

Produkte & Innovationen

Ligna

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Forestry, Wood and Energy

Forestry, Wood and Energy

Cost-saving silo in bolted steel construction (46)

Nestro, which develops complete solutions for vacuum and filter technology in industry and in the wood and varnish trade, reminds us that a dynamic market calls for flexible solutions. The company says it understands that to mean that its products should be cost-effective and versatile and reports that its systems now come with an even higher level of flexibility in combination with their Steel Sheet Silo. As is pointed out, in contrast to a concrete silo, a steel-sheet silo can be taken apart and moved to a new site. The silo being presented has a bolted hundred-percent steel construction with a self-supporting roof. It can be seen as a long-term investment since it requires no new investment when moved to a new site. The manufacturers add that about 30 percent of the investment for a concrete silo can be saved as a result. According to the specifications listed, it has a diameter of 5.1, 5.8 or 6.3 meters, a height of 7.2 or 9.2 meters, and a total volume ranging from 147 to 287 cubic meters. The useful volume is said to be from 127 to 256 cubic meters. The silos weigh from 6,200 to 9,200 kg. (Photos available)

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High-technology cabin for mobile sawmills (30)

Serra will be featuring a new development for the mobile sawmilling industry in the form of a mobile sawmill with a high-tech hydraulic foldable cabin and a hydraulic foldable frame extension. As a result, the company's Bavaria SL 130i sawmill, which has been developed for logs up to 130 cm diameter and has a cutting length of up to 12 meters, reportedly offers even higher productivity and comfort. From the newly developed, noise-reduced luxury cabin, the saw-miller can operate the mill by using different controls and a joystick. Thanks to its large windshield, the operator is provided with an excellent view of the working area. The equipment is described as exceptional, with air conditioning, an audio system, and a speaker system for communicating with workers outside of the cabin. Moreover, the computerized positioning system with AVS and large display allows the operator to have a full overview of the sawmilling process. To transport the mill, the cabin and the three-meter frame extension on top can be hydraulically folded through a remote control system. Together with the hydraulic support columns, this system facilitates fast movement of the mill from one place to another.

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Horizontal sawmills for stationary industrial use (31)

For traditional vertical sawmills, Serra will be introducing a new development with its Bavaria SL 130i sawmill that has been redeveloped for stationary industrial use. The new SL 130s model is reportedly manufactured according to the cutting length that the customer desires and is stronger and more heavily built in comparison with the mobile version. The manufacturers point to the highly reinforced log lifters, the reinforced toe boards with clamps, and the reinforced log clamp turners. The machine promises high productivity even when used as a complementary system. As is pointed out, a log feeder or board-removing system can be added for higher output. In addition, it can also be combined with an industrial edger or a re-sawing device. The version is also available with a log passage of 160 cm.

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Versatile, fully automated circular sawmill (153)

Strojcad, the woodworking technology suppliers from Slovakia, describe their D9 automated circular sawmill as a versatile machine that creates end products such as radial lumber, carpenter lumber and cut-to-size palette timber from round logs with a maximum diameter of 65 cm and length of 8 m. The machine has a fixed sawing aggregate with a rectangular cutting mechanism that deploys two perpendicular saw blades. As is explained, the moving part of the system is the log carriage, which enables log positioning to be adjusted in two directions. The saw is controlled by one operator, with no other personnel required. It features the automated loading of round logs to the logs carriage from the hydraulic ramp. The newly designed carriage incorporates hydraulic turners and dogs. The sawing is fully automated according to cutting schemes created by an optimization program. The extraction and sorting of the sawn timber and the disposal of waste such as chippings and wood dust is also fully automated. According to the manufacturers, the fast and accurate electronic cutting control and the safe hydraulic log positioning ensure constant high productivity and on-the-job safety. (Photos available)

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Web-based logistics system for the wood sector (134)

Wilwerding Data-Cargo will be presenting a new center-fed, web-based logistics information system called TDISO (Timber Data Interchange System) for the forestry and timber industry. With the software, it is said to be possible to depict all relevant business processes and minimize administrative expenses in the process. As the developers elucidate, users co-operate on a centrally located online database sited in a high-performance data processing center. Nevertheless, individual information is reportedly just as safe as it would be with any financial institute that offers electronic banking since the system implements similar technologies. An intelligent combination of role, authorization and cooperation codes gives users the opportunity to flexibly involve their business partners in the procedures according to the needs of individual cases. As well as displaying all logistics processes, the system permits monetary transactions via a financial accounting interface. The solution has apparently been systematically developed into an all-in-one solution for the industry through the activation of geographical information systems (GIS) and routing software. (Photos available)

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Sawmill Technology

Sawmill Technology

Abrasive belts for optimally sanded surfaces (207)

Sia Abrasives will be introducing a new generation of sanding belts, which are claimed to mark a further milestone in the development of application-optimized abrasive belts. The company's Siapan series in Toptec quality promises superlative sanding results every time. An optimal surface quality is reportedly guaranteed through the combination of controlled coating, effective belt joints, and a dust-free process. As the Swiss manufacturers explain, they utilize a controlled coating process that guarantees optimized grit quantities with superior grit adhesion and uniform grit positioning. The belt joints are individually matched to the application and are said to permit high-quality processing without sanding faults. An anti-static treatment of the belts, based on a special production process, reduces the amount of dust that clings to the workpiece and the machine. The exhibitors also point to the fine results achieved over the whole bandwidth and the long service life. (Photos available)

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Automated solutions for sawmill optimization (177)

Comact in Canada will be showcasing its latest optimization solutions for the lumber industry. The new Grad-Expert solution evaluates geometric and vision data to enable a complete grading solution for all kinds of boards. According to the homepage, laser and optical detection technologies reveal both geometric anomalies such as warp, twist, and crook as well as surface irregularities such as knots, splits, rot and paint. The planer mill grade-optimizing system can reportedly classify up to 220 boards per minute, in both softwood and hardwood, with an accuracy of 98 percent. In addition, the developers will also be highlighting their Edg-Expert optimizer for sawmills, which is described as a true shape and color vision board edger, as well as their Trim-Expert optimizing system for sawmill trimmers. The new TBL3 shape sawing machine with high throughput will also be presented. It features automatic positioning of the cant from start to finish, straight sawing, controlled curve sawing and S-sawing, and a heavy-duty construction. Finally, the OLI-CS3 will be spotlighted. This is billed as an optimized length feeder that offers continuous scanning, skewing, and slewing. (Photos available)

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Automatic control of wood-based panel production (180)

The surface finishing specialists at Imeas plan to highlight their new Full Control System (FCS), which is designed to add more value to wood-based panels. The patented system is claimed to represent a technological milestone for the company's new generation of calibrating and sanding lines. As is explained, this is because it gives operators an optimum method of controlling the entire sanding process from a remote room, from the precise positioning of each working unit to the exchange of data with the production line. In conjunction with the machine technology implemented by the Italian manufacturers, the system is said to provide effective control over the process, enable better surface finishing and reduce production costs through the optimization of the working parameters. The automatic control system for wood-based panel production lines is apparently the result of ten years of continuous development. (Photos available)

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Board feeder that is reliable and easy to install (11)

When it comes to lug loading technology, USNR recommends its patented Quad Cam Board Feeder concept, which is claimed to provide very gentle lumber handling even in high-speed operations. As the manufacturers underline, there is no grab and throw and no complicated controls required to achieve smooth, low-maintenance performance. The board feeder has been designed to easily retrofit both the green end and the dry end of a mill. It is also an integral component in the company's planer mill system. The feeder is billed as manifesting one of the simplest and most effective designs on the market. The solution has reportedly been demonstrated at piece counts in excess of 250 lugs per minute and, even at these speeds, missed lugs are said to be few and far between. As the exhibitors express it, not all boards are perfect, but their patented mechanism feeds them as though they are. Its low-impact handling means less damage to the lumber and less wear and tear on machinery, which results in lower maintenance and higher profits. (Photos available)

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Consistent precision in the sanding process (206)

The Swiss company Sia Abrasives will be explaining how their Siaslide pad system represents an innovation in the delivery of consistent sanding precision. The sanding shoe with the special pad is claimed to make life considerably easier for the user. For instance, the time-consuming fitting of the abrasive is no longer necessary because the permanently installed sanding platen (aluminum beam) remains in the machine even when the pads are being changed. As is explained, the ready-to-use pad is simply pushed into the shoe. This ease of handling speeds up the work process through shorter machine changeover times. An additional benefit is seen in the elimination of expensive maintenance and spare-part costs. A positive side effect is that the pad can be disposed of or recycled on-site. With the system, operators are said to obtain consistent precision in the sanding process with optimal results on the workpiece. The solution is billed as an ideal complement to the high-quality Siapan Toptec belts, which are also supplied by the leading abrasives group. (Photos available)

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Cylindrical milling of small-diameter timber (157)

Wema Probst produces machines and complete systems for small timber processing. The RHM 160-II-H is billed by the German company as a modern, heavy-duty rounding machine for the cylindrical milling of timber with small diameters. The finished diameters range from 50 to 160 mm and the feed speed is given as up to 40 m/min. According to specifications on the homepage, the rod rounding machine can handle raw timber lengths from 1,000 mm onwards. The manufacturers particularly highlight the electronic feed regulator. As is also pointed out, the diameter can be regulated by grid adjustment. The machine is also said to work with difficult wood. (Photos available)

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Sawmill Technology

Hall: 027, Stand D40

Hybrid log line with pattern-specific optimization (13)

The USNR linear log line features its first pattern-specific optimizer called the Integrated Processing Line (IPL). This reportedly allows sawmills to combine the high throughput of pattern processing with the increased recovery of sets optimized for the unique 3D shape of each log. As the exhibitors explain, the IPL allows the basic sawing pattern to stay the same throughout a batch of logs, maintaining a consistent center cant but allowing variations in the widths of profiled sideboards. This also allows sideboards to be symmetrically sacrificed as needed, first the outer pairs and then the inner pairs if necessary, to achieve acceptable finished material. No edging is said to be required. The linear log line features a number of cant turners, profiling modules, and scan zones. The scan data images and resulting optimizer solutions are relayed from station to station successively down the line, thus enabling a single operator to run the entire line from logs to boards. (Photos available)

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Lab instrument for formaldehyde emission values (213)

One of the products that Imal will be highlighting at the fair is described as an innovative laboratory analyzer that performs gas analysis, and therefore registers the amount of formaldehyde released by boards, according to international standards. As the Italian manufacturers report, the system has already been tried and tested in numerous mills. The instrument is said to effectively indicate formaldehyde emission values and can be integrated within the company's complete laboratory testing equipment or can be sold separately with its own software and computer. (Photos available)

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Sawmill Technology

Lathe charger with intelligent feed technology (15)

The computerized Coe Lathe Charger highlighted by USNR chucks the geometrically centered block and rotates it for laser scanning while simultaneously raising and repositioning both ends optimally in order to maximize veneer recovery. It is claimed to be the first machine to use 500,000 radii technology to solve peeler block grade and volume decisions. As the American exhibitors explain, after the block has been perfectly repositioned, a precision pendulum block transfer device precisely transports it to the lathe spindles. This fast and accurate positioning contributes to production speeds of up to 18 cycles per minute. Sophisticated centering algorithms adjust to the unique shapes and characteristics of different species. The charger frame is made of heavy-duty steel construction to control deflection and accuracy and is designed for direct attachment to the lathe for added rigidity and to assure precise reference between the lathe and charger. (Photos available)

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Mechanical blending system with high resin savings (211)

Imal points to the importance of producing top-quality boards with good mechanical and surface properties while saving on resin consumption. The company's specially developed mechanical blending system incorporates fiber-blending technology that works on the principle of post-dryer glue injection with the application of a special blender. As is explained, this blender is not just a mechanical mixer but a complete system that exploits several thermo-fluid-dynamic principles to offer secure and guaranteed end results. Only a few hours of downtime are apparently needed to install and switch over to the new system. With this technology, which has reportedly been fully tested in 21 MDF mills, the manufacturers can now promise resin savings of 20 percent over traditional blow-line blending. This guarantee also extends to a spot-free board surface and the same physical-mechanical board properties. Another benefit of the new fiber resination solution is seen in the reduction in dryer energy and the consequent increase in dryer capacity. The performance and efficiency of the system is said to be unaffected by the line capacity. (Photos available)

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Sawmill Technology

OSB blending system with reduced resin consumption (212)

A new OSB (Oriented Strand Board) resination system is currently being designed by Imal to improve resin distribution efficiency and simultaneously reduce the amount of resin consumed. As is pointed out, the production of top-quality boards with good mechanical and surface properties while simultaneously saving on resin consumption has become increasingly important over the last couple of years against the background of steep rises in the price of resin and, as a result, in manufacturing costs. According to the Italian manufacturers, the solution now being developed will also help eliminate such inconveniences as cleaning out the large drum blenders. The innovative system is already claimed to be a major step forward in OSB technology. (Photos available)

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Pallet block plants that can use recycled wood (210)

Imal announces that it has recently added the supply of wood-based pallet block production lines to its range of products. The pallet block production lines can apparently be installed parallel to existing particleboard production lines since most of the equipment required for the preparation of the material is the same as that deployed in the production of standard particleboard. In comparison to traditional wooden blocks, these new-generation pallet blocks are said to manifest very good mechanical and physical properties. These include a constant density, impermeability, and uniform dimensions and thickness. According to the Italian manufacturers, the blocks do not split when nailed and have the particular advantage that they can be produced from waste wood or recycled wood. (Photos available)

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Sawmill Technology

Peeling machine for producing telegraph poles (158)

One of the small timber processing machines to be featured by Wema Probst will be the MSM 70 peeling machine for producing telegraph poles. The unit is equipped with peeling arms for pre-peeling and re-peeling. The feed rate and speed are regulated hydraulically. As the German manufacturers specify, the finished diameters range from 8 to 40 cm and the raw timber lengths can extend from 4 to 16 m. Further details for the pole peeling machine on the company homepage also mention a feed speed of approximately 2 to 8 m/min and a total capacity of 25 kW. (Photos available)

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Single-pass profiling line for small logs (12)

USNR will be exhibiting their single-pass small log line. The profiling system reportedly begins with the Knuckle Turner in-feed that integrates log turning and accurate slew/skew positioning into a very small footprint. A profiling chipper system then creates sideboards, eliminating the need for downstream edging. Sideboards are subsequently removed by a Quad Arbor Sawbox, which is described as a circular saw alternative to a quad bandmill. It apparently features a special arbor arrangement to achieve a balanced depth of cut, resulting in higher feed speeds and lower sawing deviations. Cants are processed by a Vertical Shape Saw (VSS) with top and bottom profilers. From the log turner through to the gang outfeed, the line is claimed to maintain total control over the product. As the American manufacturers maintain, there is no opportunity for slippage or misalignment of the cant before it is cut into boards by the VSS unit itself. Operating at 16 to 20 pieces per minute, the saw unit incorporates features not normally associated with traditional fixed-arbor gangs. (Photos available)

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Sawmill Technology

Single-solution for automated and MSR grading (14)

The Linear High Grader (LHG) from USNR is said to integrate various complementary technologies to yield a highly accurate automated lumber grading system. The modular design allows it to grow step-by-step to expand mill capabilities. Its frame is compact yet accessible, and once installed, upgrades are claimed to be easy with no ensuing structural modifications or production interruptions. As the exhibitors stress, the base unit precisely determines all geometric board features including size, wane, skip, holes, crook, bow and twist. Adding the x-ray-based, non-contact e-Valuator module allows the machine to predict strength and moisture content, enabling a mill-to-market high value MSR/MEL lumber. This module predicts MOE, bending, tension, moisture, slope of grain, and knot size with location, providing complete and accurate data to control strength graded products. In addition, the Visual Defect module reportedly detects knots, stain, splits, shake, decay and other visual characteristics accurately. (Photos available)

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Timber drying kilns for modern requirements (209)

