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elumatec at FENSTERBAU FRONTALE 2016: The next level of flexibility and automation in profile machining

elumatec, the world market leader in the manufacturing of machines for processing aluminium, PVC and steel profiles, is presenting its newest generation of products at stand 514 in hall 3A. elumatec customers will be able to reach the next level of flexibility and automation in profile machining and increase their efficiency.

- **World premiere SBZ 122/74: powerful 4-axis profile machining centre for metal construction companies and industrial processing companies**
- **Pass-through centre SBZ 628: all-rounder with rotation module for efficient and flexible non-stop profile machining**
- **SBZ 616 and SBZ 617: versatile duo for increased productivity in PVC series production and special applications**
- **eluCad on YouTube: tutorials will show you smart tips and tricks to make programming machining tasks easier**

elumatec is introducing the two profile machining centres SBZ 122/71 and SBZ 122/74 from the new SBZ 122 family of models for profile machining applications which require 3 or 4-axis centres. The SBZ 122 series is one of elumatec AG's most successful products with an installed base of more than 1000 units. Thanks to a complete redesign, the machine now has a modular structure and can be adapted to suit various different requirements. "The new SBZ 122 family of models embodies the elumatec philosophy perfectly: Tailoring our solutions to meet the requirements of our users all over the world as closely as possible, so we can maximize the benefits for our customers," explains Ralf Haspel, Head of Sales and Marketing at elumatec. The SBZ 122/71 is tailored to meet the needs of metal construction companies. The SBZ 122/74, with its 4-axis machining head and more stable clamps on linear guides, is ideal for metal construction and industrial customers.

SBZ 122: a modular model series that is setting new standards

The SBZ 122 series offers features that set new standards in the entry-level automatic profile machining segment. Components such as intelligent control systems, regulated spindles, a modern inclined bed and powerful servo motors save operating costs and improve the machining results – all with the smallest possible footprint. Thanks to its protective enclosure, the machine has a very small footprint, making it ideal for smaller companies with limited space. At the same time, the max. size of the machining area has increased to 300 mm x 300 mm.

The RPM-regulated operation of the spindle provides energy savings of up to 30%. Furthermore, the intelligent control technology ensures an extremely high degree of consistency in speed, which in turn produces very good machining quality, even with quickly changing loading. Another advantage: the lighter routing unit and new drive technology have doubled the axes' rate of travel. As a result, aluminium, PVC and steel profile machining has become faster, more precise and more lucrative.



Profile machining centre SBZ122/71



Profile machining centre SBZ122/74

SBZ 616 and SBZ 617: versatile duo for increased productivity in PVC special applications

Delivering complex jobs on time despite tight delivery schedules? elumatec can show you how it's done with the SBZ 616 and SBZ 617. The two centres automate the machining of PVC profiles from length cutting to notching, drilling, routing and screw placement, right on to welding. The automatic saw SBZ 616 guarantees fast and clean cuts with its powerful saw blade. The downstream centre SBZ 617 rounds out the machining process, including reinforcement steel and screw connections. Both centres are characterized by high flexibility. For example, the SBZ 616 can perform saw cuts at continuously adjustable angles of from -22.5° to $+22.5^\circ$. The nine tools on the SBZ 617's rotation module can be positioned at any angle as needed. In combination with the latest enhancements to the software, this helps customers machine custom and angled elements more effectively, quickly increasing their throughput and leading to on-time deliveries.

SBZ 151: flexible, fast and accurate machining of curtain walls, windows and doors

The 5-axis machining centre SBZ 151 is designed for the efficient machining of aluminium and thin-walled steel profiles. Thanks to its high level of automation and modern control technology, metal construction companies can meet their customers' requirements quickly, accurately and with greater flexibility. The machining length, which ranges from 6 m to 30 m, makes machining extremely long profiles possible as well. All operations, such as routing, drilling, tapping, thread milling, notching and sawing, are performed while the profile bar is stationary, offering the best-possible protection for the profile surfaces. With the optional angle head, profiles can also be machined from below, saving time and enabling the profile to be machined from all six sides in a single clamping operation. The on-board tool magazine keeps the tool changing times short. The robust, low-wear direct drives add an additional speed boost, accelerating the positioning of the machining assembly. Two separate work zones allow the machine to be used in shuttle operation mode.



