

# Leitz News

## Solutions in new dimensions

For decades, Leitz innovations have moved customers forward in a competitive market, keeping them one step ahead with creative processing solutions that ensure quality and efficiency.

Our progressive thinking and technology continue to set trends, achieving solutions that make production processes faster, more flexible and cost effective, and ensure the highest quality – while maximizing the combination of ecology and economy.

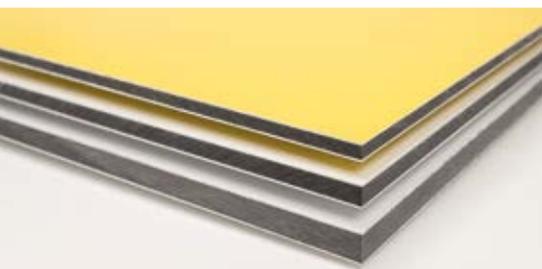
Year after year, Leitz continuously sets the benchmark for new, future-oriented technologies and products with innovative solutions. Visit us at our stand and experience how Leitz innovatively continues this way under the slogan “Solutions in new dimensions”.



ProfilCut Q Diamond



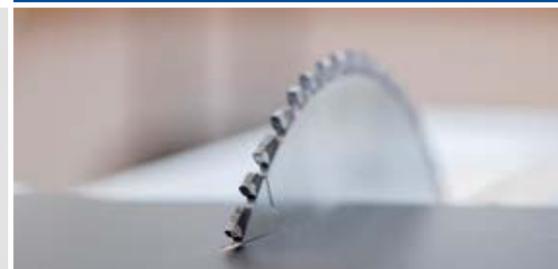
WhisperCut Circular Saw Blades



Advanced Materials



HeliCut-System



Panel Sizing Saw Blades

## Leitz ProfilCut Q Diamond – Diamond in a new dimension

The new changeable knife system ProfilCut Q Diamond sets pioneering new standards in machine processing. ProfilCut Q Diamond is a unique combination of an ultralight aluminium tool body and resharpenable profile knives. This enables constant diameter diamond cutting, guaranteeing higher efficiency and maximum productivity and profitability.

This advanced technical innovation begins with a new diamond cutting edge made from the hardest material on earth: polycrystalline diamond (PKD). Process high-end and abrasive materials precisely with exact repeatability and no loss of performance.



After repeated sharpening, the diameter and profile of the edge remains unchanged. ProfilCut Q Diamond can be sharpened 5 times, and with a 20 times longer performance time provides significant cost savings in comparison to disposable carbide systems.

The performance continues with the dynamics of the tool body's aluminium light weight construction and the clamping system has been designed for maximum peripheral speed. Even at a maximum cutting speed of 120 meters per second, the system produces first-class finish quality due to reduced vibration.

The Leitz engineers also have included a handling benefit when designing the new ProfilCut Q Diamond. The diamond edges can be exchanged by the user on site.

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## Easy, Low noise, Efficient – HeliCut

### The all-rounder for flexible processing of wood and plastics

The completed Leitz HeliCut-System is productive and flexible and provides the suitable solution for nearly every challenge.



Leitz has expanded the many years proven HeliCut program for timber construction and thus creates machining options in further industries and application areas. Overworking the product program, the benefits of the HeliCut-System has been transferred to numerous other applications. By this,

the range of applications considerably has increased. Leitz presents the new, weight-optimized design for greater user-friendliness, less noise and even more performance and flexibility.

The success of the HeliCut-System mostly results from the turnblades used and its arrangement. Improved cutting

edges and cutting geometry as well as optimized different cutting applications. The tungsten carbide knives can be changed 4-times. This results in higher tool life and less processing costs. Radial knife clamping without inconvenient wedges, allow easy and precise changing of knives and additionally saving time.



## Leitz WhisperCut Circular Saw Blades – High Performance with a Whisper

When cutting panels on table- and sizing saws, as well as panel saws, the topic of noise reduction becomes increasingly important. Leitz has developed the WhisperCut circular saw blade: user-friendly and future-oriented saw blade technology.



In order to optimize the performance of the WhisperCut circular saw blade sustainably, the Leitz engineers have designed innovative grouping of the saw blade teeth. Perfect staggered cut and reduced cutting forces are achieved due to intelligent arrangement of various edges to each other. The unique design ensures multi-purpose application in nearly all conventional wood-derived material panels and in solid wood and guarantees excellent cutting quality.