The Italian company Bigondry manufactures drying kiln and heat treatment plants as well as turnkey plants operating with biomass boilers. An important new development in the field is said to be dryers for the truss in wood according to the new requirements of CE certification for wood structures, with corresponding innovations in the construction and technology fields. In structural terms, a movable wall has been implemented that allows the unit to be used as a single plant or as two separate machines. Working at only half load is thus possible to assure maximum flexibility. In terms of technology, new accessories have been added to provide optimal humidity control using a high-pressure system with 70 bars. A further addition consists of a sensor for recording and controlling the air flow through the wood stacks, which is claimed to cut costs during the drying cycle by up to 40 percent over traditional systems. Continuous enhancements on the plants are said to effectively meet customer wishes to save time and costs in drying operations while still yielding optimal results in terms of wood treatment quality. (Photos available)

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Solid Wood Working

Solid Wood Working

Solid Wood Working

Automatic coating system for problem zones (203)

Dynflow is described as a new continuous coating technique that guarantees a high-quality coating in areas that are difficult to coat. The automatic coating system is seen as ideally suited for the coating of complex parts with corner joints and rebates. According to Range and Heine, the method makes it possible to coat any workpiece with almost no loss of paint. Moreover, thanks to the cost-effective logistics for paint changes, the solution can also be used efficiently in automatic production lines. According to the German manufacturers, the advantages lie in increased paint productiveness, the smooth coating quality even for thick layers, the reduction of finishing work such as grinding, and the optimal exploitation of paint resources. (Photos available)

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Bag-filling machine cuts packaging costs (116)

Willems Baling Equipment will be presenting a machine that fills bags made out of flat film, which is said to be ideal for filling bags of pellets or similar products. The manufacturers in Holland describe the equipment as fast and reliable. As is explained, the bags are made with gussets and the fact that the bags are produced from flat film saves bagging costs. In addition, the apparatus is fitted with a shaking device so that the pellets fall together in the bag. This supplementary mechanism is also claimed to effectively reduce the packaging costs per bag of pellets. (Photos available)

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Solid Wood Working

Boiler unit suitable for high-ash material (175)

One of the units presented by Schmid will be their moving grate UTSR boiler with an operating range from 100 to 5,500 kW. The fuel types are listed as wet shavings, wet woodchips, wet bark, and special fuels. Applications are seen as wood chip furnaces, as bark furnaces and residual wood furnaces in sawmills, and as residual wood furnaces in the wood-processing industry. As is explained, the boiler unit is equipped with a flat feed grate and is also suitable for combustion material with high ash content. The complete combustion chamber is lined with fireproof material, thereby producing a high furnace temperature even in case of wet material. The secondary air supplied to the combustion chamber and the full-combustion stage enables a stepped combustion that results in optimum combustion and a reduction in the nitrogen oxide (Nox) value in the exhaust gases. For lowering the dust and Nox value in larger-scale installations, suitable electrostatic filters or reduction installations using the Selective Non-Catalytic Reduction (SNCR) process have been provided. Options include an air pre-heater for primary and secondary air in case of high moisture levels in the material. (Photos available)

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Butt welding machines for bandsaws and band knives (66)

Ideal will be presenting bandsaw butt-welding technology with accessories for the manufacture and service of all kinds of bandsaws from 3 to 210 mm widths. The program on show will include flash butt welding machines from the BAS series for joining wood bandsaws up to 210 mm in width, bi-metallic saws, other types of metal bandsaws, and band knives in consistent and superior quality. The 050-01 from the series, for instance, which will be demonstrated on a workbench, serves to weld wood-cutting bandsaws from 6 to 50 mm and features an infinitely variable setting of parameters. The welding transformer power is given as 4.5 kVA. The welding range of the 210 model is specified as embracing blade widths from 32 to 210 mm and thicknesses from 0.40 to 1.65 mm. A further exhibit, the BLS 320 gas-shielded arc welding machine is used for the repair and continuous welding of band resaws and log bandsaws from 60 to 320 mm in width. It is also said to be suitable for repairing fine hairline cracks, even those running parallel to the running direction of the bandsaws. (Photos available)

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Compact boiler with underfeed gasification furnace (173)

The UTSK underfeed stoker furnace from Schmid operates with water and steam with air as the medium for grate cooling. The plant has an operating range from 180 to 2,000 kW. The fuel types are specified as dry shavings, woodchips, and residual wood. Applications are seen in wood chip furnaces for private and public installations and in chip and sawdust furnaces in the wood processing industry. As the company explains, the material is passed from below into the high-alloy casting combustion retort of the underfeed stoker furnace. The complete combustion chamber is lined with fireproof material, thereby producing a high furnace temperature even in case of wet material. The primary air is passed into the combustion retort through the cast-iron bars, where a steady gasification of the combustion material commences. The secondary air that is passed into the combustion chamber leads to optimum combustion and therefore low emission. The ash is removed over a full-combustion grate. The proprietary Pyrotronic Modular control system is deployed to achieve optimum control of the installation. (Photos available)

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Hall: 013, Stand C15

Compact, continuously cleaned drum filter unit (32)

LTG will be unveiling their first compact, regenerative and continuously cleaned drum filter unit with vertical air flow. The CFU-UDF consists of a pre-filter module, a fine-filter module of the Upflow Drum Filter (UDF) type, and a fan module. The device is seen as particularly suitable for fibrous dust. The company specifies an air volume of up to 40,000 cubic meters per hour for only 2.6 square meters. The pre-separation of coarse particles is conducted mechanically without filter media. As is explained, the air passes vertically from the bottom to the top and from the inside to the outside through filter drums. The manufacturers also highlight the continuous cleaning by rotating nozzles and the small floor space required thanks to the through-flow principle. Multiple modules can be assembled to meet any output requirement without interruption. Further advantages include the recycling of separated materials, the lack of pressure fluctuations in the system, the high filtration capacity and power density, and the long service life of the filter media, which can also be easily replaced. Explosion-protected versions according to Atex are apparently available. (Photos available)

LTG Aktiengesellschaft

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Solid Wood Working

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Complete, high-speed optimizing saw system (195)

Super Cut 500 is a new high-speed optimizer from Solidea in Italy designed to meet very high production capacities with great reliability. According to the manufacturers, the dual workpiece feed system allows rapid acceleration and high speeds, whereas the innovative cutting system is very fast. Strength and sturdiness are also singled out as special merits, whereby the materials and components have been chosen to reduce the need for maintenance. The system is billed as a technological front-runner thanks to intelligent software that exploits all the potential of the special numerical controller combined with a powerful computer. Almost everything required is said to be incorporated as standard, while maximum flexibility is ensured by a direct before-sales service and an expert after-sales service. The feed system consists of a high-grip feed belt on the underside and cogged rollers on top that adapt to the wood to effectively handle uneven planks. As regards speed, the exhibitors specify a time of a few hundredths of a second for a cut. (Photos available)

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Solid Wood Working

Dynamic flow-coat system for even wood coatings (201)

With its Flowcomat system, R+H System is presenting a new technology for impregnating, prime coating, interim coating and pickling based on flow-coating. As the manufacturers explain, the parts run through the flow-coat system and are steadily coated on both sides, producing only marginal paint mist. The solution can also be equipped with, for example, a piggyback paint supply for a quick and low-loss change of paint. In addition, the recently developed Flowcomat-A version also allows a fully automatic change of the paint. The H-type model enables all the workpieces to be flow-coated while in a horizontal position. The required paint quantity is reportedly low and the booths are said to be easily accessible and simple to clean. (Photos available)

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Hall: 013, Stand A27

Easily handled, thin-cutting band saw for lamellae (70)

The high-performance, thin-cutting Speedliner 710 band saw from Fill is a new machine billed as guaranteeing very high precision with the thinnest of kerfs and ensuring high flexibility in the production of lamellae. Its robust design reportedly facilitates the cutting of even the hardest types of wood. Special features highlighted by the manufacturers include high speeds up to 20 m/min, very high sawing precision thanks to high-tension forces, very thin kerfs starting at 0.9 mm, and cutting widths up to 250 mm. The Austrian exhibitors also point to the saw pulleys supported by bearings on both sides, the servo-drive in combination with precision guides, the simple operation via program pre-selection, and the working height of 900 mm. (Photos available)

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Hall: 012, Stand A30

Solid Wood Working

Extended range of wood waste pelletizing plants (168)

All products of the Ukrainian company Joint Venture Grantech (ICK Group) are reportedly manufactured according to the Quality Management System ISO 9001:2008. The system applied is said to enable the fabrication of equipment with an optimum ratio between price and quality. In addition, the company reports that it has substantially extended its range of equipment for the production of biofuel from wood wastes of various kinds during the last year. The range has been supplemented with the new pellet mills GT-304, GT-500 and GT-800, with mixers, and with screening machines. The capacities of the pelletizing lines have also been enlarged. The exhibitors point out that they now offer a spectrum from mini-complexes with capacities from 0.3 to 0.5 metric tons per hour to pelletizing lines for up to 3.4 tons per hour. (Photos available)

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Fixed-portal beam processing in high production (67)

The Techno PF machine on display from Essetre is described on the company homepage as a working center with fixed-portal frame and automatic beam in- and out-feeding. Designed for high production, the machine is supplied with one or two independent five-axis heads, both equipped with a tool changer. A system of patented pliers controlled by the numerical control apparently allows the clamping and machining of beams of unlimited length. The unit is reportedly able to carry out all the processing required on the beams. A patented blade aggregate allows the beam ends to be cut. Safety protection according to the CE norm reduces the noise emission and the dust emitted, while the chips are conveyed out of the machine by means of a motorized belt. The belt is placed horizontally under the working area. The machine is equipped with liquid-cooled electro-spindles with 12 kW of power at 7,000 rpm and a programmable rotation from 1,000 to 18,000 turns via 22 kW inverters. The electric cabinet is supplied with a conditioner to allow operation at both high and low temperatures.

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Solid Wood Working

Flexible machining of polycrystalline diamond tools (33)

One of the technological highlights from Vollmer Werke will be the new QXD 200 universal machine for the flexible machining of PCD (polycrystalline diamond) tools. The operation is reportedly conducted by path interpolation in six CNC axes, which offers tool manufacturers much greater room for development than in comparable machines. According to the German exhibitors, the machine measures, erodes, grinds, and polishes PCD-tipped tools in one clamping. The integrated tool changer and the complete tool guidance are said to create the necessary conditions for unmanned shifts around the clock. In this way, the loading and unloading of the tool-holder magazines can take place in parallel to the automatic operation. Apart from the technical merits of the machine, a total package is offered that also includes customer support and services such as trial machining, employee training, financing planning, and maintenance and repair. (Photos available)

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Hall: 013, Stand A50

Fully automatic painting of window frames and doors (204)

The Dynspray solution from Range and Heine performs fully automatic pre- and top-coating of windows and doors. It uses airless methods and a newly developed automatic coating concept that includes the sensitive recognition of workpieces and automatically activated spraying guns for coating both sides while the part is passing through the system. As is explained, the water-based paint is applied to the workpiece by means of the spraying guns in a cost-efficient manner thanks to the automatic identification of workpiece contours. As particular advantages, the German manufacturers also highlight the drop-kick technology for the optimal spray-painting of corners and rebates, the even spread of coating strength, and the high exploitation of paint resources. (Photos available)

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Hall: 013, Stand A27

Solid Wood Working

Grinding machine for HSS circular saw blades (49)

One of the latest developments on show at the Arti Bileme stand will be their PNK-AC-CNC machine for profiling and automatically grinding HSS (High-Speed Steel) circular saws. The exhibit is PC-controlled and features a four-axis servo motor system. The grinding wheel runs on linear rails and the machine can use water emulsion or oil as coolant. The production reportedly conforms to CE standards. As is emphasized, all profiles and chamfers of HSS tooth geometries can be processed in one set-up. The manufacturers further spotlight the automatic chamfering operation and the hand-wheel for fine set-ups. (Photos available)

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Hall: 027, Stand C05

Heat treatment system enhances wood value (127)

A latest development on show from De Nardi will be their TMK heat treatment system for up to 230°C that is said to offer several advantages. According to the company, the wood takes on a uniform darker color and is aesthetically pleasing. The treated wood reportedly adopts characteristics similar to high-quality woods such as mahogany or South American wood, with a corresponding increase in value. All the resin contained in the wood leaks out or dries, thus reducing maintenance needs, and the wood apparently becomes more stable in regard to moisture or temperature changes so that it can be deployed outdoors. In addition, the wood becomes more resistant to mould or insect attacks and becomes harder, which allows heavy-duty use, for instance in floors. The special treatment also enables wood with chromatic defects or with excessive alburnum (sapwood) to be reconditioned. The thermal proofing characteristics are also improved, which is seen as particularly interesting for pine, birch, and fir.

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Hall: 013, Stand C01

Solid Wood Working

High-efficiency vacuum filter saves energy costs (19)

Holtrop and Jansma will be showcasing a new, high-efficiency vacuum filter developed with advanced filter technology. The filter is said to ensure substantial energy savings so that clean air ventilators with a much higher efficiency can be used. A saving up to thirty percent on energy costs is claimed possible. The company draws attention to its broad knowledge of materials, its leading status in the manufacture of exhaust systems and filter techniques, and its specialization in all types of blow-through, auger, container, chain, tower, cyclo and compressed-air filters. The Dutch company also builds sound insulating casings, round silencers, splitter attenuators, let-down silencers, and noise screen walls. Complete solutions are offered in the field of mechanical transport systems and waste collection and processing. In line with the filtering of air and fume extraction, the exhibitors also develop entire industrial spraying shops.

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Hall: 012, Stand D26

High-speed log-shaving machine for animal bedding (115)

Willems Baling Equipment has developed a new high-speed log shaving machine. The machine has been specially designed to create wood shavings for animal bedding out of logs. Two types are available, the WLS-2-14 and WLS-1-7, according to the capacity required. As regards the quality of the wood shavings produced, the Dutch manufacturers maintain that individual specifications can be effectively met. As is also stressed, the machines are designed for 24-hour production seven days a week. Apart from a robust construction and operational reliability, emphasis has also been placed on ease of maintenance to ensure that the knives can be changed rapidly and safely. The cassettes with rotor heads can apparently be replaced very quickly from the outside of the machine. (Photos available)

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Solid Wood Working

Innovative technology for wood acetylation (5)

Titan Wood will be explaining their new technology for wood acetylation. After long research and development, the company claims a breakthrough in wood technology that enables wood acetylation, a process studied by scientists for more than 75 years. As is claimed, the process effectively increases the wood's natural acetyl content, resulting in a new wood species with properties surpassing those of the best hardwoods, yet manufactured using a non-toxic process with certified sustainable wood. This innovative technology is implemented to produce Accoya wood, for instance. It is said to make the consistent supply of durable, dimensionally stable, sustainable, non-toxic solid wood a reality and allow for a greater use of wood without the typical environmental or performance compromises. The exhibitors claim to provide the world's only large-scale production of acetylated wood although further facilities are being constructed worldwide by technology licensees. (Photos available)

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Integrated log charger and lathe (6)

The Italian woodworking machinery manufacturers at Angelo Cremona have reportedly designed a new integrated log centering, charging and peeling machine designated CSI. The machine is seen as particularly suitable for processing log species and sizes from Eastern European countries. According to the exhibitors, the new model has a capacity that makes it one of the most up-to-date peeling lines, but it is apparently based on a different concept than is usual. The machine is described as very compact, reliable, precise and competitively priced.

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Solid Wood Working

Loading robot for TCT circular saw blades (48)

Arti Bileme produces grinding, welding and crossing machines for band and HSS (High-Speed Steel) circular saws, grinding and welding machines for TCT (Tungsten Carbide-Tipped) circular saws, knife grinders, and universal tool-grinding equipment. The Turkish company will be showcasing their automatic loading and unloading robot for their grinding machines for TCT circular saw blades. According to the homepage, various versions of these grinders are produced, including automatic and CNC-controlled machine models.

