



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

CUSTOM BLADES

FILM AND FOIL

CHEMICAL FIBRES AND FIBREGLASS

MEDICAL

FOOD

DIY

AUTOMOTIVE

TEXTILE



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

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

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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			
9630.0250	56.0	44.0	0.25	9630.0250-5000	56.0	44.0	0.25	9629.0300	85.0	38.0	0.30
9630.0300			0.30	9630.0300-5000			0.30	9629.0450			0.45
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: 53 - 56 HRC			
9632.0250	56.0	44.0	0.25	9632.0250-5000	56.0	44.0	0.25	9629.0300-5000	85.0	38.0	0.30
9632.0300			0.30	9632.0300-5000			0.30	9629.0450-5000			0.45
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			
9635.0250	57.5	44.0	0.25	9635.0250-5000	57.5	44.0	0.25	1036.1000	81.0	24.8	1.00
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				

exactly

WHAT YOU NEED FOR TEXTILE AND CARPET MANUFACTURING OR DOUBLE WEAVING

LUTZ GmbH & Co. KG | Wuppertaler Strasse 251 | DE-42653 Solingen | Germany

Phone: +49 212 5966-0 | Fax: +49 212 5966-26 | Email: info@lutz-blades.com | www.lutz-blades.com

LUTZ PLUSH KNIVES. SELVAGE CUTTERS AND MACHINE KNIVES FOR CARPET AND TEXTILES MANUFACTURE

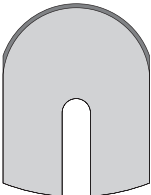
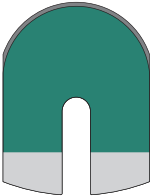
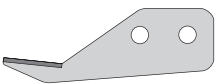
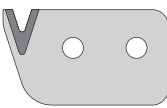
Cutting actions in the textiles and carpet industries always have to be efficient while achieving the highest quality standards.

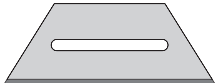
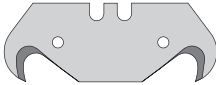






This applies to the production of textile flooring materials and for technical or medical textiles.

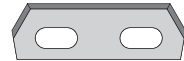





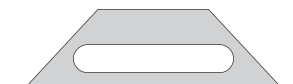

Many leading plush weavers and manufacturers of technical fabrics have used LUTZ blades successfully for years.

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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
	55.0	18.7	0.65
1281.0650			
	50.4	18.7	0.65
1288.0650			
	51.0	18.8	0.65
1291.0650			
	59.8	8.4	0.80
1303.0800			
	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
	61.0	18.7	0.65
1020.0650			
	57.5	18.7	0.43
1077.0430			
	58.9	18.7	0.65
1075.0650			

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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

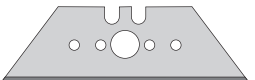





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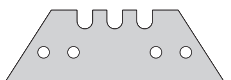

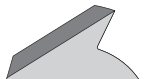

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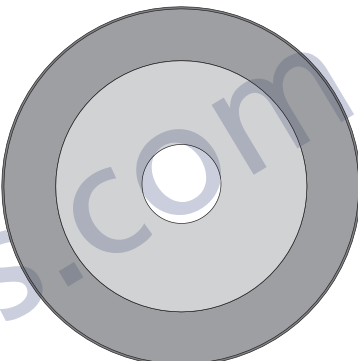
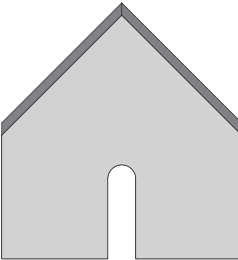
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Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 1050.0650	61.0	18.7	0.65
 1040.0650	61.0	18.7	0.65
 1035.0430	58.9	18.7	0.43
 0308.0228	40.0	19.5	0.23
 0300.0250	40.0	19.9	0.25
 5097.0884	20.0	19.0	0.88

