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Newsletter for our customers and business partners

Adressfeld

## Process optimization on highest level

Balancing zones cross-linked with VPA-software provide security

Process optimization at window construction only works if all processes in production are ideally matched.

"It depends more and more on perfect logistics and optimum networking of manufacturing plants with the buffer zones. The ones making reasonable investments in this field do not only save a lot of trouble but also a lot of time and money", says Gerhard Rogg, head of software development at Urban GmbH & Co. Maschinenbau KG.

It goes without saying that all production units such as welding and cleaning machines communicate together in modern window manufacturing plants. But this is only the first stage of the production process. It is equally important that the further processes, such as sash assembling, assembling of aluminium facings or transom assembling are taken into account. This does not only end with the wedding of sash and frame or glazing but also goes on up to the optimized outfeed (customer dispatch assignment) of all units which belong to a specific order", says Rogg.

### Manufacturing process under control

Thanks to an ingenious VPA software being used by Urban for their distribution buffer system (VPA), innovative window production companies have the complete manufacturing process under control from A to Z. "A" starts with the batch-optimized equipment of the machine provided that the machine can work through a batch with high speed and without retoo-



Gerhard Rogg, Manager Software Development

ling. The process only ends at "Z" when the elements will come per order through the outfeed conveyor.

"Through the use of multiple distribution buffer systems we create the necessary balance zones for the optimum production process. At each balance zone, a control PC communicates with the remaining production components so that the assignment of sash, frame and glass is always ensured", explained Rogg.

In addition to the high gain in time and the transparent process, there is still another advantage: Since the transport of all units takes place fully automatically, the production staff will be relieved considerably. "No staff member has to carry a heavy-weight 2x2 meter element manually from A to B. Also under ergonomic aspects, this is an absolute asset", emphasized Rogg.

### No more carrying

Instead of handling heavy elements, the staff members only have to take the light-weight hand scanner to scan the barcode at the element. On the display they can see at once whether the matching frame and sash are available in the destacking shelf for marriage. Even if a sash or frame will be damaged during production, the process chain will not be interrupted. Easy and uncomplicated programming of so-called "quick trailers" and by-pass on a fast track along the remaining production.

The company gains a decisive benefit through the VPA-networking with the Urban software. For the first time ever the complete production process can be monitored. "Every single workstation can be monitored. So you promptly can see in a case of ur-

gency where the problem is and respond much faster", says Rogg.

No wonder that more and more companies turn to the logistic know-how of Urban. "By steadily advancing the development, we have meanwhile installed more than 200 automatic logistic plants all over the world", explains Hermann Deller, sales manager for Central Europe. That's the reason why Urban is the leading company in this field too.

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### EDITORIAL

#### Dear customers,

The satisfactory activity in the construction industry continues worldwide and consequently the window production industry benefits from this too. The Urban-Group is able to look forward to great new projects in Germany, North America and North Africa.



Martin Urban

By contrast, the prospects for Eastern Europe, however, are still dull because of the Ukraine crisis and the recession in Russia. The market in this region has completely collapsed and is unlikely to recover soon. All the more it is important for us to be well positioned on all markets and noticed as the leading supplier of elaborated technologies.

This edition of Urban News proves that we do not run out of ideas. We herewith do not only present our successful logistic concept but also interesting projects that we could materialize together with our customers.

Our commitment is not only offering the best machines and plants but also the best consulting and best service in window production.

Yours

Martin Urban  
Managing Partner



Why window producers rely on know-how made by Urban

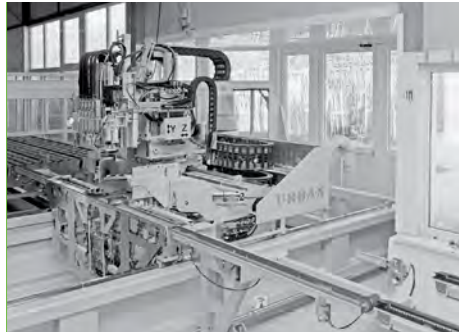
# A winter garden for the SV 840 at Fresand

Fresand in Steffenshagen: Even if things get tight, Urban has a solution

Normally, the window and door specialists of Fresand GmbH, headquarter in Reddelich/Rostock, deliver their high-quality components including winter gardens exclusively to their customers.

