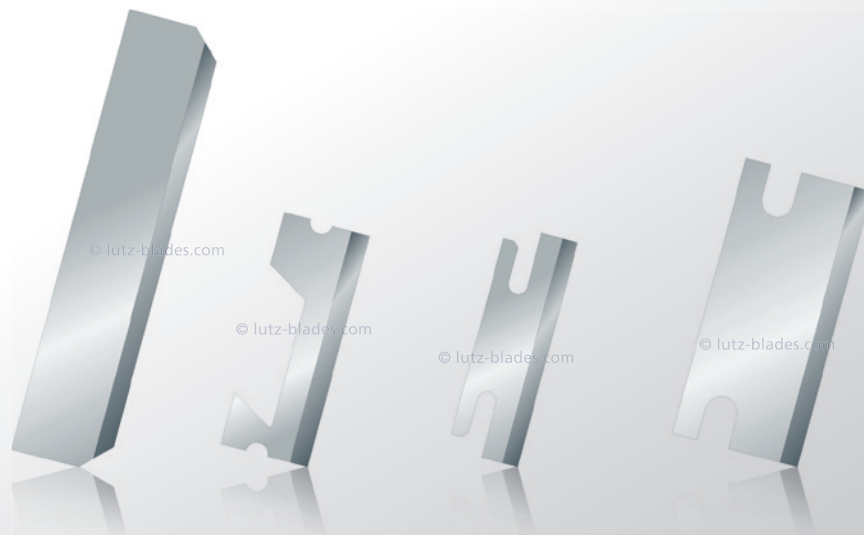


PRECISE AND FAST – BOOST YOUR
PRODUCTIVITY WITH FIBRE CUTTERS
FROM LUTZ



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.

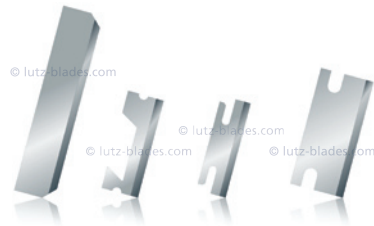
We have been making blades and cutters since 1922. From razor-sharp, for extremely fine cutting jobs to extremely robust for impact and pressure cutting actions. Together with the customer, we define all the relevant parameters to ensure your individual requirements are met – to provide greater sharpness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

PAGE 2 | CHEMICAL FIBRES AND FIBREGLASS | MAR-0028 Rev. 003/13-01-2015

SUCCESS.

exactly

Your competitive advantage when you use blades from LUTZ for cutting synthetic fibres and fibreglass 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.



AND THIS IS HOW YOU CAN BENEFIT FROM LUTZ CHEMICAL FIBRE BLADES

- » Controlled length of fibre and no unravelling
- » Longer machine up-times thanks to fewer blade changes
- » Higher productivity
- » Adaptation of the blade to match your specific process requirements



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) |
|--|-------------|------------|--------------|--|-------------|------------|--------------|---|-------------|------------|--------------|
|  | 405.6 | 18.8 | 0.88 |  | 74.5 | 15.5 | 0.88 |  | 74.6 | 15.6 | 0.88 |
| 3196.0884 | | | | 5004.0884 | | | | 5001.0884 | 90.0 | | |
| | | | | | | | | 5009.0884 | 95.0 | | |
| | | | | | | | | 5014.0884 | 107.0 | | |
| | | | | | | | | 5015.0884 | 96.0 | 15.7 | |
| | | | | | | | | 5020.0884 | 80.0 | 15.6 | |
|  | 95.0 | 19.0 | 0.89 |  | 48.0 | 7.9 | 0.88 |  | 100.0 | 15.6 | 0.88 |
| 5051.0884 | | | | 5040.0884 | | | | 5007.0884 | | | |
| | | | | 5056.0884 | 64.0 | | | | | | |
|  | 70.0 | 10.0 | 0.88 |  | 32.2 | 12.1 | 0.88 |  | 26.0 | 4.9 | 0.88 |
| 5130.0884 | | | | 5035.0884 | | | | 5151.0884 | | | |
| | | | |  | 16.0 | 8.0 | 0.48 |  | 25.6 | 8.0 | 0.40 |
| | | | | 7502.0480 | | | | 8903.0400 | | | |
|  | 190.0 | 15.7 | 0.88 |  | 41.3 | 18.8 | 0.88 |  | 117.5 | 15.6 | 0.88 |
| 5013.0884 | | | | 5010.0884 | | | | 5055.0884 | | | |
|  | 95.0 | 10.0 | 0.88 |  | 120.0 | 8.0 | 0.70 | | | | |
| 5120.0884 | | | | 5136.0700 | | | | | | | |
| | | | |  | 144.0 | | | | | | |
| | | | | 5135.0700 | | | | | | | |

