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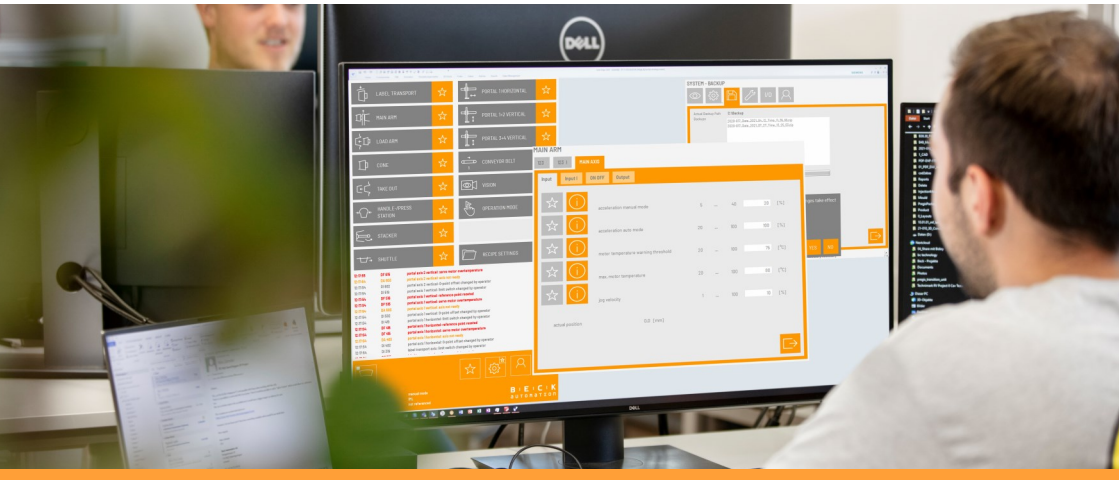
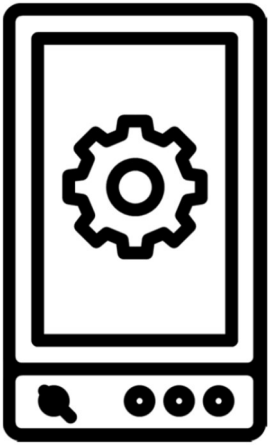


Software Solutions:

DYNAMIC ENTRY

Dynamic entry is a software option which helps to improve the total cycle time. Due to the additional control of the mould-position the IML process can be started earlier, which decreases the overall cycle time.



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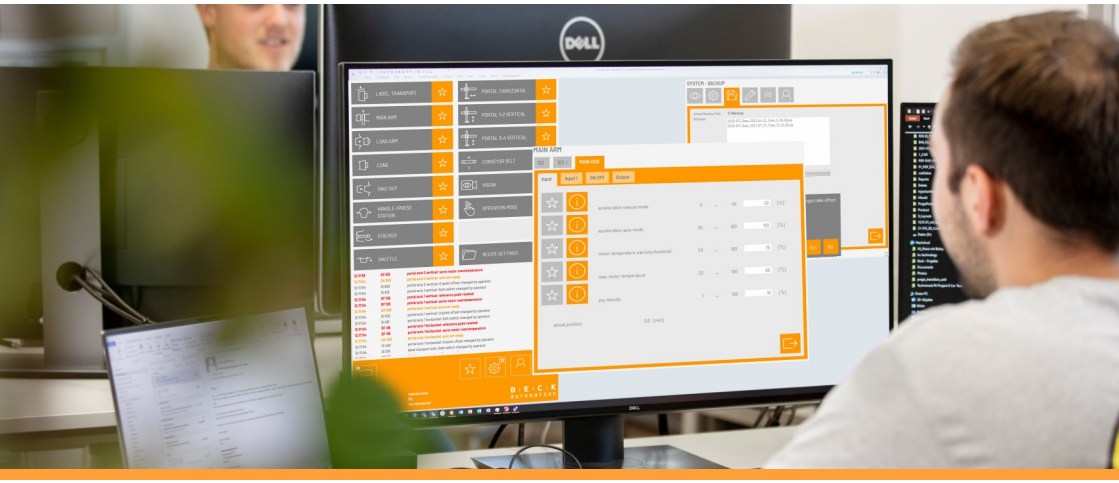
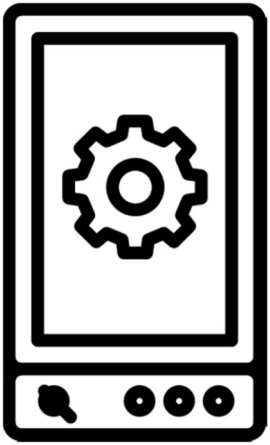


Software Solutions:

MOLD DELAY

The Mold Delay software solution reduces the amount of products produced without label during the magazine refill process. The software modification delays the mold closing and thereby produces fewer products without a label. Lower scrap rate and reduction of injection molding material is the result of it.



