

PROFILCUT   
PROFILCUT premium

leitz



ProfilCut Q | ProfilCut Q Premium

**Fastest and finest precision and finish quality for manufacturing of windows, doors, furniture and flooring**

# PROFILCUT Q— FOR BETTER PERFORMANCE

## Unbeatable flexibility

**When cutting quality matters, ProfilCut Q sets the new standard, even in the most demanding applications. Unmatched in cutting speed and reliability, ProfilCut Q promises to bring your productivity to new levels.**

The uniform clamping system utilizes profile knives and standard turnblade inserts to get the job

done economically with the best finish quality. For an exceptional surface finish, a divided cut (as opposed to a single knife) is highly recommended. The unique clamping system places zero stress on the tool body, allowing for the use of aluminum alloy and round-bodied designs to reduce weight, noise and vibration while optimizing balance, dust flow and finish quality.

Clamping elements are protected from dust and resin build-up for quick and easy knife changes—without setting gauges or other measuring equipment. Repeatability is guaranteed. Profiled clamping wedges are steel and easily cleaned or replaced as necessary and support the chips during the cutting process to ensure a best-possible finish.



# ProfilCut Q

## More profitability

Reduced production costs due to:

- Longer knife life with Marathon coating
- Reduced maintenance
- Reduced machine downtime
- Economic tool arrangement utilizing standard and profile knives

## More quality

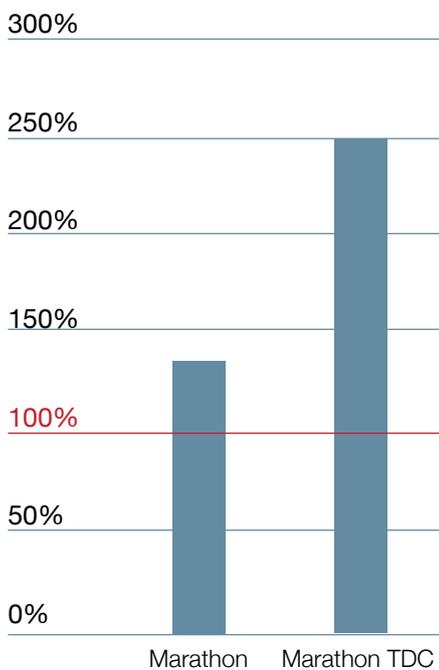
Reduced sanding and scrap

- Extra sharp, mirror-polished knives
- Innovative Marathon coating technology for longer performance
- Vibration-free due to precision dynamic balancing

## More usability

Easier, accurate and repeatable knife changes

- Automatic axial and radial pre-positioning
- Knife changes without complete disassembly of the cutter set
- Lightweight aluminum allows for better balance
- Clamping elements protected from dust and resin build-up
- Perfect accuracy and repeatability with every knife change
- Round-body, enclosed gullet design for lower noise and optimized dust flow



expenditure / m

■ tool life

— Level of performance and expenditure of conventional, uncoated knives

# PROFILCUT Q PREMIUM— TOOLS AT WORK



## Exceptional engineering

**ProfilCut Q Premium is an industrial manufacturer's choice for a top-performing insert tooling system. This new tool design is the ultimate solution for those companies looking for ways to maximize machine capabilities.**

The unique design excels in every area: cutting speed, flexibility, ease of use, weight, longevity, and economics.

With a cutting speed up to 120 m/sec., the Q Premium system outperforms any insert system available on the market in terms of productivity and surface quality—saving time and money!

The new clamping system has been designed and tested for the highest peripheral speeds, with a surface coating to reduce

abrasion, shock loads, and heat build-up. The clamping system guarantees quick, accurate and repeatable knife changes without setting gauges or other measuring equipment. Profiled clamping wedges act as chip breakers for better finish quality. Clamping screws, located safely behind the knives, are protected from dust and resin build-up.



# COST-EFFECTIVENESS ON EVERY LEVEL



## ProfilCut Q Premium

120<sup>m/s</sup>



### MORE SPEED

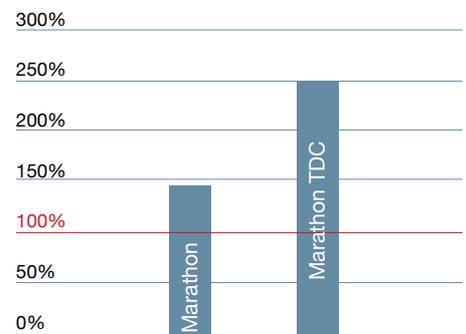
Greatest productivity through reduced processing time and a significantly better finish due to:

- Innovative clamping system for heavier loads
- Functional coating to reduce tool body wear
- Lightweight tool body construction

### MORE USABILITY

Minimal set-up time and user-friendly:

- Pre-loaded clamping elements for fast and easy knife changes
- Ability to change knives in the cutter set without disassembly
- Clamping screws located behind the knives, protected from dust and resin build-up
- Exceptionally accurate and repeatable knife changes
- Round-body, closed gullet design to minimize noise



