

PRODUCT INFORMATION

RC5-16: THE SCALABLE SOFTWARE SOLUTION THAT LOOKS TO THE FUTURE

As an integral part of the Europlacer software solutions ecosystem, ii-RC supports you at every stage of your SMT assembly process. ii-RC is not only the interface that allows you to interact with your placement machines, it's the heart of functionality on dedicated workstations: to ensure the preparation of your feeders, to manage your component stock, to generate your placement programs and optimize them, or even to undertake the recognition process to learn your electronic components. And much more!

Every workstation and machine using ii-RC software communicates seamlessly to deliver an interconnected environment and expedite procedures while eliminating unnecessary data manipulation. Thanks to our policy of backwards compatibility, you can benefit from the latest versions of ii-RC software and enjoy its advantages even on your oldest Europlacer machines.



In its latest version, RC5-16 software incorporates new features that revolutionize the way you work. Here are a few examples:

- ii-RC has a new look and feel, with a more ergonomic interface and a much-improved user experience, particularly through touch-screen management.
- As standard, it integrates the management of Gerber layers during the definition of your programs. Thanks to this functionality, it frees you from using valuable machine resources, allowing you to prepare your future production entirely off-line.
- Data logging to give total traceability of modifications to your parameters and to machine libraries. It provides maximum control over your quality standards.
- Verification and calculation tools that eliminate any human or component stock assessment errors.
- Multi-line optimization that will allow you to switch a production program from one line to another without having to worry about re-optimizing.
- A wizard to create electrical test procedures for your components. The definition of stringent electrical test procedures is usually reserved for expert teams. Europlacer offers a solution that makes it possible for anyone to carry them out.

The objectives at the heart of our developments and solutions are always to guarantee you:



An increase in productivity

Europlacer solutions are focused on optimizing your productivity.

A fast return on investment

Eliminates production downtime; optimizes resource management.

Optimal quality control

Improves the quality control of your production process; eliminates human errors.

More functionality & adaptability for your production

Secures and simplifies your production. Offers you more support and service functionality.

Customers who have already purchased our latest software version can now take advantage of major new features for free. If you are still hesitant, take a look at the benefits of these exciting new solutions.



Productivity-oriented innovations with:

Advanced optimization:

While an optimized machine loading plan allows for the best possible application rate in principle, with small batches or complex products it can transpire that the feeder preparation time/rate gain ratio is not satisfactory. In these circumstances, the expected productivity benefit is not realized. It is essential for the user to know if implementing the optimization procedure is justified, based on the complexity of the board and the volumes to be produced. Depending on the relevance of the choice made by the user, the direct impact on productivity will be major. But how do you know before you have tried it? Europlacer's answer in RC5-16 is advanced optimization, which

removes the need to make that choice. Instead, the software calculates the ideal compromise between line speed, placement rates and loading time to make sure your productivity is optimized whatever the situation.

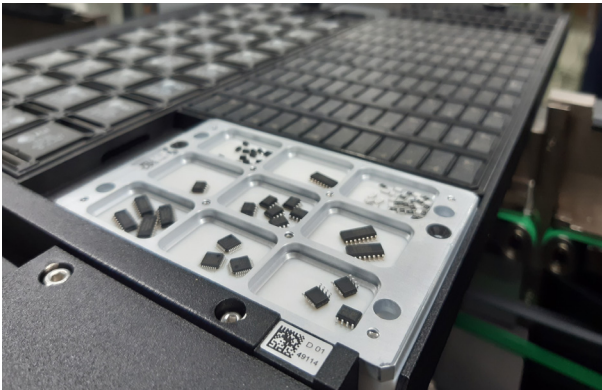


Management of duplicate missing items:

Europlacer placement machines alert you before an incident or if the incident occurs due to a lack of components. But a missing duplicated component, if it does not generate a machine incident and does not prevent placement from continuing, will have significant consequences on your placement rate. From now on, the RC software also alerts you when productivity conditions are not optimal.



Solutions to free up your machine resources and minimize operator interventions:



Virtual feeders:

What are they? It is a new method of managing components when they are presented in a tray or in a more unusual way. Though this new management method is called 'virtual', the benefits are very real! It is the RC software that ensures the programming of these feeders and their management thanks to barcode identification. It means you can prepare your inventory entirely offline, which frees up your machine resources. The constraint imposed on matrix trays with a maximum of 66 items has been removed. It now has 140 slots. This management concept also opens up new development opportunities in terms of types of feeders to cover all the specific needs of our

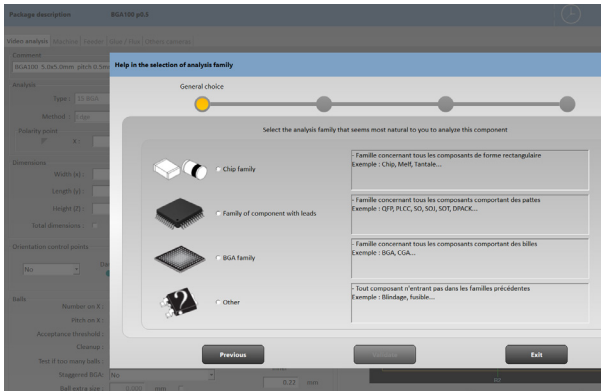
customers. For example, this is the case with the FreeForm feeder, which allows you to use 'unpackaged' components by placing them randomly in a compartment.

Import / Export tray:

Do you often use components packaged in trays? Is the time spent to load and program them important to you? Based on the principle of virtual feeders, a mechanical description file of the layout of your trays can be created. If you are able to guarantee the repeatability of the layout of your trays, with the help of a tool for example, you can import it directly to your machine. It frees you up from programming interventions and means you are ready to manufacture immediately by dedicating your machine resources to production rather than to its preparation.