LUTZ BLADES – THE PREFERRED CHOICE FOR CUTTING FIBREGLASS

Cutting fibreglass requires blades that are of high quality and efficiency.

This applies to chopping strands, rovings and composite materials as well.

Benefits of LUTZ fibreglass blades:

- » Outstanding, consistent quality for uniform cut lengths

- » Avoid rust and contamination from fibreglass
- » Adaptation of the blades to match your process requirements (e.g. wet or dry cutting, different kinds of fibreglass)










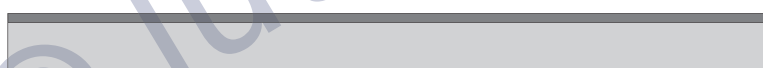

CUSTOM BLADES | FILM AND FOIL | CHEMICAL FIBRES AND FIBREGLASS | MEDICAL | FOOD | DIY | AUTOMOTIVE | TEXTILES

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|--|-------------|------------|--------------|--|-------------|------------|--------------|---|-------------|------------|--------------|
|  | | | |  | | | |  | | | |
| 3242.0254 | 25.4 | 7.9 | 0.25 | 3146.0250 | 120.5 | 8.0 | 0.25 | 5030.0884 | 54.0 | 15.6 | 0.88 |
| | | | | 3146.0500 | | | 0.50 | | | | |
| | | | | 3145.0250 | 400.0 | | 0.25 |  | | | |
|  | | | | 3144.0300 | 190.0 | | 0.30 | 5029.0884 | 74.6 | 15.6 | 0.88 |
| 2993.0300 | endless | 8.1 | 0.30 | 3210.0250 | 100.0 | 8.3 | 0.25 | 5031.0884 | 87.0 | | |
| 3009.0300 | endless | 8.0 | 0.30 | 3252.0300 | 1760.0 | | 0.30 | | | | |
|  | | | | | | | |  | | | |
| 3201.0884 | 155.0 | 15.8 | 0.88 | | | | | 3240.0254 | 22.2 | 7.9 | 0.25 |
| 3188.0870 | 232.0 | | 0.87 | | | | | 5034.0900 | 52.0 | 19.0 | 0.90 |
|  | | | | | | | | | | | |
| 3220.0630 | 152.4 | 18.8 | 0.63 | | | | | | | | |
| 3208.0884 | 155.0 | | 0.88 | | | | | | | | |
| 3211.0381 | 235.7 | 18.9 | 0.38 | | | | | | | | |
| 3198.0400 | 300.0 | 18.0 | 0.40 | | | | | | | | |
|  | | | | | | | | | | | |
| 3195.0300 | 200.0 | 19.0 | 0.30 | | | | | | | | |
|  | | | | | | | | | | | |
| 3172.0254 | 225.0 | 17.8 | 0.25 | | | | | | | | |
| 3194.0254 | 238.0 | | 0.25 | | | | | | | | |
|  | | | | | | | | | | | |
| 3207.0300 | 300.0 | 20.0 | 0.30 | | | | | | | | |
| 3206.0700 | 1371.6 | 22.2 | 0.70 | | | | | | | | |

LUTZ FIBRE BLADES HAVE THE FOLLOWING CHARACTERISTICS

- » Broad range of materials
- » Adhere to difficult tolerance standards
- » Meet optimum hardness requirements
- » Selected high performance coatings available



