Your General Aviation Engine Partner!
Austro Engine GmbH 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 and in October 2009 the Design Organisation Approval AT.21.J.399 from Austro Control GmbH.
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 the 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 January 2010
- IAC Type Certificate CT301AM in March 2010

and many other regions....

Reliable.

Powerful.

Economical.
**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**

![Dimensions Image]
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.

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.

| Displacement | 1991 cm³ | 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
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.
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.

**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

<table>
<thead>
<tr>
<th>Performance at sea level</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW</td>
<td>HP</td>
</tr>
<tr>
<td>40.4</td>
<td>55</td>
</tr>
</tbody>
</table>

### Weight

<table>
<thead>
<tr>
<th>Weight Description</th>
<th>kg</th>
<th>lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine core, Ignition units, Voltage regulator</td>
<td>24.5</td>
<td>54.0</td>
</tr>
<tr>
<td>Typical coolant in radiator, hoses and engine casting</td>
<td>3.3</td>
<td>7.3</td>
</tr>
<tr>
<td>Engine total weight</td>
<td>27.8</td>
<td>61.3</td>
</tr>
</tbody>
</table>

### Dimensions

![Engine Diagram]
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.

Our Partners

**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
Our Customers