LUTZ BLADES®
exactly

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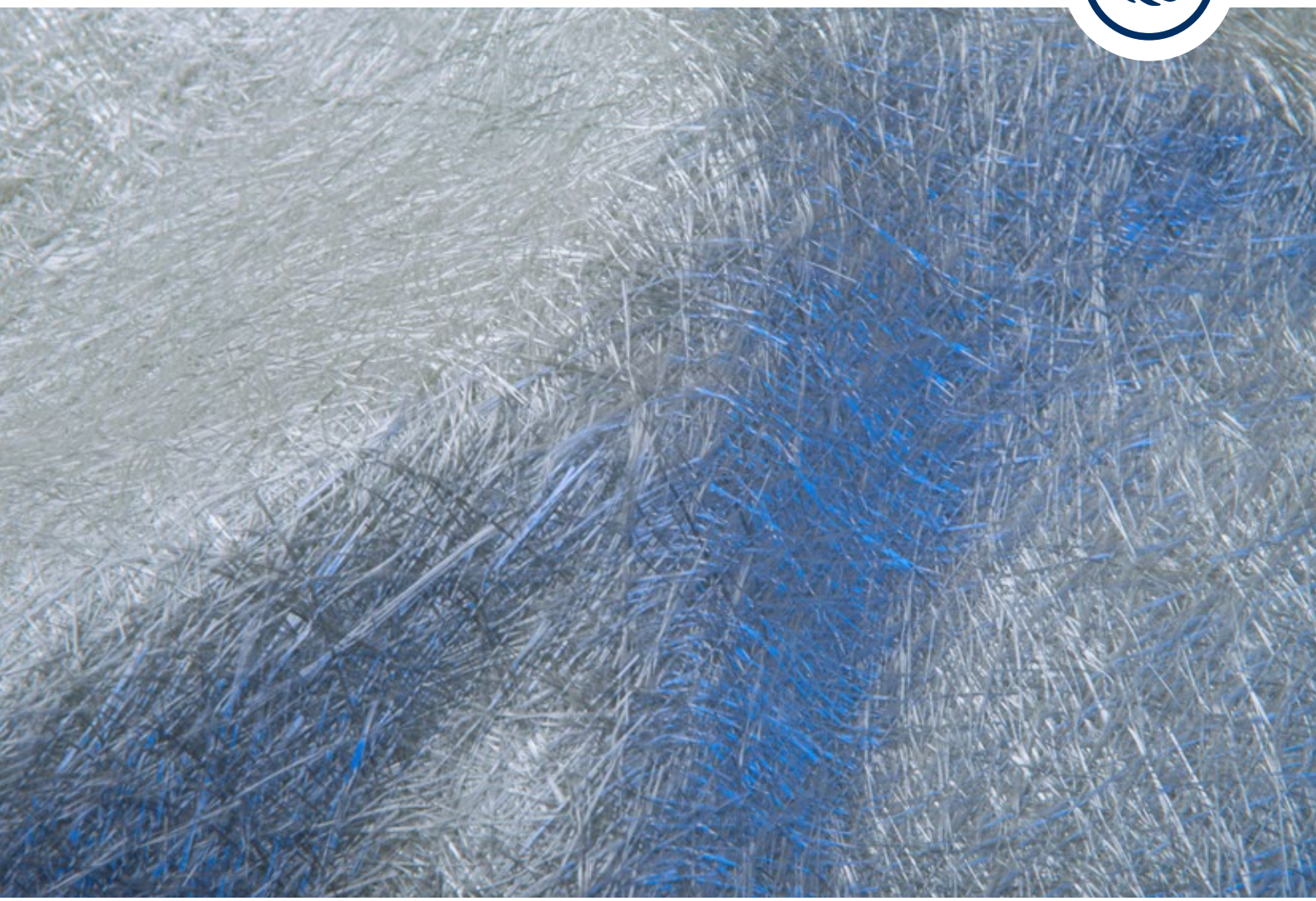
INDUSTRIAL BLADES FOR THE MECHANICAL **PROCESSING OF GLASS FIBERS**



PRECISION AND SHARPNESS – **FOR YOUR SUCCESS!**

Whether "razor-sharp" for the finest cuts or "extremely stable" for impact and pressure cuts: for more than 100 years, precision has been the philosophy of our company – in everything we think, produce and and deliver to our customers. Precision guides us from the idea the finished product to the optimum solution for every cutting cutting task. This is the only way we can meet the demands that our customers place on us. In every development and production step – blade by blade. To achieve this, we are committed to high quality, precision to high quality, precision and sharpness in our work. We define all relevant parameters together with our customers parameters that are necessary to fulfill the individual requirements requirements – for greater sharpness and service life. In doing so always see ourselves as a partner to our customers and not only focus on current but also on future customer future customer requirements.

