**New components for fitting out cleanrooms**

 **Creating clean production environments quickly and easily**

**Cleanrooms are essential for many areas of production in a whole host of industries. Whether in semiconductor production, medical research or the aerospace sector, it’s vital to keep the concentration of particles to a minimum to prevent any contamination of products. item Industrietechnik GmbH now offers many different components in its Building Kit System that enable customers to design and build customised solutions for clean production environments.**

New Fixing System X 8 and new Filter Fan Unit (FFU) 1200 x 600 from item make it possible to build customised cleanroom solutions with ease. item, the industrial application pioneer, has expanded its Building Kit System so it can offer customers all the support and flexibility they need for fitting out cleanrooms. Customers can use the [new components](https://www.item24.com/en-de/clean-production/) to configure both work bench systems and process enclosures in line with their requirements. The products are compatible with Line X and Line XMS aluminium profiles.

**Flush-fitting panels thanks to new Fixing System**

[Fixing System X 8](https://www.item24.com/en-de/clean-production/panel-fixing/) provides the basis for forming the walls and ceilings of cleanroom systems. Panels that are between 4 and 5 mm thick, Compound Material that is 36 mm thick and Perforated Sheet with a thickness of 3 mm can therefore be safely and securely fixed in place without having to use any tools. The Fixing Systems are secured in place directly in the Line 8 system groove of profiles. The result is a variety of wall constructions with flush, easy-to-clean transitions. Customers can choose whether they want a single skin or double skin system, or opt instead for a sandwich design using Compound Material HPL. Moreover, stainless steel Perforated Sheet can be used to create ventilation grilles or table tops for laminar flow environments. The new Fixing System can also be used to design ceilings. Its high holding force means it can be used to hold an FFU in place, for example.

**Ready-to-connect FFU**

Thanks to the [new FFU](https://www.item24.com/en-de/clean-production/filter-technology/), cleanroom work benches and enclosures can be created with ease. The FFU is fixed to the ceiling above the work bench or to a frame using the new Fixing System. The FFU produces a low-turbulence airflow and, with its integrated Pre-Filter M5 and HEPA Filter H14, removes 99.995 percent of all particles from the ambient air. Commissioning takes place via plug and play, with FFU StarterKit 230 V and FlowBox InstallationKit 230 V ensuring the FFU can be connected quickly. The StarterKit includes all the necessary cables and a control unit with a potentiometer for regulating the airflow. Customers who want to operate FFUs, lights or table columns centrally can opt for the FlowBox InstallationKit.

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**Caption 1:** New Fixing System X 8 from item provides the basis for forming the walls and ceilings of cleanroom systems.

**Caption 2:** Thanks to the new FFU, cleanroom work benches and machine enclosures can be created with ease.

**Caption 3:** The new components from the item Building Kit System can be used to build customised solutions for clean production environments, such as laminar flow boxes or complete machine enclosures.

**About item**

item Industrietechnik GmbH is the pioneer in building kit systems for industrial applications and a partner of the manufacturing industry across the entire globe. Today, the item product portfolio comprises more than 4000 high-quality components designed for use in machine bases, work benches, automation solutions and lean production applications. The company has received a string of awards for products with ground-breaking industrial design and end-to-end ergonomics.

item is spearheading digital engineering by driving forward the digitalisation of processes with software tools developed in-house. The item Academy offers training at various levels, with on-demand training and online courses available in multiple languages.

Headquartered in Solingen, Germany, item has subsidiaries in various countries. Some 900 employees worldwide harness their know-how and passion to develop innovative solutions and services. Twelve sites make sure the company is always close to customers in Germany, with a global logistics chain ensuring swift delivery times for all components.

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