



**OERTLI**   
Excellence in solid wood

**Project supervision  
from OERTLI**

Your new window system  
in ten steps

# Ten steps to a new window system

You have an idea for window or door production, but haven't yet chosen which tool system to implement?

**Our experienced experts will advise you throughout the project, speeding up your vision,** and putting knowledge from over 90 years of window and door production at your disposal. We will be happy to advise you on the development of window systems for your target markets and will prepare corresponding sectional drawings.

We can also provide you with diagrams and data you need for a quick, simple, and clear CNC programming. We will also provide you with structured, collated documentation in physical and digital form. And with our training you will be able to carry on your work independently in future.

**Save yourself valuable time and development cost which you can invest efficiently in your production instead.**



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## Development

### Developing window systems

#### Feature

- Looking to manufacture a new window system or revise your range of window products?
- From requirement analysis
- To working out the first CAD data and the final presentation by our window experts.
- Together we work out the ideal window system to suit your needs.

#### Advantage

- Benefit from over 90 years of experience in international window production.
- Our experts understand the window market and its specific needs.
- We have the infrastructure to provide you with planning and production documents.
- Our solutions take into account: Machinery production processes and pre-existing framework conditions as a whole.

#### Benefits for the customer

- No need to use your own resources / fixed costs, just variable project development costs.
- Professional project development in a short time
- Low development costs, as misappropriation can be avoided
- Significant cost savings and / or increase in production, thanks to adapting window systems to suit your existing machine technology and production process.

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## Documentation

### Tool-relevant sectional drawings

#### Feature

- Section drawings are the basis for tool construction.
- Windows are designed in a completely closed state, including aluminum casing, seals and others.
- All tool-relevant section drawings and end profiles are documented.
- Tenon location is drawn in correctly.

#### Advantage

- Section drawings are drawn to an accuracy of 0.01 mm.
- Relevant technical details such as gap size, seal thickness etc. are checked as early as possible.
- All tools are available for the relevant end profile.
- Potential slate formation is identified as early as possible.

#### Benefits for the customer

- High dimensional accuracy of tools guarantees excellent production quality and process security.
- Outstanding product quality from the very beginning
- No project delays caused by missing tools, saving time and money.
- High product quality ensured.



## Development

### Tool and drill implementation concept

#### Feature

- Number of tools and tool changer positions are defined.
- Clear production process
- Drill patterns, dowel patterns and diameters, and modular dimensions defined.
- Documents available for external preparation.

#### Advantage

- Basis for machine configuration
- Potential counter and empty runs identified
- Aggregates are ordered in time
- Excellent process security and serious tendering for the tool

#### Benefits for the customer

- Machine performance calculated before purchase
- Strong basis for short-term to long-term production planning
- Internal resources can continue to focus on core business.
- No delays in project
- No malinvestments by wrong configuration



## Project supervision

### Coordination meeting

#### Feature

- Section drawings are done
- Tool concept available and drawn
- Basic schedule agreed upon
- Records of agreement drawn up in writing.

#### Advantage

- Open questions can be resolved
- Profile priorities are defined
- Machine configuration and tool concept can be reviewed very early.
- Clear who will do what by when
- Agreements and decisions are easy to comprehend.

#### Benefits for the customer

- Best possible project process guaranteed, saving time and money and ensuring a successful project.
- No changes afterwards, saves time and money
- Clarity means a transparent further process with less discussions afterwards, saving time and money.



## Documentation

### Wood profile drawing

#### Feature

- Tool sequence in case of splitting is immediately obvious and clearly defined for every profile.
- All relevant programming data are clearly visible on each drawing.
- Tools needed for the end profile are listed with item numbers.

#### Advantage

- Machine operators can run quick analysis
- Quick programming during installation supported
- Quickly identify which tool is milling which profile / sub-profile.

#### Benefits for the customer

- Save time when adjusting profiles, lower downtime costs
- Programming time reduction, optimising project time and saving costs (less programming effort).
- Sources of errors minimised, ensuring that the project runs smoothly. Save time and money.

### Programming and documentation

#### Feature

- Logical data documentation
- Clear presentation of relevant data in one document
- Specific data, such as tooling outlines, depending on machine provider
- Graphical presentation of processes (3D optional)

#### Advantage

- Requirements of all machine manufacturers fulfilled by OERTLI.
- Detailed crash simulation data
- Uniformity suitable for overview

#### Benefits for the customer

- No crash costs in the future
- Consistent logic for easy understanding
- Cost savings thanks to reduced programming time and optimised project duration
- Save time and money thanks to smooth process and less sources of errors.
- Reduced downtime cost caused by adjusting profiles

## Window documentation

### Feature

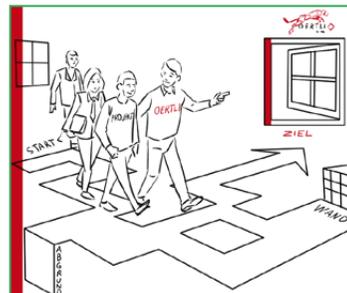
- Cleaner and coherent folder structure
- Two copies of printed documents
- Online version as PDF

### Advantage

- Customers and machine providers receive same documents
- Documentation can be reproduced at any time
- Machine operators easily find their way

### Benefits for the customer

- Professional presence thanks to professional sales documents
- Save time and money
  - ... thanks to quick, comprehensible communication
  - ... thanks to quick analysis
  - ... when compiling new documents
  - ... by transparent processes from work preparation to production



## Supervision until acceptance of work

### Feature

- Tool experts at your premises

### Advantage

- Tool-relevant questions can be resolved immediately.
- Causes can be explained immediately if specification sheet has not been adhered to. No assignation of blame to parties not present.
- Measures for unresolved tool issues can be initiated immediately.
- Optimise results by adjusting input data (RPM, feed speed, cutting speed), implement immediately on site.

