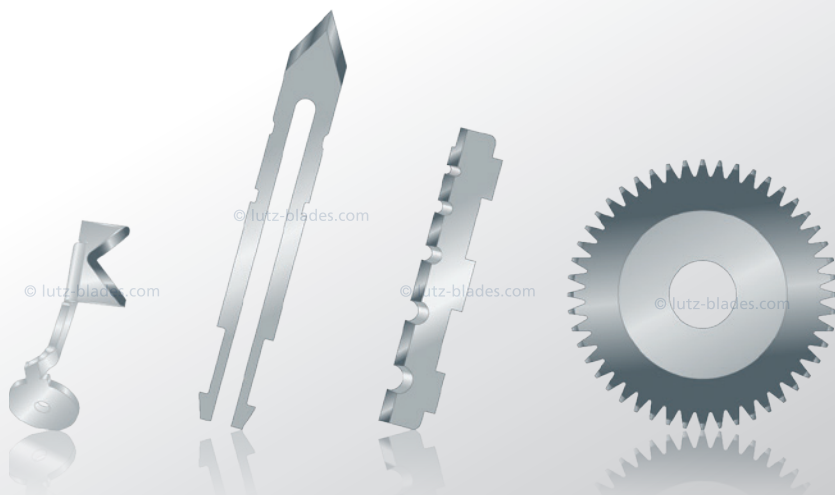


**INDIVIDUAL, FAST, FLEXIBLE –
CUSTOM BLADE SOLUTIONS FROM LUTZ**



CUSTOM BLADES

FILM AND FOIL

CHEMICAL FIBRES AND FIBREGLASS

MEDICAL

FOOD

DIY

AUTOMOTIVE

TEXTILES

PRECISION. SHARPNESS. SUCCESS.
exactly

Reasons why you need LUTZ BLADES:



PRECISION.

Our maxim is precision – and it is this principle that accompanies every stage from the initial idea to the finished product. Right through to the ideal solution for your specific cutting application to ensure your requirements are met. Throughout every design and development stage and every production step – blade after blade after blade.



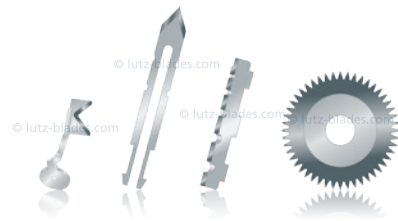
SHARPNESS.

We have been making blades and cutters since 1922. From razor-sharp, for extremely fine cutting jobs to extremely robust for impact and pressure cutting actions. Together with the customer, we define all the relevant parameters to ensure your individual requirements are met – to provide greater sharpness and better service lifetimes.

SUCCESS.

exactly

Your competitive advantage when you use custom blades from LUTZ is the sum of all our efforts and the details we guarantee you. We are pleased to show you those details because your success is our objective – from the first to the millionth blade.



SPECIAL-PURPOSE BLADES AND CUSTOM BLADES FOR INDUSTRIAL AND MEDICAL APPLICATIONS

Whether it is in connection with a specific development project or a production process tuned to meet a customer's needs, our custom blades and special-purpose blades all meet the highest requirements in terms of their geometry, material and

coating.


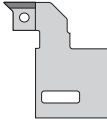







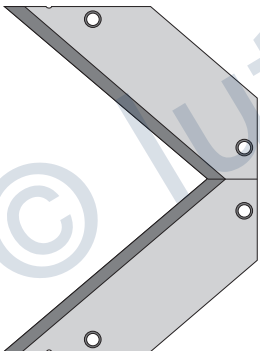

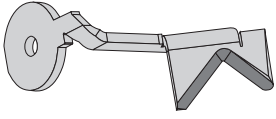
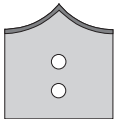
Thanks to rapid prototyping and highly flexible manufacturing technologies we are in a position to manufacture small (and even very small) runs of custom blades in only a few days!



