

Thinking beyond previous expectations.

The new dimension of High Precision Cutting Tools

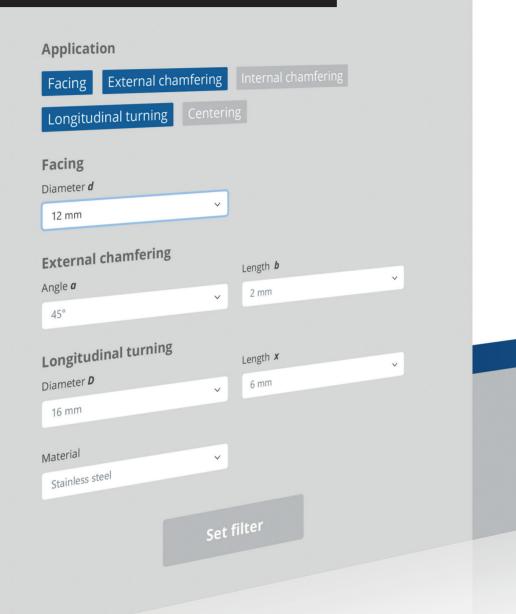


Made in Germany

LPT – the new synonym

for "efficiency".

Fast and easy with LeistritzPerformanceTools



ØD

The perfect fit for your machining task

Our **L**eistritz**P**erformance**T**ools (**LPT**) can be found in the standard program as **LPT**line. These tools are of course available from stock.

You have individual wishes regarding dimensions, material, tipping, coating? With pleasure! In our **LPT**+line we manufacture your individual request according to your drawing.

Simply go to our corresponding configurator and enter your information! We will do the rest.



And that's how it works!

In our overview catalog you have the possibility to assemble your required tool quickly and easily with the help of our configurator. In each chapter you will find the corresponding URL or a QR code, which will take you directly to the online matrix. For standard tools, you select the appropriate design and initiate the ordering process. For special designs, please enter the required information together with the drawing.

It couldn't be easier!

Best in class 2021.



Milling Tools with index able inserts p. 30/31



>>> Your challenge — Our high precision cutting tool. The perfect combination for your production.

Stefan Kühnle Vice President Tooling

Sometimes established tool solutions are needed. Sometimes you may have to rethink and take up new ideas. Our claim is to combine both approaches — of course only where it makes sense and both productivity and cost-effectiveness can be increased. Depending on the production task, we combine the tried and tested with (customized) innovations for you.

On the following pages you will find our standard tools as well as high-end solutions. Let us inspire you!

We look forward to your challenge!



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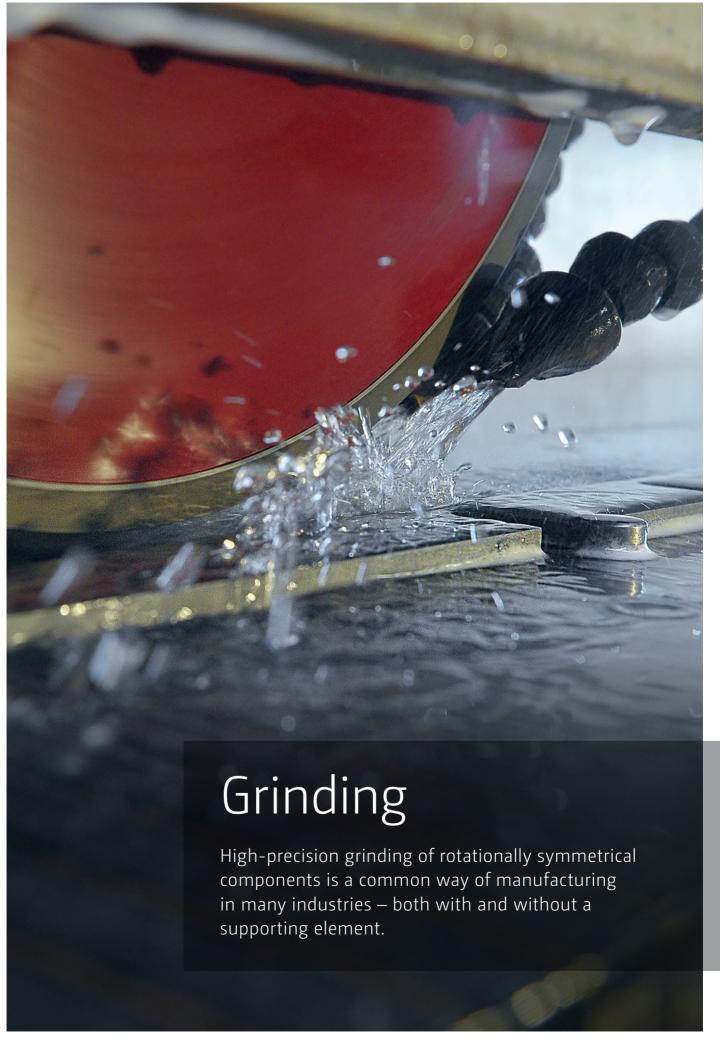
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Work rest blades at a glance





