20,000
Diesel oil	Aeroshell
Engine speed (rpm)	2,200
Weight (lb)	455
TBO (hours)	2,400