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Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 0037.0200	30.0	9.0	0.20	 2100.0400	16.3	18.7	0.40	 3190.0430	17.8	9.5	0.43
 0037.0500			0.50					 3290.0500	18.8	4.8	0.50
 0076.1200	10.3	12.0	1.20	 2710.0884	7.0	34.8	0.88	 0918.0800	65.0	19.0	0.80
 2701.0650	12.1	9.0	0.65								
 2802.0500	92.0	67.9	0.50	 2510.0200	106.6	18.9	0.20				
				 9555.1000	20.2	15.5	1.00	 1240.0380	24.0	25.4	0.38

INDIVIDUAL AND FAST – CUSTOM BLADES BY LUTZ FOR YOUR SPECIFIC APPLICATION

Your cutting application needs a superior cutting tool. Fine-tuned to your specific application in terms of geometry and performance. This is where we come in.

Together, we can work out the exact profile of the new product you need and provide you with initial samples for testing purposes generally within a few days.



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 5610.0630	19.5	27.6	0.63	 6435.0400	29.0	5.0	0.40	 7600.0390	23.3	5.2	0.39
 6415.0630	4.3	11.2	0.63	 6441.0400	11.6	5.5	0.40	 9605.0400	50.0	20.0	0.40
 6431.1800	114.1	-	1.80	 9521.1800	26.0	15.0	1.80	 3410.0500	40.0	variable	0.50
 2560.0630	5.0	26.0	0.63	 2650.0530	40.9	63.0	0.53				

AND THIS IS HOW LUTZ CUSTOM BLADES CAN BENEFIT YOU

- » Flexibility in terms of geometry, material and coating
- » Consulting during the development process
- » Compliance with your specific requirements
- » Pre-launch initial samples within a few days



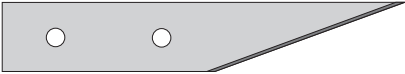
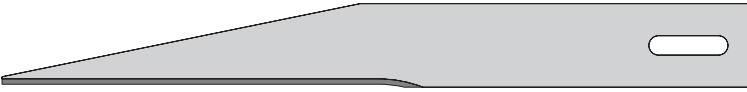

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Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	112.0	19.0	0.40								
4200.0400			0.38								
4200.0380					250.0	28.0	1.00				
9540.1000					413.0	40.0	1.00				
9590.1000											

THE KEY FEATURES OF LUTZ CUSTOM BLADES ARE THESE

- » Rapid prototyping
- » In-house tool & die shop
- » Flexible manufacturing technologies
- » Broad range of materials
- » Hard and frictionless coatings designed to match the specific application

Our product range covers over 600 designs: serrated, toothed, wavy, curved, notched, multi-sided special-purpose blades and combinations of custom blades with numerous shapes and geometries.



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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
0289.0430	40.0	8.5	0.43
2800.0500	82.3	24.7	0.50
0722.0400	57.7	18.8	0.40
4600.0380	308.9	18.7	0.38
0441.0150	43.0	22.2	0.15
3144.0300	190.0	8.0	0.30

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
9600.2850	34.0	31.5	2.85
4711.0370	111.1	32.5	0.37
3022.0870	114.3	23.5	0.87
5076.0884	120.0	19.0	0.88
8948.0500	126.0	50.0	0.50

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
3271.0200	variable	22.2	0.20

AND THIS IS HOW YOU CAN BENEFIT FROM LUTZ CUSTOM BLADES

- » Excellent cutting results
 - » Less scrap
 - » Greater machine efficiency thanks to fewer blade changes
 - » Consulting and further development during the project
- Lutz special-purpose blades have the following characteristics:
- » Superior sharpness
 - » High-performance materials
 - » Consistently high quality from the first to the millionth blade
 - » Hard materials and frictionless coating to match the application



