



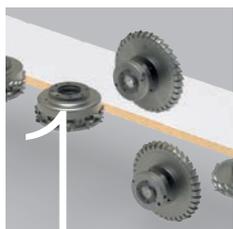
The Leitz Powerpack

Performance improving technologies
for furniture manufacturing



Perfect results. Maximum efficiency.

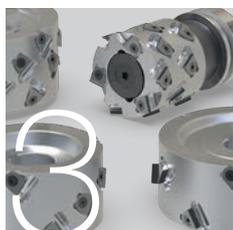
The economical machining of modern furniture panels requires the highest quality, flexibility, and process reliability. Innovative Leitz tooling solutions enable perfect machining results and significantly greater efficiency throughout the entire manufacturing process. The eight technology highlights represent professional solutions for furniture and interior construction – reliable, flexible, and powerful for all batch sizes.



Jointing concepts Page 4



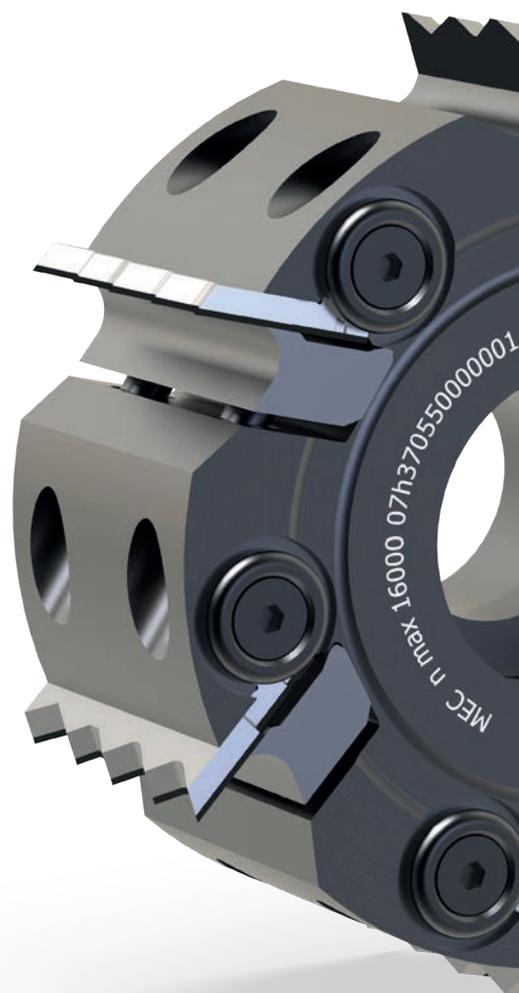
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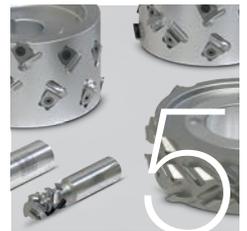
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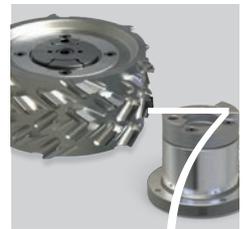
ProfilCut Q
Diamond

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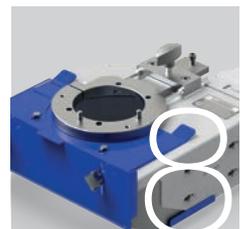
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1 Jointing concepts

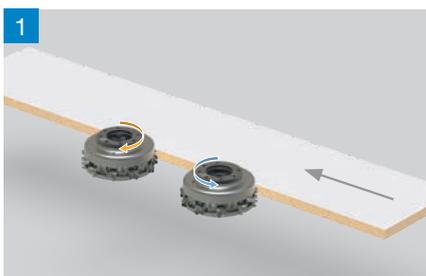


Furniture panel processing with high quality requirements is an economic challenge in many cases due to the variety of materials. When jointing the furniture panels, there is increased wear on the tools in the area of the covering layers and the processing quality decreases. This results in high costs due to frequent tool changes and excessive stocks of replacement tools.