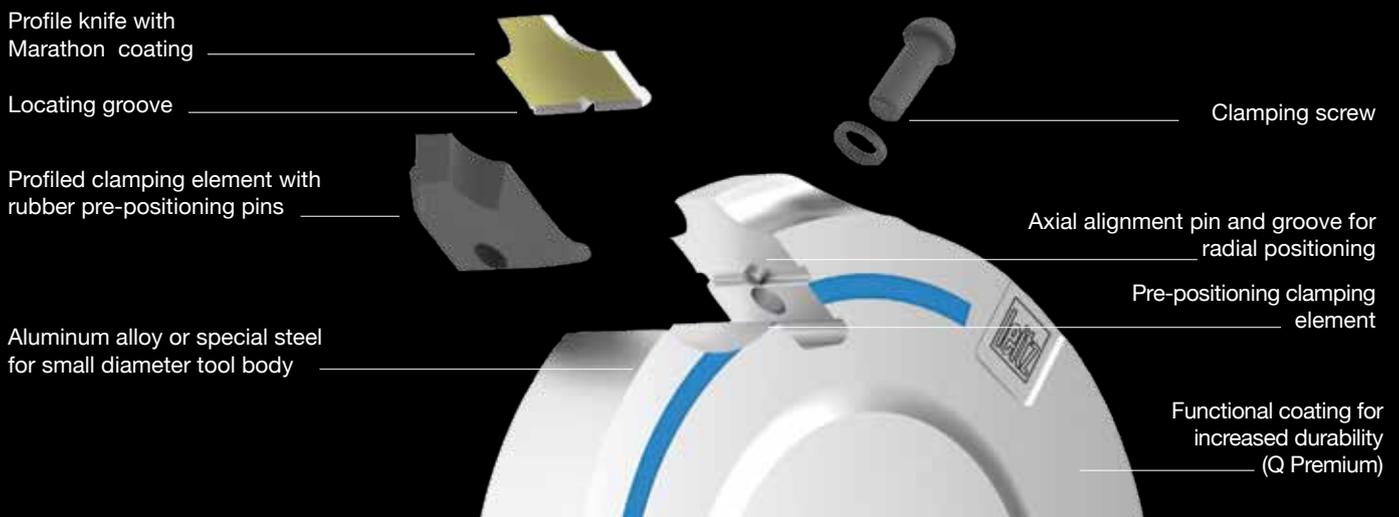
### MORE ENDURANCE

Running sharper, longer

- Marathon coated knives with mirror-finish grind
- Optional TDC coating for panel materials
- Precision balanced to minimize vibration

# ProfilCut Q | ProfilCut Q Premium

## Technical Specifications



## Application Overview

### Application

- Glue joint profiles
- Windows and doors
- Cabinetry and panel raising
- Slot and tenon profiles
- Architectural millwork

For nearly any profile, for any industry and any size company. The only limit is your imagination.

### Machinery

- Shapers
- Moulders
- Tenoners
- CNC routers

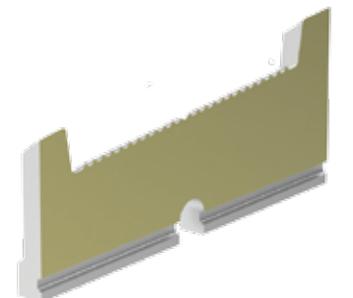
For manual or mechanical feed

### Raw Materials

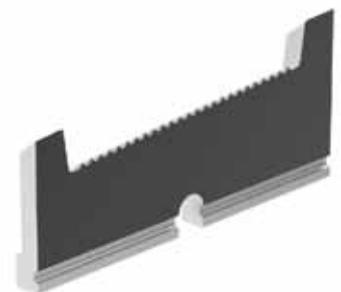
- Soft, hard and exotic woods
- Panel materials such as plywood, laminated MDF and particleboard
- Plastics, foams and composite panels

### Coatings

- Standard Marathon coating technologies improve knife life 25-200% in solid woods
- Optional TDC (Tungsten Diamond Coating) coatings for hardwoods and MDF applications improve knife life



Marathon coating for longer life



Marathon TDC coatings - specialist for hard woods and abrasive materials

# THE LEITZ POWERPACK — FINE TUNING FOR TOOLS AND MACHINES



## BETTER PRODUCTIVITY

Leitz HSC technology  
(High-Speed Cutting) for  
higher RPMs and feeding

- Shrink-fit chuck or shrink-fit arbor for zero tolerance clamping
- Optimized radial run-out accuracy, balancing and dynamic stiffness

## PERFECT QUALITY

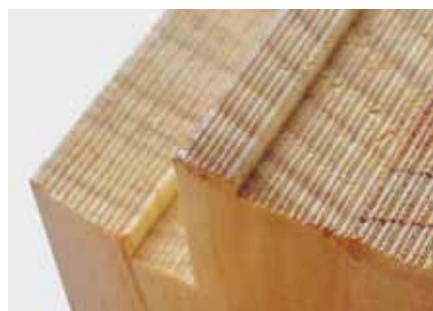
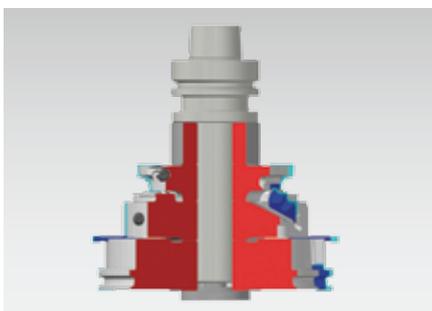
Leitz RipTec processing for  
significantly better product  
quality and longer tool life

- Ripple design for planing and end-grain machining
- Integral engineering for pre-cutting and finishing knife in one tool

## PROCESS INTELLIGENCE

Leitz SMART technology for  
greater process security and  
reduced set-up time

- Smart tools with integrated memory chip
- Geometric and technical data for the machine processor



## Leitz is your dependable partner

Leitz offers market-leading tool knowledge and technology and provides three components for your success:

- Innovative tooling systems that conserve resources and enhance quality for better production
- Customized, modular or comprehensive tool management for enhanced efficiency
- Excellent, reliable service for customers all around the world



## Leitz Locations



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We shape the future