

BeePower

Behind BeePower is the excellent service and reliability that our customers have experienced from our Turbinenshop for more than 10 years.

Since years, the idea in us has sprouted to not only trade model- and industrial turbines, but also develop and establish our own turbine product family in the market. In the past year, we successively pursued this idea and developed our own turbine product family. The launch of the BP250 is successfully accomplished and further, larger turbines will be added to our portfolio throughout the current year.

The design and development of the BeePower turbines is carried out by a professional model- and industrial turbine manufacturer who is well known for its numerous turbine designs, which are still in series production and on the market for several decades.

The design and manufacturing is 100% Made in Germany. The in-house production share of the components used for final assembly is around 90%. This means there is no dependency on long supply chains, and short-term implementation of customer-specific adjustments is possible.

The production is based on the latest machining and according to the current technology standards.

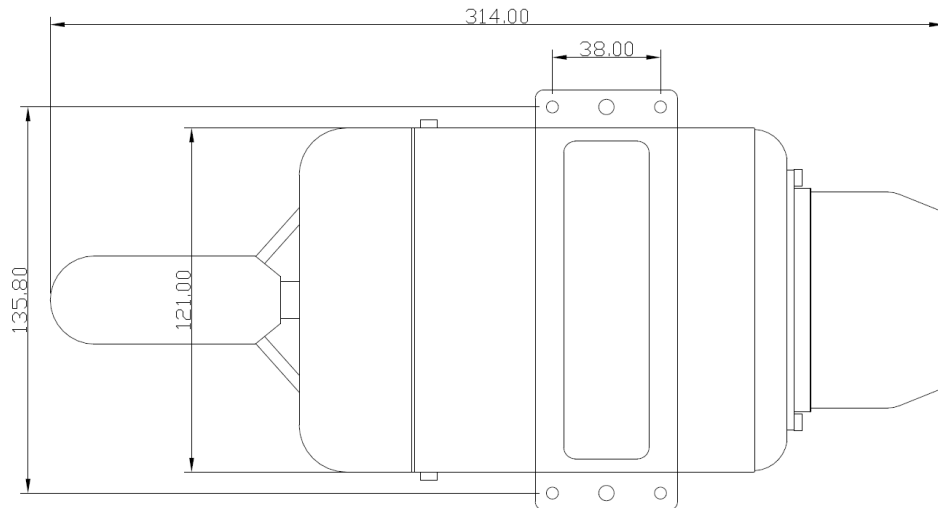
The advantages of BeePower:

- Professional experience in design, development and production of model- and industrial turbines for several decades
- Excellent service, customer oriented and reliable
- 100% Made in GERMANY
- High share of in-house produced parts leading to very low dependency of sub suppliers
- Customer specific changes and adaptations can be implemented short-term

Technical Specification

All Data at STP +/-3%

Idle rpm (1/min)	34000
Max rpm (1/min)	115000
Thrust at idle (N)	13
Thrust at max rpm (N)	250
EGT range (°C)	570-780
Pressure ratio at max rpm	3,7
Mass flow (kg/s)	0,5
Exhaust gas velocity (m/s)	1908
Exhaust gas power output (kW)	70
Fuel consumption idle (ml/min)	140
Fuel consumption max rpm (ml/min)	835
SFC at max rpm (kg/Nh)	0,15
Engine weight (g)	2159
System weight (g) Industrial / RC	2724 / 2484
Diameter (mm)	121
Total length (mm)	314
Fuel	Kerosene, petroleum, diesel - all with 5% turbine oil
Starting method	Kerosene (internal/external), propane on request



BP250 – Description

The BeePower Turbines are available in a RC- and Industrial Version.

RC Version

The RC version comes with all necessary equipment to run the turbine on a RC-model. The end user only has to ensure the power supply and the fuel line to the turbine.

The set comprises of:

- Turbine with external Kerostarter
- Brushless fuel pump
- Solenoids
- Wireset
- RC ECU
- Data Terminal

Industrial Version

The Industrial version is intended for industrial use. Only selected materials and components are used for this version, as well as a special ECU. This guarantees an optimal performance and extended run time at high altitudes.

The components used in the ECU fulfil automotive grade standards.

Furthermore, the Industrial version can be specifically customized to customer requirements.

The customer can optionally choose on the following configuration set up:

- Kerostarter external
- Kerostarter internal (optional)
- Propane start (optional)
- BleedAir Port (optional)
- Saltwater resistant
- Industrial ECU in massive alloy housing, executed as Powerbox with the following integrated components:
 - Brushless fuel pompe with encoder
 - Solenoids
 - 25 pin connector
 - BUS Interface (PWM, RS232, CAN Bus)
 - Integrated Flightdata recording (optional)
 - Easy and secure installation with reduced tubing and wiring effort
- Industrial Data Terminal
- Ground Monitoring Station (optional)

Additional Features

- Laserwelded stainless steel housing
- Brushless Starter Motor
- No high integrated components for easy service and exchangeability
- 90% share In house production of core components, no dependency on sub suppliers
- All core competencies for processes and production are In-house
- Service interval 25h
- 2 years warranty, warranty extension possible with purchase of turbine
- Service and maintenance contracts are optionally available
- Packaging in a high-quality industrial case with foam inlay
- Maximum thrust at smallest dimensions and system weight