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Moving grate furnace for wood and special fuels (176)

The moving grate UTSW furnace from Schmid has an operating range starting at 300 kW and is suitable for fuel types such as dry shavings, dry to wet woodchips, dry residual wood, and crushed wood. Various special fuels can also be handled, such as those with a very high calorific value or low ash melting point like particleboard waste, old timber, and corn and rice husks. The boiler unit is equipped with a sloping moving grate and is also suitable for combustion material with high ash content. As is explained, the combustion material is fed on to the sloping feed grate from the rear of the furnace. The grate consists of water-cooled grate girders and the rods overlap on both sides, so that a minimum of material slips through the grate. The combustion chamber is water-cooled and lined with fireproof material to guarantee the required cooling even in the case of materials that generate a high temperature. The company's Pyrotronic Modular system is implemented for control purposes. The emission values can reportedly be kept very low thanks to the boiler construction and the well-matched furnace. Various options can be provided. (Photos available)

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Hall: 013, Stand C15

Solid Wood Working

New process for the heat treatment of wood (10)

WTT will be presenting a new heat treatment for processing wood under pressure with an effective heat transfer through a heated pressure autoclave in stainless steel with a double jacket. The process is said to be fast, lenient and financially attractive. Wear parts such as ventilators are not used. The wood is not fully dried out, but a residual moisture content of around six percent is maintained. The relatively high rate of rejection often seen in traditional heat treatment processes is therefore avoided. As is maintained, the new process ensures that the wood already reaches high durability in the temperature range of 160°C to 180°C. Tests are currently being conducted at Freiburg University as to the durability of various wood species treated in such a heat treatment plant, such as oak, beech, ash, pine, spruce and fir. According to the exhibitors, the manufacture cost for deciduous and coniferous wood up to 60 mm is similar to that of pressure-impregnated wood. The heat treatment plants are available as turnkey installations, including heating and PC control facilities. Capacities are offered in the range of annual production of 1,500 to 5,000 cubic meters. (Photos available)

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Hall: 013, Stand C16

One-cycle grinder for TCT circular saw blades (47)

Premium is a five-axis, double-wheel, complete face and top grinder from Arti Bileme in Turkey. The machine has been designed for the one-cycle grinding of TCT (Tungsten Carbide-Tipped) circular saw blades. As the company stresses, thanks to its double-sided grinding wheel, it carries out the complete grinding of all tooth geometries in one single pass, with both the face and the top of the profiles handled. The unit is PC-controlled and automatic adjustments are made from the control panel. The tooth geometry can be followed from the screen. The production reportedly conforms to CE standards. The exhibitors particularly highlight the totally enclosed cabin for operator safety, the simple controls for ease of use, the independently adjustable grinding and indexing speed, and the automatic measuring of tooth data. (Photos available)

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Hall: 027, Stand C05

Solid Wood Working

Overspray recovery system for low paint quantities (202)

Coolac is an overspray recovery system for all aqueous coating materials based on the condensation technique. As the exhibitors from Range and Heine report, the solution can be designed as a compact spraying station with paint recovery, for instance combined with a rotary pre-separator, for the manufacture of individual parts for wooden strips and profiles. It can also be delivered as a manual spraying stand or as a continuous system with two separation walls and floor suction. According to the manufacturers, the overspray, which cannot be avoided in spray-coating, is effectively recovered as unmixed paint. The overspray apparently condenses on the system wall installed behind the workpiece, whereby the temperature of the wall is cooled down below the dew point. As a result, the condensation film generated on the surface prevents the paint from drying. The required paint material and the operating expenses are said to be significantly reduced. Particular uses are seen in applications with frequent changes of paint as well as in the spray-coating of wood or metal parts. (Photos available)

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Patching tool safely repairs steel belt damage (73)

Berndorf Band, an Austrian manufacturer of endless steel belts, will be explaining how their Bernfixx patching tool can be used to repair all types of damage to steel belts quickly, precisely, and easily. Depending on the specifications of the end product, two options are listed as possible. Firstly, inserting a patch by welding from both sides, without the use of additional welding wire, is followed by finishing in a semi-automatic process. This reportedly leads to a precise repair that takes around six hours. Secondly, inserting a patch by welding from one side, with the use of additional welding wire, is followed by manual finishing. This operation apparently yields a fast repair that requires around three hours. A key advantage of the tool highlighted by the exhibitors is that milling is the only method of cutting, which assures operating safety in inflammable areas. Further merits are seen in the one-man operation, the uniform thermal discharge during welding through the exact clamping of all parts, the option of precise or fast repairs, the automatic welding process, and the resulting extension of steel belt lifetimes thanks to accurately conducted repairs. (Photos available)

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Solid Wood Working

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Pellet boiler with low emission values (174)

The Schmid Pelletronic UTSP pellet boiler has an operating range from 180 kW. As is explained, the pellet boiler works on the same principle as the underfeed stoker furnace. The pellets are fed from below into a combustion retort made of high-alloy casting. The complete combustion chamber is lined with fireproof material, which leads to a high furnace temperature. The company's Pyrotronic Modular control system is implemented to achieve optimum control of the installation and a programmable control system has been provided that operates in five control cycles, namely power control, combustion control, under-pressure control, lambda control, and air quantity control. All important installation data can be viewed on an operator-friendly display. The machine can be combined with various silo discharge systems, such as screw conveyors, central, cone and swivel arm discharge systems. The transportation is performed by robust screw conveyors designed to suit the fuel. The emission levels are claimed to be very low thanks to the furnace construction and the sophisticated control system. (Photos available)

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Solid Wood Working

Pellet mill for medium-scale pellet production (118)

The N-Midi pellet mill machine reportedly includes an innovative system of die cutter loading and compression. The Italian manufacturers promise lower pellet production costs since they have developed a machine with high-efficiency servo-drive motors and a favorable energy-saving ratio between the electrical power and the pellet production in kilograms per hour. As is also claimed, all the integrated technologies and mechanical components have been selected to yield optimum economy and a very high quality of pellet without additives or collar, whether these are from a natural origin or not. According to Nova, their pellet mill machine is available in four different versions with pellet production ranging from 300 to 1,100 kilograms per hour. The various models are suitable for soft materials like fir, pine and poplar wood as well as for hard materials like beech, oak and olive wood. Details on the homepage point to a material size consistency between 0.5 and 1.5 mm, a moisture rate between eight and twelve percent, and the fast tool-change at the front of the machine for easy maintenance. (Photos available)

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Robust band saw for cutting widths up to 1,500 mm (71)

A new band saw on exhibition from Fill will be the company's thin-cutting Speedliner 920-1500. The high-performance unit has been developed for special applications and large cutting widths and is apparently a further development in the familiar band saw series. The manufacturers promise a very high degree of precision coupled with high capacity and flexibility in the production of solid wood boards, cork products, and composite and multilayer boards. The robust design reportedly allows cutting of widths of up to 1,500 mm. As is explained, workpieces are product-specifically guided either on a transport belt or on a high-precision shuttle system and then divided into strips by the horizontal fine-cutting band saw module. Kerfs as narrow as 1.1 mm are claimed to ensure maximum cost-effectiveness. The devices can be operated as free-standing machines or production lines comprising several in-series, automated band saw modules. The servo-controlled drives are said to ensure optimum sawing precision even for the thinnest of cuts. (Photos available)

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Solid Wood Working

Sawdust pellet mill with robust construction (205)

FCM (Five Continents Machinery) produces wood and bamboo sawdust pellet machinery. The FCPM sawdust pellet mill being highlighted serves to press the scraped sawdust into pellets for fuel. The machine features a highly efficient, one-step gear drive system that reportedly ensures a maximum energy utilization ratio. It further incorporates a fully stainless-steel feeder, a variable-pitch anti-arch structure, and an imported frequency converter control. A robust stainless-steel conditioner extends the conditioning and cooking time and the water- or steam-spraying port helps improve the sawdust pellet capacity. As is pointed out, the gear and pinion shaft is also the result of carbonizing quenching and hard tooth surface polishing technology, which results in smooth driving, low noise, and a long service life. In addition, a lubrication oil-return system is available to ensure reliable bearing lubrication. The pellet chamber door and the feed chute with double-cutting knife assembly are also completely made of stainless steel. The connection between the motor and gearbox makes use of a new type of S-shape spring coupling for easier disassembly and assembly. (Photos available)

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Scan probe 3D camera system for optimum positioning (7)

Angelo Cremona will be recommending its new scan probe 3D camera system as an alternative to XY laser centering devices. The development has reportedly emerged as a result of tests carried out in the company's own laboratory and in customer factories. The system is said to optimize charger and lathe operations and increase the capacity of the line with highly accurate automatic positioning of the lathe knife carriage.

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Solid Wood Working

Spare-part dies and rollers for pellet mills (169)

The production of spare parts such as dies and rollers for pellet mills is one of the focuses of the Ukrainian company JV Grantech. The dies are reportedly manufactured according to advanced technological standards, which is said to allow the production of correspondingly high-quality products. The commissioning of new multi-spindle automatic gun-drilling machines, which are produced in Germany, has apparently reduced the time needed for die manufacture. In order to improve the die quality, a vacuum oven from Degussa has been installed in which the entire heat treatment cycle is performed. At present, the exhibitors offer dies that include a range of holes diameters from 2.0 to 10.0 mm. The rollers are manufactured in two variants, namely rifled and perforated versions. All the dies and rollers are supplied ready for use. (Photos available)

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Spot repair unit for solid wood boards and parquet (69)

With its Speedfiller spot repair unit, the Austrian company Fill claims that solid wood boards and parquet can be touched up efficiently and fully automatically for the first time. In conjunction with a scanner, a uniform high quality is said to be obtained on boards or parquet surfaces. As the exhibitors explain the principle, the boards are scanned by the through-feed method and are transferred to the spot repair portal in the same line. The bad spots of the boards are repaired there with a liquid filler medium, using the through-feed method as well. Depending on requirements, the system can also be designed as a complete spot repair line with an unstacking system, a control station, buffer storage, and destacking capability. (Photos available)

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Solid Wood Working

Technology for large-scale belt drying plants (43)

As the exhibitors point out, the production of wood pellets according to Önorm M 7135 and DIN Plus requires high-quality drying of the original product. Stela Laxhuber says it has realized projects up to a water evaporation of 45 000 kg/h with a highly efficient and individually adaptable modular drying system by means of low-caloric heat. The company reports on an interesting project in New Zealand with a single drier with a capacity of water evaporation of more than 16 000 kg/h. The drier has a length of 65 meters, is heated by geothermal water vapor, and the drying air is heated up to more than 100°C by means of a sophisticated system of heat exchangers. This high temperature level, in connection with the extreme size of the drier, is able to achieve the high evaporation capacity. Furthermore, a re-improved ventilator system has also enabled the increased drier capacity. The company's special multi-vent technology has been supplemented by particularly strong fans. With decades of experience in this particular field, the exhibitors maintain that they can provide customers with a modular technology specific to individual requirements. (Photos available)

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Hall: 013, Stand C72

Versatile, automatically adjustable aggregate (45)

The new Qinx head from Benz is said to combine a compact design, and high precision, accuracy and reliability to offer operating convenience and simple functionality. As the exhibitors explain, from the 0° origin, the adjustment of the output angle (A-axis) is controlled by the movement of the Z-axis of the machine and a brake securely locks the output angle in the desired positioned for machining. Upon completion of all machining to be conducted at the first angle, the brake is released by command from the controller, returning the unit to the 0° origin. This process can be repeated endlessly. When combined with a C-axis, which is apparently not mandatory with this head, any solid angle can be achieved. An advantage is that it can be retrofitted to any machine with minimal effort. Further benefits listed by the manufacturers include its lack of impact on any existing machine functions, the multifunctional tool outlet, the fast yet precise setting accuracy, and the simple programming functionality. Machine versatility can thus be expanded at a reasonable cost, the exhibitors insist. The torque rating is given as 25 nm and the maximum output speed as 12,000 rpm. (Photos available)

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Solid Wood Working

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Hall: 026, Stand A29

Versatile range of balers and press packagers (117)

Willems Baling Equipment offers a large range of balers, which is reportedly being continuously developed. Examples include pressing from above, from underneath, from the side, from the back, and all kinds of combinations of these variations. The company says it carefully selects the right method of pressing for the product in question, since each product calls for a different method of handling. Balers are available, for example, for wood shavings, sawdust, wood flour, wood chips, and shredded wood. The bales are then used for applications such as pet bales or for horse bedding, cattle bedding, and poultry bedding. One example of recently developed baling technology is specified as a high-speed baler that can bale wood shavings as well as sawdust even though these represent two different types of product. Another newly designed baler from the manufacturers in Holland features a compression ratio of approximately 15:1 and triple-compression capability. As a result, the product is compressed in three different directions in order to be able to press a large volume into the desired bale. (Photos available)

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Hall: 013, Stand E50

Wood firing system for CHP generation units (72)

With a rated megawatt thermal output of 15 MW/th, the Turbo Challenger boiler system has been specially developed for combined heat and power (CHP) generation units that make thermal use of renewable raw materials such as wood residues, bark, and sawmill waste. As the exhibitors from Agro Forst point out, shutdowns, outages and repairs frequently occur in practice, or they are necessary because some of the fuel can be very dirty, particularly in the case of power generation systems after hours and under maximum load. The engineers point to their long experience in the area of optimizing wood combustion technology, developing new plants, and repairing existing combustion facilities. The new and reportedly highly successful construction principle of the system on show from the Austrian company is claimed to mark a further step towards the reliable and readily available generation of alternative energy from biomass.

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Wood species with tropical hardwood properties (4)

According to the exhibitors from Titan Wood, a new wood species is now available on the market called Accoya wood. The product is said to make the consistent supply of durable, dimensionally stable, sustainable, non-toxic solid wood a reality and allow for a greater use of wood without the typical environmental or performance compromises. The wood is seen as ideal for windows, doors, cladding and decking, as well as a wide range of other uses. Its qualities include Class 1 durability, which is explained as the best available, with fifty or more years above ground and 25 years in the ground, dimensional stability with 70 percent or more shrink/swell reduction, and an extended coatings life that is three to four times longer. It is claimed to be resistant to mold, fungi, insects and UV degradation. The producers also highlight its superior machining qualities, the hundred-percent modification from surface to core, and the natural and non-toxic nature of the wood. The technology behind it is based on wood acetylation, which effectively increases the wood's natural acetyl content and reportedly produces a new wood species with properties surpassing those of the best hardwoods.

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Wood Products and Veneer

Wood Products and Veneer

Additives for impregnation processes (95)

The Spanish exhibitors from Fusoni will be showcasing their complete line of additives for impregnation processes. The product range consists of antifoam agents, wetting agents, plasticizers, releasing agents, anti-blocking agents, anti-dust agents, and cleaning agents. The company points out on its homepage that all its products are free from nonil phenol and that it also offers technical consulting, the development of new products according to specific needs, and the adaptation of products to existing customer processes.

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Hall: 027, Stand H31

Air flotation table for efficient no-waste cutting (22)

Macmazza has been producing flexible PC-controlled panel saws for 35 years in customized, standard and reconditioned versions that are said to be easy to use and maintain. The company reports that it will be introducing a new rotating-air flotation table at the fair for the manual loading, rotating and unloading of workpieces. The machine is said to be useful in turning not only wood for head cuts but also strips for rip-cutting and cross-cutting operations in a safe manner. It apparently enables complicated cutting patterns to be performed and serves to minimize panel waste. The rotation and stacking can be carried out manually in a quick and easy way, and the system allows the cutting cycle to continue without interruption. The table measures 4.3x2.2 m and makes use of a system of linear guides. According to the manufacturers, the simple yet robust mechanical system requires no maintenance and also integrates safety photocells to avoid mistakes by the operator.

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Wood Products and Veneer

Air-based dry cleaning system for recycled chips (146)

Pal supplies turnkey solutions for wood panels, pellets and energy production. One of the company's developments on show will be its new generation of ACC Air Chip Cleaner, which has been designed and built to clean recycled wood chips with more than 95-percent efficiency. This figure is said to be the result from the experience of eleven machines installed in six different plants within a year after presentation. According to the homepage, the advanced chips cleaning system removes heavy pollutants such as stones, glass, minerals and heavy plastics from the recycled chips flow and also separates light pollutants by means of its optional Light Pollutant Separator. As is pointed out, the machine is also incorporated in the company's Cleaning Tower system, a multi-machine installation for effectively cleaning pollutants from recycling chips. This system is claimed to clean even very fine fractions, have a reduced footprint, and feature a reduced absorbed power of 5 to 6 kW/ton. The manufacturers also offer laboratory services for testing and simulating the industrial process to minimize customer investment costs. (Photos available)

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Center for transversal bar sawing and edge-banding (68)

The new Fusion woodworking center from Essetre can reportedly trim and edge-band its bars at the same time. Unlike the traditional system that embraces the use of a cross-cut saw, an edge-banding machine or a squaring edge-banding machine to carry out this processing, the innovative center is claimed to carry out twice the production while occupying half of the space. As the Italian exhibitors explain, the unit saws and edge-bands the bars by combining the well-proven system of sawing and edge-banding within a new group provided with blade, engraver and two NC-controlled toupie groups to obtain a precise and finished cut. Modern technologies for edge-banding are said to be integrated, with a gluing group for up to 70 mm high edges. In addition, polyurethane glue tanks and the associated pre-melting devices are also provided. To obtain optimum edges, the manufacturers have installed a revolver head with four trimmers equipped with copying devices. These NC-controlled copying devices reportedly follow the bar profile precisely and can yield the best results on the edges of any material, such as melamine paper, laminate, ABS, or unicolor types.