An interesting exception to that rule, however, was made by the company in their own interests: CEO Harald Frehse and Udo Pollex, production manager of the PVC window production at the Steffenshagen location was in need of more space for the exchange of the production line to place their new SV 840 from Urban. Without further ado, they cut open the wall of the production hall and a 6,50 x 3,40 m winter garden was installed at the end of production line for the corner cleaning machine from Urban.

"It was Fred-Karsten Karl from Urban's sales department who had the sparking idea. It also was this kind of unconventional proposal which convinced us that Urban is the ideal partner for the new investment. Only thanks to this idea, we were able to reach our ambitious



target" praised Udo Pollex the high consulting quality of Urban's sales department.

## Double capacity

The requirement was to double the capacity in production by replacing the production line. "We've made it. With this new line we achieve in one shift a volume which we previously only reached in two shift operation with many overtime hours", illustrates Pollex the high savings potential of the new Urban line consisting of two four head welding machines AKS 6410, corner cleaning machine SV 840, sash assembly station

FBA 2500/2 with two axes and a combined destacking unit for sashes and frames.

Amazing for Fresand: In the combined sash/frame line, all work stations can work independently (self-sufficient) from each other. Thanks to cross linking with VPA-software which Urban has developed for its distribution buffer system (VPA), the window frame automatically gets the suitable sash for marriage.

The investment in process optimization does not only save time and money but also relieves staff members in the production. Due to

the fully automated transport, none of the employees has to carry heavy elements across the hall as before", says Pollex being happy for his colleagues.



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FENSTER + HAUSTÜREN  
**FRESAND**



Urban-Sash-Frame-Line at Fresand in Steffenshagen.

# Quickly prepared for the new S9000

Arndt Fenstertechnik has been a satisfied customer for more than 30 years.

An integrated six-chamber profile in frame and sash, a single steel reinforcement for sash and frame, three continuous sealing levels and a high glass inset due to an overlap height of 26 mm: These are the characteristics of the new PVC window S9000 of Arndt Fenstertechnik comes up with.

A corresponding conversion of the Urban production lines was necessary to enable the window manufacturer from Gat-

tendorf to produce their components suitable for passive houses in a process optimized way.

## Content with Urban service

"Everything ran really smoothly. The support provided by the Urban service was excellent again", says Thomas Arndt, managing director of Arndt Fenstertechnik GmbH is pleased to say. For more than 30 years, the family owned enter-

prise has trusted in Urban's know-how in their production. This has now paid off once again. Without downtime, the production equipment had been converted in the running production to the new profile system.

## Optimally adapted

Especially at the cleaning machine SV 800, several adjustments had to be made. So the Urban-experts of service manager Werner Häring exchanged –among others- complete tool sets and restriction knives. At the welding machines, new aluminum jaws for fixtures were installed. They also adapted the software for Urban machines to fit to the new profile system featuring a modified installation depth of 82,5 mm and an excellent thermal insulation value of  $U_f = 0,89 \text{ W/m}^2\text{K}$ . "This project shows the high investment security our customers may enjoy", says Hermann Deller, Sales Director for Central Europe at Urban. Thanks to the anticipatory design at the installation of the SV 800 eight years ago, it is ensured that an easy retrofitting is possible lateron. "Urban has kept its promise, as always", says Thomas Arndt.

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New customer center by Arndt Fenstertechnik



Welding and cleaning line by Urban at Arndt Fenstertechnik

Why window producers rely on know-how made by Urban

## Moving into a new dimension with Urban

Feba Fensterbau GmbH has found the right partner



The three-stage production plant at Feba Fensterbau GmbH in Burbach, Siegerland was a special kind of mammoth project for Urban GmbH & Co. Maschinenbau KG.

Not less than 53 truck loads were required to install the equipment for a new special production line -two frame lines and two sash lines- in the three production halls. Since that time, 10 four-head welding machines, type AKS 6600, 5 corner cleaning machines (four SV 800 and one SV 840), 3 automatic work units for sashes FBA, 1 glass bonding station GVS as well as the necessary logistic installations do the work reliably. A whole lot of frame work stations and overlap saws being neutral in view of cycle times make the Urban machinery package complete.

