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Trust. Right from the start!

March, 2019

Information for our customers and business friends

The market is ready for innovations for the future

There is obviously a clear focus: Nice corners on coloured window and door profiles are the benchmark in the field of modern window and door manufacture. However, there is not only one "silver bullet" available but on the contrary - there are many ways to reach the goal. And that's exactly our commitment. As the leading supplier of machinery technology in the PVC window industry, we know that it's all about individual process optimization.

All the better that we can offer you a variety of new possibilities. It can be the new Vario-Cut-II welding



Nice corners are the benchmark

procedure with three-dimensional milling operation in our AKS 9600 Cut welder generation but also the V-groove technology with wrap-around fixtures

and final colour optimization in the corner cleaning process. "In particular this versatility offers you new possibilities as there is a fitting solution available offe-

red by Urban for each production environment" says product manager Andreas Lerchenmüller. This is based on different toolings for the milling, welding and cleaning process.

On the occasion of the Fensterbau/Frontale in Nuremberg, you could not only get an impression of reliable production processes but also of visually convincing results. Also our sample panel was right on target.

Many visitors used to check the sash and frame surfaces with their palms to detect the weld bead - which they could not find.

Novelty: Four at one blow

New glazing bead saw GLS with LAEG-4 offers more flexibility

The new version of the glazing bead saw GLS in combination with the length stop by Urban offers more safety during sawing and confectio-ning of glazing beads. For the first time it's possible to cut two pairs of glazing beads in one cycle.

„That's the way how customers can cut all of the four glazing beads for a sash in one operation" explain the experts from Urban's product development. Besides time savings, there is also an advantage in the field of sorting. By sawing all

of the four glazing beads in one cycle, the operator can be sure that all glazing beads will fit in the corresponding sash. By doing this job in two steps, attention had to be paid to make sure that the correct pairs of glazing beads are put together. This error source is now excluded.

Another advantage of Urban's novelty is the integrated window pane simulation ensuring that the pane which is inserted later on is already simulated during cutting. Controlled via PC and servo motor, the adjustment is done



Four glazing beads in one single cut

according to the data and work preparation. „The simulation ensures that the gasket for the

glazing bead is perfectly cut without overlap during actual installation" explain Urban's developers.

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EDITORIAL

Dear customer,



Last Fensterbau exhibition in 2018 has quite clearly shown: The market is ready for innovations for the future.

We herewith want to thank you once more for the great feedback we have got from you since our presentati-

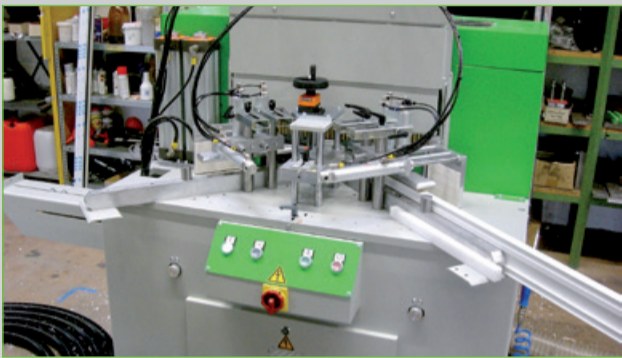
on on the Fensterbau/Frontale in Nuremberg almost one year ago. In Nuremberg you could see that we do not only talk about „nice corners" but that we create technical possibilities to make sure that nice corners can be materialized in your manufacturing process.

It has always been our commitment to provide you with mature technologies without compromising quality or process safety. You may trust on this. Based on this ambition, we continue refining our solutions.

Enjoy reading and we wish you an excellent business year 2019.

Sincerely yours,

Martin Urban
Managing Partner



HFL-Starter package by Urban

The attractive optical appearance of a wooden window in combination with the advantages of a PVC window profile: That's what windows in timber window look provide, in a word TWL. This kind of window is the hit particularly in the Netherlands and in adjacent German border regions but also in parts of the United Kingdom.

„From the technological

point of view it's relatively easy to manufacture TWL optics -one sided outside or double sided- says Franz Herb, specialist for TWL technology in Urban's sales department.

