



## FILM BLADES MADE BY LUTZ – HIGH-PERFORMANCE BLADES FOR HIGH-PERFORMANCE FILM

CUSTOM BLADES

**FILM AND FOIL**

CHEMICAL FIBRES AND FIBREGLASS

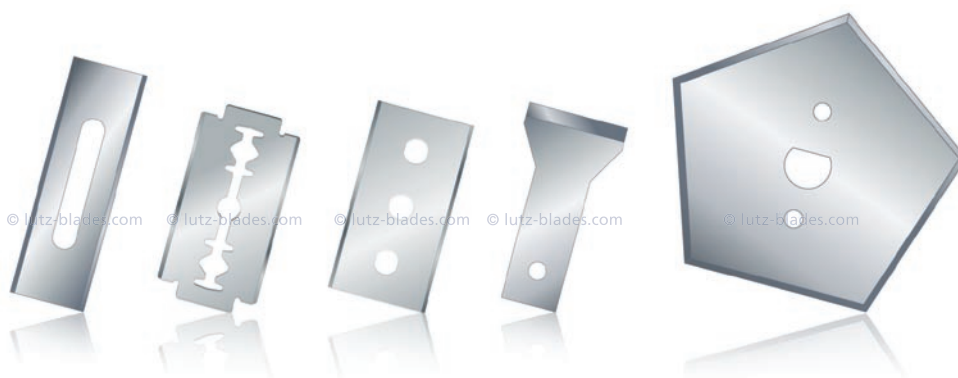
MEDICAL

FOOD

DIY

AUTOMOTIVE

TEXTILE



**FILM BLADES MADE BY LUTZ –  
HIGH-PERFORMANCE BLADES FOR HIGH-PERFORMANCE FILM**

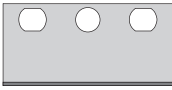

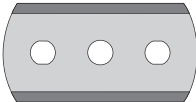
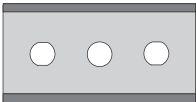
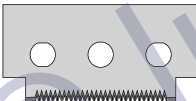

Tough film which is also highly elastic? Additives present? Impact loads and lateral forces? There is no doubt that film manufacture is a high-performance process.

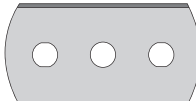












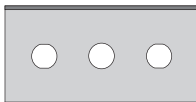














LUTZ manufactures high-grade special-purpose blades for industrial applications. We make use of a wide range of steel qualities, tungsten carbide and ceramics.

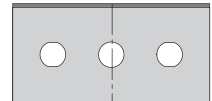







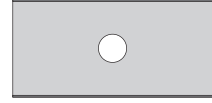
In terms of material, heat-treatment and cutter geometry, our blades are designed specifically to meet the application needs of the user.

CUSTOM BLADES | FILM AND FOIL | CHEMICAL FIBRE AND FIBREGLASS | MEDICAL | FOOD | DIY | AUTOMOTIVE | TEXTILE

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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	39.0	18.8	0.30
	34.0	8.0	0.30
	43.0	22.2	0.40
	43.0	22.2	0.40
	43.0	21.5	0.30
	39.0	18.9	0.25

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	43.0	22.2	0.06
			0.08
			0.10
			0.13
			0.15
			0.20
			0.30
			0.40
			0.65
			0.90
	43.0	22.2	0.10
			0.15
			0.30
	43.0	22.2	0.06
			0.08
			0.10
			0.13
			0.15
			0.20
			0.30
			0.40
			0.65
			0.90
	38.0		0.10
			0.15
			0.20
			0.30
			0.40

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	43.0	22.2	0.10
			0.15
			0.20
			0.30
			0.40
	43.0	22.2	0.10
			0.15
	40.0	18.8	0.25
	40.0	22.0	0.10

**AND THIS IS HOW YOU CAN BENEFIT FROM LUTZ BLADES**

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

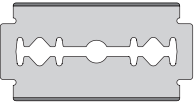
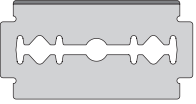

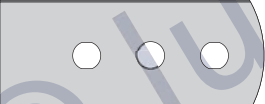
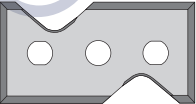
CUSTOM BLADES | FILM AND FOIL | CHEMICAL FIBRE AND FIBREGLASS | MEDICAL | FOOD | DIY | AUTOMOTIVE | TEXTILE

