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INSPIRING PEOPLE
GREAT SOLUTIONS

Date Buchen, Germany, 4 July 2023

+++ Easy integration of WEISS components and subsystems +++

When automation components can be combined with each other, this reduces the engineering effort, significantly shortens project runtimes, and the start of production can take place sooner. Not only can WEISS products be combined, they can also be easily integrated in the overall system as functional subsystems.

There are quite a few aspects to keep in mind when automating assembly processes. The efficient implementation of each step must be defined, and the right components must be combined to make a fully functioning system. To achieve this, WEISS offers an extensive portfolio of automation components, assemblies, and subsystems. Because WEISS solutions can be combined and integrated, equipment engineers and system integrators can focus better on the actual processes, quality, and interface issues. The selection of components is no longer a limiting factor.

Linear Transfer Systems as the basis

Linear Transfer Systems from the LS Series are used as the basis for such subsystems. They are designed to achieve linear, continuous assembly processes in a tight space. At the same time, the LS Linear Transfer Systems are the perfect platform for other WEISS components such as HP Pick & Place Modules, Delta Robots, Rotary Indexing Tables, or Linear Axes. WEISS works in close coordination with system integrators, machine builders and users when engineering these functional subsystem solutions. Because use cases differ from one customer to the next and from one end product to the next, a major part of the gained efficiency lies in the design of the Linear Transfer Systems as a platform and the appropriate combinations of the relevant standard components. WEISS solutions are mechanically matched to one another from the start. At the software level, the W.A.S. Control Packages ensure that components can communicate with each other and be integrated at any time. The packages are compatible with one another and, because of different interfaces, with the higher-level PLC too.

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Simulation models as decision-making tools

More and more often, digital tools and simulation models for virtual commissioning provide the needed support when selecting the right components. Starting as early as the planning phase of the assembly line, each individual product and subsystem can be compared with one another and optimized. This prevents potential errors, efficiency losses and overengineering, which also saves time and money and gives system integrators and end customers decisive benefits. While WEISS successively digitalizes its component portfolio, the automation experts are now also continuing this step with their control systems. By providing additional digital assets such as EPLAN macros, AML description files and 4D models, WEISS gives machine builders and system integrators the support they need. From control cabinet design to training and production optimization – digital product add-ons offer added value even before the start of production.

Full application scenarios at a glance

One advantage for system integrators and end customers is the holistic view that WEISS enables. If high forces are needed for press-fit or screwing processes, they must be implemented by the handling system and tolerated by the underlying platform. The combination of the Gantry and the LS Hybrid meets these requirements. Gantries from WEISS bring themselves into position with high precision and reliability. The workpiece carriers from the LS Hybrid Series accommodate very high process forces of up to 1000 N without support. Due to the straightforward synchronization of the WEISS DR Delta Robots with the LS Series, conveyor tracking is an easy process to handle. The Delta Robot simply performs its task, while the conveyor section of the LS Hybrid continues to run without interruption. The response times are roughly two milliseconds, so the response to changes is virtually instantaneous.

In the electrical industry, life sciences, medical technology, or consumer goods the work often involves assembling small parts. As a result, the assembly line should have the smallest possible footprint. This is another area where the Linear Transfer System variants from WEISS are impressive, as they are designed to be extremely compact from the very start. The HP Pick & Place Modules are an ideal add-on for handling small parts. The HP 70 module is only 60 millimeters wide. Its compact design means that multiple operations can be carried out in parallel at a single processing station, which significantly increases the output.

A well-balanced line concept requires reliable automation components that can be combined. The WEISS portfolio offers machine builders and system integrators compatible components that are easy to integrate. Reliable, high-performance overall solutions are developed in partnership with WEISS experts.

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Image Captions

- Fully functional subsystems using WEISS Linear Transfer Systems as a platform enable system integrators to speed up the project planning stage. Integrating them into the higher-level system and completing them with additional actuators is quick and easy. (WEISS-Subsystem-LS)
- When system operators or system integrators can rely on a combination of several WEISS components, they can design their systems specifically for defined processes without much effort. (WEISS-Subsystem-Detail)

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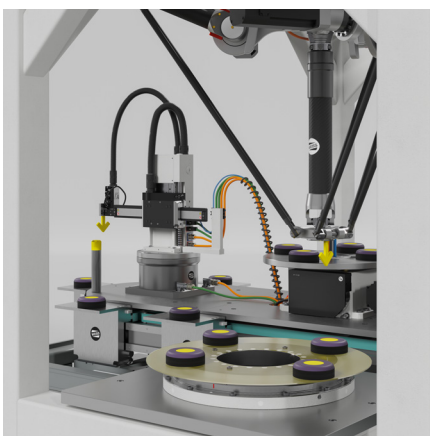
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About WEISS

With its automation solutions, WEISS GmbH is one of the world's leading system suppliers in the automotive industry, machine and plant manufacturing, life science, and electronics. The reliable and durable rotary indexing tables, handling units, delta robots, and linear transfer systems are making the industrial production of tomorrow a reality. With its expertise in mechanical, mechatronic, and digital solutions, WEISS paves the way for industrial transformation. By applying their engineering expertise, knowledge of industries and processes, and high affinity for serving customers, the experts assist system integrators and producers in designing and operating innovative and sustainable production plants. The family-owned company with headquarters in the city of Buchen in Germany's Rhine-Neckar metropolitan area, operates on a global scale. Founded in 1967, WEISS now has a staff of around 700 employees in its sales, service, and manufacturing locations in 49 countries.

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