



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



**PRECISION. SHARPNESS. SUCCESS.**  
exactly

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

## 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.



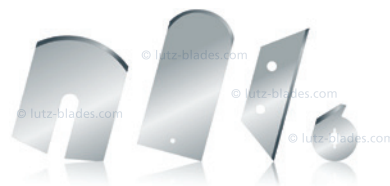
### SHARPNESS.

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 blades from LUTZ 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.



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

- » Broad choice of materials
- » Extremely sharp, uniformly ground cutting edges
- » Uncoated and Teflon coated versions (e.g. for plush knives)
- » 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)
											
Steel hardness: 53 - 56 HRC				Coating: Teflon® PTFE Steel hardness: 53 - 56 HRC				Steel hardness: 53 - 56 HRC			
9630.0250	56.0	44.0	0.25	9630.0250-5000	56.0	44.0	0.25	9629.0450	85.0	38.0	0.45
9630.0300			0.30	9630.0300-5000			0.30				
9630.0350			0.35	9630.0350-5000			0.35				
9630.0450			0.45	9630.0450-5000			0.45				
											
Steel hardness: 60 - 62 HRC				Coating: Teflon® PTFE Steel hardness: 60 - 62 HRC				Coating: Teflon® PTFE Steel hardness: 53 - 56 HRC			
9632.0250	56.0	44.0	0.25	9632.0250-5000	56.0	44.0	0.25	9629.0450-5000	85.0	38.0	0.45
9632.0300			0.30	9632.0300-5000			0.30				
9632.0350			0.35	9632.0350-5000			0.35				
9632.0450			0.45	9632.0450-5000			0.45				
											
Steel hardness: 53 - 56 HRC				Coating: Teflon® PTFE Steel hardness: 53 - 56 HRC				1036.1000	81.0	24.8	1.00
9635.0250	57.5	44.0	0.25	9635.0250-5000	57.5	44.0	0.25				
9635.0300			0.30	9635.0300-5000			0.30				
9635.0350			0.35	9635.0350-5000			0.35				
9635.0450			0.45	9635.0450-5000			0.45				

## LUTZ PLUSH KNIVES, SELVEDGE CUTTERS AND MACHINE KNIVES 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 LUTZ blades successfully for years.



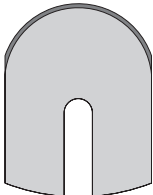
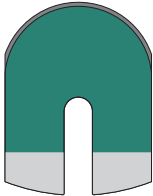
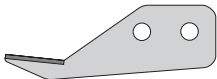

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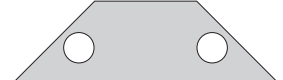
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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
			
Steel hardness: 60 - 62 HRc			
9636.0250	57.5	44.0	0.25
9636.0300			0.30
9636.0350			0.35
9636.0450			0.45
			
Coating: Teflon® PTFE			
Steel hardness: 60 - 62 HRc			
9636.0250-5000	57.5	44.0	0.25
9636.0300-5000			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			
1251.0650			0.65
	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			
1110.0500			0.50
1110.0650			0.65
	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 LUTZ BLADES AND KNIVES 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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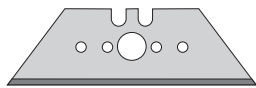
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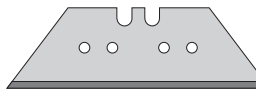
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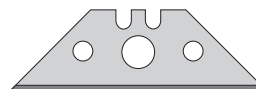
Ref.	Length (mm)	Width (mm)	Thickn. (mm)
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1050.0650	61.0	18.7	0.65
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1040.0650	61.0	18.7	0.65
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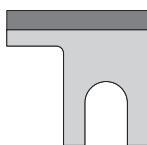
1035.0430	58.9	18.7	0.43
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0308.0228	39.8	19.5	0.23
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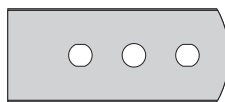


0300.0250	40.0	19.9	0.25
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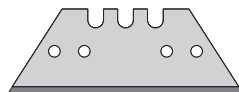


5097.0884	20.0	19.0	0.88
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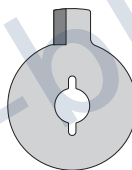
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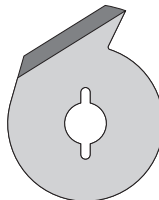
0520.0150	52.7	22.2	0.15
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1000.0400	52.0	18.7	0.40
1000.0500			0.50
1000.0650			0.65



