Guide for the repair and replacement of spare parts of Elektror ATEX products
If it comes to explosive circumstances, Elektror ATEX blowers in explosion protected design provide you absolute security.

In more and more applications the explosion protection of blowers is an indispensable requirement. Numerous conveyed dusts and gases are already highly explosive in original condition, or develop this character by mixing with other mediums. In some cases, even a tiny spark can cause unforeseen and catastrophic consequences.

Our ATEX blowers are exactly designed for those highly sensitive cases.

**LOW PRESSURE BLOWERS ND-ATEX**

High capacity paired with a compact construction. Conveying of large air volumes at smaller and medium system resistance with Elektror Low Pressure Blowers in explosion protected design.

*Volumetric flow rate up to 95 m³/min  - Total pressure difference up to 2,700 Pa*

**MEDIUM PRESSURE BLOWERS RD-ATEX**

Conveying medium air volumes at higher system resistances with Elektror Medium Pressure Blowers in explosion protected design.

*Volumetric flow rate up to 90 m³/min  - Total pressure difference up to 6,900 Pa*

**HIGH PRESSURE BLOWERS HRD-ATEX**

Exactly the right device when lots of power is in great demand! Conveying high air volumes at high system resistances with Elektror High Pressure Blowers in explosion protected design.

*Volumetric flow rate up to 97 m³/min  - Total pressure difference up to 16,000 Pa*

That’s why Elektror is your reliable partner when it comes to the ATEX topic:

- Especially documented manufacturing flow and test runs
- Trained and experienced specialist staff
- Specific impellers and motors
- Specific coatings/sealings for aggressive and abrasive associated materials
- Accurate compliance with norm guideline EN 14986
- Suitable for the categories II2G, II3G, II3GD and II3D (zones 1, 2 and 22)
- Temperature classes T4 to T1 and on request T135°C (for the dust EX area)
**REPAIR OR REPLACEMENT OF SPARE PARTS OF ELEKTOR ATEX BLOWERS**

We urgently recommend that you turn in your Elektor ATEX blower for repair or replacement of parts to our production facility in Waghäusel. We will inform you of the results of our competent analysis of the technical condition including recommendations for the best procedure to be followed. You will also be informed what can be done to restore the product to an optimum condition. If continued operation or repair should not appear advisable, we will offer a new appliance suitable for your application.

If any unauthorized repairs or alterations will be done on an Elektor-ATEX blower the Elektor airsystems gmbh does not take liability or warranty. The operator is liable for thus resulting damages.

In Germany and diverse other European countries you may alternatively avail yourself or our service contractors for repair or replacement of parts. These service partners are bound by a contract with Elektor and have been trained to service our ATEX blowers. Careful adherence to the ATEX regulations applicable throughout the EU, but also to the specific requirements we have defined as the manufacturer to enhance the safety of our ATEX products, is guaranteed by our service partners.

**DELIVERY OF SPARE PARTS**

When using spare parts and accessories for explosion protected blowers made by Elektor, be sure to apply and adhere to the EU regulations or applicable national regulations for explosion protection. Within the territory of the Federal Republic of Germany, these especially include the requirements set forth in TRBS 1201-3 and § 14 (6) of the BetrSichV. Within the EU, all member states have set in force corresponding legal requirements and regulations which must be adhered to. Outside the European Union, the buyer, distributor and user must adhere to the laws, regulations and statutes relating to explosion protection, applicable at the operating site of the respective Elektor ATEX product.

As specified by law, the user is responsible for safety and health protection during operation as well as for trouble-free operation.

When ordering spare parts, please always state the serial number of the respective Elektor ATEX product. You will find it on the nameplate attached to the blower housing.

According to the ATEX directive for explosion protection as well as the regulations and standards based on it, requirements detailing admissible and inadmissible material combinations have been published. To adhere this requirements we recommend you to use original spare parts from Elektor.

**NOTES FOR REPAIR OF ATEX BLOWERS**

These notes will provide you only a selection of the most important guidelines concerning repair and replacement of parts of Elektor ATEX blowers.

Before and after maintenance/service measures, repairs or replacement of parts, an Elektor ATEX blower may only be employed as intended. You can find information on the intended use as well as installation, putting into operation and the procedure for repairs in the instruction manual. It will be delivered with the ATEX device.

Before commencing with the maintenance/service measure, repair or replacement of parts ensure that the blower impeller has stopped and the blower has been secured reliably to prevent start-up.

For safety reasons, sealing elements and radial shaft seals must be replaced at least in course of every maintenance work, repair or replacement of parts, which requires that sealing elements are opened, remove or otherwise manipulated.

ATEX motors can only be replaced as complete units. Depending on the operating conditions in line with the ball bearings the recommended value is two years. As required by EN ISO 60079, repair of ATEX motors is exclusively performed by the manufacturer of the motor.

The balancing as well as the lateral and radial travel of the impeller may not be impaired as a consequence of maintenance/service, repair or replacement of parts.

The annual gap between impeller and housing cover may not fall below a certain value.

For the blower types D 09, D 092, RD 8, RD 82, RD 84, RD 92 and RD 94 the minimum gap has to be 3 mm circumferential. For all other types the minimum gap has to be 2 mm circumferential.
PRODUCT REVIEW
ATEX-BLOWERS

ATEX-Low pressure blowers

ATEX-Medium pressure blowers

ATEX-High pressure blowers

ND-ATEX

RD-ATEX

HRD-ATEX

Remark on the maintenance of ATEX ventilators:
We wish to point out that the maintenance interval on ATEX ventilators is approximately every 12,000 hours in service, depending on the conditions of operation.