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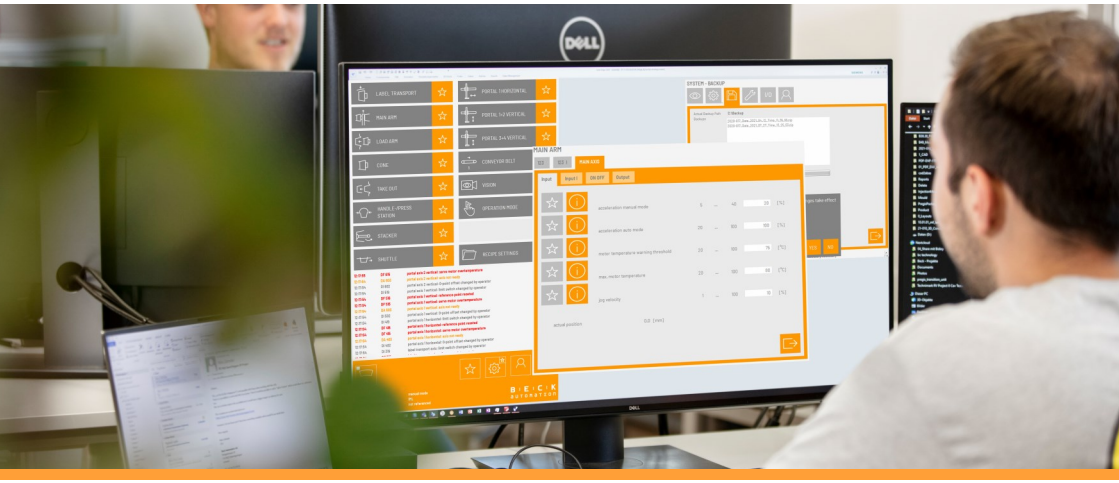
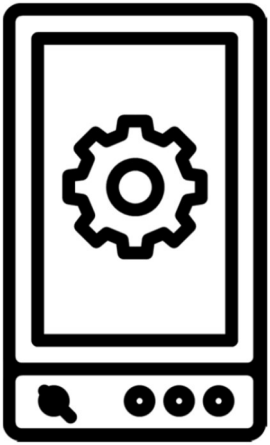


Software Solutions:

HMI UPDATE BASIC

This update enables the addition of user management where users can be authorized to access certain parameters to be able to perform their job. Different users can have different authorization levels.

There is also the addition of favorite lists, where short cuts can be created for quick access without the need to click through the complete menu structure



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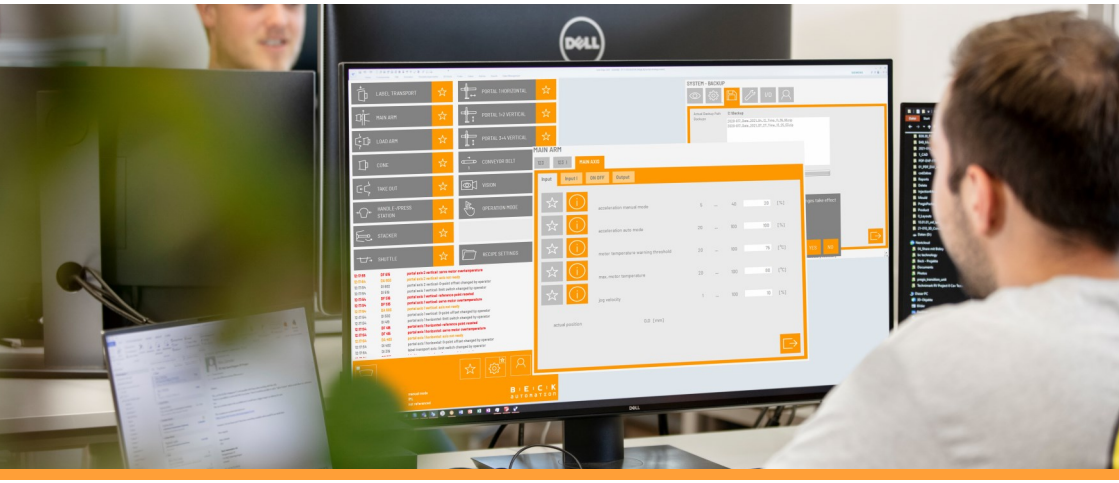
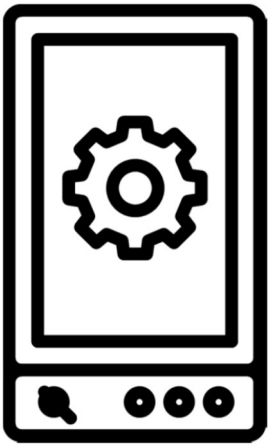