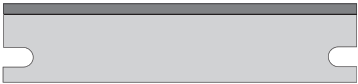
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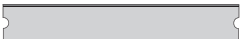
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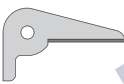
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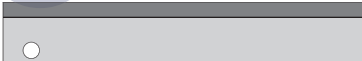
| Ref. | Length (mm) | Width (mm) | Thickn. (mm) |
|--|-------------|------------|--------------|
|  | | | |
| 5123.0884 | 97.5 | 18.8 | 0.88 |

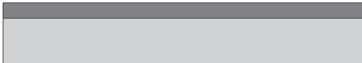
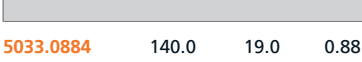
| | | | |
|---|------|------|------|
|  | | | |
| 5036.0884 | 64.4 | 12.1 | 0.88 |

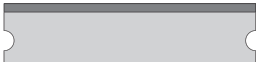


| | | | |
|---|------|------|------|
|  | | | |
| 5093.0884 | 63.0 | 10.0 | 0.88 |

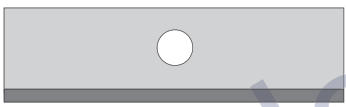
| | | | |
|---|------|------|------|
|  | | | |
| 9520.0880 | 39.7 | 14.4 | 0.88 |



| | | | |
|---|------|------|------|
|  | | | |
| 9525.1250 | 30.0 | 18.0 | 1.25 |


| | | | |
|---|-------|------|------|
|  | | | |
| 5140.1400 | 135.0 | 18.5 | 1.40 |


| | | | |
|---|-------|------|------|
|  | | | |
| 5033.0884 | 140.0 | 19.0 | 0.88 |
|  | | | |
| 5032.0884 | 320.0 | | |

| Ref. | Length (mm) | Width (mm) | Thickn. (mm) |
|---|-------------|------------|--------------|
|  | | | |
| 5050.0884 | 75.0 | 19.0 | 0.88 |
|  | | | |
| 5060.0884 | 95.0 | | |
|  | | | |
| 5070.0884 | 140.0 | | |


| | | | |
|--|------|------|------|
|  | | | |
| 5091.0884 | 96.8 | 19.0 | 0.88 |

| | | | |
|--|-------|------|------|
|  | | | |
| 5063.0914 | 114.3 | 18.8 | 0.91 |
|  | | | |
| 5080.0884 | 190.0 | | |

| | | | |
|--|-------|------|------|
|  | | | |
| 5076.0884 | 120.0 | 19.0 | 0.88 |

| Ref. | Length (mm) | Width (mm) | Thickn. (mm) |
|--|-------------|------------|--------------|
|  | | | |
| 5052.0884 | 80.0 | 15.6 | 0.88 |

| | | | |
|---|------|------|------|
|  | | | |
| 5082.0700 | 32.2 | 12.0 | 0.70 |

| | | | |
|---|------|------|------|
|  | | | |
| 5097.0884 | 20.0 | 19.0 | 0.88 |

LUTZ BLADES – THE PREFERRED CHOICE FOR CUTTING CHEMICAL FIBRES

Whether staple fibres, filaments or web, manufacturing chemical fibres is a high-performance process. Excellent blades can have a decisive influence on the efficiency of the process and the quality of the product.

LUTZ blades take into account varying diameters and are made to deal with treatments and heavy impacts from thicker sections.