THROUGH-FEED BLADES



PRISM BLADES



PLUNGE CUT-/STEPPED BLADES



SCREWED BLADES



CORRUGATED BLADES



CUSTOMIZED SOLUTIONS

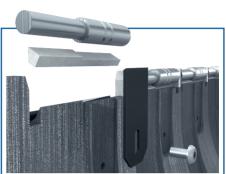
Guids you through the final finish.

The art of guidance

1

Individual Form

Mounting, stops and steps are individually designed and manufactured for your workpiece.





2

Precision counts

With tolerances in the μ range for steps, Leistritz work rest blades are perfectly suited for high precision applications.

3

Maximum lenght

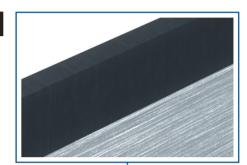
Leistritz work rest blades can be produced up to a length of 3 m. This means that even long components can be ground in just one pass.

↗ Diverse design competence – according to manufacturer's specifications, customer

drawing or as a new Leistritz design

Individual Tipping

Whether carbide, PCD or ceramic – we offer the optimum equipment for every application in order to maintain the precision of your work rest blade for as long as possible.





Maschine brand-independent

Leistritz work rest blades can be used on all common grinding machines. This means you are always on the safe side, even when changing machines.

Leistritz express service

On request, your work rest blades will be with you after only 15 working days.

Individual Shapes



We can also produce complex indivudal shapes: Whether step work rest blades, multi-chambers for grinding several workpieces or individual shapes – we manufacture entirely according to your individual requirements.



BEARING RAILS



SUPPORT SHELS



GRINDING STARS

Thread rolling



On special thread rolling machines, the material is cold-formed by two forming rollers on the workpieces. As with centreless grinding, a thread rolling support is required in the rolling process as a supporting element for the workpieces.

Reconditioning





BEFORE

AFTER

Not new, but just like new: With reconditioning in original equipment quality, we offer an absolutely economical solution.

LEISTRITZ HIGH PRECISION TOOLS leaves nothing to be desired.

Take advantage of the Leistritz Express Service: Regrinding is now even faster. In only 5 working days your rail will be like new again. And this applies not only to Leistritz rails, but also to rails from other manufacturers.

Configure your tool!

LPTline

Learn more about our complete range of work rest blades and configure your suitable product!

