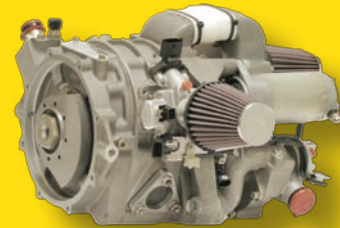
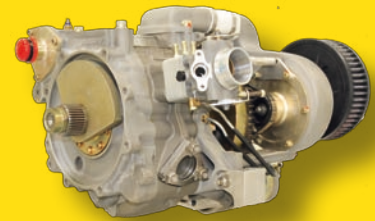




Austro Engine

Innovative Performance.



Our Company



Austro Engine

Austro Engine GmbH, an independent and privately held company, develops and manufactures rotary and Jet A1 piston engines for various original equipment manufacturers of General Aviation aircraft and unmanned aerial vehicles.

The company was founded in 2007 and inherited the engine business from Diamond Aircraft Industries GmbH, a world class designer and manufacturer of a wide range of innovative and modern General Aviation aircraft.

Located in a brand new 7600 sqm facility in the Civitas Nova industrial area in Wiener Neustadt, Austria, our plant features modern production gear and tools as well as four engine and one propeller test stands.

We operate in line with top level quality and safety standards and always strive for the perfect solution. Our highly motivated employees are passionate about delivering the most effective product for your needs.

In November 2008 Austro Engine has received the Production Organisation Approval AT.21G.0010 from Austro Control GmbH.

In October 2009 Austro Engine has received the Design Organisation Approval AT.21.J.399 from Austro Control GmbH.



Partners

Austro Engine's business philosophy is based on close cooperation with leading industry partners. Using and developing Austro Engine's aviation expertise, together with the technology leadership of our partners, we provide innovative solutions customized to the specific needs of our customers.

In cooperation with the world's leading manufacturers in engine engineering, gear engineering and engine management Austro Engine has developed the most modern and fuel efficient kerosene (Jet A1) piston engine available in General Aviation.

MBtech

Mercedes-Benz technology

MBtech Powertrain GmbH

Engineering part of Daimler AG, responsible for the core engine



Hör Technologie GmbH

Specialist in gear engineering, responsible for the gear box



BOSCH

Invented for life

Bosch General Aviation Technology GmbH, Vienna

Engine Management Systems for General Aviation, responsible for engineering & production of the EECU





AE 300

Jet A1 Piston Engine

With the brand new AE 300, Austro Engine GmbH has launched the leading Jet A1 piston engine in General Aviation. Numerous testing hours have proved its endurance and reliability. Highest performance and higher efficiency compared to similar products on the market.

The AE 300 is a four cylinder two liter piston engine which uses Jet A1 to produce 123.5 kW. This engine is initially installed in aircraft of Diamond Aircraft Industries GmbH, but is also available to other OEMs.

This engine is certified and has already received following Type Certificates:

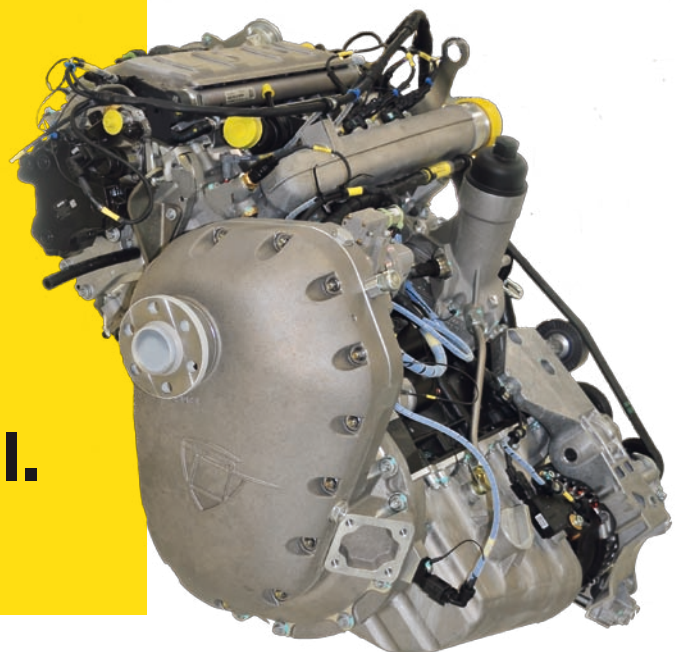
- EASA Type Certificate EASA.E.200 according EASA CS-E in January 2009
- FAA Type Certificate E00081EN according FAA part 21.29 in July 2009
- TSA Type Certificate IAC CT301AM in July 2009

and other regions are following soon....