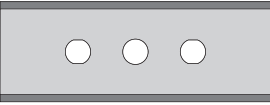


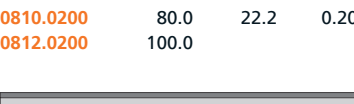

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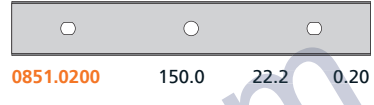

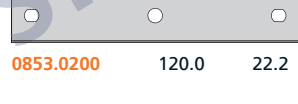
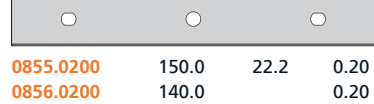
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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	43.0	22.2	0.10
0420.0150			0.15
0420.0200			0.20
0420.0300			0.30
	43.0	22.2	0.20
0436.0200			
	43.5	19.0	0.10
0425.0100			0.10
0428.0200			0.20
	52.7	22.2	0.15
0520.0150			
	43.0	22.0	1.00
0470.1000			

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	60.0	22.2	0.10
0600.0130			0.13
0600.0150			0.15
0600.0200			0.20
0600.0300			0.30
0600.0400			0.40
0500.0130	50.0		0.13
0500.0150			0.15
0500.0300			0.30
	80.0	22.2	0.20
0800.0200			0.20
0800.0300			0.30
	80.0	22.2	0.20
0810.0200			
	100.0	22.2	0.20
0812.0200			
	94.0	22.2	0.30
0850.0300			

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	150.0	22.2	0.20
0851.0200			
	118.0	22.2	0.15
0852.0150			
	120.0	22.2	0.20
0853.0200			
	150.0	22.2	0.20
0855.0200			
0856.0200	140.0		0.20
0857.0150	125.0		0.15

exactly WHAT YOU NEED FOR ALL FILM CUTTING APPLICATIONS

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E-Mail: [info@lutz-blades.com](mailto:info@lutz-blades.com) | [www.lutz-blades.com](http://www.lutz-blades.com)

**IMPROVING ON THE NEAR-PERFECT – HARD COATINGS EXTEND LIFETIMES**

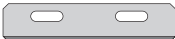



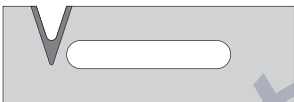
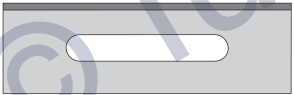
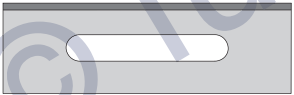
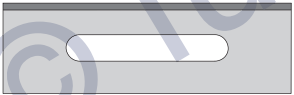
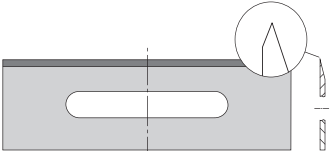
As a supplier of high-quality special blades, we pride ourselves on being able to offer a wide selection of coatings (TiN, TiC, TiAlN, CrN, DLC, TiCN, PTFE etc.), which



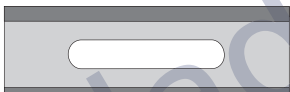
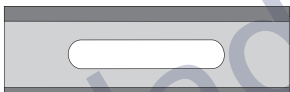
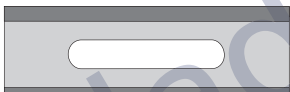
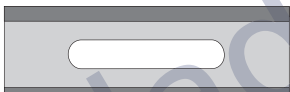
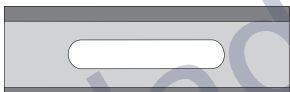
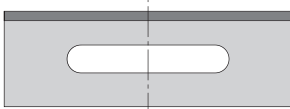
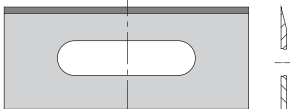
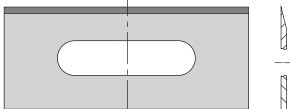
are designed to extend the lifetimes of the blades considerably when cutting white film, aluminium foil, filled LLDPE and PET film, magnetic tape, OPP and BOPP