LPT+line

For special challenges: Request you individual work rest blades directly from us now!



tools.leistritz.com/grinding



Turning Tools at a glance



OVERCUT (OVERTURNING)



END FINISHING TOOLS



END FINISHING TOOLS MINI



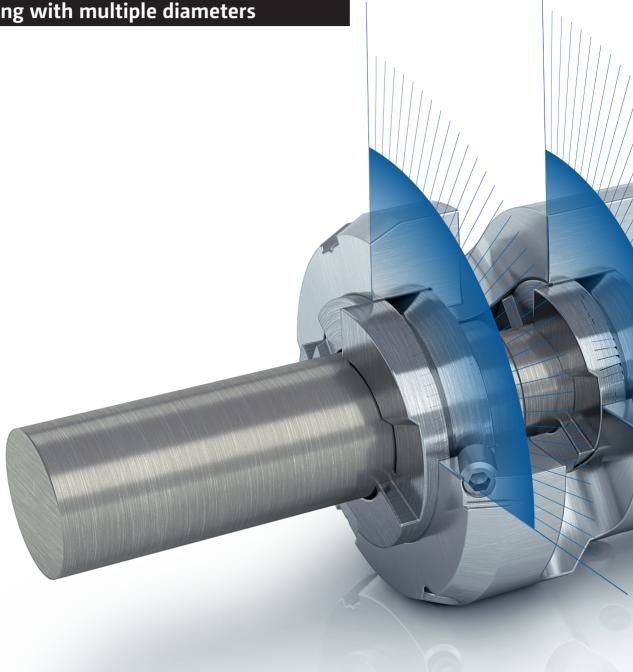
TUBING TOOLS



TOP TURN (END SHAPING)

The new dimension of turning. **Over**Cut.

Axial turning with multiple diameters



No radial displacement

Due to the radialy arranged cutting inserts, the force is evenly distributed on the workpiece.

Exchangable cutting inserts

The cutting inserts can be changed to suit the application. This means that you are always well prepared for changes.

- **尽** Cost- and time-saving multifunctional tool
- → Manufacture up to 6 x faster
- → Several production steps in one operation



One body for everything

With only one basic body a wide range of diameters can be machined.

Sufficiant Cooling

The Leistritz OverCut is available with internal coolant supply. The chips are flushed out, the tool life of the tool inserts is ultimately considerably increased.

Process analysis included

Our experts analyse your current process with you and develop the optimal tool from it.

The pacemaker

for an perfect end.

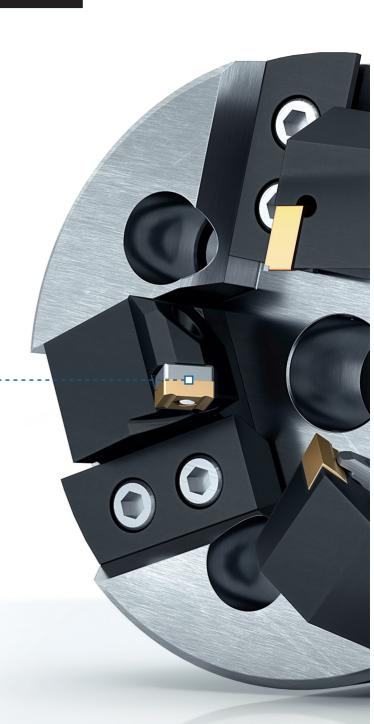
Up to 5 steps in one

1

Highest economic efficiency

By using profile inserts, even complex shapes can be machined.





2

Exchange accuracy

The insert seat grinding enables easy exchange.

3

Outstanding stability

The cutting pressure is applied over the entire width of the insert, and thus enables optimum force transmission.

- ∠ Complete supplier: Inserts and tool bodies in special and standard design can be freely combined
- → Short delivery times



4

Quick change saves time

The Leistritz clamping system allows the profile inserts to be changed inside and outside the machine.



Process analysis included

Our experts analyse your current process with you and develop the optimal tool from it.

Profiling



Complex turned part contours require high-performance profile cutting tools for the economical production of these turned parts. At the Leistritz Profile Centre, we will be happy to take care of the profile design and cutting layout for you on request.



INDIVUDUAL INSERTS



FROM WORKPIECE



TO TOOL

ISO-Turning



For us, being a partner means always having the most economical solution for your task in mind. That is why, in addition to our special solutions, we also offer a standard programme for positive turning inserts.