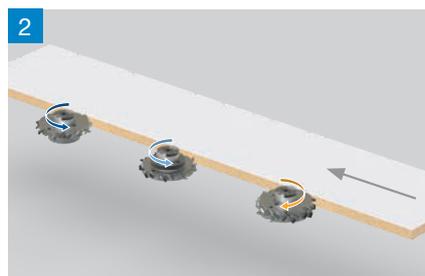
Leitz provides the solution with the help of various jointing concepts that are optimised to the requirements of the respective customer. This enables perfect processing quality and significantly greater efficiency in the overall process.

YOUR BENEFITS

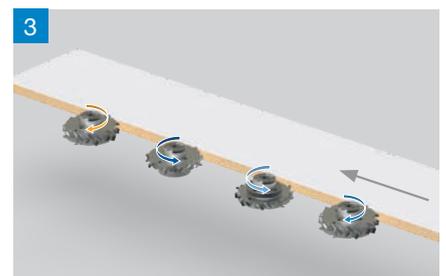
- Consistent processing quality with a wide variety of materials
- Lower reject rate
- Longer tool life of the finish milling cutters
- More machine availability due to longer tool life



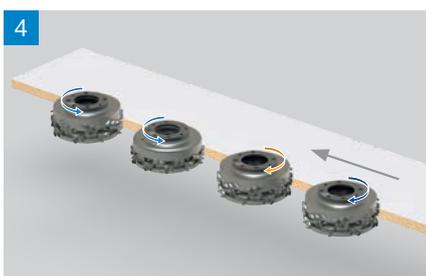
Double jointing adjustable



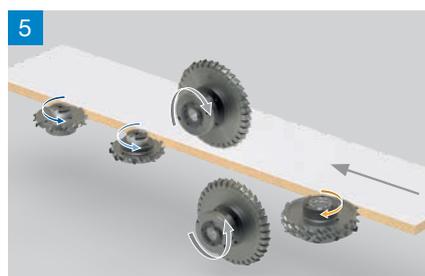
Triple jointing



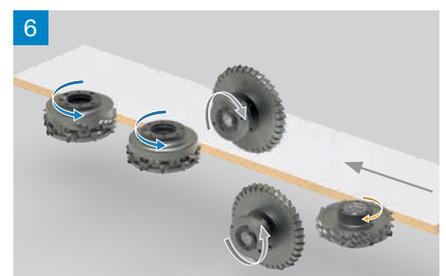
Quattro jointing – axially adjustable jointing cutters



Quattro jointing – adjustable jointing cutters



Triple jointing with hogs



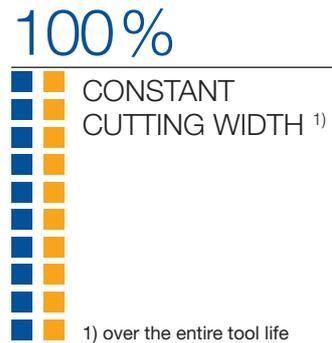
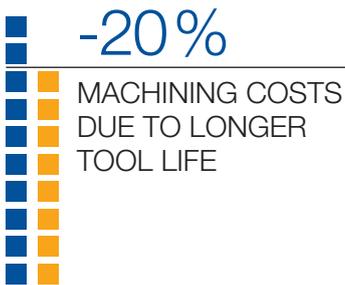
Adjustable double jointing with hogs

2 Compact hogger DT Premium



Changing quantities and a wide variety of carrier and decorative materials in panel production pose major challenges for manufacturers.

The DT Premium compact hogger is the solution for increasing productivity thanks to its long tool life – with perfect quality on the edge and cutting surface. Thanks to the new tooth shape, optimum machining results are achieved over the entire life cycle of the tool. The design enables efficient chip removal and the vibration-reducing tool body further increase the tool life and thus the economic efficiency.



AT A GLANCE

- Constant cutting width over the entire tool life cycle
- Two different tooth shapes
- DFC® chipbreaker and gullet area
- Damping elements on the tool body
- Up to 15 times resharpenable
- Suitable for all conventional panel materials
- Available at short notice
- Diamond tipped

YOUR BENEFITS

- Long tool life across a range of materials
- Perfect quality on the edge and machined surface

3

Diamaster WhisperCut



The lightweight Diamaster WhisperCut® cutterhead significantly reduces noise pollution during jointing and rebating thanks to its optimized tool body shape and low weight. Replaceable and re-sharpenable cutting edges also ensure high cost efficiency.

