



ECOFIT – Electronic product overhaul of machines as a favorable alternative to retrofitting

Keep your machines in the race

Plan a pit stop now in good time to maintain the functionality of your machines before expensive and lengthy downtimes occur. Maintenance instead of repair, because the „old one“ still works.*

With more than **35 years of experience** in the product overhaul and maintenance of electronic assemblies in automation technology (e.g. control systems, drives, HMI, PLC, etc.), we at BVS have been successfully offering a unique service as an **efficient and effective alternative to the conventional retrofit** of complete machine electronics for many years.

With our ECOFIT service, we offer you a **fast** and, above all, **cost-effective** way to completely overhaul your industrial electronics in machines and systems as a **preventive measure** during a planned machine shutdown, thus ensuring your long-term **machine availability**.

*Provided the functional requirements of your machine remain unchanged.

The advantages BVS has to offer:

-  **Low costs**
Only around 10 % of a retrofit
-  **No retraining**
on new control system necessary
-  **Longer machine availability & extended life cycle**
Thanks to product-re-furnished industrial electronics assemblies as well as assessment and safeguarding of serviceability as part of the ECOFIT
-  **Maintenance of machine directive conformity**
in accordance with 2006/42/EC
-  **On-site service**
Data backup, removal, installation and recommissioning
-  **Maintaining your stock**
Continue to use your existing stock
-  **Conversion time (approx.)**
Retrofit: 1-4 months
ECOFIT: 1-2 days (for replacement)/7-10 days (for product overhaul repair)



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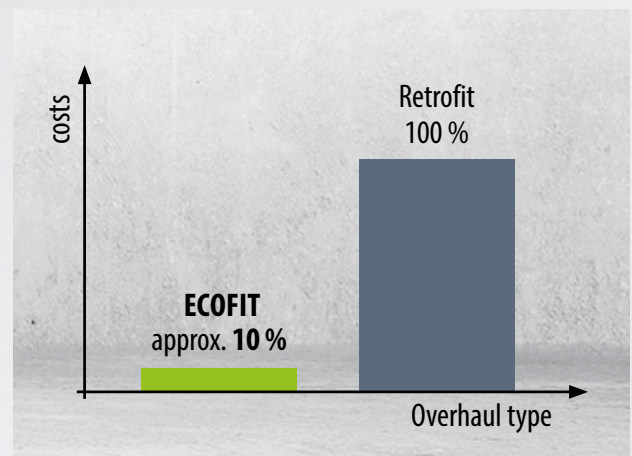
Quality makes the difference.

ECOFIT thus offers you **economic** and **ecological** advantages for maintaining your machine availability!

Economic advantages



- ✓ Low costs and shorter conversion time compared to a retrofit
- ✓ Overhaul possible at full capacity
- ✓ No retraining necessary for new control system
- ✓ **Longer machine availability & extended life cycle** through product-refurbished industrial electronics assemblies as well as evaluation and safeguarding of serviceability in the course of the Ecofit
- ✓ 24 months warranty*



Ecological advantages



- ✓ Maintain compliance with the Machinery Directive 2006/42/EC
- ✓ Maintenance of your stock

For whom is **ECOFIT** particularly interesting?



Flexibility in the interest of the customer and the project!

All services within the ECOFIT package can be customized to your individual needs and project requirements.

Overview of the basic project setup options

Analysis of the industrial electronics assemblies by customer and/or BVS, then...

Repair procedure

- Removal of the industrial electronics on site as part of a planned shutdown of the affected machine
- Carrying out a product overhaul repair at BVS
- Installation and commissioning by the customer's maintenance/Service technician of the client

With on-site service: Removal, installation and commissioning by maintenance/service technicians from BVS or a BVS partner

Exchange procedure

- Direct replacement of the industrial electronics on site and installation of already overhauled assemblies on the affected machine
- Removal, installation and commissioning by the customer's maintenance/service technician
- Old assemblies at BVS