Configure your tool!

LPTline

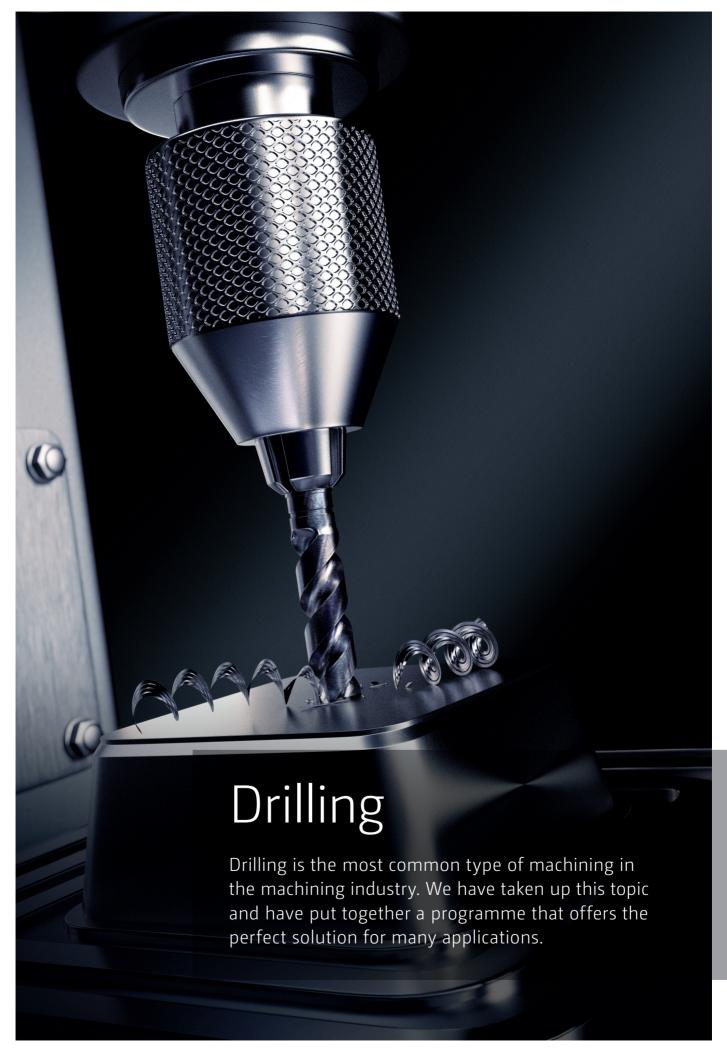
Find out more about our entire range of turning tools and configure your suitable product!

LPT+line

For special challenges: Request your individual turning tools directly from us now!