YOUR BENEFITS

- Light and quiet
- High cost efficiency
- Reduced set-up times
- Perfect processing results

AT A GLANCE

- Tool body made of light metal
- Excellent chip collection through DFC®-technology
- From diameter 60 mm
- Available from stock
- Diamond-tipped



WhisperCut®

- Cutting edges can be replaced on site or repaired by Leitz Service
- Up to 3 times resharpenable

WhisperCut® PLUS

- Up to 12 times resharpenable
- Available in WhisperCut® EdgeExpert design
- Can be mounted on clearance-free adaptors such as HSK 32 R or hydro



WhisperCut® EdgeExpert

- Particularly suitable for zero-joint technology
- Up to 3 times resharpenable
- Available in WhisperCut® PLUS design
- Clearance-free adaptors such as HSK 32 R or hydro are recommended



WhisperCut® Hydro

- Integrated hydro adaptor for highest concentricity and axial run-out accuracy
- Up to 3 times resharpenable

WhisperCut® HSK 32 R

- Integrated HSK-adaptor for highest concentricity and axial run-out accuracy
- Suitable for spindles with HSK 32 R adaptor
- Up to 3 times resharpenable

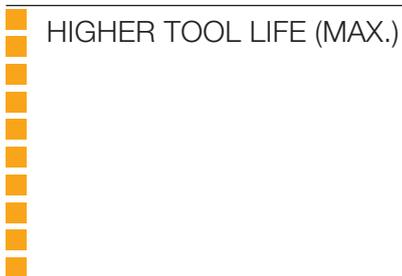
4 Adjustable jointing cutters



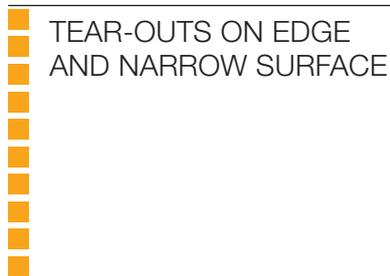
When machining furniture panels, the covering layers in particular lead to increased tool wear, reduced machining quality, and thus frequent tool changes and rising costs.

Leitz provides the solution with the help of the innovative, adjustable diamond jointing cutters from the EdgeExpert line. By adjusting the width of the jointing cutters, unused cutting edge areas can be brought into the quality-forming cutting area of the covering layers. Perfect machining quality of the panel edges and significantly more efficiency in the overall process are possible with this Leitz solution.

10-times



-100%



-60%



AT A GLANCE

- Hydro-Duo sleeves for maximum concentricity and run-out accuracy
- RFID chip for automatic tool identification
- Particularly suitable for zero joint technology
- Customized solutions

YOUR BENEFITS

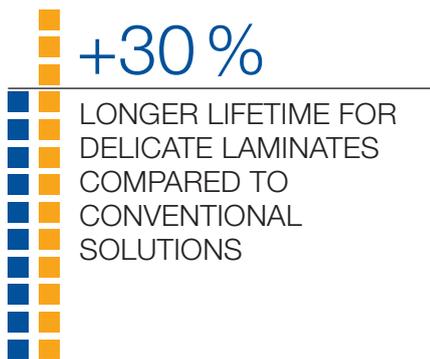
- Perfect edge quality
- Up to 10 times higher tool life
- Quick and easy resetting
- High cost efficiency

5 Diamaster EdgeExpert



The use of advanced laminates continues to grow in the competitive furniture and interior design market. New tooling concepts are needed to meet the high quality requirements of these increasingly challenging materials.

The Diamaster EdgeExpert program provides impressive tear- and chip-free edges and smooth sides, even when processing micro-paper, veneers, foils and high-gloss laminates. The knife geometry is engineered for excellent results and the optimum ratio of quality and costs.