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Wood Products and Veneer

Hall: 025, Stand B19

Compact, residue-free extinguishing systems (108)

The Argotec fire extinguishing systems on show from Minimax reportedly use the inert gases argon, nitrogen and carbon dioxide to ensure completely residue-free fire fighting. As a result, the protected objects remain available and ready to function at all times. Consequently, the systems are seen as the ideal solution for the protection of high-quality plant and sensitive equipment, such as switch rooms and control panels that could be damaged through the use of other extinguishing methods. As is pointed out, the system can be used in connection with a suitable fire detection system from the exhibitors, in which their proprietary fire detection control panel FMZ 5000 is used to control the extinguishing. The manufacturers explain that the fire-fighting principle is based on the suppression of oxygen. Once the actual limit is reduced below the specific value required for burning, the fire is quickly smothered. The homogenous distribution of the extinguishing solution combines with the rapid development of concentration to yield optimal effectiveness. The compressed nature of the extinguishing supply is also stressed, which serves to save space and money. (Photos available)

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Effective fire protection with minimum water usage (107)

According to Minimax, a particularly high risk of fire exists in the production of wood-based panels with continuous presses or multi-plate presses. To meet this challenge, the company offers comprehensive press protection with its Minifog Press Protect system that consists of a fine spray extinguishing system and a reliable fire detection device. According to the developers, the solution thus ensures optimal safety against fire damage and reduces expensive downtimes. As is explained, extinguishing water is finely sprayed through special impulse nozzles. This increases the surface area of the water and optimizes its cooling effect. At the same time, the water vapor that is produced prevents the flow of oxygen to the source of the fire, which is claimed to be an effective combination for controlling and extinguishing a fire in seconds with minimal water usage. The small amount of water required and the highly effective spraying power of the nozzles also help prevent hot machine parts from warping. The protection concept and its low-pressure fine-spray technology, reportedly with VdS and FM approval, is said to have proved its reliability in many presses worldwide. (Photos available)

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Efficient removal of sand from dust flows (147)

One of the new systems to be presented by Pal at the fair will be the company's Desander machine. According to the Italian manufacturers, the idea behind it is to save energy and maintenance costs in the plants by removing the silica and fine pollutants from the dust fraction, which are seen as the real enemy of long-lasting machine operation. Benefits listed on the homepage include a compact layout, very low power consumption, and a lack of required maintenance. As is pointed out, the machine is also incorporated in the company's Cleaning Tower system, a multi-machine installation for effectively cleaning pollutants from recycling chips. This system is claimed to clean even very fine fractions, have a reduced footprint, and feature a reduced absorbed power of 5 to 6 kW/ton. The manufacturers also offer laboratory services for testing and simulating the industrial process to minimize customer investment costs. (Photos available)

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Wood Products and Veneer

Efficient storage and metering of biomass material (35)

As the exhibitors point out, an efficient biomass plant needs effective fuel storage and metering. The Keith Walking Floor systems automate the feeding process, delivering material in a consistent manner and storing it until needed. This reportedly results in decreased jams, virtually no bridging problems, and reduced maintenance. The company's technology has apparently emerged as a versatile solution to fuel handling with its moving floor systems. It is based on hydraulically actuated floor slats and a drive unit. As is explained, the drive unit powers the slats through a four-phase cycle to convey the material. In each of the first three cycles, one-third of the slats move, while the remaining two-thirds remain in place. In the final cycle, all slats move together, conveying the load. While in motion, the floor slats remain horizontal, moving in a forward to backward stroke. Power requirements are said to be low and there is no additional energy needed for load start. Boiler pressure controls the conveying system, which meters the fuel mixture and feeds the boiler. The storage capacity is custom to each facility and can be engineered to hold several days of fuel. (Photos available)

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Electrostatic spray gun with high-grade atomization (21)

Spraymium is a new lightweight gun from Exel with an integrated back control with which the operator can, with one hand, choose among three pre-programmed electrical characteristics. With this control facility, the user can also manage the flow of paint through an adjusting knob. The manufacturers point to the high-quality results with Vortex and Airmix finishes, the ergonomic handling, and the time and paint savings. The device is said to be low in maintenance requirements, robust, and reliable. The company homepage highlights the very good atomization rates and the ease of use thanks to the Spraybox controller and various pre-programmed settings. (Photos available)

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Wood Products and Veneer

Flame-resistant additive for wood panels (91)

Fusoni is a Spanish company specialized in the development and production of release agents for wood panel production with PB (particle board), MDF and HDF (medium- and high-density fiberboard) and OSB (oriented strand board) plywood as well as additives for paper impregnation processes. One of the company's latest developments consists a fire-retardant liquid for MDF, PB and plywood according to the building material class B1 (DIN 4102). The product is reportedly made of inorganic phosphates, free of halogen and bromide, non-corrosive, and with very low formaldehyde (F) emission. In short, as the manufacturers point out, it is environmentally friendly and non-poisoning.

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Foam extinguishing for oil-conveying press areas (109)

The fire protection experts at Minimax note that thermo oil-conveying and hydraulic areas present a special risk due to the fast spreading of flames and the formation of poisonous combustion gases. The most effective fire-protection solution for such danger zones is said to be that of foam extinguishing systems coupled with reliable fire detection technology. As is explained, unlike water, foam is lighter than combustion material such as oil. The foaming option, adjustable from small to very high, is claimed to offer optimal extinguishing for every type of risk. The extinguishing foam cools, smothers, separates, covers, absorbs and suppresses, thus offering first-rate protection against fire re-ignition. The exhibitors claim to be the only manufacturer to offer special stainless-steel sprinklers designed to produce low-expansion foam and extinguish burning liquids. Moreover, perfectly aligned foam components are also available, which can be adapted to individual demands and to the respective fire protection directives in force. (Photos available)

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Wood Products and Veneer

Formaldehyde scavenger for composition board (92)

The Formaldehyde Scavenger from the Spanish company Fusoni is billed as a highly effective water-based product that is able to reduce the formaldehyde emissions in PB (particle board) and MDF (medium-density fiberboard) panels manufactured with UF (Urea-Formaldehyde) and MUF (Melamine-Urea Formaldehyde) resin. According to the manufacturers, who specialize in release agents and wood impregnation additives, the product will not affect production speed and will not modify the mechanical properties of the board. According to further details in the Internet, it also serves to improve the water-resistance and stability of the resin and enhances the prepress for non-wood-based panel.

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Integral fire detection management system (106)

Minimax will be showing how their Win-Guard is a clear and user-friendly system for visualizing and operating hazard detection systems. The solution is deemed particularly appropriate in production and in industrial plants with expansive, complex building structures. It reportedly offers optimum control and monitoring options, which are also possible via the Internet. Events from the fire detection and control system, such as alarms or faults, activate corresponding messages in the system and launch pre-defined machining sequences. The operator is provided with comprehensive information and assistance as regards the individual messages. Through specific texts about recommended measures, the user is also supported in carrying out the steps required in the event of an alarm. In addition, detector maintenance intervals can be established and linked with automatic measure requests. As a result, the fire detection visualization system is seen as the ideal complement for the company's extinguishing systems and thus represents an important element in a comprehensive fire protection concept. (Photos available)

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Wood Products and Veneer

Module combines fire detection and extinguishing (105)

The FMZ 5000 Reflex module from the German fire protection specialists at Minimax is billed as uniting fire detection and spark extinguishing systems. As is explained, spark recognition and the activated extinguishing process are both reflex-type reactions and there are just two milliseconds between detection and extinguishing activation. Used in connection with the company's spark detectors, automatic extinguishers and flat jet nozzles, even very short pipes can apparently be protected at high transport speeds. Thanks to flexible control programming, whether through a pre-determinable spark count or the spark count over a specific time period, high-risk areas or deteriorating production processes can be identified based on an increased amount of flying sparks. This serves to enable the implementation of direct and focused machine reactions. All parts of the module are reportedly approved in accordance with latest EMV requirements and also have VdS and FM certification. Existing systems can be fitted with the module to provide the highest safety levels for pneumatic conveyor systems and a cost-effective alternative to standard, separately operating systems. (Photos available)

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Powder-coating lines for wood-based panels (23)

Powtec will be showing their latest powder-coating lines for wood-based panels. As the exhibitors assert, the transfer of modern powder-coating technology from metals to the wood-based panels industry is the latest development in the sector. With an emphasis on green development, the company will be presenting a mature concept without solvent and no HAP (Hazardous Air Pollutant) emissions. As is reported, highly robust and hard-wearing surfaces are uniformly coated to the edges and only one to two coating processes per panel are necessary with only a small loss of the coating medium. A thermal post-combustion is apparently not needed. A wide range of lacquer such as RAL, NCS, metal effects or individual color specifications is offered. The coating line is available as a compact unit for smaller parts or as a larger unit for flexible application. (Photos available)

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Release agent for MDI and PMDI resins (93)

Fusoni produces release agents for wood panel production and additives for paper impregnation processes. One of the latest developments on show from the Spanish company will be their OSB Release Agent for OSB (oriented strand board) panels or MDF (medium-density fiberboard) with isocyanate. It has apparently been specially formulated for MDI (diphenylmethane diisocyanate) and PMDI (polymeric diphenylmethane diisocyanate) resins. According to the homepage, it does not contain substances that could negatively interfere with the final appearance of the board. As the manufacturers also point out, the advantages of the product are that it avoids sticking to the press and helps to keep the press plates and the belt clean.

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Release agents with moisturizing properties (94)

Fusoni will be explaining the benefits of new MDF (medium-density fiberboard), PB (particle board) and plywood release agents they have developed. The products have moisturizing properties for use with phenol or urea-formaldehyde resins in continuous and daylight presses. Key advantages are seen in lower production costs, very good release characteristics with no sticking in the press, increased line speed and capacity thanks to a decrease in the press factor, reduced sanding of the finished products, and the need for less paint. In addition, the Spanish company promises better board properties, a smoother and denser upper surface, a surface with closed pores, and a more uniform curing that prevents the board from breaking.

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Wood Products and Veneer

Servo controller with FPGA technology (84)

With its new generation of easily configurable E-Darc drives, Ferrocontrol claims to be providing the machine builder with a more accurate and faster drive controller in comparison with other available solutions that allows users to employ their own algorithms. The device is apparently distinguished in that the entire control system is configured in parallel structures on a FPGA (Field Programmable Gate Array), or as the company puts it, cast in the VHSIC hardware description language (VHDL). This quasi-analogous design is said to yield maximized dynamics for the position and speed control. In addition, oversampling methods for the position and current measuring value recording serve to improve the control quality. Optimized solutions and integration are achieved through the Open Motion Controller Platform (PMCP), a large variety of encoder modules and an open fieldbus concept, paired with convenient maintenance and pluggable SD cards for the firmware and parameter blocks. The manufacturers further highlight the Safety modules for certified technical safety in accordance with performance levels d and e, reportedly meeting the new machine directive according to EN ISO 13849-1. (Photos available)

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Single machine removes all metals from wood chips (148)

The Metal Killer is the name of a new compact machine from Pal that is said to effectively replace all the old equipment for metal removal. The machine reportedly features very low power consumption and mechanically separates all kinds of metals, such as iron, stainless steel, aluminum, copper, and brass, from the wood chips flow in a single stage. The innovation is claimed to lie in the removal of all kinds of metals with one machine, instead of the one machine for each metal required in the past. As is pointed out, the machine is also incorporated in the company's Cleaning Tower system, a multi-machine installation for effectively cleaning pollutants from recycling chips. This system is claimed to clean even very fine fractions, have a reduced footprint, and feature a reduced absorbed power of 5 to 6 kW/ton. The manufacturers also offer laboratory services for testing and simulating the industrial process to minimize customer investment costs. (Photos available)

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User-friendly electronic dosing machine (20)

The new PU 3000 electronic dosing machine from Exel is billed as an innovative and economical ready-to-use solution that combines electronic control and mechanical metering. The user-friendly control box reportedly allows the operator to intuitively learn how to operate the machine. The patented Free Pulse Electronic (FPE) pump change-over technology is claimed to achieve a constant output level and a metering accuracy of plus/minus two percent to yield an outstanding finish and, as the exhibitors add, to give the operator peace of mind. The electronic dosing constantly monitors the actual material consumption of the products and calculates the VOC (Volatile Organic Compound) level. The machine can apparently also be installed in an Atex 1 or 2 Zone so as to be in close proximity to the operator. As the German developers report, the solution is available in HTi, HPA, HTV, Airmix and Airless versions to meet a variety of markets requirements. (Photos available)

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Hall: 020, Stand C06

Vacuum gripper for lightweight wooden plates (63)

Fluidtechnik Bückeberg plan to showcase the latest version of the Unigripper. The machine is equipped with a patented valve system that serves to activate the vacuum only in the areas that are covered by products. As the German manufacturers explain its functioning, the vacuum is created by a side channel blower or pneumatic vacuum generators. The flexible suction foam is attached to a quick-change carrier plate for easier and quicker maintenance. The new gripper for lightweight plates is based on this technology and specially optimized to fit the products. The gripper handles the plates from the opened side and turns them through 180 degrees. In a next step, the machine then places the cover on the plate. These types of lightweight plates are mostly used for producing low-cost doors. The machine is seen as an optimal choice for flexible, economical handling tasks in the woodworking industry.

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Vacuum gripper for the wood industry (62)

Fluidtechnik Bückeberg announces the forthcoming presentation of the Timber-Gripper. Described as groundbreaking, the machine was apparently invented in 1996 and is equipped with a patented valve system that serves to activate the vacuum only in the areas that are covered by a product. The vacuum is created by a side channel blower or pneumatic vacuum generators. The flexible suction foam is attached to a quick-change carrier plate for easier and quicker maintenance. As is explained, the solution is specially optimized for the tough environment of wood handling. The gripper is protected by a special dust filter and features a robust design with a powerful reverse blow system. The new development is also available with a separating function that lifts sheets and boards from a stack. These various advantages are claimed to provide an ideal handling solution for the woodworking and wood processing industry.

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Handwerk, Holz & mehr - Woodcrafts

Automatic point-to-point, through-feed NC borer (152)

According to Maggi Engineering, the Boring System 800S Evolution has been designed for maximum productivity and flexibility, which is seen as very helpful when working panels are frequently changed. Drilling is carried out from underneath to ensure very high accuracy and optimal panel care. The multi-spindle head unit has been conceived to satisfy any boring requirement, both horizontal and vertical, and to process the working panels on five sides. The unit comprises nine vertical spindles, three horizontal boring aggregates, and a grooving saw blade. The automatic panel-feeding system is very sturdy thanks to its pneumatic double-clamp unit. Panel charging and discharging can take place at the front or in a continuous-working cycle. As is stressed, there is no limit to the panel length. In addition, flexible software management is performed via a color touchscreen control panel on the machine or via PC remote control. Boring programs, tool and job lists can reportedly be recorded and selected easily. The machine structure is made of tooled and welded steel and the through-feeding system is based on dust-free sliding blocks on re-circulation ball bearing guides. (Photos available)

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Certified wood designer in only one year (150)

The Technical College for Wood Engineering and Design (HGH) in Hildesheim draws attention to one of its courses. If a student is already a certified wood engineer, or has an equivalent qualification, the college offers the possibility of becoming a certified wood designer with the main focus on object design in only one year. As is emphasized, a precondition for the one-year training course, which has apparently been offered in Hildesheim for ten years now, is the appropriate preliminary qualification from a German university of applied sciences or a recognized college outside Germany. According to the homepage, the core subjects taught are design, construction, the history of design, and the study of color and form.