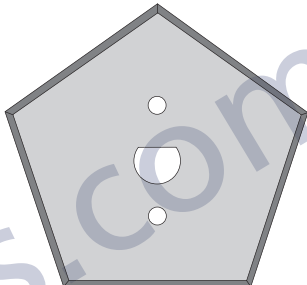
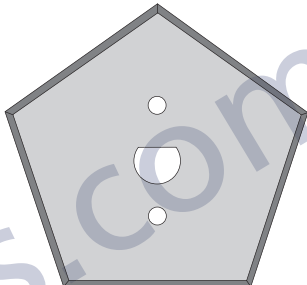

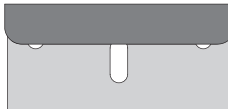
film and other types of film. We will be pleased to advise you.

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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 <b>6030.0254</b>	38.0	8.0	0.25
 <b>0707.0380</b>	57.0	19.1	0.38
 <b>0710.0400</b>	57.7	18.8	0.40
 <b>0697.0400</b>	28.5	19.1	0.40
 <b>4307.1000</b>	57.7	19.1	1.00
 <b>0711.0430</b>	57.0	19.1	0.43
 <b>0713.0630</b>	57.2	19.1	0.63
 <b>0709.0380</b>	57.0	18.8	0.38
 <b>0730.1000</b>	57.7	19.1	1.00

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 <b>0700.0400</b>	59.0	18.8	0.40
 <b>0698.0400</b>	59.0	18.8	0.40
 <b>0703.0380</b>	57.0	19.1	0.38
 <b>0705.0400</b>		18.8	0.40
 <b>0714.0500</b>			0.50
 <b>0715.0900</b>	59.0		0.90
 <b>0729.0630</b>	57.0	19.1	0.60
 <b>0717.0630</b>	57.2	19.1	0.63
 <b>0724.0300</b>	45.0	18.8	0.30
 <b>0718.0400</b>			0.40

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 <b>2650.0530</b>	41.4	63.8	0.53
 <b>2651.0530</b>	40.9	63.0	0.53
 <b>0308.0228</b>	39.8	19.5	0.23
 <b>0300.0250</b>	40.0	19.9	0.25

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Phone: +1 937 2933662 | Fax: +1 937 2934280  
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E-Mail: [info@lutz-blades.com](mailto:info@lutz-blades.com) | [www.lutz-blades.com](http://www.lutz-blades.com)

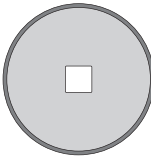
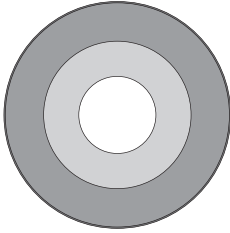
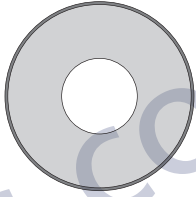
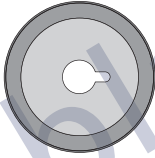
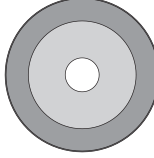
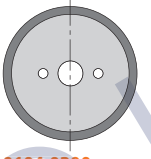
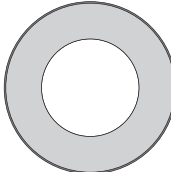
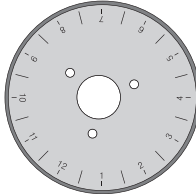
**LUTZ BLADES - CIRCULAR BLADES AND CUTTERS**

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 your production rolling.

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Ref.	ø OD (mm)	ø ID (mm)	Thickn. (mm)	Ref.	ø OD (mm)	ø ID (mm)	Thickn. (mm)	Ref.	ø OD (mm)	ø ID (mm)	Thickn. (mm)
	40.0	7.0	0.30		100.0	34.0	1.00		50.0	20.0	0.20
0108.0300	26.0			0125.1000				0145.0200			
0114.0300					45.0	10.0	0.50		100.0	22.0	1.00
0129.0100	30.0	10.0	0.10	0119.0500				0115.1000			
	30.0	5.0	0.30		30.0	17.0	0.10		44.0	10.0	0.30
0104.0300				0120.0100	50.0	25.0	0.15	0105.0300			
				0126.0150	70.0	48.0	0.15				
				0175.0150							

