

Diamaster PLUS³ and PRO³
*3 effective wings over
the entire cut length*



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**True 3-wing router bits:
Higher productivity and
better cut quality**

Three effective wings over the entire cut length



Conquering today's challenges

Until now, the staggered arrangement of cutting edges restricted feed rate and quality when sizing or grooving with 3-wing routers. Now that has changed.

Leitz's new design of the spiral cutting edges on the Diamaster PRO³ and Diamaster PLUS³ routers means three cutting edges cover 100% of the working length.

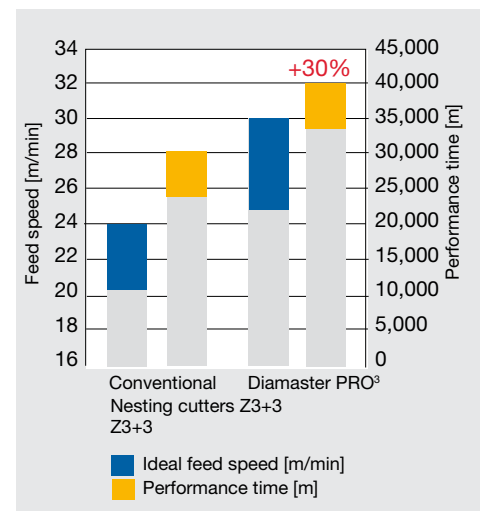
These new routers are ideal for all conventional panel materials, thicknesses and different surface coatings. There is no need to align the tool to the workpiece, as these routers machine different material thicknesses without adjustment.

True 3-wing router design

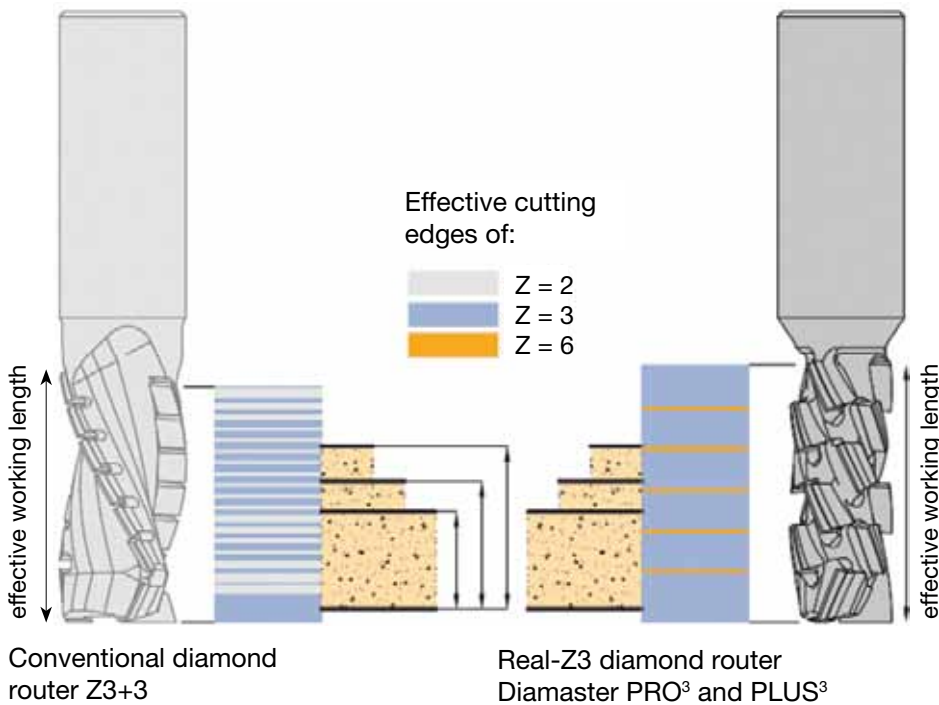
True 3-wing technology allows sizing at up to 50% higher feed speeds plus a consistent machining quality. These routers produce chip-free top and bottom edges, reducing costly rework and rejects. This solution is a quantum leap in quality and productivity on CNC routers and machining centers.

The optimized gullet space clears dust and chips efficiently from the machining area, resulting in fewer dust particles on the workpiece surface (e.g. chipboard) and reduced wear to cutting edges.

Improved efficiency



True 3-wing router bits



Conventional diamond routers Z3+3

The design of the tool creates areas where not all the cutting edges work, causing reduced quality, feed speed and performance.

True 3-wing diamond router bits Diamaster PRO³ and PLUS³

At least three cutting edges are always processing across the entire working length to guarantee maximum performance.

Diamaster PRO³ Z3+3

High performance tools for sizing and nesting.

Benefits:

- up to 30% longer tool life compared to conventional designs
- feed speeds up to 30m/min when machining chipboard; up to 35m/min when machining MDF
- re-sharpenable up to 3 times
- newly designed diamond plunge tip
- wide variety of specifications available

Diamaster PRO³—the first choice for nesting applications.

Diamaster PLUS³ Z3+3

High performance tools for maximum efficiency when pre- and finish cutting.

Benefits:

- up to 50% longer tool life compared to conventional designs
- re-sharpenable up to 12 times
- newly designed diamond plunge tip
- wide variety of specifications available

The DFC[®] [Dust Flow Control] Diamaster PLUS³ saves costly clean-up time between cutting and edgebanding steps on CNC machining centers with edgebanding aggregates.

Diamaster PLUS³ cutting geometry is ideally suited for sizing on machining centers equipped with zero-edge technology.

Diamaster PLUS³ has technical and economical superiority in critical tests with leading machine center manufacturers.

The diamond router program

Diamaster PRO Z1+1	Entry level for lower production requirements Useful for all company sizes
Diamaster PRO Z2+2	Economic solution for increased performance requirements Optimum price to performance ratio
Diamaster PRO³ Z3+3 - Nesting	High performance tool for nesting applications True 3-wing router bits provide continuous cut quality
Diamaster PLUS Z1+1	Recommended for composite materials Ideal for various non-wood applications
Diamaster QUATTRO Z2+2	Standard tool for most industrial applications Ideal for both pre- and finish cutting
Diamaster PLUS Z3+3	Standard for industrial users with high performance requirements High feed speeds with excellent finish quality
Diamaster PLUS³ Z3+3	The choice for industrial pre- and finish cutting True 3-wing design for continuous cut quality and maximum performance

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