Ref.	Length (mm)	Width (mm)	Thickn. (mm)
 0520.0150	52.7	22.2	0.15
 1000.0400 1000.0500 1000.0650	52.0	18.7	0.40 0.50 0.65
 0164.1390	26.0	7.0	1.39
 0162.1360	33.0	7.0	1.36
 5055.0884	117.5	15.6	0.88

Ref.	OD (mm)	ID (mm)	Thickn. (mm)
 0205.1000	100.0	22.0	1.00
 9580.1200	60.0	64.0	1.20

CUTTING EDGE SHAPES

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

		single edged	double edged	convex	concave
one sided					
two sided					

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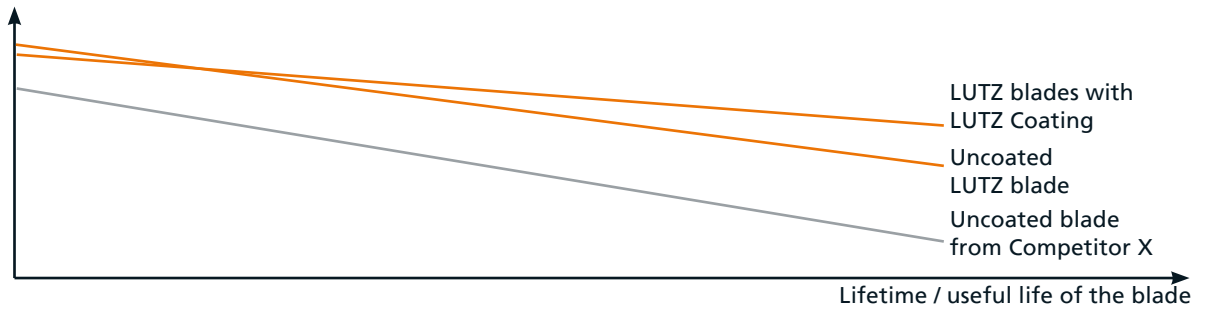
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COATINGS

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

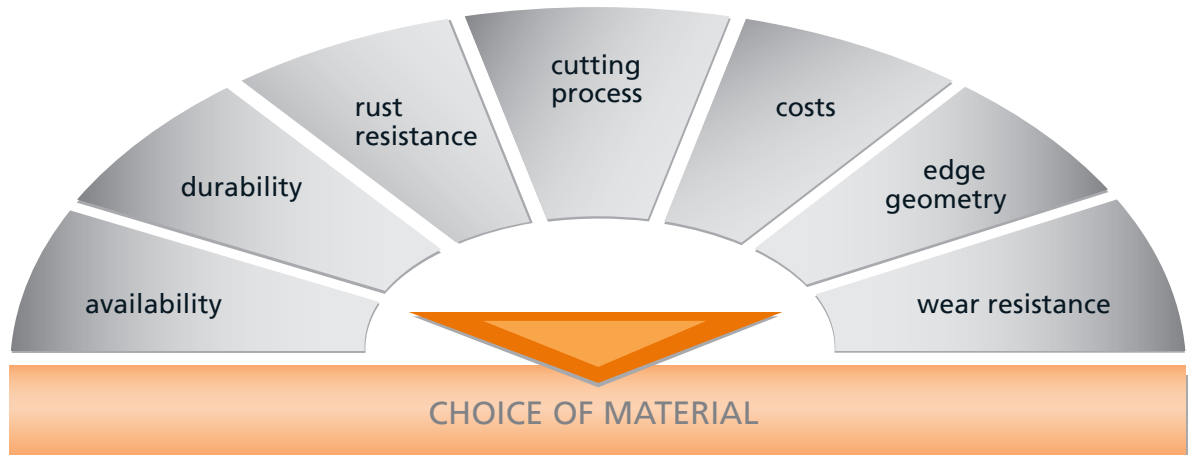
Applied to entire surface, acts as an aid to sorting different material thicknesses and as anticorrosion protection

Blueing and blackening

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

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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