0164.1390	26.0	7.0	1.39
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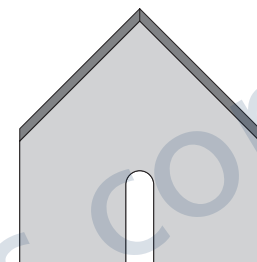


0162.1360	33.0	7.0	1.36
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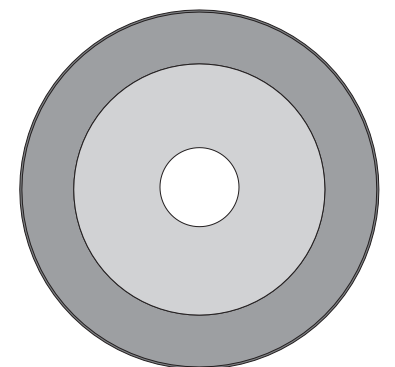
5055.0884	117.5	15.6	0.88
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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
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9580.1200	60.0	64.0	1.20
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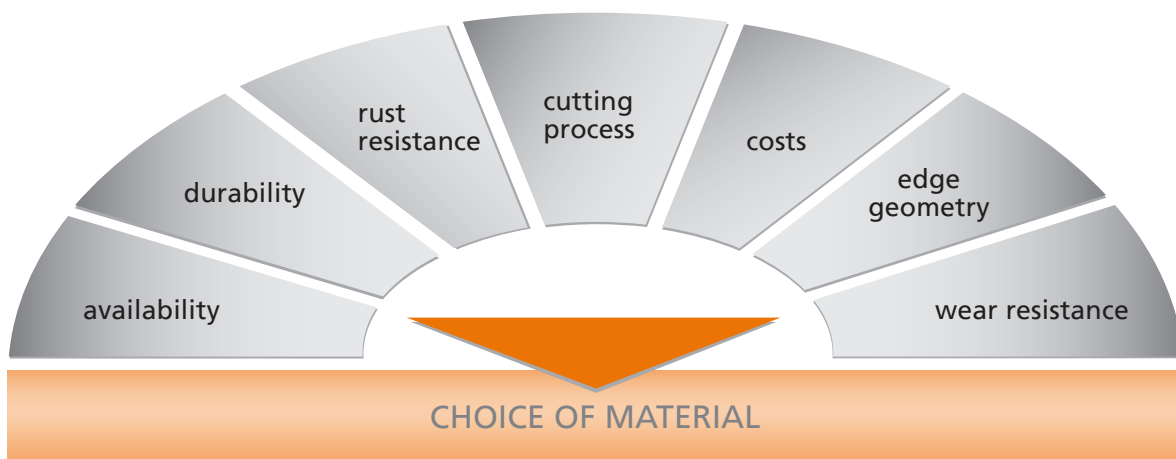
Ref.	ø OD (mm)	ø ID (mm)	Thickn. (mm)
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0205.1000	100.0	22.0	1.00
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## CHOICE OF MATERIAL

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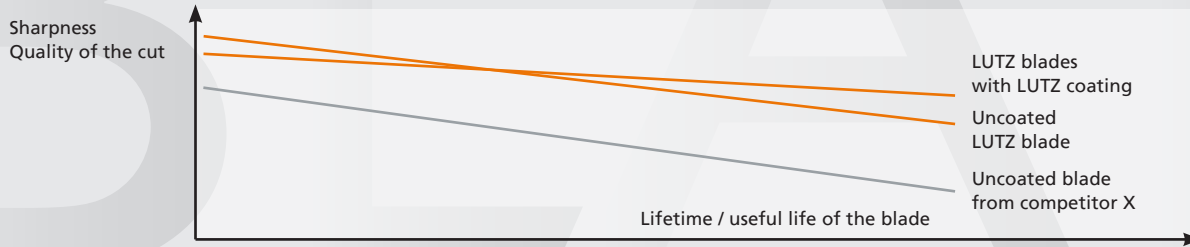
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		single edged	double edged	convex	concave
<b>one sided</b>					
		<b>a</b>	<b>g</b>	<b>m</b>	<b>t</b>
		<b>b</b>	<b>h</b>	<b>n</b>	<b>u</b>
<b>two sided</b>		<b>c</b>	<b>i</b>	<b>o</b>	<b>v</b>
		<b>d</b>	<b>j</b>	<b>p</b>	<b>w</b>
		<b>e</b>	<b>k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

**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.