

Quality Guide

Perceived Value of Tools

- Valuable
- Sustainable
- Economical



A Tool is a valuable Asset

The days when all tools looked pretty much the same are long gone. Today, there is a huge variety of tools on the market. Making the right choice is not always easy.

Top quality tools offer a high degree of technical sophistication. There are important details which differentiate these tools from low-price no-name products. The quality of the materials, the technology, the workmanship and the support provided by the manufacturer are the factors which determine whether the user is able to produce high-quality results after these tools have been in use for a long time.

Sales figures for low-cost producers show that purchase decisions are often price-driven. Other factors such as product quality and safety are merely a secondary consideration in many cases.

If you make your purchasing decisions based on price alone, you will wind up paying more in the end. When you consider that the money you spend on tools is only a small percentage of your total cost but the tool has a decisive influence on the quality of the workpiece, a high-quality tool is obviously the right choice.

We set the standards

aching tools and machines form a unit. Only by using quality tools can you make products that delight your customers.



“Our clients rely on a head start thanks to quality, economy and resource efficiency. Best results and top performance are achieved by the HOMAG Group’s high-tech machines, especially in combination with tools from the best manufacturers. We look at our clients’ complete production process and align all components in an optimum way, above all the tools and the machines, to achieve highest productivity.”

Jürgen Köppel, Vorstand Homag Group AG



“Safety, reliability and efficiency are the nuts and bolts of tool purchasing. Therefore, we buy from the best”.

Herr Ralph Glorim, Vorstand Technik LEICHT Küchen AG

Sustainability pays off

Woodworking companies have always been committed to sustainability. For generations, high-quality, aesthetic and durable products have been made from the most environmentally friendly of all construction materials. A valuable contribution towards this is made by tool manufacturers – on site with reliable service throughout the whole life cycle.



“Resource efficiency is imperative now. Clients honour the supplier who is committed to sustainability. Machine and tool manufacturers have suitable solutions so that their clients can be a step ahead of their competition.”

Wolfgang Pöschl, Vorstandsvorsitzender Weinig AG

Many are talking about resource efficiency – We have solutions

BLUECOMPETENCE

Engineering a better world

Quality Circular Sawblades

The difference between good and bad quality is not to be found in the outward appearance, but it is rather the inner values that separate the wheat from the chaff.

Saw body, solder and cutting material do have a decisive influence on the properties of the circular sawblade and thus the cutting quality and tool life, the main criteria against which a circular sawblade for packs of material or individual boards is measured.



- Sawblade adjusted to the application
- Quality of the raw material (steel, solder, carbide)
- Adjusted design of geometries (saw body & tooth)
- Correct tool service

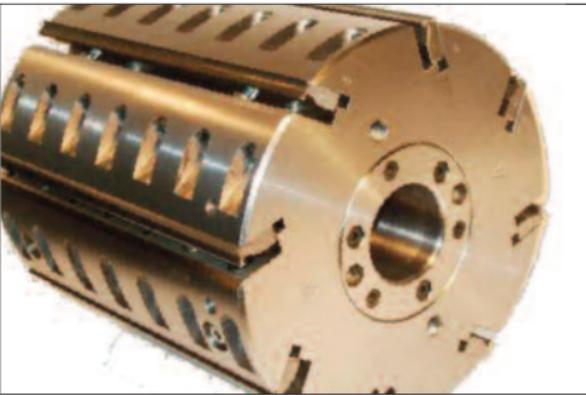
Tip

Advice is the beginning of quality:

If machines and plants are to be operated with optimised processes and highest possible productivity, the required circular sawblades are to be ideally adjusted to the conditions of production.

Quality Planing Tools

The price of a tool is of increasing importance. What can be assumed with respect to the service life and planing quality of the tools? How can the quality of a tool be viewed over the entire service life of a tool?



- Does the tool show any damage?
- Clean workmanship of the tool, surfaces as if ground
- Check the marking
- Are the general dimensions in conformity with the order?
- Check the bore tolerances

Tip

The planer head is of particular importance for the planing quality, however, the machine state, machine adjustment and wood quality may also not be disregarded.

Shank Tools

Shank tools for sizing, profiling, grooving, and milling light openings, including lockset cutting, are a decisive factor in determining the performance and versatility of CNC machining centres. Improved finish of the cutting edge on the laminated panel, surfaces free from scoring and tearouts with all materials, and smooth, step-free transitions are the quality features the user demands.



- Design: Sturdy, robust body and secure tip seats
- Machining: Fine machined tool surfaces
- Geometry: Shear angles on the cutting edges and helical flute
- Materials: T.C. grade and body material
- Finish: Sharp cutting edges and cutter relief at the back

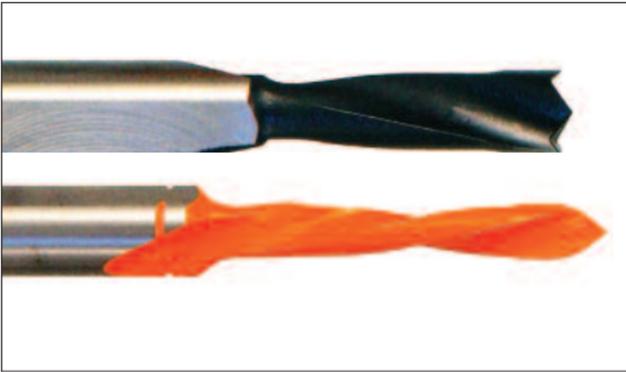


When purchasing tools, trust in the advice of your specialist dealer or tool manufacturer. Benefit from the economic advantages of choosing the right cutting materials. To improve the surface quality and tool life, always use the shortest possible tool, taking account of the required minimum clamping length.

