



**LONG SERVICE LIFETIMES, BETTER
PRODUCTIVITY: BLADES BY LUTZ BLADES FOR
CARPET AND TEXTILES MANUFACTURERS**



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

PRECISION. SHARPNESS. YOUR 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.

YOUR SUCCESS.

exactly



Your competitive advantage when you use blades from LUTZ BLADES for cutting applications in the carpet-making and textiles industries 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.



REPLACEMENT BLADES AND MACHINE KNIVES BY LUTZ BLADES STAND OUT DUE TO THESE FEATURES

- » Broad choice of materials
- » Extremely sharp, uniformly ground cutting edges
- » Uncoated and Teflon coated versions
- » Degree of hardening and cutting radii designed to match the specific application
- » Blade geometry and cutting edges made to the closest tolerances



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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)
	56.0	44.0	0.25		56.0	44.0	0.25		85.0	38.0	0.45
Steel hardness: 53 - 56 HRC				Coating: Teflon [®] PTFE				Steel hardness: 53 - 56 HRC			
9630.0250			0.30	9630.0250-5000			0.30	9629.0450			
9630.0300			0.35	9630.0300-5000			0.35				
9630.0350			0.45	9630.0350-5000			0.45				
9630.0450				9630.0450-5000							
	56.0	44.0	0.25		56.0	44.0	0.25		85.0	38.0	0.45
Steel hardness: 60 - 62 HRC				Coating: Teflon [®] PTFE				Coating: Teflon [®] PTFE			
9632.0250			0.30	9632.0250-5000			0.30	9629.0450-5000			
9632.0300			0.35	9632.0300-5000			0.35				
9632.0350			0.45	9632.0350-5000			0.45				
9632.0450				9632.0450-5000							
	57.5	44.0	0.25		57.5	44.0	0.25		81.0	24.8	1.00
Steel hardness: 53 - 56 HRC				Coating: Teflon [®] PTFE				1036.1000			
9635.0250			0.30	9635.0250-5000			0.30				
9635.0300			0.35	9635.0300-5000			0.35				
9635.0350			0.45	9635.0350-5000			0.45				
9635.0450				9635.0450-5000							

PLUSH KNIVES, SELVEDGE CUTTERS AND MACHINE KNIVES BY LUTZ BLADES FOR CARPET AND TEXTILES MANUFACTURE

Cutting actions in the textiles and carpet industries always have to be efficient while achieving the highest quality standards.

This applies to the production of textile flooring materials and for technical or medical textiles. Many leading plush weavers and manufacturers of technical fabrics have used blades by LUTZ BLADES successfully for years.

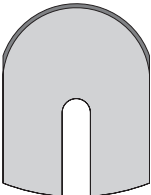
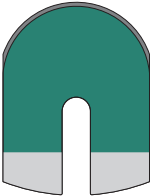
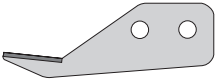
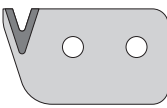



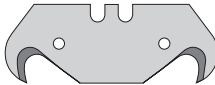





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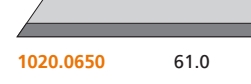
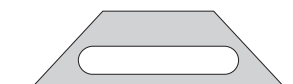

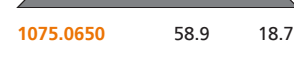
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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
			
Steel hardness: 60 - 62 HRc			
9636.0250	57.5	44.0	0.25
9636.0300			0.30
9636.0350			0.35
9636.0450			0.45
			
Coating: Teflon® PTFE			
Steel hardness: 60 - 62 HRc			
9636.0250-5000	57.5	44.0	0.25
9636.0300-5000			0.30
9636.0350-5000			0.35
9636.0450-5000			0.45
	39.7	14.4	0.88
9520.0880			
	26.0	15.0	1.80
9521.1800			

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	50.0	19.0	0.40
1069.0400			
	50.7	18.7	0.50
1251.0500			
			0.65
1251.0650			
	55.0	18.7	0.65
1281.0650			
	50.4	18.7	0.65
1288.0650			
	51.0	18.8	0.65
1291.0650			
	30.0	18.5	1.25
9525.1250			