Reliable.

Powerful.

Economical.



AE 300

Key Benefits

Reliability

Latest automotive standards assure highest safety and minimal fuel costs due to lowest fuel consumption. Modern common rail technology provides the high reliability level.

Customer-Optimized

The development of the AE 300 focused on efficient maintenance work. Therefore low service costs and high operating availability argue for the AE 300.

Multi-Fuel Use

The AE 300 uses Jet fuel to produce 123.5 kW. Worldwide availability of Jet fuel and multifuel capability of the engine guarantee worldwide applicability. Customers benefit from lower fuel costs compared to AVGas.

Engineering design support

Austro Engine offers all OEMs assistance in component integration. Austro Engine transfers Know How to other companies to decrease error rate, development costs and time. All these measures alleviate engine integration and accelerate projects.

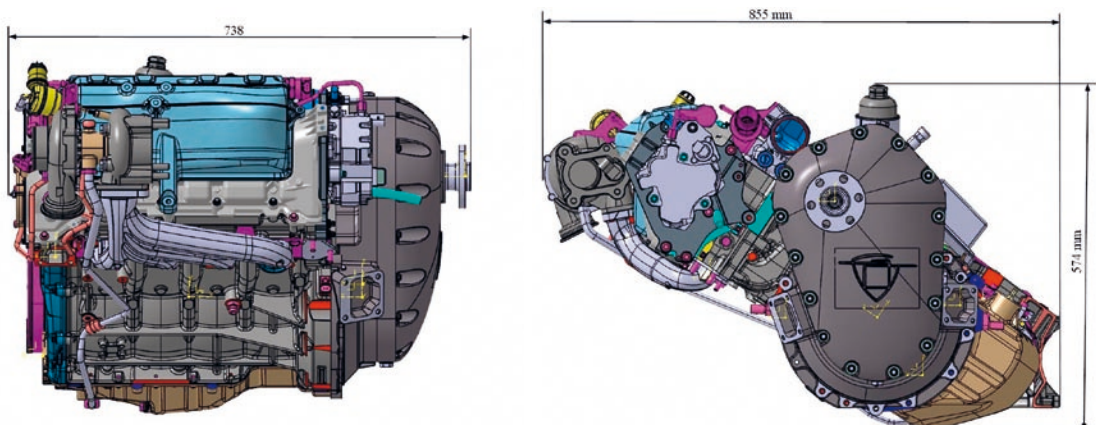
Performance

The AE 300 provides 123.5 kW for flight convenience and best performance of the aircraft. The low specific fuel consumption and the high altitude performance are unique in general aviation. The low vibration and the single power lever design improve the engine operation comfort.

Warranty Information

Austro Engine warrants 30 months ex works or 24 months since first operation. For detailed information have a look at the complete warranty conditions.

Dimensions



AE300

Technical Data

General

The AE 300 is a liquid-cooled, in-line 4-cylinder engine with double overhead camshaft (DOHC). Every cylinder has four valves which are actuated by the cam follower. The direct fuel injection is delivered by common rail technology. The power is provided by the integrated turbo charger. The engine is controlled by an electronic controlled system with integrated single power lever design. The propeller pitch change is actuated by a governor which is controlled by the engine electronic controlled unit. This allows the single power lever design system.

Scope of Supply

The engine is equipped with an electrical starter, an alternator, a water pump, an oil pump and an integrated oil to coolant heat exchanger. The propeller is driven by an integrated gearbox which is fitted to the engine using an integral torsional vibration damper.