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

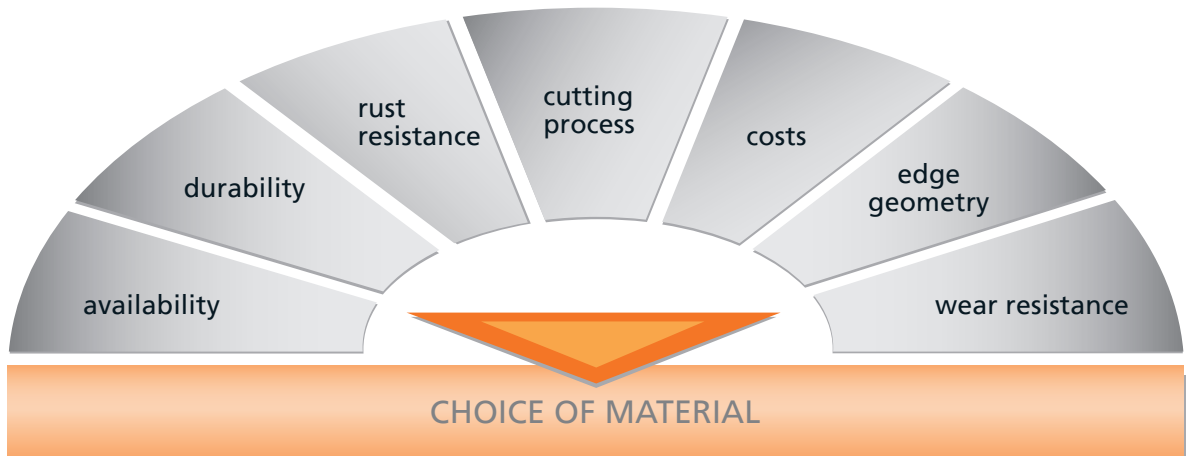
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| Ref. | Length (mm) | Width (mm) | Thickn. (mm) | Ref. | Length (mm) | Width (mm) | Thickn. (mm) | Ref. | Length (mm) | Width (mm) | Thickn. (mm) |
|--|-------------|------------|--------------|---|-------------|------------|--------------|---|-------------|------------|--------------|
|  | 41.4 | 63.8 | 0.53 |  | 26.0 | 15.0 | 1.80 |  | 60.0 | 64.0 | 1.20 |
| 2650.0530 | | | | 9521.1800 | | | | 9580.1200 | | | |
|  | 86.4 | 16.0 | 0.65 |  | 23.0 | 15.55 | 0.65 |  | 20.2 | 15.5 | 1.00 |
| 3130.0650 | | | | 9810.0650 | | | | 9555.1000 | | | |
| 3130.0884 | | | 0.88 |  | 60.0 | 19.0 | 0.90 | | | | |
| 3215.0630 | | | 0.63 | | | | | | | | |
| 3135.0900 | 80.0 | 18.9 | 0.90 | | | | | | | | |
|  | 196.0 | 12.5 | 0.88 | | | | | | | | |
| 3181.0884 | | | | | | | | | | | |
| 3250.0300 | 126.0 | 8.0 | 0.30 | | | | | | | | |
| 3182.0870 | 352.0 | 15.7 | 0.87 | | | | | | | | |
| 3177.0884 | 124.5 | 15.6 | 0.88 | | | | | | | | |
| 3175.0884 | 155.0 | | | | | | | | | | |
| 3183.0884 | 195.0 | 15.8 | | | | | | | | | |
| 3180.0870 | 248.0 | | 0.87 | | | | | | | | |

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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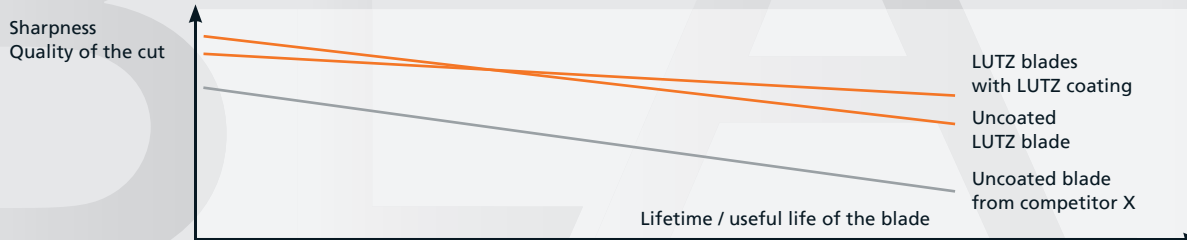
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| | | single edged | double edged | convex | concave |
|------------------|--|--------------|--------------|--------|---------|
| one sided | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| two sided | | | | | |

COATINGS



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.

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