

Case Study – Input Joinery

The following Case Stories are a few examples on how OERTLI can provide the specialist knowledge to ensure that the highest quality products can be produced using the most efficient methods.



Input Joinery (incorporating Brightwood Conservatories) is a leading manufacturer of Quality Joinery products including Windows and Doors, Conservatories, Orangeries, Sunrooms and Staircases. Input Joinery is a family firm which was founded in 1979 and have strived to be at the forefront of supplying quality products using the latest modern production techniques.

In 2009 it was decided to make more investment to increase productivity due to high demand. A Weinig Contorex Window Machine was ordered and OERTLI were invited to offer a tooling solution.

OERTLI then studied the following:

5 types of Windows and 4 types of Doors, all fully finished, each with 4 different profiles. The machine specification, including Tool changer capacities, Production and Installation re-quirements were analysed.

Several meetings took place with Optimisation of Window and Door designs and jointing systems which resulted in additional products added including 2 types of Door frames, jointing systems for Door frames, jointing systems for Sliding Sash frames and Conservatory roof products.

OERTLI were then chosen to be the tooling partner for Input Joinery.



Gerald and Martin Ruddick



Main Tool Changer



2 of 3 Tool Carousels

Comment from Gerald Ruddick, Managing Director

"OERTLI were chosen as our Tooling partner because of the expertise in the UK Window Industry. Assistance was given by OERTLI from day 1, with design suggestions for Window/Door and Door frames and machine/tool solutions. The communication between Input, OERTLI and Weinig was working all the way through the project to ensure the production processes were kept at an optimum level.

The support from OERTLI continued when the machine was supplied, giving onsite training on tool applications, feed speeds and work flow processes. The OERTLI tool programming data sheets enabled the machine and software installation to run smoothly.

The ability to produce a completely finished excellent quality sliding sash window, with Horn, without

any secondary machining has provided an excellent production time saving."

Case Study - Westbury Windows



Westbury Windows and Joinery

by Alan Briggs
CEO OERTLI tooling UK.

Westbury Windows and Joinery was founded in 1992 following the success of its sister company, Westbury Garden Rooms, and a demand for a stand-alone range of timber windows and doors. Over 25 years they have developed an impressive reputation across the UK for design, quality and durability.

Westbury is architecturally led and director John Mumford has developed their products with a passion for technical accuracy without compromising on appearance. Each item is manufactured with the same care, timber, paints and ironmongery as with their garden rooms, combining classic design with modern technology, and precision machining with skilled hand-craftsmanship. Their products are independently weather and security tested by a third party UKAS accredited test centre. Their products achieve a U-Value as low as 1.0.

Westbury's manufacturing facility in Essex extends to over 27,500 ft² and has under-

gone a huge investment in acquiring the latest technology. However, with the relentless desire to improve both the product and production efficiency, Westbury looked closely at the core of its component production the Weing Conturex CNC machining centre which produces fully machined window and door parts. More throughput was required at the Conturex while at the same time, product development was moving fast with 3rd generation sliding sash, casement windows and doors in prototype testing.

Reducing machining time, improving surface finish

Here, was an opportunity for new tool concepts to improve production whilst implementing the new product range. John Mumford's extensive manufacturing experience led him to contact OERTLI UK whose technical competence was already well proven in supplying the majority of all of the UK installations to make fully finished components on CNC machining centres.

John explains: "From our 1st meeting OERTLI were able to advise the most efficient way. They were also able to provide input in optimising section detail so fine tuning the tool design, reducing machining time and improving the surface finish and fit. Upon the finalisation of window/door designs, OERTLI constructed and explained the tool concept to our production staff. This helped us to understand how the tools would work, and also to add any further input as OERTLI were also providing tool programming data to insert into our production software".

John Mumford summarises: "The project installation was intricate, with Westbury, OERTLI, and software working in partnership to deliver the new window and door designs. We are delighted with the results, the fit and finish is excellent, allied to considerable time savings in processing sash components."

www.westburyjoinery.com



Production hall at Westbury Windows and Joinery



High performance casement window

"The tool concept was designed by OERTLI UK staff who understood our product, the way our machine works and our objectives to ensure a successful tool installation."

John Mumford, Director Westbury Windows and Joinery