**item at Cleanzone 2022**

**The building kit system for clean production**

**From 23 to 24 November, item will be at Cleanzone in Frankfurt to show how clean process environments can be built quickly, reliably and on a modular basis. The Solingen-based company has added a large number of components to its Building Kit System so users can build cleanrooms that meet their specific needs. Whether a machine enclosure or a work bench system, the ideal bespoke solution can be created with ease.**

The exact design and construction of a cleanroom differs from one industry to another and for different products, too. Standardised systems and ready-made solutions often fall short when they need to be supplied in a range of dimensions and have to be ergonomic and offer comprehensive ESD safety, too. Systems with screw fixings, a modular approach and flexibility for subsequent modifications offer clear advantages. As the pioneer in building kit systems for industrial applications, item will be at Cleanzone to showcase numerous practical solutions for installation in cleanrooms.

**Work benches for clean production**

item uses its classic Work Bench System for manual production as a basis so users can quickly adapt solutions for cleanroom applications. A cleanroom work bench consists of an ESD table top of choice, a certified height-adjustable frame, storage areas and lights. Opting for closed grooves and laying cables through the profiles themselves helps to produce a work bench with smooth surfaces that are easy to clean. The work bench can also be extended with additional components from the building kit system. The new Filter Fan Unit (FFU) can be used to build laminar flow boxes that provide a localised cleanroom and can be put into service in next to no time. Laminar flow boxes can also be built in a range of sizes and configurations. item is exhibiting an example solution at the fair that features an FFU and corresponding lighting, with the FFU fitted out with an M5 pre-filter and H14 HEPA filter. The base frame for the laminar flow box is made from height-adjustable table columns. In this configuration, the laminar flow box satisfies ISO class 5. It can be ordered directly from the item Online Shop.

**Enclosure for sensitive processes in the cleanroom**

Machine enclosures based on Line X and Line XMS profiles from item are an ideal option for making entire production areas cleanroom compatible. Even just the basic features of these classic profiles – their smooth, unbroken surfaces, minimum edge radii and integral cable guidance – offer an impressive starting point. For cleanroom applications, the machine cabins can be fitted out with the new Fixing System and one or more top-mounted FFUs, as required. Filtered air flows into the process section first and then passes through perforated metal sheet into the lower section of the enclosure. From there, the air is routed back to the upper section via a double wall. This exhibit demonstrates an automated process and satisfies ISO class 2 in the configuration presented.

Visitors to the fair are warmly invited to come along to Stand C51 in Hall 1.2 and check out a wide range of impressive application options for cleanrooms.

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**Caption 1:** itemis showcasing numerous example solutions for cleanroom installations at Cleanzone. For instance, the latest components to be added to the item Building Kit System can be used to build laminar flow boxes to custom requirements.

**Caption 2:** Line X and Line XMS profiles can be combined with the new components to create machine enclosures that provide a suitable cleanroom environment for sensitive processes.

**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 4,000 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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