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Hall: 016, Stand C09

Closed halving joint cutter with three saw blades (78)

The KSF-Mini is headlined by Stegherr as the ideal small cross bar milling machine for all the usual cross joints. Even already profiled bars can apparently be milled quickly and accurately with the machine. According to the Bavarian manufacturers, the milling precision is achieved through a unique design in which all three cuts are carried out in one single clamping. Thanks to its good value for money, the closed halving joint cutter is seen as an ideal machine for companies that are not currently processing cross joints. The machine offers simple, easy and safe handling even for the untrained operator and is suitable for single and small series production. (Photos available)

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CNC machine data included in the design drawings (58)

Marvin-CAD is an application module developed for Auto-CAD LT from version 2000 onwards and reportedly provides support in the process of design and construction through many functions especially tailored to woodworking. The features reportedly make it possible to already incorporate the technology data of CNC machines, such as tools, in the actual design drawings. The new five-axis option, which is particularly highlighted by the developers, is an extension of the functions Determine Milling Values and Groove (Saw Cut). In the special dialogs that can be reached through the button 3D, the input of values for inclined tools is said to be made easier. As the manufacturers add, the dialogs fill out the extended element data accordingly and still calculate possible lateral offsets. (Photos available)

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CNC programming solution for windows and doors (57)

As part of its NC-Studio programming system for NC machines, Cad Line will be explaining how easily window, door, and especially conservatory production can be carried out on CNC machines. The specialists for CNC integration say that they professionally connect construction programs like Klaes, Adulo, Pro-Logic and 3E with CNC machines from noted manufacturers. The solution is claimed to be very easy to use and highly flexible, with options for straight, inclined and round windows and doors. It is also said to be powerful enough to embrace machines with three, four or five axes, with single-part, twin-part or complete table loading, and with the optimization of milling results. The application is also described as easy to extend with additional profile systems, leaf doors, furniture, CAD import, and connection to PPS production planning systems. As the exhibitors from Germany stress, this distinguishes their development from the competition in that new profile systems can be added and maintained by the users themselves. Simple interventions for the post-production of individual parts are also possible. (Photos available)

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Complete machining center for doors and windows (2)

The newest machining center from CML in Italy has been designed to provide a machine that carries out all operations required to build a window or door. According to the exhibitors, it utilizes the latest technology and has a very small footprint. The Helios machining center has a heavy-duty frame with a movable gantry to increase the mechanical rigidity of the unit and give it a very high dynamic performance free of vibrations. The table holds the pieces during all the different work phases. Two rows of rotary pneumatic clamps, with a clamping force adjustable by regulator, are integrated in the table and clasp the pieces from the top during machining, keeping them aligned to a lateral reference. The boring and milling section comprises three or four working units, which are all CNC-controlled and have independent tool magazines housing up to sixteen tools each. Motors can operate at the same time on the pieces to exploit the function of tools splitting and minimize the total number of tools. The center carries out tasks from tenoning, profiling, drilling and routing through to dowel insertion. The modular system can be upgraded as needed to achieve higher capacities. (Photos available)

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Hall: 012, Stand E29

Coordinate measurement tool and point projector (24)

According to the exhibitors from SL-Laser, no manufacturer can afford the time-consuming and inaccurate measurements associated with traditional point collection methods. The company's Pro-Collector is claimed to provide the user with fast data acquisition without mistakes due to inaccurate measures and transposed digits while writing the data. With the help of self-leveling laser multi-pointers, users can define the horizontal measuring plane and select a measuring point via the clearly visible laser beam. The point is automatically collected and saved. Two measuring points per area are said to be enough. The devices operate in a wireless fashion with the easily handled Pro-Commanders, which are robust and mobile system with an operating time of eight hours. The graphical user interface displays the measuring points, which can be moved to using the embedded joystick or hand wheel. The finished drawing can be saved as a DXF-file and is ready to use for further processing in a CAD program. In addition, a created CAD drawing or each drawing from a CAD system can be projected onto a workpiece or building. (Photos available)

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Hall: 026, Stand D57/1

Counter-rotating milling of windows and doors (76)

The KF Coping Center is described by Stegherr in Bavaria as a machining center for the cutting to length, coping and drilling of casement and frame profiles. According to its manufacturers, the machine ensures absolutely tear-free end-scribing by means of two HSK 63 counter-rotating milling spindles that can hold up to three tooling sets. With the center, it is apparently possible to carry out all the drilling operations for screws and dowels, including those for spacer blocks. Automatic glue injection and dowel insertion are also available as options. As is explained, the long-side profiled stock is cut to length by means of a cross-cut saw. To enable a fully automatic processing of window casements and frames without change-over times, the machine can be provided with a tool changer that can house two or more tooling sets. The machine output is given as up to 60 casements and frames per shift. Moreover, the new user-friendly software ensures easy operation in both manual and online modes. (Photos available)

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Cross-joint milling in wood, plastics or aluminum (77)

The latest KSF-2/E cross-joint milling machine on show from the Bavarian manufacturers Stegherr can be fitted with up to eight work stations. In addition to the classic cross joint, the machine can reportedly perform operations like the end-scribing of SDL bars in a tear-free fashion by means of two counter-coating cutter heads, the cutting to length of sash bars, glazing bars and frames, and the drilling of fastening holes for fixing glazing bars onto frames. As is also stressed, the equipment can be provided with adequate workpiece in-feed and out-feed devices for both automatic and semi-automatic operation. In addition, a new machine control is said to ensure easy operation in manual and online modes alike. The connection of a laser or inkjet printer for marking the workpieces, either directly or with labels, is another possible option. (Photos available)

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Dowell drill quick-change system reduces downtimes (79)

The latest quick-change technology from Fisch is said to obtain more power out of a dowel drilling machine and ensure a higher degree of accuracy. According to the exhibitors, the system has a minimum number of interfaces in comparison with conventional systems while simultaneously offering maximum stability during drilling jobs. Apparently, there is no more need for screws and Allen keys. The advantages are said to be that changing the drill bit is remarkably fast, the setup time for machines and downtimes are reduced, the drilling quality is very high due to optimal system stability, and safety is enhanced. The technology is seen as suitable for high-torque applications. There are reportedly more than six different standard reduction chucks to select from as determined by customer specifications. (Photos available)

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Hall: 011, Stand F24

Dynamic collision monitoring for complex production (130)

According to Technowood, their new DCD-TW dynamic collision monitoring system serves to protect cost-intensive production plants, reduce stoppage times, save on test runs, and relieve the machine operator. It reportedly offers comprehensive simulation for machine and manufacturing installations. The system combines behavioral, kinematic and dynamic simulations as well as collision observations. Operation is conducted either on the control itself or on a second computer system. As the exhibitors explain, the objects to be moved are linked with the position and track preparation information of the control. As a result, impending collisions can be safely stopped before they occur. If collision-monitored parts fall below a certain distance relative to each other, a warning or an error message is given out that stops the positioning paths. The machine operator is shown which parts of the plant are on a collision course. As is claimed, no simulation or collision observation can be closer to reality. (Photos available)

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Hall: 016, Stand F09

Especially fast and accurate profile change system (18)

The exhibitors from Prewi promise the world's fastest tool change. Their PWS is billed as an innovative profile change system that sets new standards in tool adjustments in machines in the flooring industry, in the furniture industry, and in machines for skirting boards. As the developers insist, profile adjustments that in the past may have cost many hours of downtime can now be accomplished in a fraction of the time, regardless of the machine type. Existing machines are also served. The system is not only fast but also simple to use and reportedly saves time and costs for material wasted on setup pieces. The solution is professionally installed at the machine by the company's technicians. It includes a high-precision camera with a highly accurate lens, camera-mounting stations at each motor, the software, and a laptop. For safe and dust-free storage, the solution is delivered in a special carrying case. The desired profile can be viewed on a control monitor and the camera is installed on the mounting station with accurate laser technology. Faster and more accurate adjusting of tools for increased flexibility is the main advantage summarized by the German developers. (Photos available)

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Hall: 026, Stand A30

Helical cutter head for smooth surface finishes (136)

Super Source Tooling is a Chinese manufacturer specialized in molder knives and cutter heads. The company will be spotlighting its Superhelic helical cutter head, which has been designed to produce a perfect finishing cut. The machine is seen as ideal for the surfacing and planning of solid woods that demand a superior finishing surface. With the non-segmented, corrugated, back-twisted carbide blade, the cutter is apparently able to conduct a continuous and smooth cut without interruption. This greatly reduces the tear-outs in hard wood and in cross-grained and knotty material. As is also pointed out, a single continuous helical cutting edge also leads to a considerable reduction in noise and power consumption. (Photos available)

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Improved wave cutter with reduced friction (80)

The wave cutter from Fisch is said to have optimized. According to the exhibitors, the new improved Evolution line replaces the current product at the same price. The Austrian exhibitors draw attention to the special steel material, the forged cutter head, and the CNC precision grinding. Diameters are specified as from 15 to 68 mm cylinder shank or 15 to 35 mm Bit. The central point and two cutters as well as the proprietary cylindrical grinding have apparently been registered as a patent. The company also highlights the two shanks for selection, namely a cylindrical shank and a hexagonal shank for Bit according to DIN 3126 for Bit adapters. Particular suitability is seen in applications for hard and soft wood, coated chip board, as well as MDF (medium-density fiberboard) plates. Further merits are listed as the reduced friction due to a 25 percent increase in rotation speed, leading to faster drilling and a greater number of holes over the same time period, the exact running with point contact of cutting on the material, the optimized drill geometry, and the improved chip removal with the chips directed inwards. The machine can apparently be re-sharpened up to 30 times. (Photos available)

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Innovation center promotes customized solutions (16)

The affiliated companies Imos and Prewi will be reporting on the advantages of their innovation center opened in the summer of 2008. Whereas Imos develops and distributes software for the design and production of furniture and interior elements, Prewi specializes in the development and production of tooling for the laminate, parquet and furniture industry. The innovation center reportedly promotes research and development for customized solutions. The self-professed aim of both companies is to develop solutions hand-in-hand with customers. The customer can reportedly make use of machinery in the center for test runs when developing new products. In addition, various individual schooling programs help customers learn about the professional use of tooling and peripheral equipment. Modern presentation facilities and a communicative counter area are said to create optimal conditions. Thanks to the project, carpenters, interior designers, plant managers, engineers and students throughout the world can experience how planning, engineering, the generation of parts lists, machine controlling and optimized tool use can be effectively implemented in modern production. (Photos available)

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Miter saw with servo-controlled angle adjustment (75)

The GLS NC miter saw with servo-controlled angle adjustment in two planes from Stegherr can apparently miter-cut glass strips, water drainage channels, or similar profiles of wood, aluminum or PVC at any angle between +45° and -45°. The cutter heads are positioned over servo-axes at the angle stored in the machine program. The speed adjustment of the working stroke is conducted via the servo axis. As the manufacturers explain, the accurate positioning of the workpieces is carried out by an NC pusher. The machine can be upgraded to fully automatic operation by mounting customized workpiece conveyors. The operator-friendly machine program for easy operation in manual and online modes is also highlighted. (Photos available)

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NC machining center for windows and doors (74)

Stegherr will be presenting their FD-E3 NC machining center for drilling, milling and dowelling in the manufacture of windows and doors. The profiled components are processed in one passage on all six sides on the machine. The standard center has four servo-controlled axes so that it can reportedly accommodate any drilling and milling patterns. As a result of the flexible configuration of the machine modules, a customized version of the machinery can be supplied. As the manufacturers point out, depending on the jobs to be performed, the milling and drilling units can be mounted vertically or horizontally. The machine is suitable for operations such as the drilling of dowel holes, gluing and dowel insertion, drilling for metal fittings and hinges, drilling for concealed hinges and olives, milling for lock cases and striker plates, and special milling and drilling jobs. It can also be provided with adequate workpiece in-feed and out-feed devices for automatic or semi-automatic operation. The new control is said to ensure easy operation, both in manual and online modes. The connection of a laser, inkjet or label printer for marking the workpieces is also feasible. (Photos available)

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Nesting solutions for profitable CNC machine use (59)

Cad Line will be presenting their solutions for nesting, a much-used technique nowadays to collate order-specific production batches with optimized cutting waste. According to the company, there are generally two methods of resolution for nesting. The first is the nesting of free-form parts, which is mostly used in framework applications. Free-form nesting is also very prevalent with plastic components and in cases where the material price is essential. The second type, furniture nesting, is said to be prevalent abroad. With increasingly higher-quality fittings, furniture nesting has apparently become an issue in Germany as well. As is explained, nesting is mostly selected for two reasons. Firstly, when there is no room for a panel and a CNC machine. The second reason is to save wages and time since machine speeds are possible with modern CNC machines that were impossible to reach in the past. Whichever solution is chosen, the exhibitors are confident that they are the right partner for nesting and the profitable use of CNC machinery. (Photos available)

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Powerful extruder for wood-plastic composites (9)

With the new Fiberex twin-vent A135-37D, Cincinnati will be presenting what they call a very powerful machine concept for processing wood-plastic composites (WPC). The parallel twin-screw extruder with a twin-degassing system and a 37 D processing unit is claimed to be the longest counter-rotating extruder for WPC processing currently on the market. With its special Fiberex screw design and maintenance-free Intracool screw tempering, the plasticizing unit reportedly ensures gentle plasticizing and optimal homogenization. Two active degassing units, each equipped with a vacuum pump and a double filter for in-production purification, effectively remove moisture from the processing zone. Thanks to different inserts, the geometry of the degassing vents can be flexibly adjusted to any given compound. Materials to be processed include ready-made blends of WPC compounds and agglomerates based on PVC, PE or PP, as well as grinding stock from production, even with relatively high moisture content. With an output of up to 1,000 kg/h, the extruder is seen as the right piece of equipment to meet the modern demands of WPC profile manufacturers for high output with optimal melt quality. (Photos available)

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Handwerk, Holz & mehr - Woodcrafts

Hall: 022, Stand A19

Programming surface for NC-controlled machines (56)

Cad Line presents its NC-Studio software as an efficient and flexible programming system suitable for operations like parametric programming, lines of holes, and light sectors. It is also seen as appropriate for programming complicated special forms such as round arch windows, counters, and toys. The solution is said to enable users to automate, accelerate and simplify their preparation work since they can see immediately what they have programmed and can minimize or avoid programming errors. The extensive macro packages, for instance for door and window manufacturing, can also be tailored to specific customer needs. (Photos available)

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Quick-drying primer for air- and wind-tight bonds (89)

The Swiss adhesive manufacturer Siga has developed an optimal solution for the airtight and wind-tight bonding of component joints. With its high-performance primer called Dockskin, even difficult parts can apparently be sealed effortlessly, and above all durably. The new product is seen as particularly suitable for joints on roughly-cut wood or sandy plaster. It reportedly stands out from other solutions on the market thanks to its simple application, functionality and durability. First of all, the primer is applied to the corresponding substrate, such as matured timber, but also stone, concrete, gypsum fiberboard or cement fiberboard. This serves to reinforce the sandy or fibrous substrates. After that, overlaps or penetrations are sealed airtight or wind-tight with the adhesive tape specifically for the purpose. The primer and adhesive tapes are claimed to complement each other perfectly. According to the manufacturers, the development manifests very good adhesive properties, is solvent-free, yet can still be applied on cold substrates starting at -10°C. The high penetration qualities and the quick drying times are also highlighted.

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Relaxed fair pavilion shows versatility of wood use (120)

Woodpolis says it invests in energy-efficient housing and new wood construction developments and also offers an up-to-date learning environment for educational organizations in Finland. The company will be installing a special pavilion at the fair, the basic idea of which is to offer a place for visitors to calm down and relax. The pavilion is apparently conceived as a metaphorical image of Finnish nature. As is explained, the final shape of the structure will be based on the topology of a small opening in the forest. The wooden structure filters the incoming light and reportedly creates an atmosphere reminiscent of a Finnish forest. In the words of the exhibitors, the structure will be created with algorithms and be based on the Lindenmayer L-system that simulates the growth of plants and trees. The ultimate goal of the project is to show the versatility of how wood can be used.