Performance

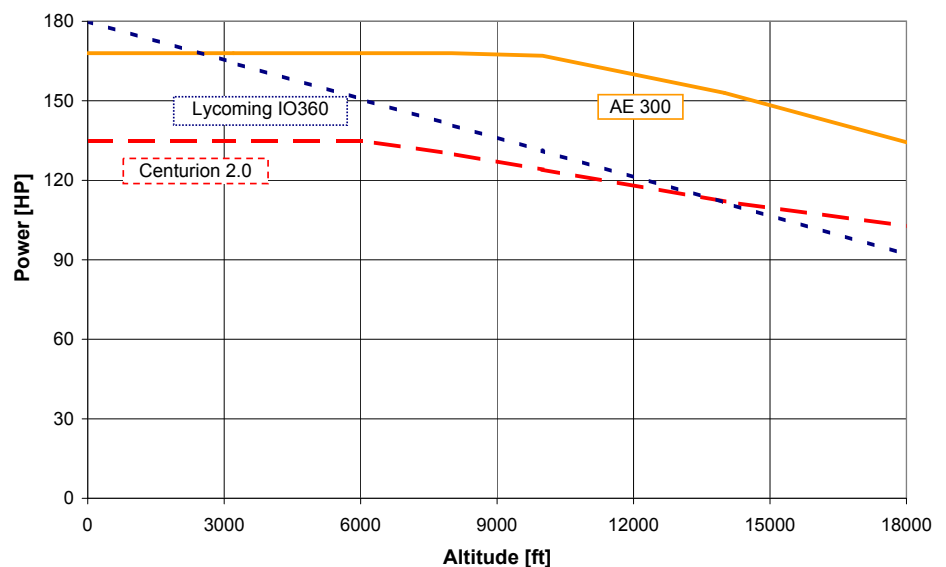
Power	
kW	123.5
hp	168
1/min	3880

Fuel Consumption	
MTOP (100% - 123.5 kW)	35.1 l/h
MCP (92% - 114 kW)	31.5 l/h
Best Economy (73% - 90 kW)	21 l/h

Dimensions / Weight

Displacement	1991 cm ³	121.5 cu in
Weight (wet)	185 kg	414 lbs
Gear Ratio	1.69	

Altitude Performance of the AE 300 compared with TAE 125 * and Lycoming IO360 **



* based on Operation & Maintenance Manual, Version 1/6, Thielert Aircraft Engines GmbH, Germany

** based on Operator's Manual, 6th Edition, Sept. 1999, revised April 2005, TEXTRON Lycoming, U.S.A.

AE 50R

Rotary Engine

The AE 50R is an AVGas single rotary engine with 40.4 kW. This engine is certified according to EASA Part 22 Subpart H. The enormous power-weight relation results in an unique position on the global market.

Since launching our first line of products, the AE 50R series, our 40.4 kW rotary engine product, has built a successful track record, with more than 700 installations in motor gliders and UAV applications of leading OEMs.

Small.

Unique.

Low Vibration.



AE 50R

Technical Data

General

The AE 50R is a 294 cm³ single rotary engine with liquid cooling plus forced air cooling for the rotor core, lubrication via metered oil pump directly to main bearing and rotor tips with partial oil recovery system, twin spark plugs, electric starter, 14 Volt 18 Amp alternator, electronic fuel injection and electronic control system.

Specification

Fuel	AVGas 100LL or RON 95 Unleaded
Engine Oil	approved synthetic
Coolant	50% glycol, water
Engine Control	ECU
Ignition Timing	variable
Spark Plug	surface discharge
Alternator	14 Volt / 18 Amp