Software Solutions:

HMI UPDATE MAINTENANCE

The HMI Update Maintenance includes the HMI Update Basic with user management and favorite lists.

In addition, this update displays on the HMI when the specific maintenance is required. Regular On-Time maintenance increases the durability and lifetime of your system and avoids unnecessary and expensive machine downtime.



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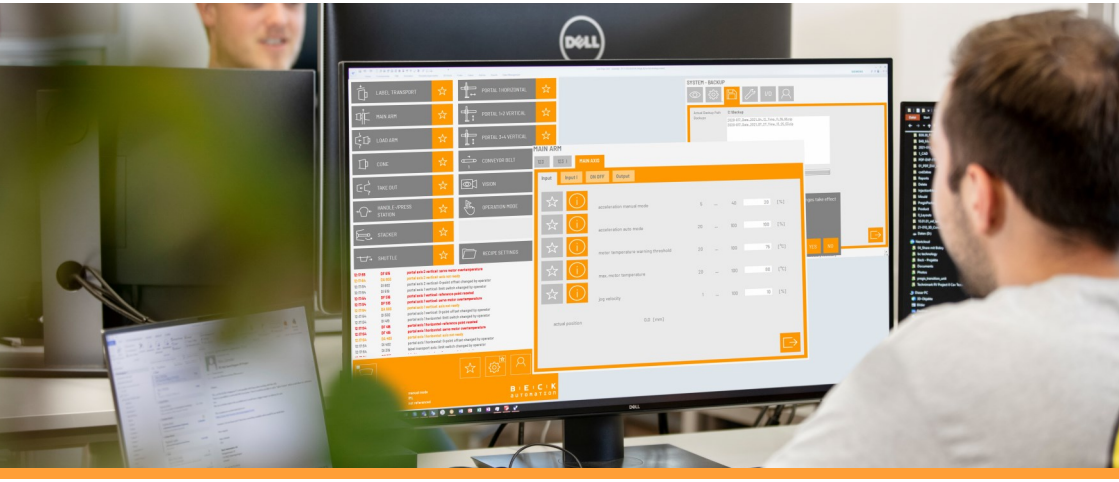
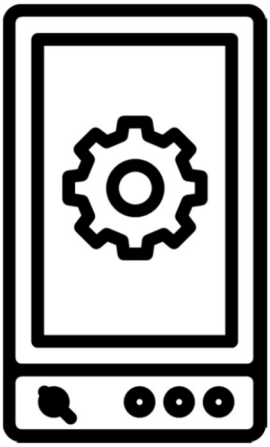


Software Solutions:

HMI UPDATE ANALYSIS

The HMI Update Analysis includes the HMI Update Basic with user management and favorite lists.

In addition, this update contains an EtherCat error analysis tool to allow users to very quickly see EtherCat errors and visualizations of the system I/O.