Interesting machinery package

In order to achieve a mature result from the optical and technical point of view, Urban offers a machinery

package at an economic pricing.

Cylindrical milling cutters, clockwise and counter-clockwise rotation

Preparatory work at TWL profiles, however, is already done before welding by machining through our end-milling cutting machines, the new AKFU-250/TWL

and AKFU 330. Highlight of the new AKFU-250/TWL is the novel type of cylindrical milling cutter developed by Urban allowing clockwise and counter-clockwise working to avoid profile fractures. „This ensures insert of profile rods in the process on the same side in 45° both from the left and the right so that no height tolerances will occur“ explains Franz Herb. This patented retaining system developed by Urban allows trouble-free

milling of profile widths of up to 125 mm. For contour milling and exact rod adaptation, Urban's renowned end milling cutter AKFU 330 will be used.

Suitable heating element

After cutting respectively milling, the double head welding machine AKS 4310 with special TWL function is employed. Depending on

single or double sided TWL application, a customized heating element is used fitting to the profile.

Big advantages in practical application: Welded elements (in TWL) can be integrated in the ordinary production process of corner cleaners. Moreover, TWL weldings with the corresponding TWL function are also possible on many multi-head welders by Urban.

Focus on quality

Close exchange with RAL-Gütegemeinschaft (Quality Association)

How can productivity in window manufacture be increased through technology hubs? How can smart manufacture revolutionize future window production? How can quality assurance be substantially materialized by simultaneous minimization of costs across all processes?

These are only a few of the questions Urban GmbH & Co. Maschinenbau KG as well as further partners from industry and research are intensively dealing with. Also on board are the Kunststoff-Zentrum SKZ

(Plastics Centre), Urban has been cooperating with for more than 30 years, as well as RAL Gütegemeinschaft for PVC profile systems for windows.

The board of managers of RAL-Gütegemeinschaft participated in a two days' symposium in Memmingen last summer and got convinced of the technologies for the future developed by Urban.

Since their foundation in 1979, RAL Gütegemeinschaft Kunststoff-Fenster-Profilsysteme e.V. (GKFP)

has stood for quality and performance in view of PVC window profile systems. Member companies meeting the requirements of the quality and testing provisions RAL-GZ 716 are awarded with GKFP's RAL quality label.

They are continuously working on the state-of-the-art to be prepared for future challenges. In future it is intended that the RAL quality label also includes -besides long-term durability- sustainability aspects such as healthy indoor climate, CO2 savings and closed loop recycling.



Destacking process in trolleys

Flexible element storing can be so easy

High end automation is not the only solution for perfect logistics in the manufacturing process. A priceworthy but at the same time highly flexible way for element storing is our destacking trolley system ASW-Compact.

„With the ASW-Compact we want to offer a flexible solution for element storing to companies with a single line production“ says Hermann Deller, Head of Sales for Central Europe at Urban. It's so simple: The ASW-Compact consists of two trolleys with eight compartments that just dock at the

swivel table after the corner cleaner to be filled there automatically. As soon as the 16 compartments are full, both trolleys are just exchanged and the elements are passed on to the different machining stations.

Working based on the given cycle

„This kind of destacking prevents blocking of the further operation process so that the welding-cleaning line continues working based on the given cycle“, says Hermann Deller.

By the way, the size of elements does not play a role. No matter if small windows of 300 x 300 mm are involved or big units of up to 2.500 x 2.500 mm: The ASW-Compact-System provides enough space for all of them.

„Our destacking trolley system is ideally suited for joineries and window manufacturers having in mind to optimize their processes but having no possibilities to use fully-automatic destacking shelves, type ASR because of lack of space.“, explains Hermann Deller.



Symposium of the Quality Association in Memmingen

Why window manufacturers rely on Urban's know-how

Merschmann stands for perfection

Longstanding Urban customer invests in new production technology

Exactly fitting windows and doors from an experienced pro. Nothing less than this is promised by Merschmann Fenster GmbH & Co. KG based in Delbrück-Ostenland, East Westphalia to their customers. Merschmann's team is convincing with top-quality counselling and excellent service.

