

Urban GmbH & Co.
Maschinenbau KG
Dornierstraße 5
87700 Memmingen
Telefon 08331/858-0, Telefax 858-58
E-Mail: urban@u-r-b-a-n.com
Internet: http://www.u-r-b-a-n.com

Trust - right from the start!

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Information for our customers and business friends

New impulses on the Fensterbau 2018 in Nuremberg

Let's start into an exciting Fensterbau event 2018. On the occasion of the show highlight Fensterbau/Frontale 2018 in Nuremberg from 21st to 24th of March -meeting point of the trade-, you may expect a great deal from your machinery expert Urban. We would like to invite you to visit our booth 127 in hall 3.

We would be glad to present you the technology of the future for the PVC-window industry, as usual from the point of view „innovation without risk“. As you may expect from a full-range supplier like Urban, we do not just offer you the “one and only solution” but a number of ways to reach a solution to ensure best possible

FENSTERBAU FRONTALE

results in practical application.

„Our customers have different requirements and -of course- totally different pre-conditions as each production layout looks different. Therefore we have various technologies available to respond flexibly. Our customers can always be assured to get from us exactly the solution that suits best their

materials and also their production processes. That's what we call real partnership“ says Martin Urban, Managing Partner of Urban GmbH & Co. Maschinenbau KG based in Memmingen.

For experts of the trade, Urban present in Nuremberg -among others- the new welding and corner cleaning technology for corner joints in a perfect optical

finish. „Customers will be impressed not to see weld beads anymore on visible surfaces“, says Martin Urban.

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EDITORIAL

dear customer,



Just after having finished our 50th anniversary of URBAN welding technology, we're already inventing welding in PVC window industry anew again. How this works will be revealed in a few weeks on the occasion of the

Fensterbau/Frontale in Nuremberg

However, what we can tell you already now: We invested a lot of time and know-how in the development of new processes offering you even better production results. The process being the best for you would have to be discussed individually with our specialists as a general proposal can't be made.

Furthermore, the current issue of Urban News contains a whole lot of interesting topics for you.

I hope you enjoy reading our current Urban News and I look forward to meeting you on the Nuremberg show.

Sincerely yours,

Martin Urban
Managing Partner



A lot of things to be seen again on the Urban booth # 127 in hall 3 on the Fensterbau/Frontale in Nuremberg.



New welding and corner cleaning process for the windows of the future

A perfectly tuned solution for excellent results

New welding and corner cleaning technologies for windows of the future are the exhibition focus of Urban GmbH & Co. Maschinenbau KG at the Fensterbau/Frontale 2018 in Nuremberg. The Bavarian quality manufacturer will present you on the world's leading trade show its solution for very nice corners on coloured window and door profiles (hall 3, booth 127).

„Coloured profiles are becoming more and more popular all over the world and both builders and architects set a high value on a nice look in particular at corner joints. This represents a real

big challenge for the window manufacturer as neither stability nor functionality should be jeopardized“ explains Martin Urban, Managing Partner of Urban Group of Companies.

Visual eye-catcher

The leading machinery manufacturer for the PVC window industry offers their customers several possibilities for optically outstanding corner joints i.e. besides the conventional welding process, optionally the Vario-Cut-II-welding procedure with three-dimensional milling or with U-groove tech-

nology with wrap-around fixtures and final colour optimization during cleaning. Unlimited flexibility ensured as both variants are feasible in one machine.

Perfektly tuned solutions

„There is no „one size fits all solution“ for everyone but there is one individual solution available for each window and door manufacturer that suits best to the existing production environment. So it's all the more important to be able to offer different procedures“ explains product manager Andreas Lerchenmüller.



Andreas Lerchenmüller

The excellent machining quality is based on the machine frame concept that was continuously evolved over decades by Urban and which is perfectly appropriate for a modular structure.

The harmonized interaction of centering units and toolings allow our customers to produce even the most tricky window shapes. With the new Vario-Cut-II-technology, we have extended once more the machining possibilities which helps us a lot in this sensitive field“, says Martin Urban.

Open-minded for new materials

With the novel Vario-Cut-II-milling technology, Urban has also an eye on co-extruded materials. No matter if it's about PVC core or clipped-on aluminium claddings or combinations of PVC with aluminium decor foil or wood: With the milling machining method, there are no limits set to flexibility and I'm curious about the future choice of materials in the field of window and door manufacture“ explains Martin Urban.