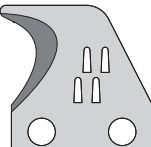
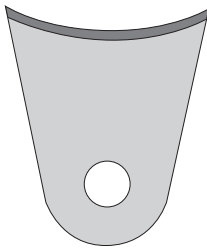
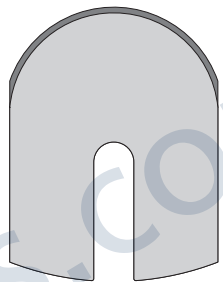
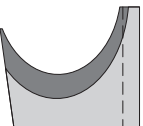
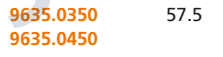
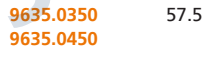
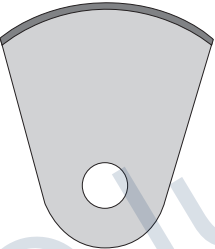

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	19.2	18.4	0.50		54.0	45.0	0.50		57.5	44.0	0.35
	16.9	15.0	2.00								0.45
	54.0	47.0	0.50		85.0	38.0	0.45				

LUTZ - CIRCULAR BLADES AND CUTTERS

Thanks to their razor-sharp cutting edges, their excellent flatness and hardening, our circular blades and cutters have been acknowledged for years as being among the best. Something we keep working on every day! To keep our customers' production rolling.

And this is how you can benefit from LUTZ circular blades and cutters:

- » Cleanly cut edge with no edge build-up
- » Less cutting dust
- » High cutting speeds
- » Greater productivity thanks to fewer blade changes



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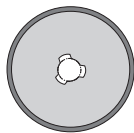
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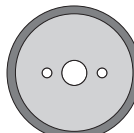
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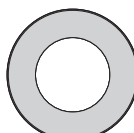
Ref. ø OD (mm) ø ID (mm) Thickn. (mm)



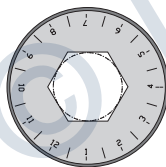
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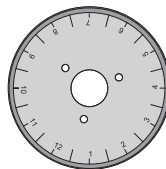


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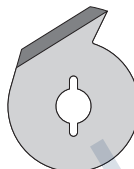


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Ref. ø OD (mm) ø ID (mm) Thickn. (mm)

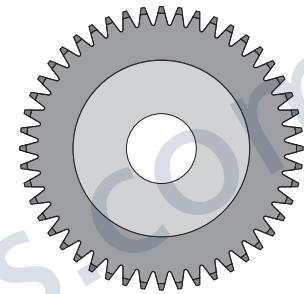


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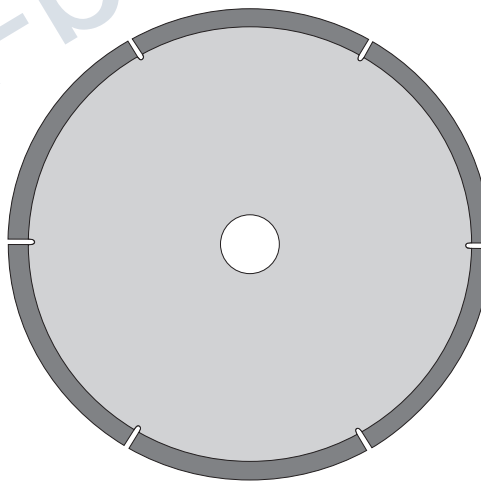


0162.1360 33.0 7.0 1.36

Ref. ø OD (mm) ø ID (mm) Thickn. (mm)



0131.5500 77.0 19.0 5.50



0111.1450 177.8 22.2 1.45

**THE FOLLOWING POSITIVE FEATURES ARE
TYPICAL OF LUTZ CIRCULAR BLADES AND CUTTERS**

- » Broad range of materials
(thicknesses: 0.06 mm - 3.0 mm)
- » Optimum hardening on all available thicknesses
(65 HRc at a thickness of $t \geq 0.1$ mm)
- » Maximum flatness
- » Razor-blade sharpness with
double-angle grinding