Tip

Drills

Carbide-tipped blind-hole or through-hole dowel drills are among the most indispensable tools in the furniture industry. When used in automatic boring machines or CNC machining centres, hole edge quality and tool life are the decisive quality criteria.



- Quality: Brazing and transition from the T.C. head to body
- Tolerances: Shank and clamping flat
- Geometry: Negative spurs
- Materials: T.C. grade and body material
- Coating: Thin (!) Teflon coating



Tip

Always purchase drills either directly from the manufacturer or from your competent specialist dealer. Thus, you always have an economic advantage through the excellent quality. And you can be sure to get the technologically leading product.

Window Tooling Systems

In the window construction the requirements for a tooling-system are very different due to the machine concepts. CNC-machines for example depend on the lowest possible weight of the tool set. For compound tools, the knives must be in the position to be changed quickly and precisely. The cutting quality and the used cutting material is decisive for the product quality. The productivity of a tooling system decisively depends on the running accuracy and the balancing quality.



Optimal profiling results by ...

- edge division within the single profiles
- arrangement of the cutting edges with shear angle
- optimum grinding quality of the edges

Reduction of machine down-time by ...

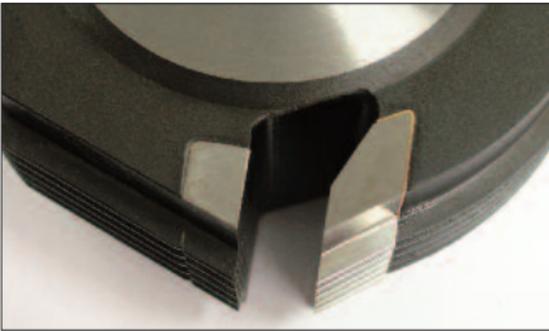
- easy knife change also in the cutterset
- knife-positioning without setting gauge
- Tools with aluminium body increase the dynamic of the process

Make use of the advisory service and the range of services of the leading tool producers, who will have a helping hand on your way to an efficient window production.

Tip

Cutters

The rating of cutters not only depends on superficial quality characteristics but also on the suitable design of the cutter which is very decisive for the respective application. Tools that are economically priced at first sight, can be very expensive in the application, because they don't provide the expected machining quality or they are too detailed or inaccurate in handling.



- Round-shape tooling reduces the free running noise
- Balance-borings are visible quality characteristics
- Sharp edges produce a finish-surface without grinding
- With the correct coating the performance time can be at least doubled
- The thickness of the cutting edge considerably specifies the number of regrindings
- Tools marked with „MAN“ reduce the danger of the workpiece kick-back



Pls. consider shape and edge.

By round-shape tools you reduce the noise level. By the selection of the proper cutting material – possibly with coating – and a high-grade cutting quality, your tooling only becomes economic.

Tip

Clamping Systems – The Interface for your Success

Clamping systems are the decisive link between tool and machine spindle. Tool life, workpiece quality as well as work safety are decisively influenced by clamping systems.



- Eccentricity of the total system
- Low weight
- Low imbalance
- Clamping systems compliant with the norm
- High-quality steels



Tip

Clamping technology assumes a key position with regard to machining quality and safety technology. We recommend you to rely only on products of renowned manufacturers and take detailed advice. Because the purchase of clamping systems is a matter of trust!

Finger Joint Cutters – Quality is in the Details

Finger joint cutters are cutters with bore applied as brazed tools or as cutterhead version.

There are four kinds of finger joint cutters: brazed finger joint cutter, disc-type finger joint cutter, finger joint cutterhead, finger joint cutterhead system.



- Body made from high-tensile tool steel
- Precision of hub and bore
- Profile truth and cutting edge preparation
- Solder joint
- Cutting material



Safety and constant quality of the high performance tool provide for the necessary productivity in industrial manufacturing. This can be reached only by long-standing production know-how and a high-performance development in collaboration with machine manufacturers and customers.

Tip

DP Tools

To get an optimal economic result when using tipped tools it's most important to have a look at all parameters. The manufactured quality is of utmost importance.



- Exactly produced toolbody, high corrosion protection.
- Shank, borehole, cone and installation surface must be fine turned and honed.
- Rigid packaging for transport.
- Outfilled dimension sheet to have exact CNC data.
- Quality grade of banking?

Tip

An “allround tool” does not exist.

Your dealer should give you a very specific, exactly for your requirements defined offer. Only doing it this way guaranties a most economic result when using DP tipped tools.

VDMA

Woodworking Machinery

Lyoner Straße 18
D-60528 Frankfurt
Germany

Phone +49 69 6603-1340
Fax +49 69 6603-1621
E-Mail infoholz@vdma.org
Internet www.machines-for-wood.com



AKE Knebel
www.ake.de



Jakob Schmid
www.jsso.de



Leitz
www.leitz.org



Leuco Ledermann
www.leuco.com



PREWI-Schneidwerkzeuge
www.prewi.de



www.machines-for-wood.com