tools.leistritz.com/turning



Drills at a glance













SOLID CARBIDE DRILLING

INSERT BASED DRILLING



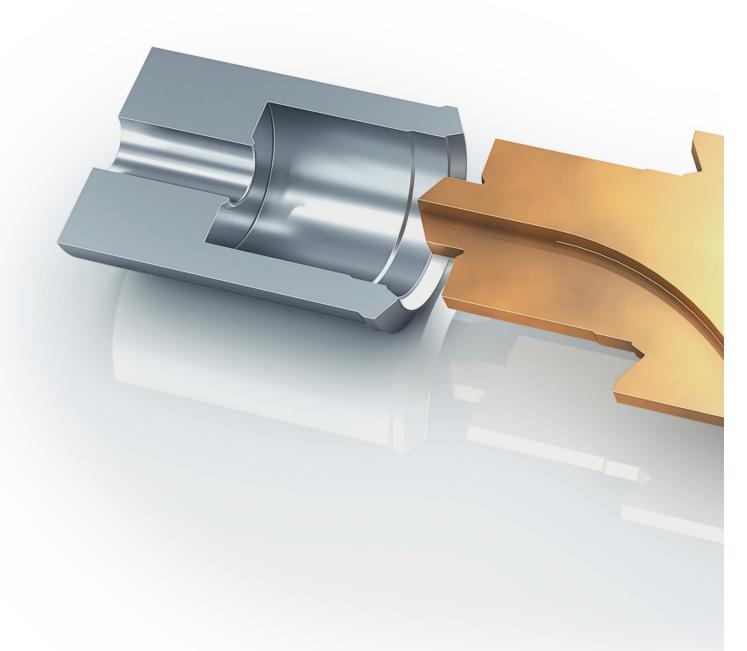


REAMING

SOLID CARBIDE DRILLING

Skillyfully holed with interchangeable inserts.

Drilling with a maximum of flexibility



1

Internal cooling

The designs with individual coolant connections are possible. This significantly increases the service life of the tool.

7

Maximum stability

Due to positive insert seating, even materials with high strength are drilled safely and very easily. 3

Easy exchange inserts

Different exchangeable inserts can be used with the same tool holder.

- → Diameter 1-60 mm
- → Optimum economy due to interchangeable inserts
- → Can be used on all common machine types



25



Leistritz offers solid carbide reamers to complement the solid carbide drill programme for economical and reliable fine machining of your bores. The reamer programme includes diameters from 0.95 to 20 mm. In addition to the standard reamer NC, there are the high-performance reamers S2 and VA, which meet the highest demands on cutting speed and tool life.

Solid carbide drilling







The machining process includes modern solid carbide drills. Our experts use the Leistritz delivery programme in standard and customised versions.

Configure your tool!

LPTline

Learn more about our entire range of drills and configure your suitable product!

LPT+line

For special challenges: Request your individual drills directly from us now



tools.leistritz.com/drilling



Milling tools at a glance





END MILLING







WHIRLING

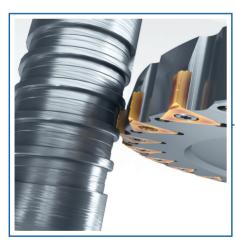
The cutter that shows teeth.

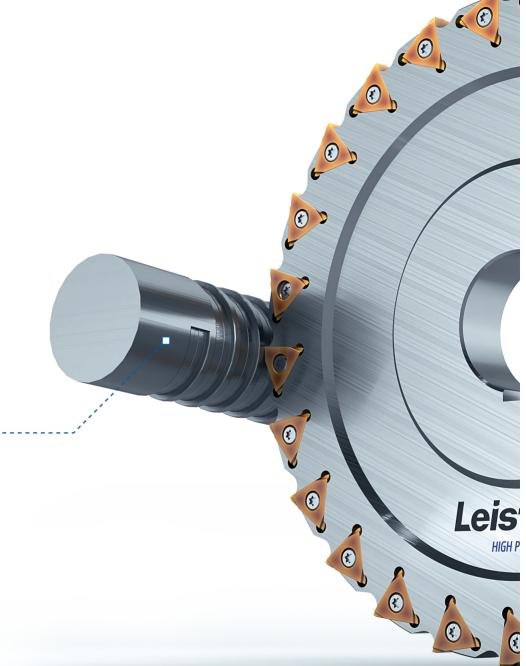
Maximum number of cutting edges for highest productivity



Highest product quality

With the latest manufacturing technologies, we produce the maximum in repeat accuracy.





2

High economic efficiency

By using multi-edged inserts you increase the lifetime of the inserts enormously.

3

Maximum flexibility

The cutting edges of the profile inserts are individually adapted for your application.

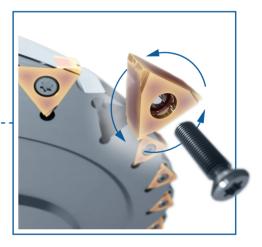
- → Various coatings suitable for your application and processes
- → Full-range supplier with standard and individual solutions for every application



4

Innovative mounting

The plates can be changed with maximum precision in a very short time — with only one screw.