Leitz EdgeExpert: optimally adjusted shear angle

YOUR BENEFITS

- Perfect edge quality
- Tear-free core
- High cost efficiency

AT A GLANCE

- Especially designed for zero-edge jointing technology
- Available in cutterhead and router tool designs
- Available as brazed diamond or diamond insert construction
- Light-weight aluminium tool bodies are available
- The PLUS-version can be resharpened up to 12 times
- Individual and customer-specific designs possible
- Diamond-tipped

6

ProfilCut Q Diamond



The use of diamond tools is indispensable in edge finishing – but also could be cost-intensive. Resharpener could reduce costs, but each sharpen causes time-consuming machine adjustments due to changes in tool diameter. The result: no real savings, but unnecessary downtimes.

Leitz offers the solution with the ProfilCut Q Diamond constant diameter tool system. It can be resharpened up to five times and is then immediately ready for use again – without any adjustment work on the machine. This reduces the costs per tool life, saves time and therefore significantly improves the cost-effectiveness of the entire process. The reusable tool body also ensures maximum sustainability.



AT A GLANCE

- Diamond cutting edges
- 5 times resharpenable
- Reusable tool body
- For edge banding machines with high part output
- Various dimensions and profiles available

YOUR BENEFITS

- Low tool life cost thanks to resharpenable exchangeable knives
- No adjustment necessary after resharpening

7 Self-centring clamping elements

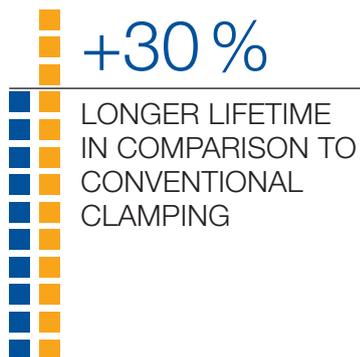


As the interface between tool and machine, clamping systems play a decisive role in all machining processes. Inaccurate clamping systems can quickly lead to an unacceptable machining quality.

With self-centring clamping elements, tools can be mounted on the spindle centred and completely play-free. As a consequence, perfect machining results and longer tool life is possible with the high concentricity and balancing quality.

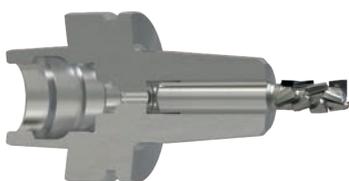
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CLEARANCE BETWEEN
INTERFACE AND SPINDLE



YOUR BENEFITS

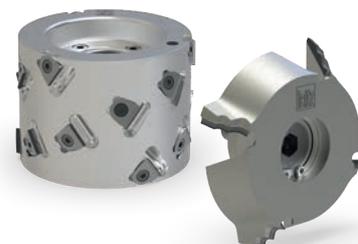
- Perfect machining results
- Longer tool life
- Easy handling