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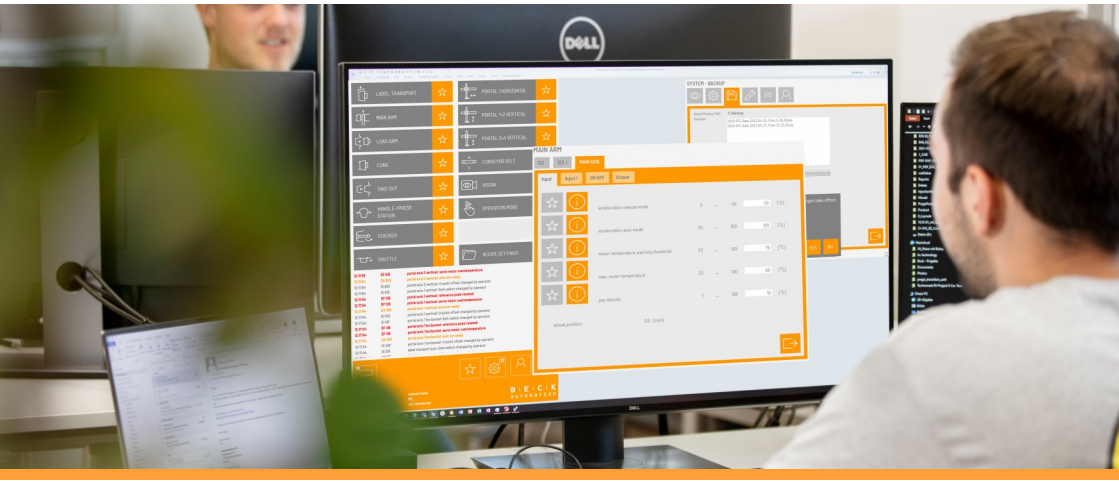
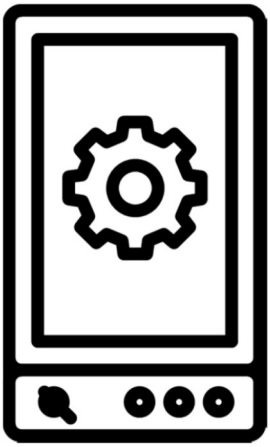


Software Solutions:

HMI UPDATE MAX

The HMI Update Max includes the complete range of HMI Updates: HMI Update Basic with user management and favorite lists, HMI Update Maintenance with specific maintenance needs and HMI Update Analysis with EtherCat error analysis and visualizations of the system I/O.



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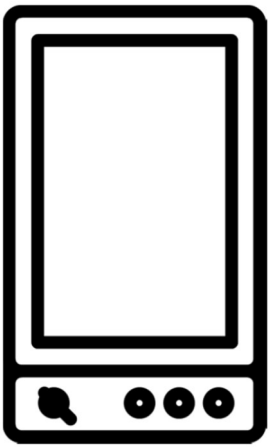
New HMI generation:

The new HMI generation replaces the old touch screen panels with the next generation of robust and high quality panels. Thanks to its new PoE Technology (Power over Ethernet), the new HMI is much more robust against electromagnetic interference and vibrations.

It's futureproof technology assures a long term availability.



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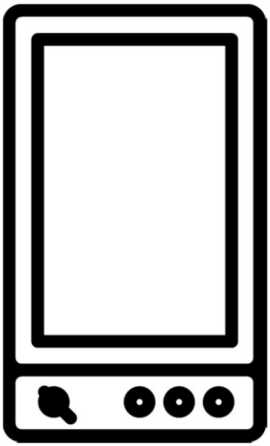
ePalm replacement:

The original ePalm HMI is obsolete and no longer available or even repairable. The ePalm substitution from Beck Automation allows the safe use of old Beck SAIA IML systems, produced between 2001 and 2011.



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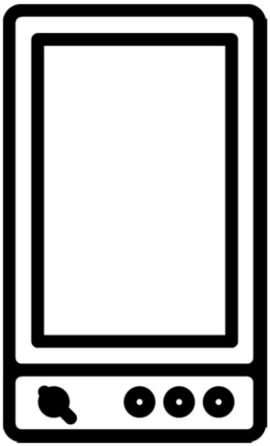
Tablet PC:

Support your operator by integrating the tablet PC as an additional operating tool. The tablet is particularly helpful in large, complex systems. During the adjustment of the parameters, a direct view of the units to be set is possible. With shorter distances to the HMI, your intervention time will be faster, especially in big systems.

This package includes the newest HMI update Basic. Boost your system and add an update beyond Basic, further information can be found at HMI retrofit updates.



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AE120 Gearbox substitution main axis:

This retrofit contains the modern gear generation AE120 combined with a solid external bearing. This option is available for all welded main axis serial no. 1998 – 2015. This retrofit allows older systems to run with the future proof and highly available newest generation gearbox, currently in use in new Beck systems. No cost intensive breakdowns due to non-availability on key-parts on key axis.