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Robust shredder in an enhanced jubilee version (113)

Weima Maschinenbau is celebrating 20 years of market presence for its WL4 series of single-shaft shredders by presenting a jubilee machine at the fair with enhanced optimization. The robust shredder is used in the woodworking industry to shred wood materials such as surplus chipboard, medium density fiberboard (MDF) and solid wood as well as very hard woods. The shredded chips produced are normally used as fuel or made into briquettes. The new machine is equipped with an enhanced rotor with 28 rotor blades. Together with an increased rotation speed of up to 110 rpm, a significantly higher throughput is now said to be possible. Depending on particle size and type of material, 2 to 3 m³/h can reportedly be achieved. As is explained, the material intake takes place via a hopper, which is offered in nine task-specific shapes. The material is shredded between the rotor and stator blades and delivered via a screen located underneath the rotor. The rotor has working width of 600 mm and a diameter of 252 mm. The power rating is either 11.15 or 18.5 kW. The square, reversible rotor blades have a concave shape and an edge length of 40 mm. (Photos available)

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Handwerk, Holz & mehr - Woodcrafts

Hall: 011, Stand D60

Single-end tenoner systems with two and three heads (141)

Two of the latest products that Union-One Machinery in Taiwan will be bringing to the fair are the SETM-2HD and SETM-3HD two- and three-head single-end tenoner machines. As special distinguishing features, the manufacturers single out the steel base, the foot-kick emergency stop switch, the aluminum cutter heads, and the optional puller so that the cutter head can be removed more easily. According to the homepage, the two versions of the tenon-cutting machines come in single- or three-phase variants, both have dimensions of 1,320x1,020x1,560 mm, and weigh 420 or 470 kg. The table size is given as 800x310 mm in each case. (Photos available)

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Hall: 015, Stand G35

Small-element production for prefabricated houses (96)

Randek Bautech is a Swedish specialist for house production and automation technologies. The latest in-house development has apparently targeted the small element system. As is explained, house fabrication according to the small element principle has a number of advantages. The main advantage is singled out as economy, whereby very high capacity can reportedly be achieved with a limited working staff and in a limited production space using the production lines provided by the exhibitors. These systems are claimed to yield the highest productivity figures available. Other benefits are seen in the possibility of producing to stock. The erection of the house can be carried out without a crane and the transport is said to be easier in case a bad infrastructure exists. The main idea is that small elements are efficiently and automatically produced in the factory and the elements can then be combined into an almost limitless number of house types. The company specifies a capacity of 25 to 30 elements per hour, amounting to 1,000 houses a year with an eight-hour shift of three to four operators in a production area covering 40x15 m². (Photos available)

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Hall: 016, Stand E02

Software module for building newel staircases (85)

Compass Software will be presenting their new module for newel (spiral) staircases at the fair. With this option, which is completely integrated into the company's ND (New Dimension) software solution for staircase manufacturing, users can construct standard newel staircases as well as build any kind of ground-plan variation in the form of a newel staircase. As is pointed out, the newel must not necessarily be positioned in the center and the outer contour can be any kind of polygon. There are many different types, such as closed with offside stringer, open with offside stringer, treads connected with bolts, and wall bolts. According to the German developers, that means that all the variations that are currently available for normal staircases are feasible. In addition, builders can construct the newel staircases with a straight entrance or exit tread. Bullnose treads are also said to be possible. (Photos available)

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Sorting and stacking system for smaller sawmills (129)

The ST4 sorting and stacking system has been newly included in the Technowood product range. The flexible system has been specially designed for small and midsize enterprises and can reportedly already be operated highly economically starting at 7,000 cubic meters of annual cut. As the company explains, boards that have been freshly cut have to be sorted and stacked as quickly as possible according to their dimensions. The solution being presented has been conceived to do that. Even the stacking bars between the individual layers are apparently positioned fully automatically. In the stacking library, the operator can freely select the sorting criteria, the stack construction, and the number of stacks. The system reports when a drying stack is full and can be fed directly into the drying plant. It consists of three units, the board stacker, the stack bar placer, and the measuring station. These three elements work in parallel and are synchronized via the multi-channel control. This is said to represent a versatile and economical solution that does not exceed the budget of a smaller sawmill either. (Photos available)

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Technology for producing wooden doors and windows (50)

Working Process claims to have already revolutionized the method of manufacturing frames by introducing its 4P concept, which stands for pre-finished, pre-milled, pre-sized, and prepared. Thanks to constant research and development, the principle of specialization within specialization, the use of the most advanced technology available, and the high qualification of its technicians, the company insists that it provides a range of machining centers that meet customer requirements in terms of both cost and performance. The daily production rate is said to range from a minimum of seven to a maximum of 100 windows. The Logos SCH 2008 is especially singled out with its highly advanced technology, its superior performance, flexibility and accuracy, and a production rate specified as 40 finished windows and 480 elements during an eight-hour day. The homepage lists the operations that can be performed as planing, sanding and all the machining steps from tenoning to profiling, gluing and assembling. The Italian manufacturers add that ten units have been sold already, with the first unit having been delivered in January 2009. (Photos available)

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Tilting arbor table saws with cast-iron trunnion (142)

Union-One Machinery will be showcasing the TSCE-400R and 450R machines. These are tilting arbor table saws with a cast-iron inside trunnion and with a foot-kick emergency stop switch. The exhibitors also draw attention to the patented quick-change and bevel adjustment riving knife system, the arbor lock for changing the saw blade, and the optional digital readout for the tilting angle. Further details on the homepage specify a blade diameter for the two models of 400 and 450 mm, an arbor diameter of 30 mm, and a table height of 850 mm. The arbor speed is given as 3,000 and 3,100 rpm respectively. (Photos available)

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Two-blade saw for large-scale timber processing (97)

Randek Bautech in Sweden will be introducing the DC 600, a new cutting saw designed for large-scale timber processing for house and roof truss manufacturing as well as for wood processing in sawmills. As the company explains, since the machine has two saw blades that work on two different workpieces at the same time or in parallel on one workpiece, the total processing time has been drastically reduced. To avoid waste, a built-in optimization function is incorporated for the timber input. With its 21 independent axes, the system is billed as highly flexible and efficient. The milling cutter in the device handles the more complex processes. The timber input is carried out crossways, which is said to be beneficial in terms of saving space. The cutting process is CNC-controlled and the machine can reportedly be connected easily to an existing network. In addition, a range of peripheral equipment can also be fitted, such as de-stacker and stacker units. (Photos available)

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Versatile vapor control layer for three uses (88)

The adhesive professionals at Siga have developed a new vapor control layer. With Majpell, the Swiss manufacturer says it has become a system provider and is thus responding to the wishes of many contractors who want to have everything available from a single source. The easy-to-use and universally applicable vapor control layer has three different uses. It is apparently suitable for between-rafter and above-rafter insulations as well as for renovation work from the outside. Together with the company's established high-performance adhesives, the material is said to ensure durably airtight building envelopes in roof, wall and ceiling structures. However, with its adhesive products, the exhibitors point out that they still guarantee the lasting bonding of all commercially available membranes. This capability is reportedly possible because the family business has its own research laboratory and continually checks all membranes in a so-called early warning system. An open system is provided as a result. (Photos available)

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Furniture Industry

Furniture Industry

Automated cold-gluing and lamination systems (216)

With their range of clamp carrier machines, Juan Nan will be presenting a complete line of automated, room-temperature cold-gluing and lamination systems. As the company explains, the joints are dried naturally to achieve a maximum-strength bond. The clamp carriers are described as highly versatile and reliable edge-gluing machines for the woodworking industry, which are deployed for gluing laminate board, parquet, flat stock, table tops, truck floorings, turnings, chair seats, and Queen Anne legs. They include zinc-plated, full box-frame clamps, pneumatic clamp tightening units, pneumatic panel flatteners, and electrical motor drives with automatic rotation cycles. A chain drives the clamp section rotational movement. The clamp mounting fixtures are adjustable so that the mounting angle and axial position of each clamp can be fine-turned, which allows easy side-to-side repositioning for changing panel lengths. In addition, the modular design enables capacity to be expanded as required. The clamp carriers are available in widths of 1,830, 2,540, 3,000, 3,800 or 5,000 mm and with six, eight, ten, fourteen, twenty, thirty or forty sections. (Photos available)

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Automated storage system with multi-item handling (110)

Cassioli, an Italian company that offers a wide range of plant engineering solutions, will be highlighting what it calls an exclusive automatic storage system. The Fast (Furniture Automatic Storage) system is claimed to represent a genuine innovation in the sector, with a new holding device and a sophisticated operational methodology allowing for performances unobtainable with traditional stacker crane systems. As is explained, in comparison with pallet warehouses, the solution does away with the need for stacking objects on pallets and successively singling them out. Moreover, as opposed to stacker cranes that are capable of handling only one object at a time, it can handle many objects simultaneously, in the areas of both storage and retrieval, and can thus significantly reduce the total stacker crane workload. In addition, in contrast to conventional grouping warehouses, the storage system allows the storing of totally random objects by article and a subsequent issuing that is grouped according to customer orders. A final benefit is seen in the fact that it can handle very different object sizes within the same group. (Photos available)

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Hall: 024, Stand B05

Automatic in-line sprayer for water-based paint (188)

The FPC 4 spraying machine will be highlighted by Makor as a system for spraying water-based products on moldings, picture frames, match-boards, and door and furniture components. The machine operates automatically and in-line and incorporates a self-cleaning belt. It has reportedly been realized to handle workpieces up to 280 mm in length with high paint recovery in compliance with current anti-pollution requirements and directives governing working area safety. The spraying machine features a pull-out cart complete with pump and guns. Other extractable carts can be supplied on request. The cart is very easy to remove thanks to the quick piping connections that also minimize the product switch time. The spraying adjusters are located on the upper side of the chamber for easy reach. In addition, the belt cleaning system is equipped with a large vat and can be easily removed for maintenance without risking leakages. The cleaning system incorporates product recovery scrapers for a total collection of the paint and pneumatic scrapers for drying. The filtering chamber has a side opening that is easy to access and allows machine positioning close to the wall to save room.

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Furniture Industry

Automatic, integrated finger jointing line (220)

The automatic finger jointing line is an integrated on-line system to perform the shaping, gluing, jointing and outfeed of the wood pieces. As the company describes the process and the various units, the wood stock is assembled on the ACP-1165 stock feed table and pushed into position on the ACP-1160A shaper table, where it is aligned and clamped before travelling through the cutter head. The finger shaper comprises the cut-off trimming saw with chip breaker, down-scoring saw, and shaper. As is pointed out, its tables feature high-precision liner motion guides. The stock is then moved to the ACP-1160B-G shaper table, where it is again aligned and clamped, and then moved for another end cut and gluing operation. Finally, it is pushed to the ACP-1162F finger joint assembler. This unit has a two deck working function, which allows constant feeding while the working area continues to carry out the assembly. A key merit of the line is seen as lying in the adjustable squeezing pressure depending on the stock type and dimensions. Moreover, effective workpiece feeding is conducted by a pre-jointing conveyor table and an air reservoir ensures the stable motion of the air systems. (Photos available)

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Automatic optical inspection of furniture edges (124)

Baumer reports that it has revised and enhanced its Colour Brain Edge product line. The company will be introducing a complete module line for the automatic optical inspection of laminated furniture edges, for the control of lacquered bevels, and for the inspection of profiled flooring boards. Various illumination modules as well as a miniaturized camera are integrated into the new compact inspection head with a width in the feed direction of only 80 mm. With this system, the smallest damage and minimal cracking on all kinds of laminated edges is said to be reliably detected. As is explained, the cameras for the automatic inspection are placed directly in the continuous processing machine and their installation requires only minimal mechanical effort. Camera systems are offered for post-forming and for PVC or laminated edges. The exhibitors stress that more than 50 of their systems are currently operating in flooring and furniture production lines across the globe. (Photos available)

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Furniture Industry

Automatic visual inspection for small lot sizes (123)

According to Baumer Inspection, in the inspection of every single furniture element at the end of the production line, the central focus lies in the management of very small production lots down to the lot size one. The furniture elements that have to be controlled constantly change with regard to decor, outer contour, or drilling hole. An effective automatic optical control has to update all the inspection parameters in time with the edge production line, without manual intervention from the user. The company will be presenting a system for the complete control of furniture elements with a fast change of outer contours and formats. As is explained, the solution carries out a double-side inspection during production, the control of all four edges in the edge banding machine, and the product measurement of width, length and angularity. Thanks to a linear axis system, the inspection machine can adjust automatically to the individual board thickness. At the fair, the detection of minimal surface and edge defects in furniture elements as well as measurement in a wide range of decors will be demonstrated. (Photos available)

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Complete door factory within 20 square meters (149)

Essepigi in Italy announce the forthcoming presentation of a multifunction machine able to carry out all the process stages required to produce a door, both the door leaf (panel) and the door frame. Horizon Plus can reportedly produce around 200 complete door frames (with three pieces) per day or insert hardware on 140 panels with hinges per day, with only one single operator. Thanks to the PC-controlled operation, the machine is said to offer great flexibility that allows effective working to order. The passage of the piece through only one machine is seen as more advantageous than processing on several machines. Benefits include a significant reduction of overall dimensions, less manpower costs, a shorter delivery time for both standard and special sizes, fewer damaged materials, and fewer errors. As is explained, the solution automatically executes the cutting, boring and milling operations, whereby the loading and unloading of the workpiece can be either manual or automatic. (Photos available)

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Hall: 025, Stand C59

Digital position indicator in compact size (164)

A key advantage of the AP04 absolute position indicator from Siko is seen in its reduced size with a 20 mm hollow shaft throughout. The device has a two-line display for target and current values with high-contrast LCD readability. As is explained, a target value can be programmed by the controller to the axis via an integrated bus interface such as RS-485 or Canopen. The machine operator can then regulate the adjustment spindle so that the current value matches the target value. This reportedly ensures fast, and above all faultless, axis positioning even with manual operation. The controller is constantly able to monitor the current value of the single position indicators in the bus system. There is no need for referencing when the supply voltage is switched on again, since the integrated position sensor provides an absolute evaluation of the rotation. A high degree of flexibility is said to be offered by the free programmability, for instance of spindle pitch, comma position, sense of rotation, and 180° display rotation. The position indicator is deemed ideal for cases requiring quick, error-free positioning of machine axes even in restricted space conditions. (Photos available)

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Hall: 025, Stand A56

Furniture Industry

Double-end tenoning machine for squaring operations (193)

The exhibitors from Technolegno describe their Squadra as an automatic double-end tenoning machine for performing squaring operations on solid wood panels or other components. As is pointed out, the machine is also suitable for carrying out tenoning cycles on parquet and similar materials. The transport system is based on ball bearings and each track joint is supported by two bearings that slide along a steel-tempered surface. The unit can be fitted with cutting units according to customer wishes. According to the Italian manufacturers, the working height is 945 mm and the maximum clearance between track and column is 210 mm.

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Edge-banders, borers and multifunction centers (112)

The K2 Project to be presented by Hirzt is described as a new technology to meet future challenges in the panel working field. The solution comprises a multifunction working center for boring, milling and insertion designed for high productivity and flexibility. Small, medium or large production lots along with working cycles for different panels and single panels can apparently be handled effectively. A further new exhibit, Tosca, is a compact CN point-to-point boring center for small and medium-sized companies with, according to the homepage, seven vertical spindles, two horizontal spindles, and two lateral spindles. Finally, Class C is the name of a line of edge-banders with hot-melt glue that extends the benefits of panel edge-banding with pre-milling to machines designed for small and midsized enterprises. The special integration of a pre-milling unit is said to combine simplicity and advanced technology with low investment costs. (Photos available)

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Furniture Industry

Edge-coating machine for panel edges and profiles (189)

The Gemini edge-finishing plant is described as the result of an effective synergy between Tecnolegno and its parent company, the Makor Group. The sturdy frame supports a highly effective transmission system for effective piece feeding and a pressure bar with three rows of wheels to feed even the shortest of parts. A new vacuum head has been designed to apply paint with a separated suction area to optimize uniformity and avoid heaps on the panel edges. The Moplen templates, which are said to be easy and cheap to make, can be switched quickly thanks to the fast-change device incorporated. The flexibility of the new bottom sanding belt for double-raised panels is also highlighted. The manufacturers particularly draw attention to the quality edge-finishing results achieved for any type of shape. The plant is described as a single-sided machine for inline sanding, buffing, cleaning, varnishing, drying and curing operations on solid wood, MDF, or other material panels and profiles.