„No matter if on our customers' construction sites or in our production facility: We care for details and set a high value on inviting and tidied-up work places“ says managing director Manfred Merschmann, who runs the enterprise along with his brother Reinhard and his



mother Hedwig. For their latest new investment, Manfred Merschmann attached great importance to the fact that their machine producing partner is open minded in view of their requests and ideas. „I found exactly this open mindedness at Urban and their trade partner Finke. That was the decisive trigger for me“, explains Manfred Merschmann.

Targets were clear for the new window and door pro-

duction in both of the new hall constructions of 34 x 60 m: At Merschmann, sashes and frames are not married in the glazing station as it is usually done but at the hardware assembly tables. „By doing this, a better final check is ensured in particular in the field of special elements“ explains Manfred Merschmann who employs 30 staff members in his production department.

Six work places for hardware assembly are available for the new window and door production and another four for the elements

coming over from special manufacture.

To avoid faltering on the welding and corner cleaning line consisting of a quad welding head AKS 6600 and a double head corner cleaner SV 840, storing is done diligently at Merschmann. A storage station with a capacity of up to 130 places is available for frames and a separate one with 50 places for sashes.

Automated filling of the individual storage stations by the SV 840 through multi-sided outfeed. „This allows us to be absolutely flexible“, explains Manfred Merschmann who manufactures windows in timber look not via special production but in serial manufacture.

Necessary millings are done in a CNC machining centre before welding. It goes without saying that even large element with a size of 3.000 x 4.000 mm do not cause any pro-

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Well stored: Urban's storage for finished elements at Merschmann makes it possible.

blems in Merschmann's production. The same applies to door elements with threshold that also run through serial manufacture quite easily.

Manfred Merschmann is fully content with the customer support provided by Urban's partner Finke and the Memmingen based Urban team. „That's a perfect match and it's not without reason that we've been an Urban customer for many years“.

Hermann Deller, head of sales for Central Europa at Urban is naturally happy about Merschmann's praise. „Here we can see again how important it is not to push customer's with pre-fab solutions but to work out jointly a perfect solution.“



After 25 years: Bye, bye SV 800!

Müllers Produktions GmbH invest in a new SV 840 for their serial production

Changing from special manufacture to serial production can be so easy: Müllers Produktions GmbH & Co. KG in Mönchengladbach handled this switch-over with a new corner cleaning machine SV 840/6 from Urban.

„So far, we manually cleaned all elements with a threshold. Now, these elements run fully automatically from the four head welding machine into the new SV 840“ explains production manager Marco Löhr. The special feature of Urban's corner cleaning machine: Outfeed on the new SV 840 happens on three sides so that window frames, sashes and entrance doors are individually fed out on separate sides.



Also fully integrated in this process are windows in timber look being supplied in large numbers to the Netherlands by Müllers.

Old corner cleaner replaced by the new SV 840: „Now we can run bigger elements with a gain in length of around 20 cm. This is of great importance for us as the trend definitely goes towards bigger windows and

doors“ says Marco Löhr. By having Urban's new SV 840 in operation, Müllers Produktions GmbH experienced an increase in capacity of altogether 10%. „Indeed, we still have upside potentials but our manufacturing process is prepared in such a way that the performance of the SV 840 in single shift operation ensures to supply the hardware workplaces with ele-

ments that are handled in two shifts there. That works perfectly“ says Marco Löhr.

Automated

The reason why this works is also due to the fact that jobs which used to be done manually by Müllers' team in the past are now performed fully-automatically by the SV 840 thanks to its integrated milling head. This

includes drillings for cross corner brackets or milling-off of combinations. Urban's old SV 800 had been working perfectly in Müllers' produc-

tion for 25 years and was now released to its well-earned retirement thanks to the application of the new unit upgrade.



Müllers Produktions GmbH & Co. KG is taken care of by Tobias Sontheimer

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The new SV 840 by Urban in the production facility of Müllers Produktions GmbH

müllers
produktion
fenster
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rollladen

Why window manufacturers rely on Urban's know-how

A new L-unit at JURA

A long-standing Urban customer invests in the production of entrance doors

Things that function perfectly in serial production for more than 20 years will certainly work in special manufacture as well.

