

Prices 2009 (valid as of 1st Jan. 2009)

We offer non-certified engine systems for installation in Ultralight (UL) and Very Light Aircraft (VLA).

In addition to the basic engine with core accessories, we also supply further necessary accessories. These necessary accessories are dimensioned to match our system perfectly and have successfully undergone sustained operation trials. But it is also possible to use components from other producers.

Note that the scope of delivery does not include the engine frame, tubing and connectors because the space available under the cowling varies with aircraft type.

As such, customised solutions have to be designed for individual aircraft types.

Furthermore, we offer special accessories which greatly facilitate installation and operation. However, alternative solutions are available.

Description	Price excluding VAT	Price including 19% VAT
Basic engine M160/1 60KW (82 HP) with core accessories Scope of delivery: Engine including generator, centrifugal clutch, necessary sensors and carbon fibre oil trough. Gearbox: timing belt 1:2,1 / pitch circle 75mm Electrical components: engine controller (ECU), module box, controller cable set, pressure sensor, temperature sensor. Others: Accelerator module, air conduits and clock valve Engine and gear are pre-assembled	10.555,00 €	12.560,45 €
Basic engine M160/1 74KW (100 HP) with core accessories Scope of delivery as with 60KW engine.	11.354,00 €	13.511,26 €
Basic engine Diesel OM 660 45 KW (60 PS) with core accessories Scope of delivery as with 60KW engine.	10.479,00 €	12.470,01 €

Further necessary accessories:

Water cooler	75.00 €	89,25 €
Charge-air cooler	348,00 €	404,12 €
Air filter	47.50 €	56,53 €
Compensator reservoir with lid	31.50 €	37,49 €
Muffler including connector and coupling	165.00 €	196,35 €
Fuel pump and fuel filter	159.00 €	189,21 €

Special accessories

Suspension set: retention plates with shock absorbers for installation in a frame	180.00 €	214,20 €
Smart MIP: Engine monitoring unit with analogue and digital display: engine RPM, fuel consumption, fuel level, manifold pressure, oil pressure, water temperature, oil temperature, on-board voltage and other parameter. The device stores a log of the last 20 flights with date, take-off and landing time and flight duration. Names of several pilots can be stored.	970.00 €	1154,30 €
Cable set with operating panel: For installation in instrument panel. (ignition lock, starter button, fuses, charge indication lamp etc.)	450.00 €	535,5 €
Base plate for electronic components	25.00 €	29,75 €
Engine frame adapted to FK9	350.00 €	416,50 €
Tubing – charge air for FK9	90.00 €	107,10 €
Tubing – water	48.00 €	57,12 €
Heating plant	285.00 €	339,15 €
Frame for water cooler		
Cowling FK9		

We also undertake full installation of the engine in your aircraft. The cost of assembly (including custom fabrication of a suitable frame!!) as well as that of customising the cowling will be determined on a case-by-case basis.

We would like to welcome you to our facilities and see how the smart engine is installed in the training FK9 aircraft of the flying school, so that you get an overall idea of the smart engine in your aircraft. We also be glad to clarify any technical issues. Please arrange a date with us in advance.

Information:

Engine and gears fully assembled. All accessories will be enclosed as discrete components (without couplings).

Ecofly does not manufacture propellers. We recommend the following propellers:

- Warp Drive (USA) 68" three-blade
- Duc (France)

Terms of payment:

€5,000 payable at the time of ordering, remainder payable at the time of delivery / pick-up.

Indicated prices apply ex Speyer exclusive of packaging.

Prices subject to change.

Important notes:

We reserve the right to make technical modifications.

Engine installation must comply with the requirements stated in the Installation Manual.

The full system must be tested after first-time installation.

Our engines may be used exclusively in UL and VLA, which may be operated using non-certified engines.

Further information**TBO (Time between overhaul):**

Since long-term trials have not been concluded, an exact TBO value cannot be indicated. We expect a value of 2,500hrs. This value is based on the fact that the engines have already undergone long-term trials by the manufacturer Daimler-Chrysler.

The first smart engine which we installed in the FK-9 aircraft of our flying school ran for about 1,400hrs without any significant problems.

Full overhaul:

For a full overhaul, the existing engine is replaced by a brand new engine. The gears are completely dismantled and worn out components are replaced. Estimated costs amount to approximately €4,500.

Maintenance intervals:

See Operating Manual

Warranty:

2 years