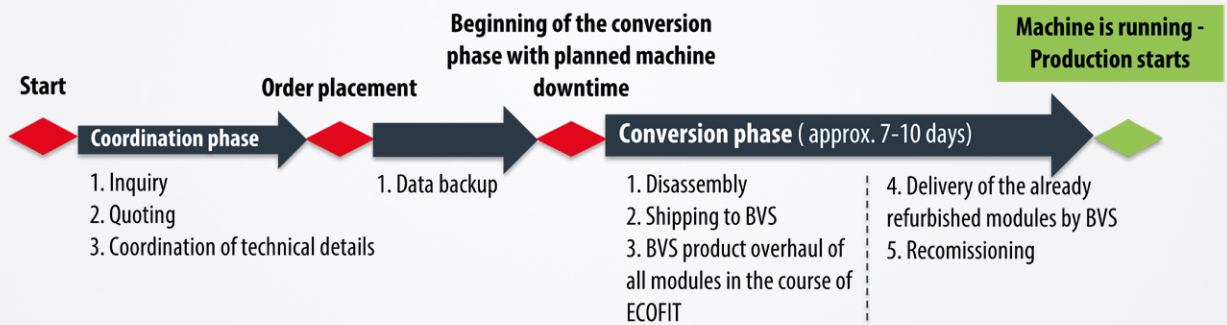
With on-site service: Removal, installation and commissioning by maintenance/service technicians from BVS or a BVS partner

So what does an ideal **ECOFIT** project look like?

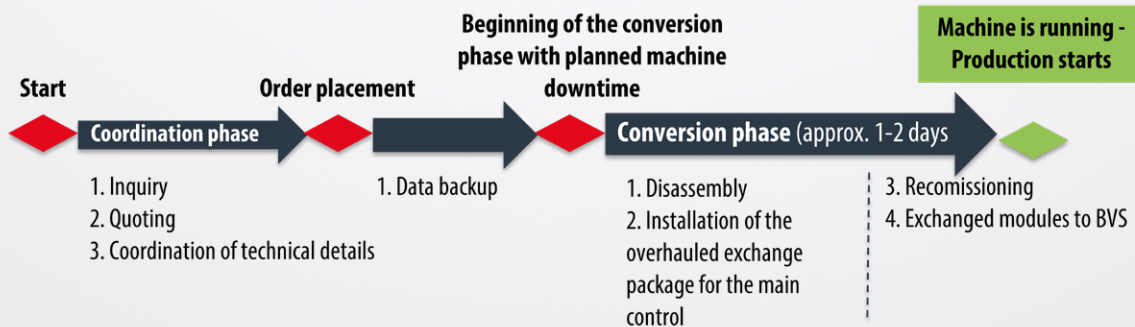
Regardless of which specific project setup you decide on, whether you carry out an Ecofit in a repair or replacement process. Compared to a classic retrofit, you save a lot of time and money. The necessary machine downtime is reduced to a minimum.



1 **Repair** (sample project plan)



2 **Exchange** (sample project plan)



The results speak for themselves! A customer example from practice.

Why should the system receive an ECOFIT?

1. The system will be used for the next few years to process similar, long-term customer orders, which is why the old control system can continue to be used in the long term. A significantly more expensive retrofit can therefore be dispensed with.
2. Due to the long machine service life (>15 years), unplanned electronic failures became more frequent.
3. To prevent such cost-intensive machine downtimes, a planned maintenance window of 1-2 weeks was used to overhaul the entire control system as part of an ECOFIT.
4. In the past, such measures have also been successfully implemented with other machine suppliers of the customer.

The concrete approach:

A complete ECOFIT of the machine electronics was implemented in the repair process. At the same time, a mechanical product overhaul was carried out by the machine manufacturer. Removal and installation of the assemblies and recommissioning of the machine were carried out by the customer's maintenance staff.

The result:

Proven higher machine availability!