**BLADES IN CUTTING MACHINES? THAT MAKES US PARTNERS.**

We provide replacement blades for the following makes of machines:

- » Windmüller & Hölscher<sup>®</sup>
- » Reifenhäuser<sup>®</sup>
- » Starlinger<sup>®</sup>
- » Kampf<sup>®</sup>
- » Barmag<sup>®</sup>

- » Brückner<sup>®</sup>
- » SML/Lenzing<sup>®</sup>
- » Atlas<sup>®</sup>
- » Goebel<sup>®</sup>
- ... and more

CUSTOM BLADES | FILM AND FOIL | CHEMICAL FIBRE AND FIBREGLOSS | MEDICAL | FOOD | DIY | AUTOMOTIVE | TEXTILE

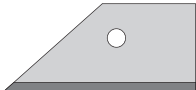
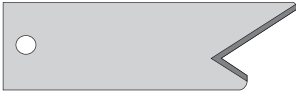
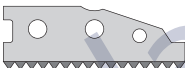
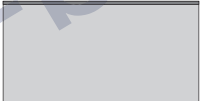
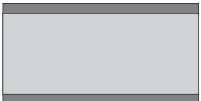
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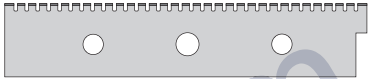
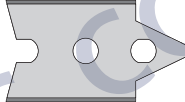
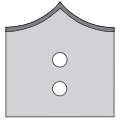
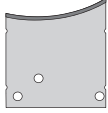
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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 <b>0021.0400</b>	21.0	8.0	0.40
 <b>0023.0500</b>	14.0	12.0	0.50
 <b>0016.0500</b>	19.0	16.9	0.50
 <b>0010.0400</b>	23.0	21.0	0.40
<b>0014.0500</b>		0.50	
 <b>0012.0500</b>	23.8	21.0	0.50
<b>0013.0200</b>		0.20	
 <b>0441.0150</b>	43.0	22.2	0.15

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 <b>1052.0680</b>	42.4	19.0	0.68
 <b>0918.0800</b>	65.0	19.0	0.80
 <b>4011.0880</b>	40.0	14.0	0.88
 <b>0801.0300</b>	43.0	22.2	0.30
 <b>0802.0400</b>	43.0	22.2	0.40

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 <b>0840.0300</b>	99.0	20.0	0.30
 <b>0220.0300</b>	39.5	22.2	0.30
 <b>1240.0380</b>	24.0	25.4	0.38
 <b>1350.0400</b>	24.3	22.0	0.40

## LUTZ BLADES MANUFACTURES OVER 500 DIFFERENT CUSTOM BLADES TO CUSTOMERS' DRAWINGS

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

Thanks to rapid prototyping and our 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!

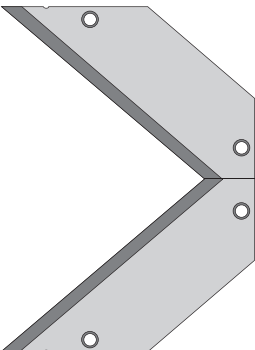
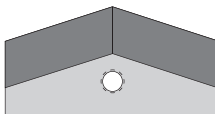
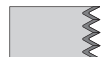





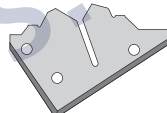




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Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	92.0	67.9	0.50		50.0	25.0	2.00		21.5	11.5	0.70
	29.0	5.0	0.40		12.0	4.1	0.40		41.0	5.6	0.50
	90.0	14.0	2.50		50.0	20.0	0.40		32.0	32.0	0.70
	18.8	4.8	0.50		7.0	7.0	0.68		23.0	15.6	0.65
	413.0	40.0	1.00		10.3	12.0	1.20				

**LUTZ INDUSTRIAL BLADES HAVE THE FOLLOWING CHARACTERISTICS**

- » The best materials
- » Adherence to the closest tolerances
- » Optimum hardness
- » Selected high-performance coatings