Flexibility: The inner corner cleaning knife unit for optimal radius and bevel machining.



Nothing left to be desired: Drilling unit for cross corner brackets (ESB) by Urban.

Top: The new SV 430-C

13 freely selectable tooling places for flexible operation

The corner cleaning machine SV 430-C by Urban suits perfectly in particular for the Central and Eastern European market. This machine is now also available with drilling unit for cross-corner brackets. Due to its robust handling, outer corner machining is very popular especially in Eastern Europe.

With the new SV 430-C, Urban GmbH & Co. Maschinenbau KG developed a very flexible corner cleaning machine for PVC window profiles with a freely programmable CNC axis control.

The Urban novelty convinces by a very good price-

performance ratio and allows optimum adaptation to the individual requirements of the window production company.

The PC control, as standard with industrial PC, allows the operator a user-friendly handling of the corner cleaner and ensures an excellent and uncomplicated integration and linkage to other machines and production units.

The profile identification offers -as an option- the fully-automatic identification of profile systems. The good accessibility towards the individual modules is the guarantee for quick and easy maintenance and cleaning of the machine.

High flexibility and rationality is achieved by the SV 430-C through up to 13 freely selectable tooling positions and their smart assignment. The short throughput times resulting from it will help the window manufacturer to save precious production time.

The standard tooling equipment consists of two grooving or cutting knife units, two inner corner cleaning knife units, two drilling/milling units and a disk cutter unit. Numerous special toolings are optionally available and offer a variety of machining possibilities: Milling/drilling unit, vertical, for radius machining, knife cutting unit, horizontal/vertical, as well as inner corner cleaning

knife units for bevelled inner corners and curves.

In addition, the user has the possibility to provide the SV 430-C with an automatic turning station. Fully-automatic turning and feeding of window elements ensure time savings and an increase in productivity. The proven turning technique guarantees trouble-free turning and adapts to the individual production line.

Logistics in the focus

Even logistics processes in the window and door production are in the focus on the Urban booth at the Fensterbau/Frontale in Nuremberg.

„Everybody's talking about industry 4.0. This, however, is already standard in the trade. In this field we're already one big step ahead and we can offer our custo-

mers not only the fitting solutions for handling equipment and destacking shelves but also the appropriate software solutions for optimizing logistics processes in manufacture“ says Martin Urban.

Thanks to the software developed by Urban for distribution buffer units (VPA), windows and door manufacture companies have all logistics processes under control. „How this works in practical application, we will show by way of example in Nuremberg“, says Gerhard Rogg, head of software development at Urban.



The SV 840

The SV 840 by Urban is the versatile all-rounder among corner cleaning machines for very rational machining of window elements. Smart and systematic arrangement of toolings and freely programmable Windows based CNC control ensure short throughput times. The SV 840 with 3D-machining is excellently appropriate as cleaning partner after a Cut-welder. The highlight: Even extremely small windows with a minimum clear inside dimension of 210x170mm can be synchronously machined on both sides with the SV 840.

FENSTERBAU FRONTALE

Latest news about windows in timber look

Windows in timber look (HFL) are the absolute mega trend in window manufacture for years now. It goes without saying that Urban will also dedicate to this topic on the Fensterbau/ Frontale 2018. We will not only show you -by way of example- outstanding solutions of sample corners in timber look, but also the fitting machinery equipment being necessary for materialization. With the suitable double head welding machine and the appropriate end milling machine by Urban, you are on the safe side for windows in timber look.

Current information / sales department

Changes in the team

Weirather is succeeded by Pauls, Mildenberger by Sontheimer

Generation change in Urban's sales team: At the end of 2017, two outstanding sales personalities retired. Alexander Weirather and Wilfried Mildenberger. Their successors are Andreas Pauls and Tobias Sontheimer.

„Of course, it's a big loss for us when „heavyweight“ veterans such as Wilfried Mildenberger and Alexander Weirather leave the enterprise as both have contributed to shape the family owned company in the course of their decade-long activities. In the name of the Urban families and colleagues, I want to thank the two of them from the bottom of my heart for all the great work they have done for Urban Company. They really did an excellent job“ explains Martin Urban.