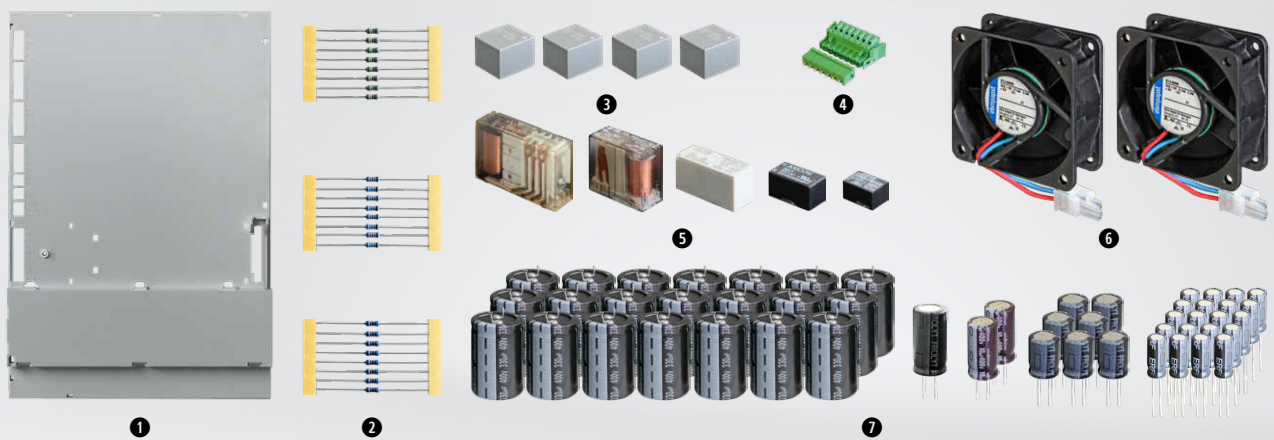
Product overhaul repair package for a SIMODRIVE E/R module

The entire control and drive electronics of your machine can be handled with our Ecofit product overhaul service for both repair

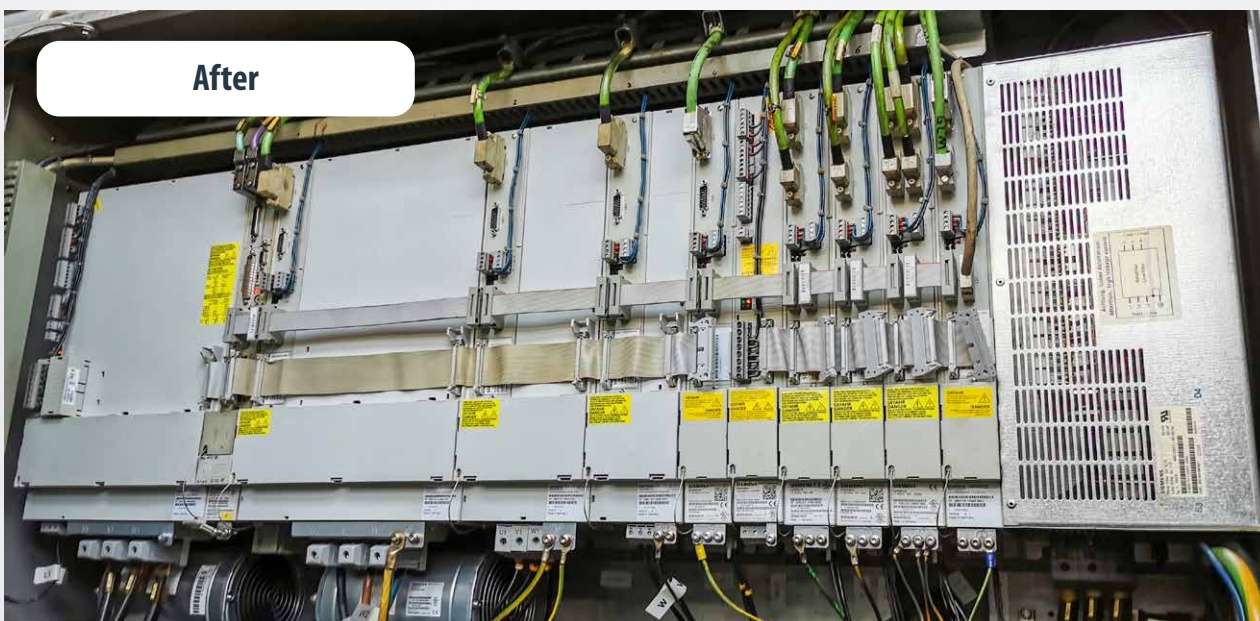
and replacement. And with guaranteed BVS quality!



We use predefined overhaul packages for all repairs, such as the Siemens SIMODRIVE E/R module 6SN1145 shown here as an example.



**Convince yourself of our completed customer projects -
pictures say more than 1,000 words**



**Keep your machines in the race and plan your
next **ECOFIT pit stop** with us!**