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Modern mandrel technology:

Our state of the art mandrels combine the best of everything: The optimized weight meets the dynamics of your main arm, reduces stress on various components and thereby increases the overall lifetime. Depending on the core type, a cycle optimization by sequence change is possible. Our 3D printed mandrels need less maintenance than the old mat mandrels and can make the use of brush stations unnecessary.

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Vacuum monitoring on vacuum tank:

This retrofit replaces the analog gauge with a digital solution. The vacuum sensor value will be monitored by the software, allowing the system to start only at the set pressure. The start-up procedure is far more stable and safe and operating errors during start up can be avoided. Less scrap material and higher efficiency is the result.

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Additional vacuum sensor for take out:

Switching from IML mode to take-out mode, backwards and forwards, can lead to handling trouble. The vacuum sensor needs to be adjusted accordingly. Support your operator and avoid failure or even downtime by adding a second vacuum sensor: one sensor will be used by the software exclusively for IML mode, the other one will be used exclusively for take-out mode.

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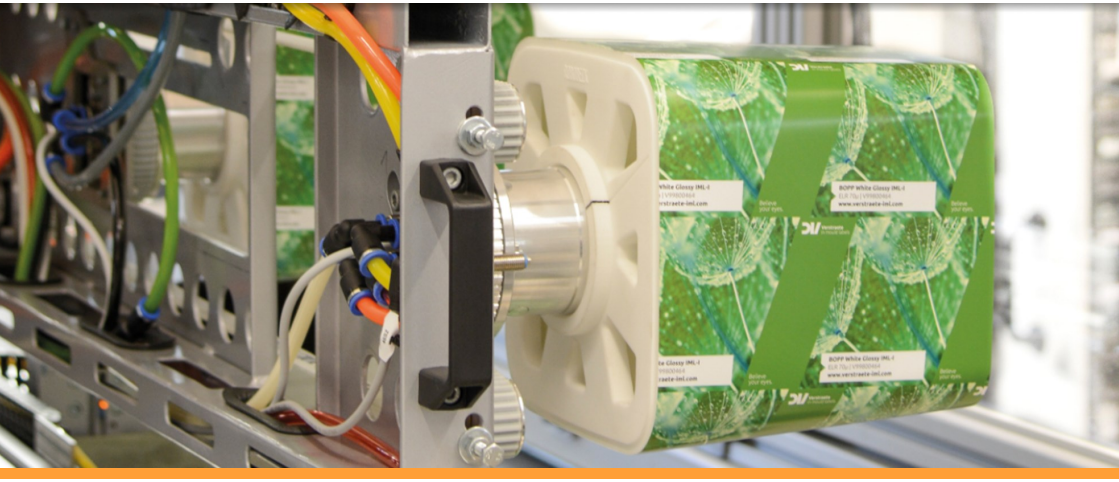


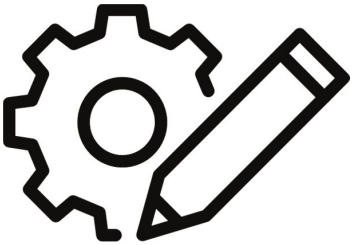
Vision System:

Having an automated quality control does not only increase the quality of your products leaving the facility. Its full statistical overview allows the system to detect decreasing production quality and allows the operator to take action before large amounts of scrap are produced.

Beck IML Robots, already in production, could be upgraded to a Vision System, replacing the manually performed random sample checks and allow a control of 100% of the produced products.

The Vision System of our Partner Intravis are intuitive to operate and allow different variations of labels by simply teaching a new design. Depending on the demands, different detection features can be implemented.