Additional service and support tools:



Import / Export Packages:

Is your company multi-site? Do you want to transfer your device package algorithms easily from one site to another? Or is it challenging to learn very unusual or exotic components such that you need assistance? ii-RC now lets you import and export your packages to streamline your operations, whether you transfer them from one site to another, or automatically import a package that is pre-defined for you.

Automatic image context creation:

What are the best vision parameters for creating the algorithm for a model or device package? Do you ever need assistance in a very specific case? ii-RC automates the generation of several images of your components to help you define your models and make sure you have the best possible parameters. When you encounter difficulties in realizing a model, you can send us the file that's generated by this tool, which gives us all the elements we need to deliver you a quick solution.

Assistance in the creation of a new package:

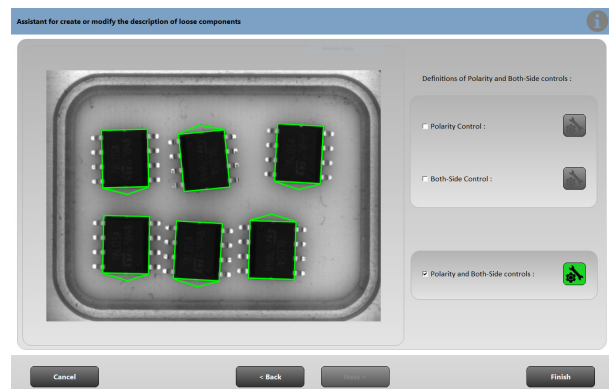
ii-RC is always alongside you in learning your components. From now on, a wizard lets you make the best choices in terms of parameters and component category. Package training is no longer the preserve of expert operators; your newest team members will also benefit from this support.



Reaching a higher level of quality control and organization:

Pre-picking check:

Designed as a counterpart to the electrical tester when that is not practical, it will allow you to confirm the orientation and loading of the correct item by comparing the top of the component with a model. It therefore eliminates all risks associated with handling errors, increases your quality control and validates your first board more quickly. You can choose to test all your components, or the first N of them. Do you manually replenish your Jedec boards? Now you can automatically control the orientation of one or all of your components by scanning your matrix tray at the touch of a button. The pre-pick check makes sure that you meet your quality requirements in full.



Management of the matrix tray angle:

Electronic components packaged in trays are becoming smaller and smaller, and are sometimes packaged in Fluoroware/ CSP trays. As the location accuracy of the matrix trays is essential, the angle of the trays must be managed to achieve precise picking. This is now resolved with the ii-RC software: the position of the tray on its mount is more accurate and will never impact the reliability of picking your components.

Management of equivalent components by program:

In common with the rest of the industry, you need to manage your alternative and equivalent components. But sometimes an equivalent item is simply not valid for a specific program. This is not a problem as you now have the ability to manage your equivalent components by production program.



Communication solutions expressly oriented towards industry 4.0:

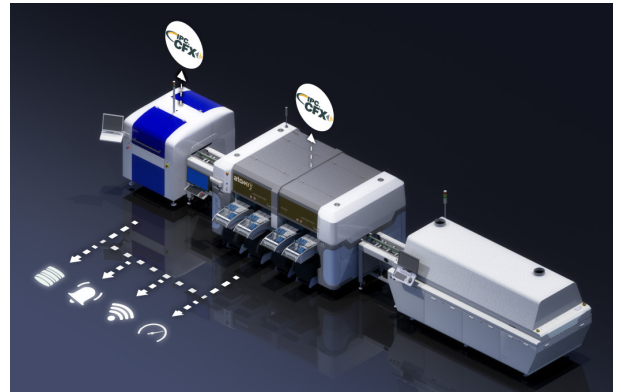
Manufacturing order management:

Manage your manufacturing orders with ii-RC software. A dedicated communication channel will allow you to communicate with third party software (ERP, MES, ...). Therefore, you will be able to import your job orders directly from your business management software.

Multi-channel stock management:

Tomorrow's industry is ultra-connected. The data flows between many different systems and production equipment. Europlacer has long been able to exchange component stock data with an external entity (your ERP, storage tower, MES, ...).

Each of these systems has specific needs and you should not have to choose which one you wish to deploy to communicate this data. The stock management option is evolving and now allows you to specify the number of entities with which you want to integrate it, as well as options to manage the integrations individually. A dedicated communication channel is then defined, allowing you to easily exchange your data between all your tools without compromise.



CFX:

The factory of the future is only possible if it is connected. But how can you convey data that is valuable to your organization? Can your ERP or MES retrieve information on component consumption, traceability and performance? The answer has long been "yes" at Europlacer, thanks to communications that use a proprietary format. Where partner products are not involved, the implementation of this connectivity often uses third-party software, which can be costly and time-consuming.

One solution is to standardize communication channels, and that's what the IPC-CFX standard is all about. It sets the standard for data communication across the industry and has been widely adopted.

The IPC-CFX standard guarantees fast and transparent integration of production systems and equipment. Europlacer's protocols are now fully compatible with this IPC standard, which is resolutely industry 4.0 oriented. Our machines export production data in real time. Our latest products, such as ii-Tab for example – a smart mobility solution – are partly based on this standard in order to collect this data and use it to its full advantage.

In addition to compatibility with the standard, Europlacer is a member of a select committee that participates in the evolution of the standard and is a driving force behind its development.



As part of our policy of continuous development, specifications are subject to change without prior notice.