Our extra for you

We will provide you with the appropriate special assembly tools for the easy insert change.

The whirlwind for profile milling.

Profile accuracy down to the μ

1

Highest material removal rate

The optimum process design of the whirling tool and machine reduce the number of number of passes required can be can be minimised.

2

Optimum tool design

Number of teeth, chip removal, heat management as well as insert strategy are individually adapted to your application.

3

Maximum tool life

Thanks to perfect geometric design and a wide range of coatings, fast wear is a thing of the past.



→ For Leistritz whirling machines as well as for other Machine tool brands – with our tools you get the maximum out of your whirling process.



Process analysis included

Our experts analyse your current process with you and develop the optimal tool from it.

Standard milling







When milling, high process reliability, tool life and surface quality are important. With Leistritz solid carbide milling cutters, we have the right tools for your machining task.

Insert Milling



In our new programme for milling with inserts on ISO basis, the offer ranges from the classic milling application to the specially manufactured tool.

Special milling for individualists.

Special milling tools for every task







1

Process reliability

Rely on consistent quality, even after a large number of machining operations. With Leistritz special cutters you always produce precisely.

2

Maximum tool life

Through individual coatings you minimise wear and extend the lifetime if the tool to maximum.

3

High surface quality

Optimal geometry, paired with the best materials, provides surfaces that are second to none.

- **↗** Diameter 1 25 mm



Process analysis included

Our experts analyse your current process with you and develop the optimal tool from it.





Configure your tool!

LPTline

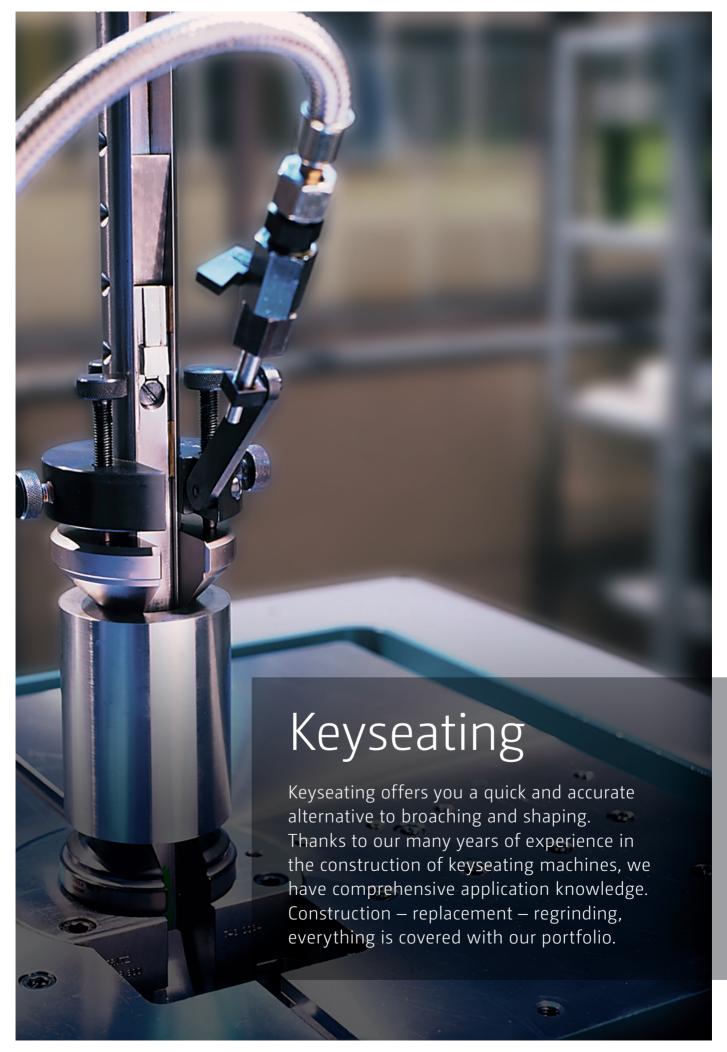
Find out more about our entire range of milling cutters and configure your suitable product!