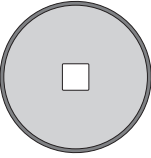
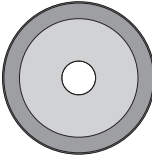
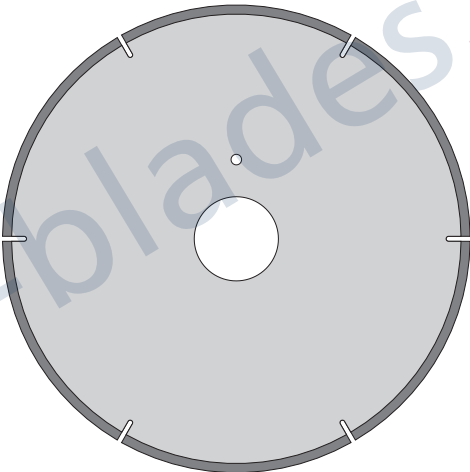
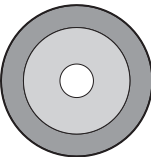
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	40.0	7.0	0.30		45.0	10.0	0.50		175.0	32.0	2.00
0108.0300				0119.0500				0112.2000			
0114.0300	26.0							0113.2000	175.0	32.0	2.00
	100.0	22.0	1.00					0111.2000	165.0	25.0	2.00
0115.1000											

AND THIS IS HOW YOU CAN BENEFIT FROM LUTZ POINTED BLADES

LUTZ pointed blades are among the best in the market. Thanks to their high quality standard, our pointed blades are popular for many different cutting processes: e.g. in surgery or in processing plastics and leather.

- » Easy plunge cutting in both hard and soft materials
- » Minimised effort and discomfort, e.g. when dotting and puncturing
- » Defined length-of-cut specification
- » Easy use with automatic cutting processes
- » Increased productivity thanks to bi-directional cutting






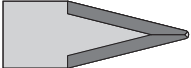



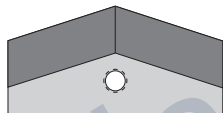
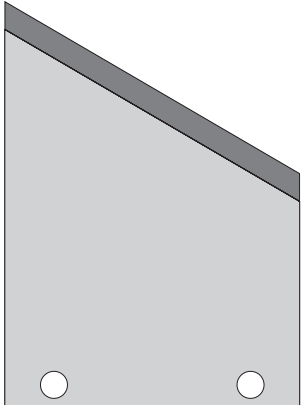

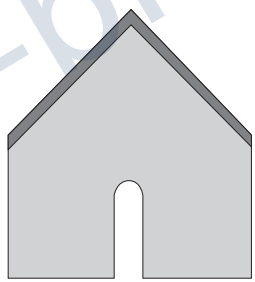
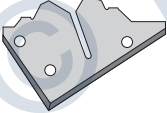


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Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 0016.0500	19.0	16.9	0.50	 0019.0400	12.0	4.1	0.40	 0029.0500	43.3	9.3	0.50
 0024.0650	23.2	8.3	0.65	 0026.0500	41.0	5.6	0.50	 2222.0400	40.5	8.2	0.40
 0046.1000	20.8	8.6	1.00	 0027.2000	50.0	25.0	2.0	 4090.0750	83.0	60.0	0.75
 0045.0680	7.0	7.0	0.68	 9580.1200	60.0	64.0	1.20				
 4440.0700	32.0	32.0	0.70	 0023.0500	14.0	12.0	0.50				
 9810.0650	23.0	15.6	0.65								

TOOTHED BLADES AND TOOTHED KNIVES FOR INDUSTRIAL CUTTING JOBS

Do you use toothed blades or toothed knives in your production processes? For cutting film, cardboard or paper? And you are keen to maximise accuracy and efficiency?

Then we are the partner you are looking for to provide peak technical performance.

Here is a selection of our products.

We are always pleased to advise on the design of new blades or the selection of an existing design from our range of products.