The saw blade is absolutely quiet at idle and in operation, significantly improving the workplace environment. An important element for the considerably reduced noise emissions are new laser ornaments and a special damping material – vibrations are reduced and the processing quality increased.



Thanks to the diamond tips and a stable tooth geometry, this saw blade has an extremely long tool life. The ability to be sharpened several times noticeably reduces costs.

## New generation – Panel processing in perfection



**Leitz presents its fundamentally revised and in certain parts newly designed saw program. In the newly defined performance categories the product innovations supply features with focus on customer benefits in terms of quality, productivity and sustainability.**

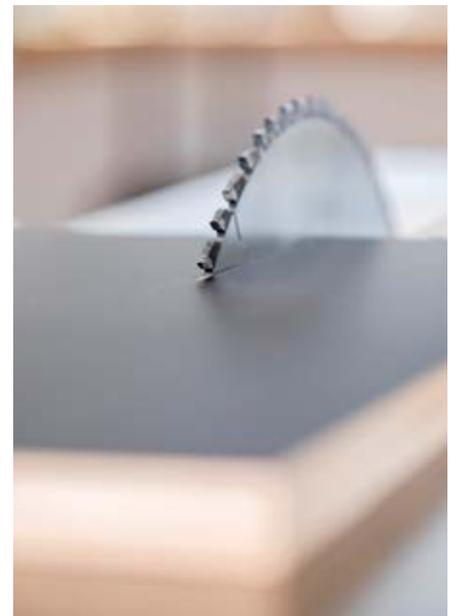
Leitz has on a technical scale fundamentally overworked its saw program for panel processing and refined

market-approved solutions. In this context Leitz as a premium manufacturer has defined the innovative features from the high-end performance range as standard features in order to offer the optimal solution to the customers by meeting their specific requirements.

Leitz Premium sawblades set the new quality standard in the panel processing, characterised by significantly increased tool life and reduced noise emission. This was realized by further development of cutting materials and noise-reducing laser ornaments; henceforth characteristic properties in the Premium range.

Furthermore Leitz has enriched proven sawblades by additional features based on the gained experience in Excellent-level. Owing to these innovations in Excellent-level best results are achieved

in productivity, quality and not least in sustainability. The laser ornaments in the Excellent-level are filled with a new damping material. The result is high stability and quiet running.



## Furniture production with Leitz – One step ahead



**To furniture manufacturers Leitz supplies optimal tool solutions throughout the total process chain.**

Material versatility, demanding finish coatings and –structures as well as zero joint in the edging technology are important innovation drivers, furniture manufacturers daily are confronted with. Throughout the total process chain, Leitz supplies optimal tool solutions that improve quality and efficiency decisively and are tailored to the respective processing job.

### **RazorCut Circular Saw Blades**

By saving one process step on sizing single panels or low stacks of panels, the efficiency considerably can be increased. The combination of low-vibration laser ornaments and irregular tooth pitches with high-quality ultra-fine grain cutting materials with the Leitz RazorCut program ensures perfect cuts and require no rework.

### **Compact hogger DT PLUS**

Due to its completely new edge arrangement, the tool works with constant cutting width during its total lifecycle. Increased resharping areas on the edges ensure up to 12 resharping cycles and thus maximum efficiency.

### **EdgeExpert tools**

Whether extremely thin paper decors, veneers or foil- and high-gloss coating, Diamaster EdgeExpert tools

with increased shear angles convince by tear-free edges and smooth medium layers on continuous machines and CNC machining centres.



## Variety of materials – Bright prospects for machining plastics and composites

**In recent years Leitz rapidly and successfully has extended its material competency and its application in new products. These new working materials require unprecedented machining solutions.**



Many years ago, Leitz experts have extended their material competence in the wood processing by precious knowledge referring to the processing of plastic and insulating materials as well as aluminium and composites and have taken also in these sectors a leading position on the world market as tool producer with full range of products. Leitz worldwide stands for practicable and efficient solutions for demanding cutting tasks.

Leitz offers a wide and user-oriented standard program to process plastic. Five reduced-version catalogues contain solutions for professional processing of compact gluelam panels, polymer compound mineral material

and aluminium as well as for the professional production of windows and front doors of aluminium and plastic. Moreover, a circular saw blade program for professional processing of plastic panels has been issued.

Highlights for users of plastic processing: BrillianceCut circular saw blades for finish cut quality. HeliCut copy-shaping cutterhead for maximum cutting performance and the gullet-protected circular saw blade for very abrasive materials. Additionally, Leitz provides numerous options of customized tool developments for efficient processing of specific working materials.

### **Imprint**

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