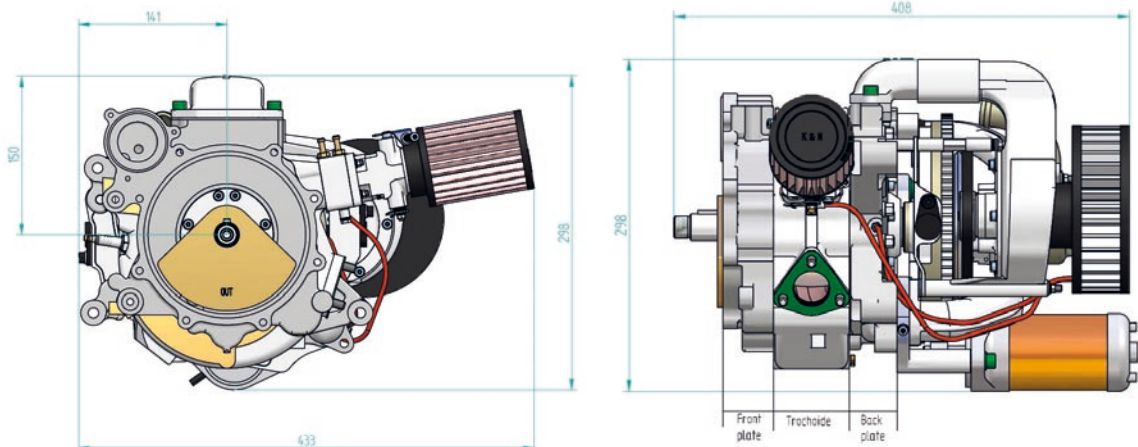
Performance

Performance at sea level			Torque	
kW	HP	RPM	Nm	RPM
40,4	55	7750	52,5	7750

Weight

Weight		kg	lbs
Engine core, Ignition units, Voltage regulator		24.5	54.0
Typical coolant in radiator, hoses and engine casting		3.3	7.3
Engine total weight		27.8	61.3

Dimensions



AE 75R

Under Development

Rotary Engine

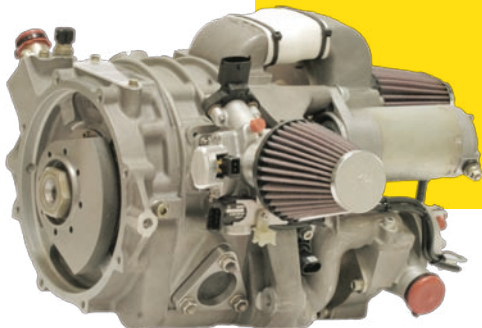
Our rotary engines are small, lightweight, and have an outstanding low vibration. Their reliability and adaptability enabled the development of a larger, stronger rotary engine, the AE 75R, which will soon be available.

The AE 75R is a rotary engine which uses AVGas to produce 55 kW. The installation dimensions are similar to the AE 50R. An improved electric electronic controlled system is used.

Powerful.

Efficient.

Low Vibration.



AE 75R

Technical Data

General

The AE 75R is a 404 cm³ single rotary engine with liquid cooling plus forced air cooling for the rotor core, lubrication via metered oil pump directly to main bearing and rotor tips, partial oil-recovery, EECU, twin spark plugs, twin injection, 14 Volt 40 Amp alternator and electric starter.

Specification

Fuel	AVGas 100LL or RON 95 Unleaded
Engine Oil	approved synthetic
Coolant	50% glycol, water
Engine Control	EECU
Ignition Timing	under development
Spark Plug	surface discharge
Alternator	14 Volt / 40 Amp