### Benefits for the customer

- No delays, planned commissioning is guaranteed, save time and money
- Follow up costs are already optimised at the beginning of the project.



## Training

### Employee training

#### Feature

- Correct operation of tools and individual knife seats explained on site
- Correct cleaning and maintenance of tools explained on site
- How to read drawings explained
- Training in handling of knife lists

#### Advantage

- Best possible level of knowledge and training for machine operators prevents mistakes in operation
- Best possible level of knowledge and training for machine operators guarantees ideal tool maintenance
- Knife lists support optimised and streamlined order management.

#### Benefits for the customer

- Increases lifetime of tools and reduces knife and follow-up costs.
- Increases lifetime of tools and reduces knife and replacement part costs.
- Saves time and money in procurement, and guarantees availability of replacement knives at all times.

### Installation at customer premises

#### Feature

- During acceptance at your plant, not only the main systems but all relevant systems are accepted by OERTLI experts.

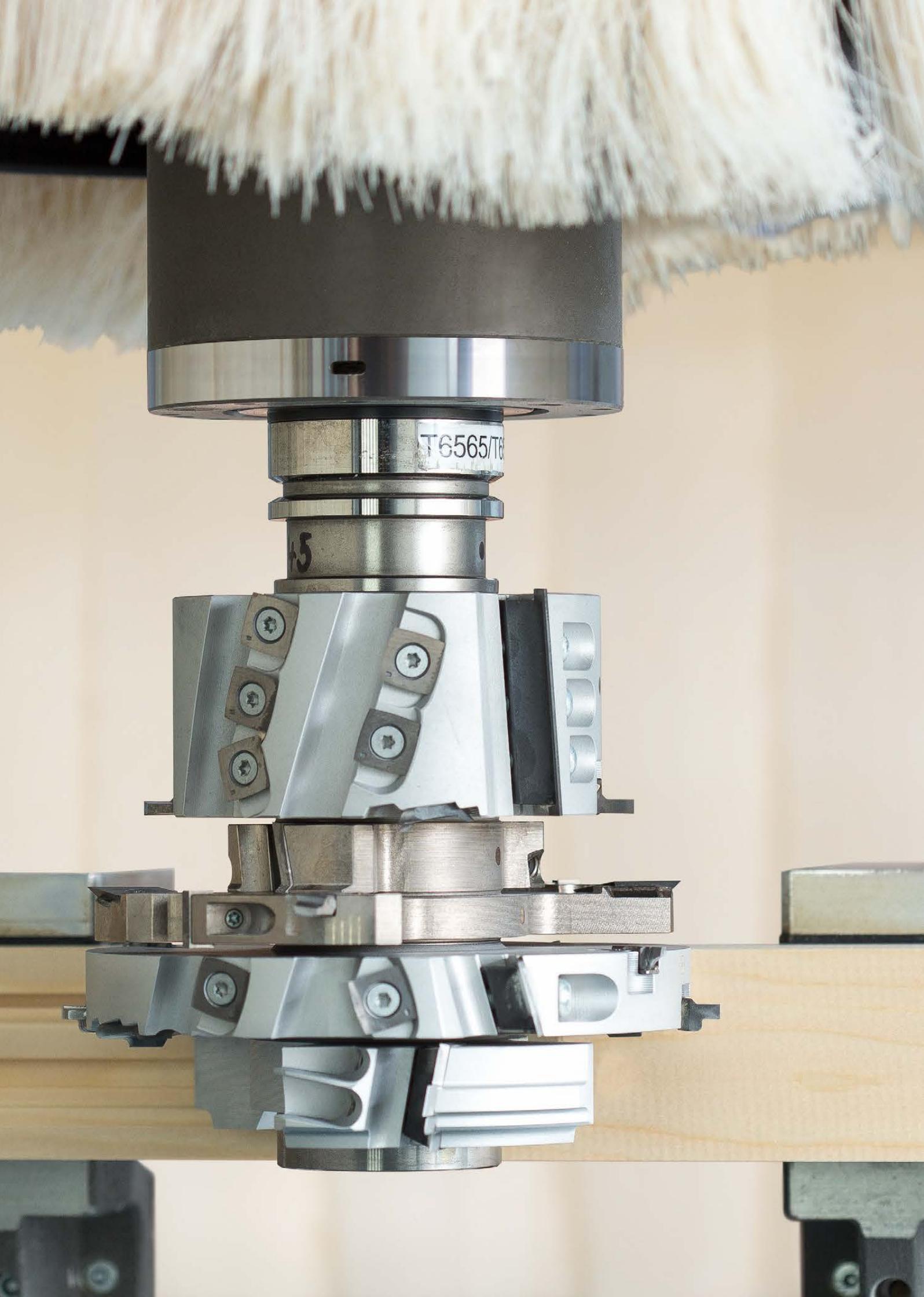
#### Advantage

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### Project supervision



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