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Hall: 020, Stand B16

Efficient, double-sided sanding disk (111)

The sanding experts at Flex Trim in Denmark have developed a new sanding disk that is claimed to be particularly efficient. The double-sided equipment can sand edges in wide spray lines, which apparently means less work and greater effectiveness. The machine is said to be of special interest to the manufactures of moldings, kitchen cabinets, doors, and windows. The device has a simple design and can be installed on new machines as well as on existing lines. The manufacturers point to a potential five- to eight-fold increase in the actual feed speed, despite the low cost of the appliance.

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Furniture Industry

Electronic digital position indicators (165)

Siko will be unveiling two new electronic position indicators with freely programmable display values that offer extended functions via on-device control keys. In the DE04 and DE10, measurement values are recorded capacitively and reportedly achieve a resolution of 3,600 increments per revolution. Energy is supplied by a standard lithium button-cell battery in its own compartment for easy changing, and the energy-saving indicator operation is said to yield a service life of around two years. The electronic position indicators are claimed to have a number of advantages over purely mechanical counters. For instance, the free programming of display values allows problem-free depiction of even unusual gear ratios, such as on gear racks or transmission belts. In addition, an angle or linear mode can be selected and there is a zeroing function or reset-to-calibration value. Other merits lie in the incremental measurement function, the programming of a calibration value directly at the device, the greater measuring accuracy, and the higher maximum speed of 600 rpm. The user can configure the display values using the PC-based software Pro-Tool-DE connected via a USB cable. (Photos available)

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Electro-spindle for milling and finishing molds (181)

From their electro-spindle product range, FM Elettromeccanica, part of the Umbra Group in Italy, will be presenting the Compact 115 LC-HS. The tool has been specially designed for the high-speed milling of resin or aluminum molds and for milling and finish operations on molds and steel punches. As the Italian manufacturers maintain, the spindle enables high speeds and considerable torque and power values to be attained within a highly compact size. The power output is specified as 4.0/6.0 kW, the torque as 1.6/2.4 Nm, and the maximum speed (n) in the Cronidur ball bearing configuration as 50,000 rpm. The tool taper variation is HSK F25 and the motor is cooled by a liquid cooling system. In addition, all models in the company's range are said to contain high-tech bearings with optimized pre-load.

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Furniture Industry

EVA-based, transparent hot-melt adhesive (144)

One of the products on show from Beta Chemical will be their Betamelt BK 511. The product is described as an EVA-based (Ethylene Vinyl Acetate) adhesive that is used for PVC (Polyvinyl Chloride), ABS (Acrylonitrile Butadiene Styrene), polyester, melamine, laminate, and solid edge-banding machinery. According to the Turkish company, it is especially suitable when a transparent bonding line and high efficiency are called for. As the manufacturers also add, the tank temperature should lie between 170°C and 190°C and the roll temperature between 190°C and 210°C. (Photos available)

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Extraction of dust and debris while cutting (170)

The Aerotech System is billed as an innovative tooling solution that reportedly thoroughly evacuates dust produced during nesting (producing parts from flat raw material) and routing operations. The system, which is claimed to achieve the near-complete extraction of dust, debris and potentially toxic residues such as formaldehydes, helps reduce operator exposure to dust as well as improving overall indoor air quality. As is pointed out by the Italian subsidiary of Cruing, the reduction of dust within a factory will serve to reduce employee and operator health issues and assist and enterprise in meeting government health and safety regulations. Moreover, post-nesting cleaning cycles can be shortened or eliminated as a result, thus enhancing production throughput and reducing labor costs. According to the exhibitors the system uses the rotational motion of the machine electro-spindle to create rapid air movement for dust evacuation. (Photos available)

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Furniture Industry

Fast, two-component cyano-acrylate adhesive (145)

The Mitreapel instant adhesive provided by Beta Chemical in Turkey is a viscose cyano-acrylate adhesive with two components that bonds materials such as MDF (Medium-Density Fiberboard) profiles to each other. It reportedly bonds laminates, woods, folios and the profiles effectively together in a very short time and also fills the gaps properly. The bonding duration is given as up to ten seconds if the glue is used with its activating spray component. According to the company homepage, the product comes in various sizes of plastic containers and has a storage life of six months. (Photos available)

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Finger-jointer machine using urea glue (151)

Ludy machinery in Belgium produces machines for the edge-banding industry. The company announces that a new machine with glue joints is now ready for production. According to the homepage, the finger-jointer joins veneers in the length with an invisible joint and the connections are made using urea glue. The glue is applied between the flanks from the fingers and replaces the tape. The key advantages are seen in the fact that the joints are heat-resistant, water-resistant, and invisible after lacquering. The manufacturers also report that the product is deliverable as front qualities and can replace the product in fixed lengths.

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Furniture Industry

Flexible spraying system with single central arm (140)

The Mito spraying system from the Cefla Finishing Group comes with a coating application system designed to meet modern performance demands, especially for medium-size companies requiring a flexible solution. The new design of the in-feed plenum chamber, equipped with highly efficient air cleaners, reportedly ensures a high quality of finishing and high transfer efficiency. The workpiece handling system, comprising CFB carbon-fiber conveyor belts, comes with the ends slightly outward from the spray booth. According to the manufacturers, this construction results in superior quality for the recovered coating product, a longer life of the product recovered, quick replacement, no overspray in the lower part of the workpieces, and high-quality coated edges. A further improvement has been achieved by implementing the company's patented cleaning and recovery system. As is explained, in that the tipping table extends from the front, this system enables easy maintenance while assuring very good coating product recovery, a longer service life of the conveyor belt, consistent performance, and low servicing requirements. (Photos available)

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Hall: 022, Stand C05

Four-side molding line for water-based UV finishes (186)

The Makor Group will be showcasing a complete water-based UV plant for furniture moldings ranging from 250 mm to 2 m in length. As is explained, a water-based pigmented base coat is first applied on four sides and on the heads and tails through an intermediate flipping of the workpiece, which is followed by a hundred-percent UV acrylic pigmented top coat. The average productivity of the plant is given as 30 pieces per minute. The profiles are arranged on a CVS vertical loader in batches and deposited in line. The sanding process from the LPC unit follows by means of sanding belts and abrasive wheels. The main feature of the machine is seen in its ability to work short pieces thanks to its vacuumed belt transport system. An FPC spraying machine, equipped with airless spray guns, applies the water-based coat, which is dried using an FTT transversal drying oven with hot air for 2.5 minutes. An in-line belt flipping unit at the exit of the oven allows the other side of the piece to be treated with the same line of machines. After the various treatment stages, the pieces are ready to leave the line through a transversal belt off-loader and be manually collected.

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Furniture Industry

Hall: 020, Stand B20

Framework glue with D3 norm strong bonding (143)

The Apel D3 framework glue produced by Beta Chemical in Turkey is described as a PVAc-based homo-polymer that makes a tough and transparent pellicle. It is used to bond wooden massive panels to each other and is seen as an ideal product for high-humidity and damp conditions. The adhesive reportedly provides strong bonding with D3 norm. According to further information on the homepage, the framework glue from the company forms a firm, transparent film layer and it is also antibacterial. The plastic barrel containers with 1, 4, 25 and 50 kg in which it comes have a storing guarantee of one year. (Photos available)

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Gantry spraying robot for raised panels (137)

Target is the name of a new spraying robot for raised panels from the Cefla Finishing Group. The new gantry design is said to yield superior rigidity. The robot is equipped with a paper belt transport system. Large glass windows provide clear visibility of the different operations and enable easier maintenance. Moreover, the axes have been specifically designed for high accuracy, optimized spraying, and a reduction of waste. The CN software and interface has been specifically developed by the Italian company to assure a high degree of functionality and performance. The manufacturers also stress the affordable price and the compliance of the machine with recent environmental and energy standards. (Photos available)

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Furniture Industry

Heavy-duty electro-spindle with rotary encoder (161)

The new Evolution 210 LC HSK with standard nose HSK and for automatic tool-change operation is a large-size electro-spindle from FM Elettromeccanica, part of the Umbra Group in Italy. The industrial spindle is equipped with a rotary encoder and has liquid motor cooling through the shaft. All the materials used in its construction are said to be corrosion-resistant. The unit has a modular design and can be customized for milling different materials, such as steel and light alloys, marble, stone and glass, and wood. It is seen as particularly suitable for heavy-duty cutting processes in panel-sizing machines, in through-feed automatic molders, and in edge-banding machines. Apart from the HSK A63 tool taper, further specifications given on the homepage include a maximum power of 11 kW, a torque of 35 Nm, and maximum speeds (n) in the steel, hybrid and Cronidur ball bearing configurations of 12,000, 16,000 and 18,000 rpm respectively. (Photos and graphics available)

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Heavy-duty panel press for solid wood edge-gluing (217)

The hydraulic panel press on exhibition from Juan Nan has been designed with a hydraulic edge-gluing unit that produces large and flat panels. The robustly constructed machine is apparently suitable for heavy-duty gluing operations and the powerful hydraulic system is said to enable long working hours. Described as versatile and reliable in its solid wood edge-gluing capabilities, the machine can be deployed in the manufacture of furniture, table tops, cabinets, windows, floorboards, beams, and construction material. There are a number of different versions. The DH and IM series incorporate vertical-type and horizontal-type working sections respectively, whereas two A-type working sections are provided in the CG range. In addition, the hydraulic, rotary panel press features four working sections in the AE series and six working sections in the BF series. Every section has several main laminating cylinders and surface hold-down cylinders to conduct the panel pressing. To enable various working dimensions, the company offers machines for lengths of 2,500, 3,100, 4,600 and 6,200 mm, widths of 1,000 and 1,300 mm, and thicknesses of 150 and 200 mm. (Photos available)

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Furniture Industry

High-production cell for narrow pieces and drawers (182)

According to Nardello, machining narrow pieces has been a problem on machines that produce furniture components or semi-finished products. The company claims to be presenting solutions to this problem at the fair. The cell on display this year is composed of an automatic loading system with hopper, longitudinal splitter, boring machine, and automatic stacker. The line is reportedly designed for the production of drawer components, kitchen strips, and narrow pieces. As is claimed, the versatility of these cells allows them to manufacture tops, bottoms and loose shelves, which form the variable components of kitchens, closets, bedrooms and living rooms, thanks to the addition of dowel-driving or hardware-inserting machinery. As the result of PLC control, the number of operators required to operate the cell is apparently reduced to a minimum. The operating philosophy is said to be based on double-dimension panel-working to cut working phases by half. This double approach, as the manufacturers call it, serves to increase productivity, economize and simplify the operation of combined boring and cutting machinery, and rationalize the product management. (Photos available)

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Inclinable band saw with sliding carriage (133)

With its new Summa Swing machine, ACM has particularly focused on finding a solution for the dimensional limits, especially the vertical dimension, of the squaring machines with disk blade. This has apparently given the company the idea of replacing the disk blade with the band saw. With this solution, the cutting height limit has reportedly been significantly increased. By default, the machine cuts workpieces with a height of 500 mm (300 mm at 45° swivels), but other heights up to 1,000 mm and above are also available on request. The machine is seen as ideal for cutting large and very thick sandwich panels, with either straight or angled cuts up to 45°, which is said to solve practical problems such as the difficulty of handling an entire panel, its sliding, and therefore the parallelism of the cut and the constant precision of the angle. Further applications are seen in the cutting of insulating panels, large diameter pipes, and construction materials with large sections. The Italian manufacturers add that they can also consider variations that meet specific requests, for example, for extra-long cutting lengths that go beyond 4 meters. (Photos available)

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Individual courses in the field of wood finishing (139)

The Cefla Finishing Group, together with the University of Bologna and Catas, offers a finishing school with courses that provide theoretical and practical training through longstanding teaching modules. These modules can be individually combined according to specific requirements in the wood finishing industry. The school proposes basic training courses, for example in the area of coating products, wooden products, the sanding of wooden material, coating and drying systems, the choice of finishing system, the maintenance requirements of machines, and performance in relation to theory and practice in the measuring lab. The tuition can end with the qualification as Master in Finishing Management through the addition of supplementary marketing and finance modules. The school reportedly addresses entrepreneurs and managers, finishing plant managers, factory directors and maintenance heads, quality and control managers, investment decision-makers and buyers, machine and finishing system operators, and students from technical institutes and universities. (Photos available)

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Furniture Industry

Industrial spindle for high-speed machine tools (160)

The latest innovation in the Evolution 150 family of medium-size electro-spindles from Umbra Group Industrial will be presented at the fair. The new 150 LC-HS version with standard nose and for automatic tool-change operation is liquid-cooled and is specified as achieving high speeds (n) at constant power from 12,000 to 30,000 rpm. The spindle is seen as suitable for the machining of solid wood panels, aluminum profiles, and both resin and composite molds, as well as for the engraving of plates and bas-reliefs. According to the Italian manufacturers, it can be implemented in machine tools that process materials at high speed. Apart from the HSK F63 tool taper, further details include a maximum power of 12 kW and a torque of 9.6 Nm (Photos and graphics available)

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Inspection network with quality information system (125)

In addition to automatic sorting with the guarantee of faultless final quality, Baumer Inspection says it also offers complete production monitoring and quality documentation. The cameras in the inspection systems can apparently detect even small process drifts and give early warning signals to prevent the production of bad quality. The systems are claimed to set the technological stage for the new Zero Defect quality philosophy. To exploit these advantages along the full process chain, the exhibitors have developed a complete product line of new inspection systems. They can be deployed from decor paper and decor foil printing, over the direct printing, the lamination and the edge or edge banding, up to the final control of each single furniture board. All the inspection modules can be linked together by the company's Q-Live quality information system. Every ten seconds, this quality system collects the complete information of all operating production lines in a database and offers direct data access to each inspection system. Monitoring is carried out in real-time, from each desk, for each factory and for all lines. Shift and order logs are automatically created. (Photos available)

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Furniture Industry

Milling and sanding machine with precision track (191)

The Universal from Technolegno is a single-sided milling and sanding machine designed to work kitchen cabinets, doors, and door and window profiles. According to the manufacturers, the automatic machine is equipped with a 250 mm feed track that is capable of squaring, tenoning, shaping and sanding MDF (medium-density fiberboard), chipboard, plywood panels, solid timbers, or other materials. A precision guide also enables panel-squaring operations. The unit is fitted with a double pressure wheel with three rows of wheels to ensure optimal stability of the pieces. A double retractable pop-up dog in the transport tracks, which is automatically managed by a PLC, allows the square transport of panels. In addition, it is apparently possible to install a wide range of sanding units to sand highly complex profiles as well. The machine on exhibition will perform milling processing with two electro-spindles and integrates a fast tool disconnection unit to minimize setup times.

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Mini control knob with digital position indicator (166)

Siko claims that its digital position indicators and counters are known for their great reliability and user-friendliness. For even smoother performance of the various positioning tasks, the smallest digital indicator DA02 is now also available as the control knob DK05 with an additional knob at the front. In the ultra-small device, the normal hollow shaft of the digital indicator is replaced by a shaft collet with a control knob, enabling direct transmission of the torque to the machine spindle. As the manufacturer explains, this dispenses with the need for additional installation of a hand-wheel for manual axis positioning, which means faster mounting as well as savings on material costs. In addition, the direct integration of the control knob in the counting mechanism provides what the exhibitors describe as a transparent assignment of indicator and control knob, which ultimately benefits plant design. The company's established gear technology integrated in the control knob reportedly permits installation in any position, allowing application of the new unit in many areas of mechanical engineering. (Photos available)

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Furniture Industry

Miniature control knob with analog indicator (167)

The DKA02 control knob is a new development from Siko that uses a toothed differential gear to transmit the spindle rotation to the recorder for the first time. As the German company explains, this gear has a large transmission ratio of 26:1, yet uses very few components. This is described as the secret of the very small size achieved for the new positioning knob. The analog display, which offers very good readability thanks to its large viewing window, can be custom-imprinted to suit the particular operation. This allows the display of positive and negative display values as well as the clear visualization of non-linear adjustment processes. Especially when deployed with flow valves, the manufacturers point out, this enables a clear reproduction of the opening degree selected. The key advantage of a control knob with an integrated positioning indicator is seen in the exact reproducibility of the selected settings. In contrast to simple knobs with only a minimum and maximum limit stop, the positioning knob also enables a precise setting to any intermediate position. The homepage also highlights the various mounting positions and the measuring range up to 26 turns. (Photos available)

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Multilevel drying oven for water-based UV coatings (185)

The new version of the Multilevel from Makor is a multi-layer oven for water-based UV coatings that has been particularly designed to be more environmentally friendly. As is explained, the oven is completely insulated to yield considerable energy savings. Drying and flash-off times (water and solvent evaporation in the UV paints) have reportedly been significantly reduced thanks to the piece ventilation system, through air intake onto the working layers only, through belts that form laminar air tunnels on the parts, and through the possibility of adjusting the air recirculation from zero to hundred percent. The working width of the oven is given as 1.3 meters. The length can be varied for use in different finishing lines for doors, for kitchen cabinets, and for any kind of boards.