Wilfried Mildenberger had been employed with Urban for 45 years - in other words during his complete working life. Alexander Weirather had been working for Urban for 34 years

In the footsteps of the experienced duo follow Andreas Pauls and Tobias Sontheimer, two genuine



Alexander Weirather and successor Andreas Pauls



Wilfried Mildenberger and successor Tobias Sontheimer



experts who had been working for many years as service technicians at Urban before changing over to the sales department

„Our successful sales strategy generally consists in employing technically experienced professionals in the field of sales activities. This

improves consulting qualities which is well received by our customers“, says Hermann Deller, head of sales for Central Europe at Urban

Ready for ideas of the future

Urban participates in technology hub

How can productivity in window production be increased through the so-called technology hub? How does smart manufacture revolutionize the future window production? And how can quality assessment be materialized sustainably although costs are supposed to be minimized at the same time for all processes?

These are only a few of the questions Urban GmbH & Co. Maschinenbau KG and further partners from industry and research are dealing intensively with. On board are also the Kunststoff-Zentrum SKZ (Plastics Center SKZ) Urban is cooperating with for more than 30 years as well as the RAL-Gütegemeinschaft für Kunststoff-Fensterprofil-systeme (RAL Quality Association for PVC profile systems for windows).

For more than 30 years, Urban is a significant partner in the field of industry and development for the industry related research at the Würzburg based Kunststoff-Zentrum SKZ (Plastics Center SKZ). Time and again, the machinery manufacturer and leading technology partner Urban participated in pu-



Michael Walther

bly subsidized research projects at the SKZ. Also a number of direct research work had been commonly concluded by SKZ and Urban such as the project „welding process development for fibre-reinforced PVC window profiles“ (2011 to 2012) or the project „innovative technologies for welding of mineral-filled and fibreglass-reinforced plastics“ (2011 to 2013).

„It's only logical and consequent that we address these topics together with leading partners in the PVC-window industry such as technology hub and smart construction. Processes of the future will be defined sustainably by top players of the industry cooperating and moving ahead together“ says Martin Urban.

„There are huge challenges the industry is facing and all

parties are invited to use the potentials of the future. Of course, this is increasingly handled through implementation and optimization of digital services. Industry 4.0 is only the first step in the field of window manufacture“ says Michael Walther, chairperson of the working committee „profile and machine“ of the Gütegemeinschaft für Kunststoff-Fensterprofil-systeme (Quality Association for PVC profile systems for windows).

Value added

Through technology hubs und smart construction ideas, the value added chains of construction element manufacturers (windows, door, roller shutters etc.) and suppliers of smart-home-products are supposed to meet in future with developers of building-information-modelling systems and software solutions but also with experts in the field of data transfer, architecture, planning and sustainable building. The objective is to develop partnerships, services, and product innovations with the focus on reduction of production costs and improvement of resource productivity.

Why window manufacturers rely on Urban's know-how

Replacement after 20 years

Höhbauer GmbH in Oberpfalz modernizes their PVC window production



Höhbauer
is taken care of by
Andreas Pauls

Contact:
08331/858-270
andreas.pauls@
u-r-b-a-n.com

Urban quality finally pays off - clearly to be seen at Höhbauer GmbH in Luhe-Wildenau near Weiden in der Upper Palatinat. Their old Urban production line has been running there at full power for more than 20 years before it was replaced by a new line.

„Technologically we wanted to move another step ahead; therefore we renewed the PVC production one year ago” explains production manager Reinhard Sixl.

Höhbauer invested in a new welding-corner cleaning unit including a four head wel-