ThermoGrip®
shrink fit technology



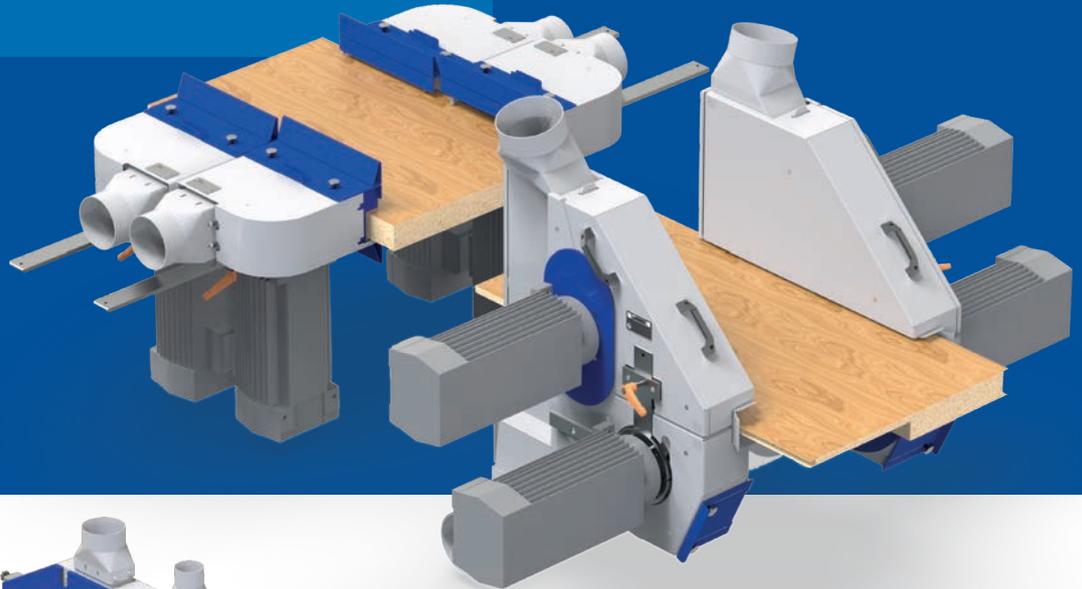
Hydro-clamping
elements



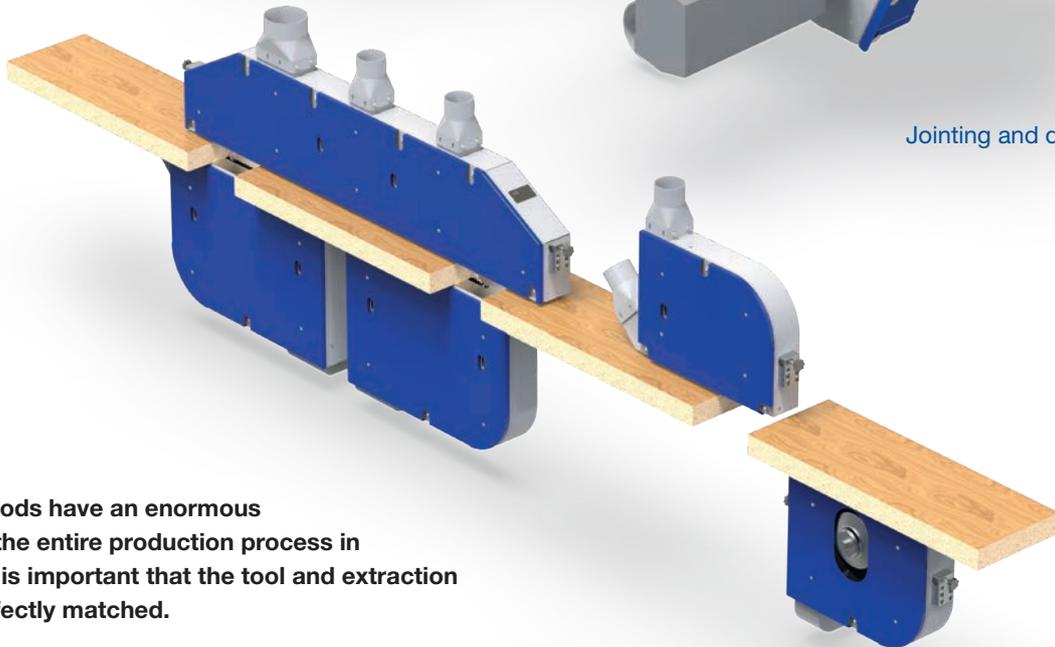
Hollow taper shank
clamping elements (HSK)



DFC[®]- Extraction hoods



Jointing and double hogging



Splitting sawing and scoring

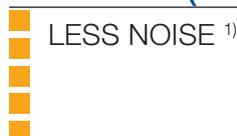
Extraction hoods have an enormous influence on the entire production process in machining. It is important that the tool and extraction hood are perfectly matched.

Leitz DFC[®]-Extraction hoods are individually designed and precisely customised to the respective requirements. Optionally, targeted ceramic coating ensures that wear is reduced to an absolute minimum. In the LowNoise version, they also offer noticeable improvements in terms of noise emission.

Up to 98 %



-5 dB(A)



1) thanks to the optional noise-reducing design of the DFC[®]-Extraction hood

YOUR BENEFITS

- Minimised cleaning effort
- Less waste and rework
- Longer tool life
- Easy handling
- Less noise and energy consumption



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