### The best concept

"Urban has offered us the best conception how to vitalize our production to cope with the challenges of the future. The objective was to increase the capacity by 30 percent in the PVC production. This is definitely possible with the new investment", explains Thomas Menk, Authorized Signatory and Technical Director of Feba Fensterbau GmbH.

Feba's PVC manufacturing facility has a potential capacity of 1200 window elements per eight-hour shift now. With their new machine partner, Thomas Menk and his team are sure to be in very good hands. "In view of such a large investment, it is important that you find a reliable partner with extensive experience

and sophisticated technological know-how. Moreover, you also have to be confident that this partner will exist not just today and tomorrow, but also the day after tomorrow. With Urban this is the case", says Menk who is looking forward to a long-term co-operation.

### Risking the new

With Urban as a new machine and system partner, Feba began with something new. "We started with the adhesive technique in the field of special manufacture. We did not have this processing step in our manufacturing process so far", says Menk.

### Major projects prevail

Sure that also the project

team of Urban GmbH & Co. Fensterbau KG in Memmingen was really challenged by this installation. "Each of the three installation phases was a major project by itself regarding the dimensions" explains project manager Uwe Pfahl being very satisfied with the progress. Especially because the Urban technology keeps in practice what Uwe Pfahl and Wilfried Mildenerger from sales department have promised in their cycle time calculations.

By optimizing the process, a faster and more efficient throughput of the elements could be achieved", said Pfahl. The result was an automatic production at its highest level. Process optimization and highest flexi-

bility are granted thanks to the fully networked production where not only the production machines communicate with each other but also the distribution buffer systems. Thus, the Feba employees can access individually all elements in the special manufacture division and in both frame lines without losing time by searching.

Feba's order is a great reference for us. Especially since the company is a new customer. All the more I am glad about the confidence placed in us by Managing Director Karl-Heinz Flick, Authorized Signatory Thomas Menk and the whole team", says Martin Urban,

**FeBa**  
Fenster und Türen

The Feba Fensterbau GmbH attended by Wilfried Mildenerger

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Uwe Pfahl

CEO of Urban GmbH & Co. Maschinenbau KG



Production at Feba in Burbach

## Convinced all along the line

Balet + Roux in Martigny swears by Urban quality

Urban once, Urban always. For Dève Roux, CEO of Balet + Roux PVC Fenêtres et Portes based in Martigny in French-speaking lower Valais (Switzerland), the matter is clear:

"In future, I exclusively want to cooperate with Urban as this works perfectly". In 2012, Roux invested for the first time in Urban know-how by purchasing a glass bonding station GVS and was instantly impressed. When the time had come to replace their existing production line for PVC windows, the Swiss window manufacturer wanted to be on the safe side. Dève Roux did not only browse

around the Fensterbau 2014 intensely but also visited the production plant of Urban in Memmingen.

### Convinced by consulting

Not only the visual impression, but also the advices provided by Faruk Polat from the Urban sales department convinced: Meanwhile, a new Urban 4-head welding machine AKS 6410 and a new Urban corner cleaning machine SV 530 with turning table WT 535 work besides the glass bonding station GVS to the complete satisfaction of Dève Roux and his team.

Eleven years ago, the company launched the production of PVC windows. Before, they only produced windows and doors made of wood. "At that time, we could buy a priceworthy complete second hand line and seized this opportunity", said Dève Roux. The development has progressed rapidly: "Now, 80 % of our windows are made of PVC with upward tendency", told us the manager.

**Balet + Roux**  
Sion - Martigny



Balet + Roux PVC Fenêtres et Portes attended by Faruk Polat

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View into the production of Balet + Roux in Martigny



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## YOUR DIRECT LINE TO THE SERVICE DEPARTMENT

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## Tip:



## Glazing beads: That's the way how it will work even with small windows

The Urban glazing bead saw ensures butt-milling of the profiles. Thus, easy insertion is possible without bending!