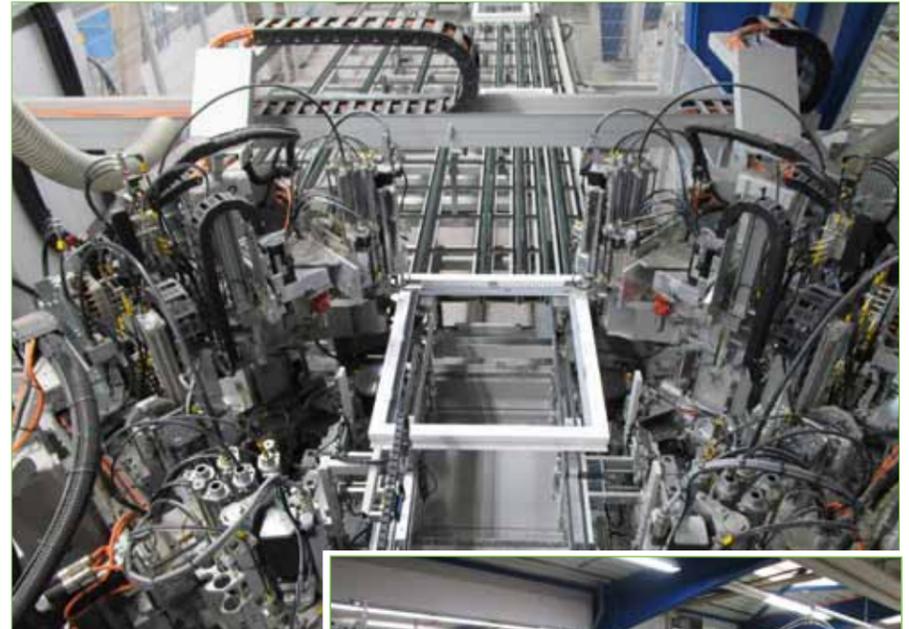
ding machine AKS 6910, a four head corner cleaning machine SV 800/4, an automatic sash assembly station FBA 2500, a destacking shelf ASR and further components for optimized logistics.

„A production line that has been running for more than 20 years is the best reference for a machine supplier. At Urban, not only production quality fits but also the consulting quality. Therefore, it was an easy decision to take” says Sixl.

Urban is again first choice

Thanks to the latest technology by Urban, the production process at Höhbauer could be simplified and accelerated. For Reinhard Sixl it was important to reduce the manual workload for his team.

Since its foundation in 1965, Höhbauer GmbH has evolved into a significant nationwide supplier of windows and doors made of PVC and wood. Optionally their windows are also available with aluminium cladding. At the company's location in Luhe-Wildenau, Höhbauer employs more than 300 staff members. Sales and moun-



The new SV 800 by Urban (above) and destacking of finished elements at right.

ting activities are handled directly as well as nationwide via trading partners.



New bonding station for wooden window production

swisswindows also relies on the Urban know-how for the wooden window manufacture

For Roland Sax, head of plants and production of the swisswindows locations in Müllheim, Mörschwil and Steinach, the matter is quite simple: „When it's about new technologies, Urban is the first choice for us.“

This trust is no coincidence as swisswindows had already taken many new paths together with Urban. In particular for the new technology of glass bonding, swisswindows relies on Urban quality. More than twelve years ago, swisswindows invested -as one of



the very first customers- in a glass bonding solution by Urban. Since 2013 they have been manufacturing the popular classico window system with the automated glass bonding station GVS by Urban. „We wanted to implement this degree of automation also in wood manufacturing in our wood-metal plant in Müllheim. We were studying different solutions and finally we landed again at the GVS by Urban

that offers the best possibilities for the manufacture of our wood systems” says Sax.

Wood-metal systems by swisswindows are supposed to become a hit not only for new constructions but also for renovations. Due to the concealed sash location and the slender profile face, more light may come inside as is generally known. „That's the ultimate trend

we can now also serve in the wood and wood-metal window sector thanks to the bonding technology by Urban” explains Sax.

DFor these requirements, the previous line layout was too much based on a craft-oriented level. “With the GVS by Urban we reach a higher degree of automation and thus we save some handling times.” says Sax. Absolute flexibility is now ensured in their production. „We do not bond all the sashes and can now pass elements simply through, if required.“



swisswindows
is taken care of by
Hermann Deller

Contact:
08331/858-246
hermann.deller@
u-r-b-a-n.com

swisswindows is not only one of the most significant suppliers of windows and doors in Switzerland but also one with the longest tradition. The company's roots reach back to the year 1912 when it was founded as a joinery and carpentry workshop by the name of Herzog. Today's swisswindows AG was established in

2009 through the consolidation of Dörig Fenster Service AG, Herzog Fenster AG and Kufag AG. This group of companies employs 200 staff members