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Furniture Industry

New products in tool-holder mounting and cleaning (98)

Sistemi will be presenting some of its latest products in the domain of solid carbide router bits, collet chucks for CNC routers, and bits for automatic boring machines. One such development is the universal, adjustable tool-holder mounting device with the designation T139. The device is apparently adjustable from 0° to 90° and is seen as suitable for ISO 40 and HSK 63F tool-holders with a flange diameter of 63 mm or for ISO 30 versions with 50 mm diameter. In addition, with their X137 tool-cleaning set, the Italian manufacturers also point out that they offer a complete package for the cleaning and maintenance of tool-holders and spring collets. The kit reportedly avoids any wrong positioning of the cones and ensures optimal contact between the tool and tool-holder. (Photos available)

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Optical surface inspection with new modules (122)

Baumer Inspection introduced their systems for automatic optical inspection in the laminate flooring industry around eight years ago. With more than 250 installations in the flooring and furniture industry, the company now sees itself as the market leader. The multi-sensory Colour Brain systems, which combine up to four different camera and illumination modules, are claimed to have emerged more and more as the standard in the production of furniture and kitchen elements. The systems for surface and edge inspection are apparently installed at various leading manufacturers in Germany, Italy and France. The exhibitors will be displaying their complete systems for the inspection of surfaces and for format measurement at the fair, as well as a new generation of edge inspection modules and a system for the automatic repair of massive wood boards. (Photos available)

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Furniture Industry

Oscillating spraying machine for high volumes (184)

The Makor Group will be exhibiting its new oscillating spraying machine called Kronos. It is seen as ideal for the needs of high production coupled with high quality. The version on show is the sixth generation of the spraying machines and is said to be informed by forty years of company experience. The manufacturers point out that they have specially incorporated a double-glassed door to improve the inner air flow. The wide chamber, which is said to be the widest for this kind of machine, serves to avoid any overspray. Thanks to the automatic pressurization control, the performance reportedly never decreases even when the filters are saturated. Switching the color is apparently fast and flexible due to a cleaning system equipped with pull-out recovery vat, scraper, and quick gun disconnection system. The machine has been developed to meet market needs for just-in-time production. To further increase speed, the gun set-up has been made easier and quicker, the vertical adjustment is motorized, and the gun-holding plate can be rotated to remove the guns and piping away from the spraying zone.

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Power pod laminating press with long-life air pods (219)

One of the woodworking machines to be highlighted by Juan Nan will be their air power pod laminating press, which is equipped with several double-convolute air pods. The air requirements are said to be minimal. The machine is apparently suitable for both lighter-duty and heavier-duty applications. The stroke height is specified as 135 mm. The machine is available in many sizes and configurations, such as side-loading or end-loading variants, and with either single or multiple (split) platens. The vertical daylight opening is adjustable from 50 to 1,050 mm, with adjustment conducted via simple, up-and-down push-button controls. The air cylinder roller tracks are fitted on the top of the bottom platen. As is explained, press loading and unloading is easily accomplished with the air-activated roller tracks that elevate when the platen air is off. After the load is positioned and air pressure is activated, the rollers recess into the platen. An individual pressure control for the air pods regulates the average pressure. The manufacturers will be spotlighting their ACP-2PL-0408-SL machine with dimensions of 1,220x2,440 mm. (Photos available)

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Furniture Industry

Hall: 024, Stand C02/1

Precision devices for presetting cutting tools (100)

With its P322, Sistemi will be introducing a tooling presetting device that can quickly and accurately measure the radius of profile cutter-heads. Apart from the high precision and simple operation, the Italian manufacturers also highlight the economical price. A second development, the tooling presetting device Preset P388, is deployed to measure the radius and diameter of cutters and has a robust structure made of steel. According to the Italian exhibitors, accurate and fast measuring is achieved thanks to preloaded re-circulating ball-bearing guides and an optical comparator. The device is also suitable for measuring PCD (polycrystalline diamond) cutters. (Photos available)

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Productive, eco-friendly water-based UV panel line (187)

The Makor Group has developed a new WB UV panel line that is said to be result of long research in the field of eco-friendly technology and in cycles based on lean or just-in-time production. The finish is obtained with water-based UV products. The colors used and the finishing with, for instance, special textured effects are said to make the finished product particularly appealing. The plant can apparently process both large and small production volumes in order to decrease the storage of finished products. The choice of using water-based products is reportedly in compliance with current pollution control regulations, which avoids the need for equipment like after-burners. The line comprises a transport belt, a cleaning machine with brush, compressed air blower and de-ionizing bar, a panel pre-heating system with IR lamps for better paint distribution, a Kronos oscillating spraying machine equipped with two sets of high-pressure guns on each arm, and a Multilevel vertical oven where the pieces lie in a controlled atmosphere for about eight minutes. The line control is automatic to quickly switch production batches with a ten-second period before readiness to spray another product.

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Profile-sanding machine for door moldings (192)

One of the units on show from Technolegno in Italy will be the LS automatic sanding machine with double transport chain. The machine is particularly intended for sanding veneered or painted door jambs. The double chain has an adjustable opening to feed the pieces effectively according to their shape. According to the manufacturers, the machine can be equipped with scoring groups, cutting units, sanding wheels, and belts. Its structure reportedly allows finishing on three sides of the profile in just one pass through counter-placed sanding groups. The sander is suitable for sanding door jambs with a sash up to 100 mm.

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Quality improvement for the massive wood sector (126)

The first fully automated repair unit for massive wood boards, which inspects and repairs the boards over the entire surface, has been jointly developed by Fill in Austria and Baumer Inspection in Germany. The latter company's inspection system detects defects like knot holes, resin pockets or disruptions and reports them to the repair unit. Oil stains and footprints are specifically ignored by the tolerance parameters. A key system advantage is seen in the description and recording of all repair components used as well as the number of repair processes carried out. Thanks to this information, a producer is able to evaluate the data statistically. The development targets producers of massive wood boards and parquet. Due to the modular configuration of the repair unit, individual requirements can be met. The unit performs the double-sided mending of boards with a maximum format of 5x2.1 m and a thickness of 10 to 60 mm. As is explained, the inspection unit scans the uncut, unformatted boards on the upper and lower side at a speed of 45 m/min. Defects are forwarded via a CAM interface and the system mends the boards according to the inspection unit information. (Photos available)

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Furniture Industry

Roll coating and glue spreading machines (218)

The glue spreaders from Juan Nan in Taiwan are available with either three rolls for top-only glue application or with four rolls for top-and-bottom glue application, whereby a four-roll spreader can also be used for top-only glue application. The machines feature grooved SBR rubber-covered glue rolls, with other roll materials also available, which are said to be acid- and heat-resistant as well as very durable. The smaller spreaders in the series with widths of 430 and 610 mm have chrome-plated doctor rolls, whereas the larger versions with widths of 915, 1,060, 1,220, 1,370 and 1,520 mm have hardened rubber-covered doctor rolls. The company specifies a standard fixed feed rate of 24 m/min or an optional variable feed rate of 12 to 36 m/min. A chrome-plated hand wheel enables an adjustment of the glue material thickness. An aluminum drip pan catches the clean-up water. The manufacturers also point to the emergency stop bars for operator safety, the high-quality urethane finish, and the optional roll guards. The standard vertical opening is given as 45 mm, with 150 mm also available if required. (Photos available)

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Roller coating machine for applying primer (171)

The roller coating machine Hardo-Thermo 70 PT Simplex is a new development for the application of solvent-free, non-flammable primer. The machine design reportedly allows its integration directly into the extruder line. A change in the product variants processed is said to take only a very short time because of the quick-change system implemented for the rubber-covered coating bushings. The maximum coating width is specified as 70 mm. The new machine development from the Hardo engineers in Germany is claimed to represent a highly effective roller-coating solution for primer processing. (Photos available)

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Furniture Industry

Rotary spraying robot with a full belt conveyor (135)

Rotoclean G plus will be introduced as the first rotary spraying robot available with a full belt conveyor. The new machine on show from Cattinair is claimed to provide the lowest product consumption on the market thanks to the savings achieved in the rotary system of 20 to 25 percent. Further merits singled out by the manufacturers include the serial air filtration and the compensation in the spraying cabin for high-quality finishing without pollution. The usual advantages of the rotary system have also been maintained. These are specified as a high speed and production output in the line, up to 10 m/min in this case, a high surface quality thanks to the application of even layers of lacquer, and better coverage of the edges and of complicated, non-flat surfaces. The robot is reportedly easy to adjust and to operate thanks to PLC control and touchscreen commands. The cost-efficient system also offers low maintenance. (Photos available)

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Single-sided machine for polishing panel edges (190)

Tecnolegno, an Italian manufacturer of machines for sanding and squaring panel edges and sanding profiles, will be explaining the advantages of its Compact Lux. This is described as an innovative machine for automatic polishing that makes the painted panel edges completely glossy, thanks to the use of cotton brushes and wax sticks. According to the exhibitors, the unit can work pieces lacquered by paraffin polyester or poly-acrylic clear products to ensure high finishing quality. As is explained, the painted panel is first sanded by super-finishing lamellar belts to obtain a smooth surface, whereby the wax is spread by means of a series of oscillating brushing groups with wax sticks. A kitchen door, for example, thus becomes glossy in a single pass. The machine has apparently been designed for users that require just-in-time production volumes. It can be equipped with a numeric control system for the positioning and thanks to a PLC, the working parameters can be saved to make the setup process very fast.

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Furniture Industry

Spindle for standard glass milling and drilling (159)

One of the medium-sized electro-spindles to be presented by the Italian Umbra Group will be their new Evolution 165 LC industrial spindle with standard nose and for automatic tool-change operation. The tool has been specially designed for standard glass milling and drilling. According to the manufacturers, the materials used for the construction of the electro-spindle are all corrosion-resistant. The compact dimensions reportedly make it suitable for five-axis machines. The spindle is equipped with a liquid cooling system through the shaft and all the connections are located on the spindle side. Apart from the ISO 40 tool taper, further specifications include a maximum power of 8 kW, a torque of 19.1 Nm, and maximum speeds (n) in the steel and hybrid ball bearing configurations of 12,000 and 16,000 rpm respectively. (Photos and graphics available)

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Three-hole bores for hinges in a single pass (102)

Sistemi have produced a jig to produce hinge bores called the Trimatic Super. As is explained, the machine has been designed to create in a single pass the holes necessary for fitting hinges on cabinet doors and Crémone bolts for handles on windows and doors made of wood, wood and aluminum, or PVC. According to the Italian manufacturers, the jig can be quickly and easily mounted on the multi-spindle bar of every 32 mm automatic boring machine. (Photos available)

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Furniture Industry

Touchscreen interface and software for beam saws (221)

CYWWM reports the development of a new user interface for beam saws (panel saws) called the Cytek Fast Panel. The application has been designed to reduce operation time and simplify job loading. The interface uses a 15-inch, color industrial touch Panel PC instead of a keyboard and mouse to control the machine directly through the operator's fingers. In addition, the solution also integrates software to communicate with European optimization software. As is explained, when sales persons issue a job in the office, the same file can be sent directly to the panel saw system. The job file is then converted into machine directions and operators are given a step-by-step guide for loading or turning the panels. As a result, beam saw operators no longer need to calculate the panel optimization or carry out complicated key-in jobs to the machine. The user is said to be merely responsible for the panel cutting quality and for loading in the correct panel. The collaborative solution is claimed to enhance the efficiency of the entire production workflow and offer the same degree of efficiency and flexibility to smaller factories that is enjoyed by large-scale plants. (Photos available)

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Versatile machining center for delicate furniture (8)

Intorex in Spain will be presenting the new TMC-1500/3000 CNC machining center for processing solid wood elements for furniture and joinery production. The machine is seen as especially suitable for the flexible manufacture of small batches of wooden structural and decorative columns, staircase posts and spindles, tables, chair and sofa legs, and small, solid wood pieces requiring multiple machining operations. The new center is a multi-axis machine with five interpolated axes and a further three axes controlled by the CNC unit to allow turning, milling, sanding and drilling of any type of leg or column. In addition, it is said to be possible to machine different profiles and designs into each face of the workpiece during the working cycle. The machine is available with various different versions of feeding and clamping mechanisms such as twin alternating vacuum tables. Automatic hopper feed systems with unloading through conveyor belt systems can apparently be easily added. (Photos available)

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Furniture Industry

Vision system for recognizing detailed panel stacks (178)

The German company Anthon, which specializes in complex machine systems for the panel processing industry, will be presenting what it calls an automatic eagle eye for recognizing detailed panel stacks. The Anthon Vision System (AVS) can therefore indicate the exact stack height and number of boards. The system is claimed to deliver an accuracy of hundred percent, even when working with thin boards, and thus contributes to the efficient use of material. As is explained, overproduction has been practically unavoidable up to now due to production tolerances, because machines were unable to detect how many thin boards were exactly arranged in a stack. The solution on offer features a live camera module, an algorithm module for calculating the number of boards, and a communication module for interacting with other applications in order to manipulate the production process. The application can be configured for different machine settings via a Software Developer Kit (SDK). As the exhibitors point out, they regard the use of vision systems as a logical consequence in the further development of machine and plant construction.

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Window spraying robot with self-learning (104)

Giotto is a new window spraying robot from Falcioni, part of Cefla Finishing Group in Italy. The machine features Cartesian and five-axis polar movement and is equipped with a self-learning capability. According to the manufacturers, it can replace an expert operator and ensures high-quality, uniform application for each side of the workpiece. The development is reportedly suitable for the painting of window shutters and frames in cases where electrostatic spraying would not be appropriate. The high productivity and reduced paint consumption are particularly highlighted, as well as the very good workpiece painting abilities on both sides with no dead times. Additional advantages are seen in the scanner-guided reading of workpiece shapes, the laser 3D bar option, the easy management of spraying programs, and the simplicity of the single-gun application. (Photos available)

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3D CAD for interior decorating and furnishing (86)

Spazio-3D is a new three-dimensional CAD and CAD-CAM system developed by Brain Software in Italy for the furnishing domain. It is apparently available in fifteen versions with various additional modules and addresses the needs of designers, architects, furniture retailers, joineries, and industrial companies in the field. The application has a rich library with 10,000 elements already inserted, which can be subsequently modified. It also offers standard and advanced 3D functions that allow the user to create any kind of object. Other file formats, such as DXF, 3DS and WRL, can be imported and exported and it is reportedly possible to generate elaborations with free-hand and photorealistic effects as well as elements like quotations, exploded views, cutting lists, bills of materials, production reports, technical cards, panel nesting, and edging and veneering lists. Moreover, CNC machines can also be managed by the software. Other products from the company include Space-3D and Classic Cabinet.

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Special Displays 2009

Precision abrasive for low-scratch surface finishes (103)

The Swedish company Ekamant provides coated abrasives to the woodworking, car and metal industries. The company's Eka-Film is described as precision-coated abrasive product used for the finishing and super-finishing of lacquers, plastics and metals. According to the manufacturers, the development is a suitable product for use when it is essential that fewer scratches occur before polishing the surface. As is pointed out, an extra coating with stearate prevents the abrasive from clogging when sanding soft lacquers.

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