Profile machining centre SBZ 151

SBZ 628: flexible all-rounder with optimal results

Visitors can learn about the pass-through centre SBZ 628 on a video wall. The new success from elumatec, which will soon be available in various different configuration levels, has already sold more than 30 units in the twelve months since its world premiere. The SBZ 628 is an exceptionally flexible all-rounder that covers a broad range of configurations with no setup changes or cost-intensive intermediate steps. The rotation module is the machine's centrepiece. By rotating about an entire profile, it machines them effortlessly from all sides before the 4-axis saw unit with 360 degree pivoting subsequently finishes up with length cutting or adds notches to the profile. Together, the patent-pending moving clamp and the combination clamp system enable both stationary and on-the-fly machining. The combination of the clamping mechanism, which secures even complex profile geometries reliably, the up to eight tools that can be positioned as desired and the fast drives streamlines the machining cycles and ensures optimal results.

“FENSTERBAU FRONTALE is one of the leading trade fairs in our industry. It offers the opportunity to establish new contacts and deepen the relationships we have with our existing customers,” says elumatec board member Ralf Haspel. “We invite visitors to come and experience first hand the advantages of elumatec products, whether used individually or in combination, as well as our close cooperation with our partners, such as Stürtz Maschinenbau GmbH or our subsidiary elusoft.”

eluCad: simple and smart programming of machining tasks

Through live demos and presentations, specialists from our subsidiary elusoft will demonstrate how to use the eluCad software to quickly and intuitively create programs for profile machining on elumatec machines. The “3D Import” module recognizes machining tasks from 3D models and programs them automatically. The large variety of profiles used and the many custom machining operations required mean that there are always special cases the 3D converter doesn’t recognize correctly, e.g. machining operations on cooling ribs on angled surfaces. eluCad 4.0 now offers advanced options for these special cases. Starting now, elusoft will demonstrate new eluCad features like this one in short YouTube® tutorials.

Videos demonstrate 3D model post-processing

elusoft has created an extra YouTube® channel for this purpose. There our users will find a steady stream of new content featuring tutorials, tips and tricks. By subscribing to our YouTube® channel, users will automatically be kept up to date about all our new videos. The videos are available in English and German.

Currently, the elusoft channel features a 12-minute video demonstrating how to do “3D Post-processing in eluCad 4.0”, with several helpful tips. The tutorial covers “Getting started with eluCad”, “Simple examples: rectangular pockets and drilled holes”, “Special cases: angled surfaces and free sides” and “Advanced examples: free forms, notches and saw cuts”. The video demonstrates how to perform post-processing on machining operations. A new view option in eluCad 4.0 makes it even easier for the user to see which machining operations were not recognized. With a few mouse clicks, the user can select the desired edges and surfaces, which eluCad then uses to create corresponding machining operations. The selected edges form the boundary lines of the desired machining operation. eluCad 4.0 shows a menu of suggested machining task types. The items available for selection in this menu depend on which edges and surfaces are selected.

The tutorial also gives tips on the most effective way to perform certain tasks, such as post-processing drilled holes on angled surfaces or saw cuts. For example, creating a saw cut is as easy as defining the sawing surface and the starting and end points, which determines the running direction of the cut.

About elumatec AG

elumatec AG is an international leader in the manufacturing of machines for processing aluminium, PVC and steel profiles. With its extensive product range, the company covers the entire spectrum of applications from small craftsman's businesses to industrial profile processors. Custom-designed and modular machinery concepts provide flexible and individualized industry solutions for all groups of customers. The company, founded in 1928 with headquarters in the Swabian town of Mühlacker in Germany, has subsidiaries and dealers in more than 50 countries and, with over 700 employees worldwide, achieved consolidated sales of more than 120 million euros in 2015.

Pictures and other information about the enterprise are available from the News area of the elumatec AG website at www.elumatec.com.

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