Add the next level of quality control with the Beck Vision System



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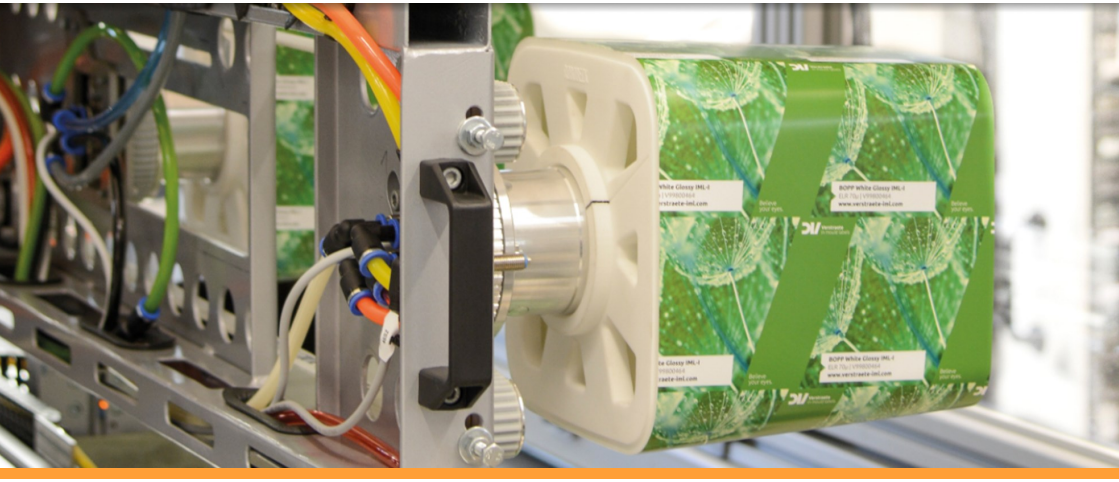
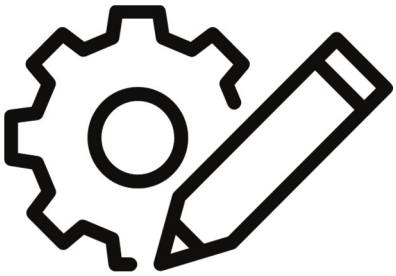


De-ionize rods

The de-ionize rods provide a static discharge for labels and products. This ensures protection from the side effects of electromagnetic influence, often seen as floating products, especially with stacked products. The use of de-ionize rods grants a stable and repeatable process.



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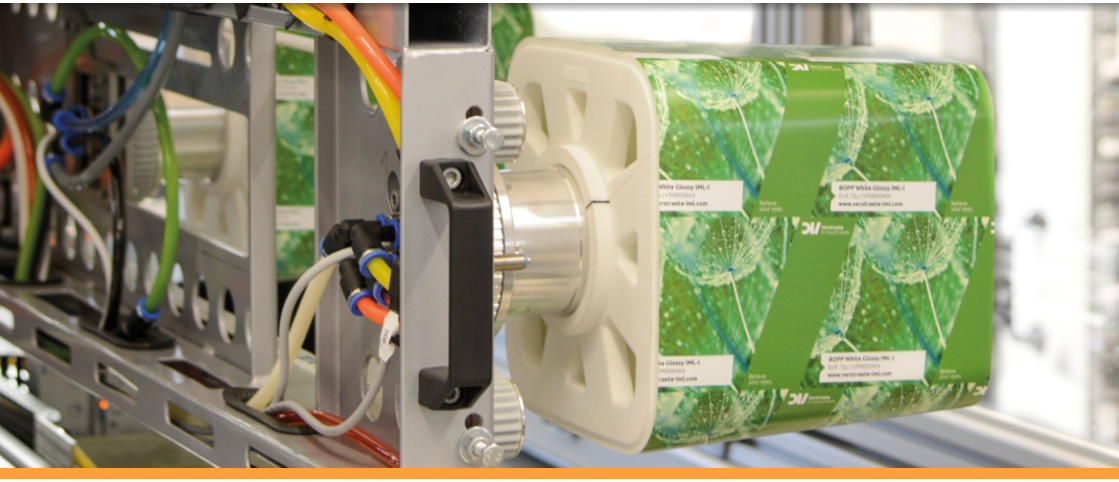
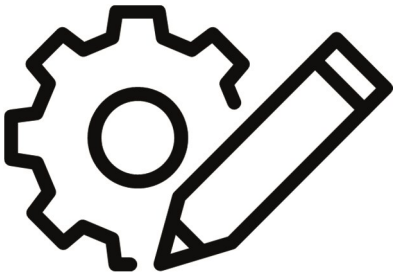


Static station for metallic IML:

IML production with labels that have a high metal content can be a challenge. Adding an external static station will bring back the reliability of the process. It provides the advantage of individual, adjustable static charging at the most optimal position.

Each system will be checked in advance regarding the available space. We recommend testing the labels to determine the optimal static charge.



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