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
	25.0	8.1	0.50
9110.0500			
	57.6	12.9	0.15
6025.0150			
	50.0	18.7	0.40
1110.0400			
			0.50
1110.0500			
			0.65
1110.0650			
	61.0	18.7	0.65
1020.0650			
	57.5	18.7	0.43
1077.0430			
	58.9	18.7	0.65
1075.0650			

BENEFIT FROM BLADES AND KNIVES BY LUTZ BLADES FOR CARPET AND TEXTILES MANUFACTURE

- » Improved productivity thanks to better blade durability
- » Reducing production downtimes
- » Broad selection of replacement blades
- » Reduction in start-up and end-of-line waste because the fibre does not burn as it is cut
- » Flexibility in the production environment thanks to optimum adaptation to local parameters

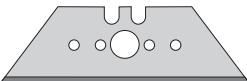



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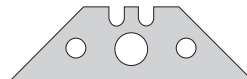
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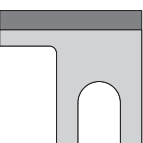
Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 1050.0650	61.0	18.7	0.65

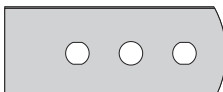
 1040.0650	61.0	18.7	0.65
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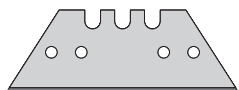
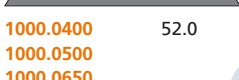

 1035.0430	58.9	18.7	0.43
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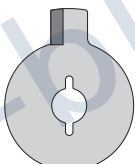
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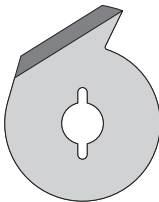
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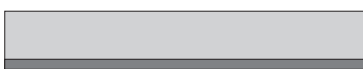
 5097.0884	20.0	19.0	0.88
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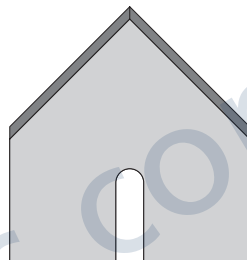
 0520.0150	52.7	22.2	0.15
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 1000.0400	52.0	18.7	0.40
 1000.0500			0.50
 1000.0650			0.65

 0164.1390	26.0	7.0	1.39
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 0162.1360	33.0	7.0	1.36
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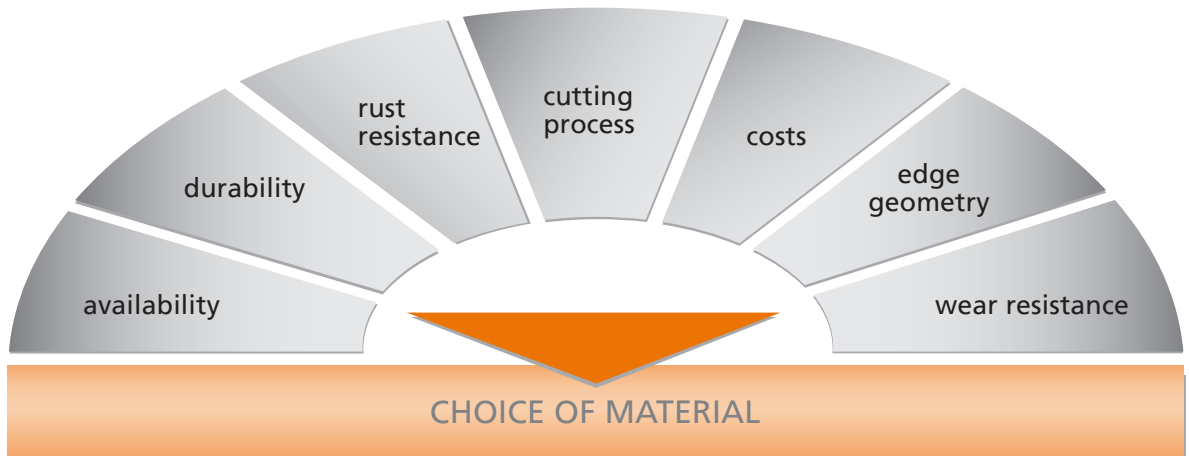
 5055.0884	117.5	15.6	0.88
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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 9580.1200	60.0	64.0	1.20

Ref.	ø OD (mm)	ø ID (mm)	Thickn. (mm)
 0205.1000	100.0	22.0	1.00

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

COATINGS



The LUTZ BLADES 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.

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