Therefore it was clear right from the beginning that JURA Kunststoff-Fenster GmbH, based in Neumarkt, Upper Palatinate will invest again in Urban's technology regarding the relocation of their entrance door production to a new hall.

„We're an Urban customer for quite a long time and right from the start we had been content with the coun-



selling they provided us with and also with the reliability of their machinery. This just works excellently in practice with a first class support by Urban's team" explains owner and managing director Christian Recht.

JURA's new entrance door line consists of a four head welding machine AKS 6410 and a corner cleaning machine SV 530-C with turning station.

The welding-cleaning line was configured as a L-Unit so that door elements with threshold do not need to be turned. "Furthermore, we were able to arrange for very short ways so that profiles may run very quickly from the cutting centre to the welding machine says" Andreas Pauls from Urban's sales department.

In order to meet the strong demand, JURA Kunststoff-Fenster GmbH invested in the new construction of a big hall with a total surface of 3.500m² at their Neumarkt based headquarter for entrance door manufacturing.

According to Christian Recht, Urban had already been entrusted with the next projects. "Also in the field of window production, there is a continuous upwards trend - coloured windows are the absolute hit. That's why we extend the frame assembly work places and invest in automatic tilting tables allowing us to manufacture even more efficiently".



Urban know-how for JURA. AKS 6410 (top), SV 530 with turning station (bottom).



JURA is taken care of by Andreas Pauls

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Integrative window and door manufacture

At Hellraum and Augustinuswerk, people with a handicap work with Urban technology

Machinery technology by Urban provides handicapped people with a perspective in particular in Lutherstadt Wittenberg, Saxony-Anhalt and in Lauchhammer, Brandenburg.

Local company Hellraum Fensterbau Lauchhammer GmbH is a 100% owned subsidiary of Integrationswerkstätten GmbH (integration workshops), Niederlausitz (Lower Lusatia) and had been founded in 1993 as one of the first integration companies in Brandenburg.

Here a social enterprise is involved with a special fea-

ture: Around 40% to 50 % of the workplaces are occupied with severely disabled people. The same applies to Augustinuswerk e.V. employing currently 24 handicapped people in the window and door production in their Wittenberg based affiliate.

Thanks to Urban's machinery technology, Hellraum's staff members in Lauchhammer and employees in the affiliate of the Augustinuswerk in Wittenberg manufacture high-quality PVC windows



and doors that are sold on the open market.

Both workshops are equipped with Urban's double head welding machines, type AKS 3950. The Wittenberg affiliate works with two welders to feed an SV 530 with turning station; final assembly is done through the work unit for sashes FAS 320.

With AKS 3950

Hellraum in Lauchhammer has an AKS 3950 in operation in combination with an SV 405; sawing is done on a double mitre saw DGU 600 by Urban. „With tech-

nology by Urban we achieve several goals. On the one hand we can provide handicapped people with a great and useful task; on the other hand we can ensure to comply perfectly with all safety aspects. At the same time we are able to offer high-quality windows for a growing demand on the open market. We are financially self-supporting and are also in the position to finance other social projects within our organization". says Tino Jörke, Managing Director of Integrationswerkstätten GmbH Niederlausitz.

The Augustinuswerk also has to generate their contribution margins them-



Hellraum und Augustinuswerk e.V. are taken care of Fred Karsten Karl

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elves. „Of course, as a workshop for disabled people we receive state support but we also face direct competition with conventional window production companies having several advantages in view of productivity. Thanks to the new machinery technology by Urban, however, we had the chance to catch up essentially and we're now able to

handle considerably bigger order quantities" says Horst-Ulrich Fellmuth running the Wittenberg based affiliate.

Working with joy

Both facilities are taken care of by Fred Karsten Karl from Urban's sales team. „It's great having the chance to support integration work and to make a contribution to handicapped people to enjoy working. And that's exactly what's it all about here" says Fred Karsten Karl.



View into the window production at Hellraum in Lauchhammer.



Welding with the AKS 3950 at Augustinuswerk e.V. in Lutherstadt Wittenberg.