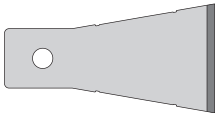

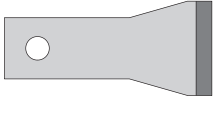


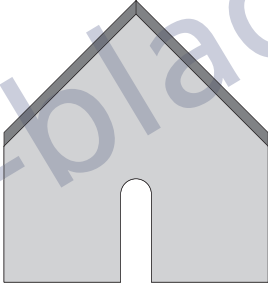

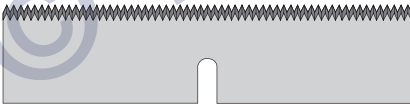

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Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)	Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	31.0	9.0	0.60		33.3	7.8	0.30		14.0	12.9	0.40
	250.0	28.0	1.00		46.0	24.0	0.80		46.5	24.2	1.00
	112.0	19.0	0.38		44.0	20.0	0.80		46.0	13.2	1.00
			0.40		60.0	64.0	1.20				
	40.5	8.2	0.40								
	108.0	25.4	0.51								
	499.0	20.0	1.00								



**CUTTING EDGE SHAPES**

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

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

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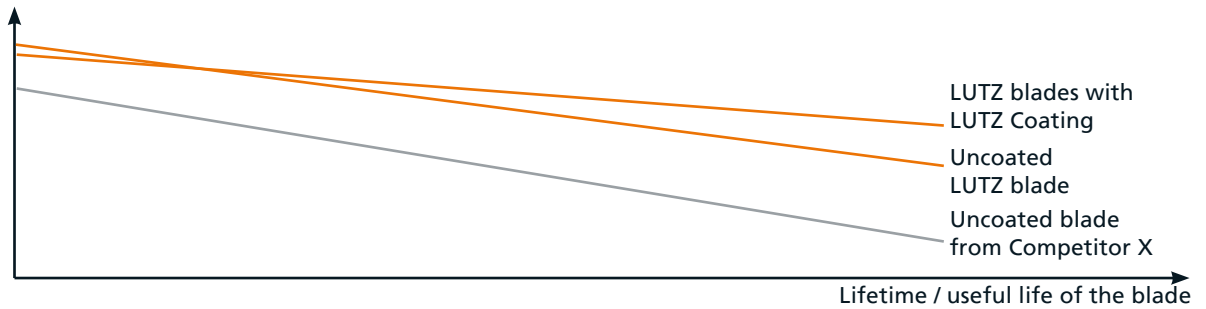
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## COATINGS

Sharpness  
Quality of the cut



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. 0.1 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

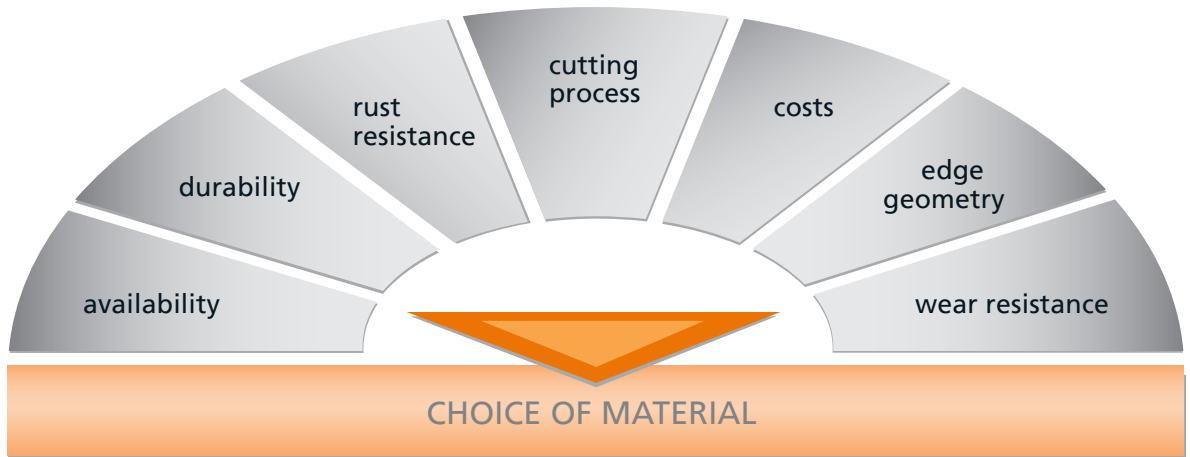
### Blueing and blackening

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

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## CHOICE OF MATERIAL

We produce blades in thicknesses between 0.06 and 3.0 mm 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 carbide
- » Ceramics

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