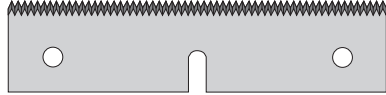
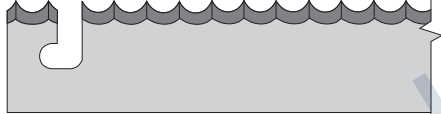
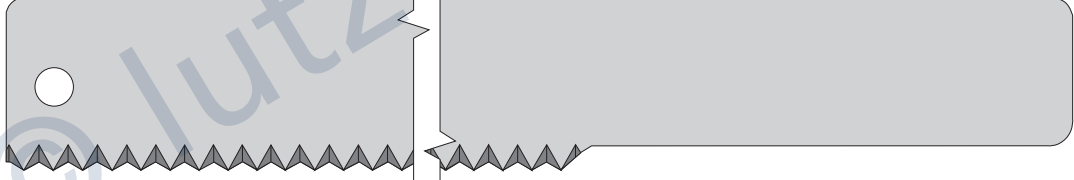
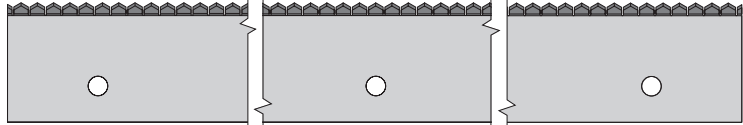
CUSTOM BLADES | FILM AND FOIL | CHEMICAL FIBRES AND FIBREGLASS | MEDICAL | FOOD | DIY | AUTOMOTIVE | TEXTILES

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Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	21.5	11.5	0.70		43.0	21.5	0.30		40.0	14.0	0.88
	99.0	20.0	0.30		108.0	25.4	0.51				
	499.0	20.0	1.00		600.0	35.0	2.00				
	300.0	33.0	1.00								

LUTZ MANUFACTURES OVER 600 DIFFERENT CUSTOM BLADES TO CUSTOMERS' DRAWINGS.

Our product range consists of serrated, toothed, wavy, curved, notched, pointed, multi-sided, crimped special-purpose blades and combinations of several shapes and geometries. Thanks to rapid

prototyping and highly flexible manufacturing technologies we are in a position to manufacture small (and even very small) runs of custom blades in only a few days!





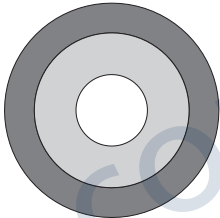





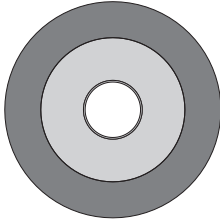

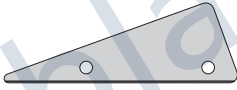


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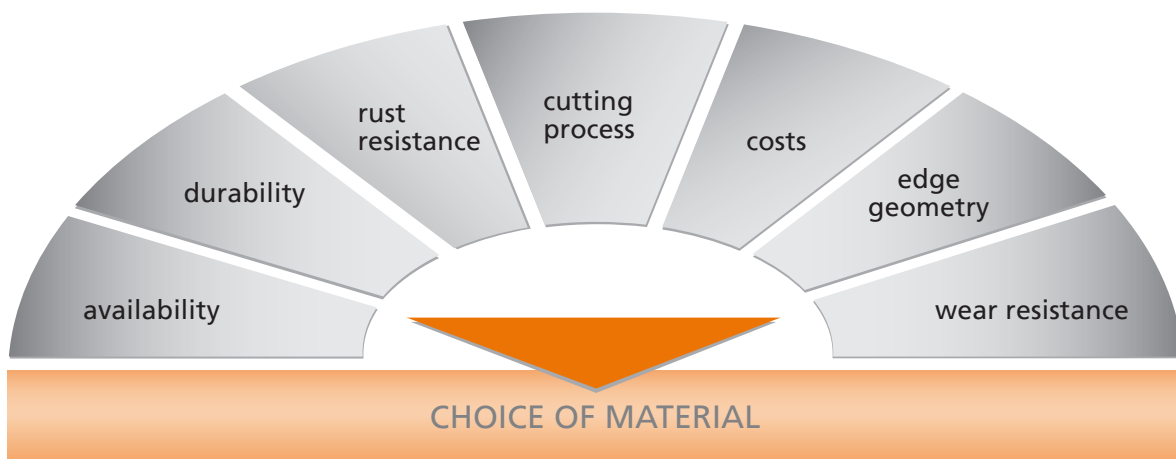
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Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 6390.0500	36.0	5.5	0.50	 6396.0500	32.9	5.8	0.50		39.0	10.0	3.00
 7250.0650	59.4	11.1	0.65	 4342.0460	6.3	9.9	0.46		38.0		
 0047.0500	18.0	4.4	0.50	 1253.0630	17.6	17.1	1.80		36.0	12.0	1.50
 4486.0500	16.0	8.3	0.50	 4579.0220	55.0	19.0	0.22				
 4487.0500	16.0	8.3	0.50								
 5024.0884	74.6	15.6	0.88								