LPT+line

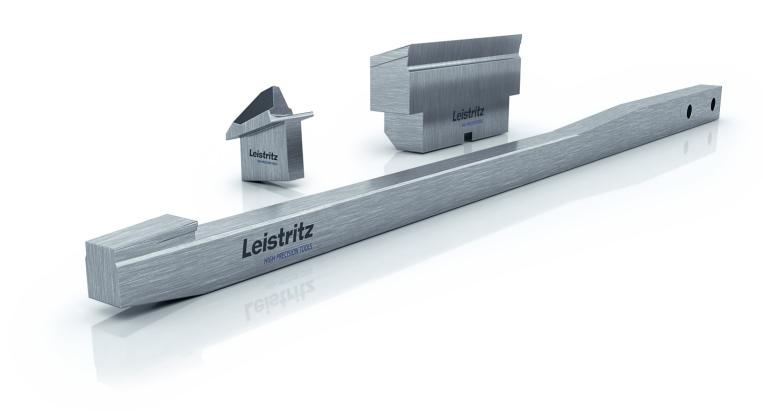
For special challenges: Request your individual milling cutters directly from us now!



tools.leistritz.com/milling



Keyseating tools at a glance









KEYSEATING INSERT TYPE B



KEYSEATING INSERT TYPE C



KEYSEATING TOOLS

Flexibility in use — razor-sharp thought out.

The new dimension in keyseating tools

1

Flexible tolerances and shapes

(Almost) Nothing is impossible. With Leistritz keyseating tools solutions for all shapes – and with optimum tolerances.



2

Keyseating tools for all brands

With Leistritz keyseating tools you can also bring other manufacturers' products up to the state of the art. Leistritz supplies tools for all well-known machine manufacturers and gets the best out of your machinery.

- → Simple handling for short set-up times
- **尽** Economical production even of small batches and individual parts



Configure your tool!

LPTline

Learn more about our complete range of keyseating tools and configure your suitable product!

process will also deliver the best possible results in the long term.

LPT+line

For special challenges: Request you individual keyseating tools directly from us now!



tools.leistritz.com/keyseating



Saw blades at a glance









REGRINDING

A well-rounded option for your productivity.

High-Quality saw blades for outstanding results

1

Optimised production costs

Adapted to your process, Leistritz saw blades optimise your production and minimise costs.

2

Highest quality

The well-known Leistritz quality ensures outstanding results – with maximum tool life.

3

Enormous variety of sizes

With a diameter of 15 - 750 mm and a thickness of 0.1 - 12 mm, you are equipped for every task.

Regrinding service

Not new, but just like new: With reconditioning in original equipment quality, we offer an absolutely economical solution. Leisi

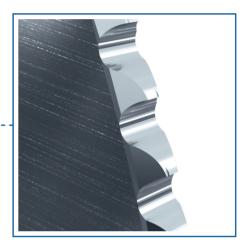


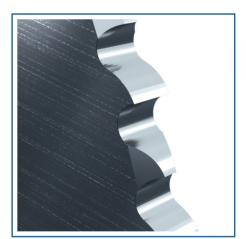
- → For all common machine types
- **尽** Coated and uncoated



Any tooth shape possible

Whether according to DIN standards or individually designed for your process – you define and we deliver precisely.







LPTline

Learn more about our complete range of saw blades and configure your suitable product!

LPT+line

For special challenges: Request you individual saw blades directly from us now!



tools.leistritz.com/sawing



Microtomy

Precision down to the μ

With a surface finish of $0.2~\mu$ and a cutting radius of 0.03~mm, cuts are maximally clean.





Configure your tool!

LPTline

Learn more about our full range of microtome knives and configure your suitable product!

LPT+line

For special challenges: Request your individual microtome knives directly from us now!



tools.leistritz.com/laboratory



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