### Advantages of Urban solution:

- + Pairwise processing of glazing beads
- + Only one fixture for different widths of glazing beads (universal fixture)
- + Adjustable cutter set (with or without chamfer)
- + Quick and easy insertion of the glazing beads.

**You have questions? We are happy to help you.**



## Technical novelties

# Improved functionality with a new look-and-feel

The new generation SV 530-C: High efficiency control technology and convenient operation



The SV 530-C by Urban

The extremely flexible CNC-Corner cleaning machine SV 530-C for PVC window profiles is one of the classics in Urban's machine program.

A thorough technological update had been done on the machine which appears on the market now with advanced features and further improved performance. The increased efficiency is based on the application of the latest control and drive technology.

So the newly installed control offers advanced possibilities of CNC programming and additional features for the individual corner cle-

aning, e.g. with the inside cleaning cutter. Depending on machine execution, also machining beyond the corner (3D) is possible, e.g. for covered fittings.

### Optimal safety

The use of the servo controller with its above-average control performance ensures even more accurate and also faster machining. The certified safety function STO (Safe Torque Off) is integrated in the controller as standard. If required, extended security functions are available. A powerful IPC with touch screen is the operating

platform. Thanks to the close cooperation between Urban and their automation specialists, it was possible to integrate the proven functionality and performance features in the new concept of user guidance.

This facilitates the transition to the new machine generation and guarantees a seamless continuation of the user-friendly handling. The connection to other machinery and manufacturing facilities has been expanded further and is therefore as straightforward as before.

## Come over with the wooden windows!

The FBA 2500/2 also speeds-up in wood machining

After its big brother, the four-axis assembly station FBA 2500/4, the two-axis model FBA 2500/2 can now be easily used as well for the assembly of window sashes made of wood.

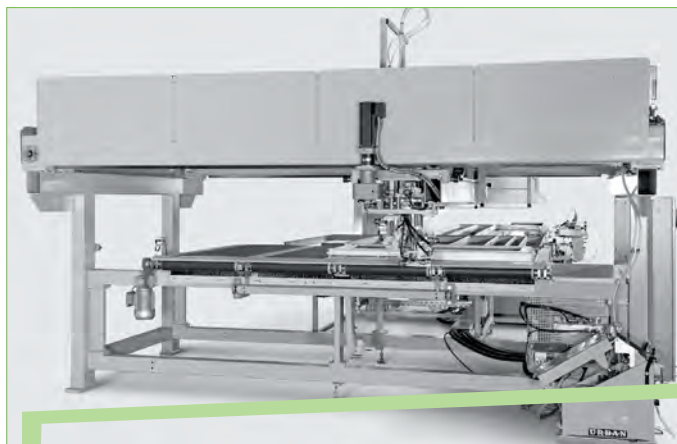
"In the past we had many inquiries from enthusiastic customers with the request to transfer the FBA comfort in the field of PVC manufacturing also to wood production. Now we succeeded in doing this and so nothing stands in the way anymore for comfortable sash machining of wooden windows" explains Martin Urban, CEO of Urban GmbH & Co. Maschinenbau KG.

### A must have

In many window productions the FBA 2500/2 by Urban is considered to be a "must have" for the assembly of fittings. Contrary to other commercially available, fully automatic fitting stations, Urban has developed a completely new machine concept with the FBA 2500/2 ensuring that sash elements no longer need to be rotated. That means, both of the two CNC-controlled axes are no longer stationary fixed with rotation of the sash. Now, the processing units are rotating around the sash.

This method turns the 2-axis screwing unit FBA 2500/2 into a real "fast-runner", as processing is carried out independently of the machine operator and thus the screwing unit can come up to full performance. Work flow and process flow are perfectly coordinated with each other and there are no unnecessary delays as it occurs with other technical solutions.

No unnecessary shocks or scratches happen to the sash element as it does not have to be rotated any longer. This ensures a trouble-free operation. A further technical highlight of the 2-axis screwing unit



The FBA 2500/2 by Urban

FBA 2500/2 is the newly designed clamping system. With this clamping system, the elements will no longer be clamped on the inside allowing also the machining

ning of all balcony doors with filling or already glazed elements.