CHOICE OF MATERIAL

Our range of products covers blades of between 0.06 and 3.0 mm in thickness and with final hardness ratings of 40 - 85 HRc.



- Our range of materials includes:
- » Carbon steels
 - » Stainless and rust-resistant steels
 - » Highspeed steels (HSS)
 - » Tool steels
 - » Tungsten carbides
 - » Ceramics

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CUTTING EDGE SHAPES

For the definition of edge type and bevel configuration see the following matrix:



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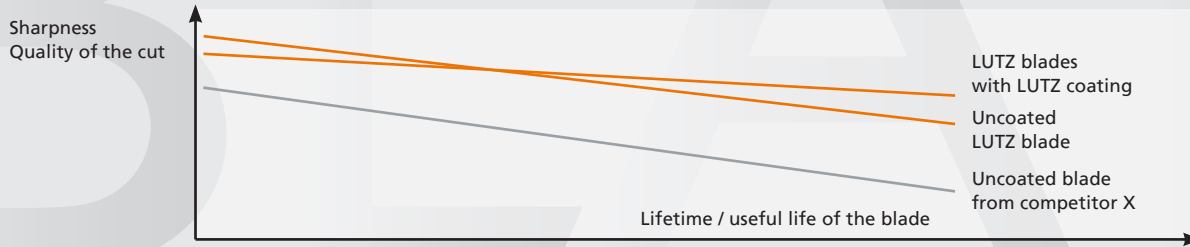
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		single edged	double edged	convex	concave	
one sided						
		a	g	m	t	
		b	h	n	u	
		c	i	o	v	
	two sided		d	j	p	w
			e	k	r	x
		f	l	s	y	

COATINGS



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The LUTZ coatings range includes the following choices:

TiN

Standard hard coating with tough resistance to wear with a relatively high coefficient of friction (compared with steel as a reference material: 0.4 to 0.7), usually gold coloured, safe use at up to approx. 300 °C.

TiC

Has lower resistance to wear than TiN and a considerably lower coefficient of friction (compared with steel as a reference material: 0.3 to 0.5), usually charcoal grey.

TiCN

Takes a position between the high wear resistance of TiN and the low coefficient of friction of TiC, relative position between TiN and TiC depending on C and N content, usually charcoal grey.

TiAlN

Has greater resistance to oxidation than TiN with a comparable coefficient of friction, usually charcoal grey.

ZrN

With wear resistance similar to TiN, but with a more dense morphology than TiN and, as a result, more resistant to pitting under comparable load, usually steel colour.

CrN

Lower wear resistance than TiN. The advantage of CrN is it has a lower inherent tension than TiN. As a result, can be used for applications with high bending loads.

DLC

Has a high wear resistance and a low coefficient of friction (approx. 0.4 compared with steel as a reference); sensitive to impacts and high temperatures (between 100° and 300 °C depending on structure).

Teflon® (PTFE)

Non-stick coating Teflon® (PTFE), very low static friction allows a smooth cut, therefore a popular coating for medical devices. Because of the low surface tension almost no contamination from the cut goods. Acid and base-resistant, not suitable in combination with Na (sodium). Temperature resistant up to 250°C (480°F). Medium wear resistance.

Coloured lacquer

Applied to entire surface, acts as an aid to sorting different material thicknesses and as anticorrosion protection.

Blueing and blackening

Applied to entire surface, some anticorrosion protection and thickness protection, also aids differentiation.