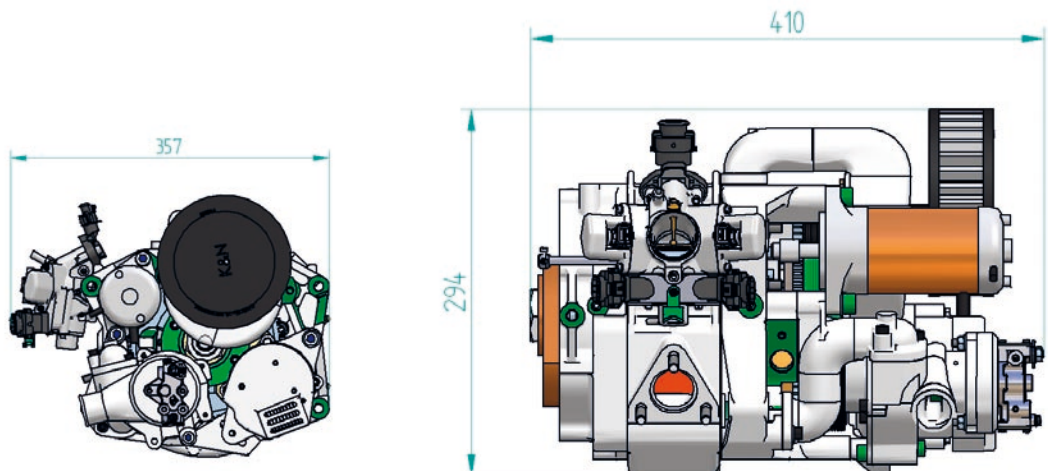
Performance

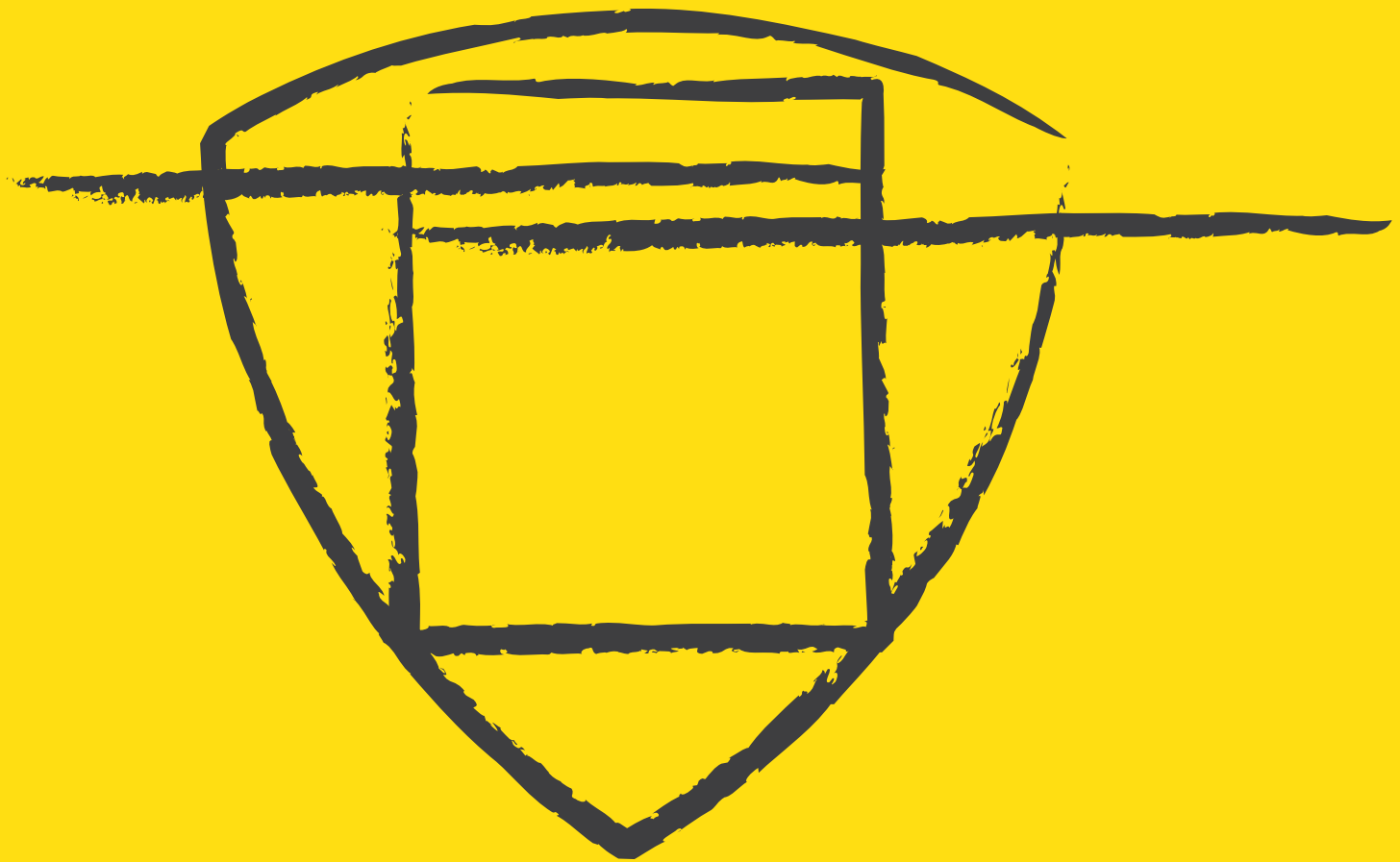
Performance at sea level			Torque	
kW	HP	RPM	Nm	RPM
55	75	7000	70	7000

Weight

Engine/Parts	kg	lbs
Engine core	28	61.7
Ignition units	0.9	2.0
Radiator	1.9	4.2
Typical coolant in radiator, hoses and engine casing	4.8	10.6
Engine total weight approx.	35.6	78.5

Dimensions





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