We want our customers to be successful, because their success is our success.

FROM SOLINGEN **TO THE WHOLE WORLD**

More than 100 years ago, the history of the company LUTZ began in Solingen. Founded as a contract grinding shop for razor blades, the family business developed over three generations to become an international and globally active manufacturer of industrial blades for a wide variety of applications applications in numerous industries.

1922	3	>380	23.000	>1.500	>500
Foundation of LUTZ BLADES	Generations of Family business	Motivated employees	Production area in m^2	Standard blades in the range	Special blades in the range

IN USE EVERYWHERE

Blades from LUTZ BLADES are used in a wide range of applications – from food production and various industrial sectors to medical and laboratory applications, as well as the tool trade. Renowned companies rely on our expertise, precision, and the reliability of our blades. No matter the purpose for which you need a blade from LUTZ BLADES, you can rest assured that we will provide you with a product that meets your exact requirements.

OUR CERTIFICATES

ISO 13485:2016

DIN EN ISO 50001:2018

DIN EN ISO 9001:2015

WITH US, YOU WILL FIND THE BLADES
THAT HELP YOU CUT SUCCESSFULLY

Since 1922, LUTZ BLADES has been manufacturing blades and knives for industrial applications – ranging from „razor-sharp“ for the finest cuts to „extremely stable“ for impact and pressure cuts. To find the optimal solution for every cutting task, we work closely with our customers to define all relevant parameters, ensuring individual requirements are perfectly met – for greater sharpness and a longer service life. By combining task-specific materials, the tightest geometric tolerances, high-performance coatings, and three generations of experience, we provide exactly what our customers need: blades that last longer and cut more successfully.

STAPLE FIBER BLADES FOR THE BEST CUTTING RESULTS
IN THE GLASS FIBER INDUSTRY

Cutting glass fibers places the highest demands on efficiency and quality. This applies to chopped strands as well as rovings and flat structures.
The production of glass fibers is always a high-performance process. Whether it is staple fibers, filaments or nonwovens:

An excellent blade can have a decisive influence on efficiency and quality for any process, because it takes into account different diameters as well as preparation media or impact loads due to thickening.

PRODUCT RANGE EXCERPT
GLASS FIBER BLADES FROM LUTZ BLADES

	Article description	Blade shape	Coating	Length [mm]	Breite [mm]	Width [mm]	Material
	RECTANGULAR BLADES						
	Glas fiber blade-3180	Rectangular blades	without	248.00	15.79	0.87	carbon steel
	Glas fiber blade-3201	Rectangular blades	without	155.00	15.80	0.88	stainless steel
	Glas fiber blade-3210	Rectangular blades	without	100.00	8.30	0.25	carbon steel

	Article description	Blade shape	Coating	Length [mm]	Breite [mm]	Width [mm]	Material
	Glas fiber blade-3212	Rectangular blades	without, TiAN	178.00	15.60	0.88	stainless steel
	Glas fiber blade-3232	Rectangular blades	without	178.00	15.60	0.87	carbon steel
	Glas fiber blade-3240	Rectangular blades	without, DLC, TiAN	22.20	7.94	0.25	carbon steel
	Glas fiber blade-3242	Rectangular blades	without	25.40	7.94	0.25	carbon steel, stainless steel
	Glas fiber blade-3242	Rectangular blades	TiN	25.40	7.94	0.25	carbon steel, stainless steel
	Glas fiber blade-3266	Rectangular blades	without	197.00	14.50	0.30	carbon steel
	Glas fiber blade-3297	Rectangular blades	without, TiN	95.25	18.80	0.88	stainless steel
	Glas fiber blade-3321	Rectangular blades	without	35.00	10.00	0.25	stainless steel

OUR VERSATILE **COATING PROGRAM**

TiN (Titan-Nitrid)

A standard hard material with high wear resistance and a relatively high coefficient of friction (against the reference material steel: approx. 0.4 to 0.7). Typically gold-colored. Safe application range: up to approx. 300 °C.

TiC (Titanium Carbide)

Offers lower wear resistance compared to TiN but has a significantly lower coefficient of friction (approx. 0.3 to 0.5 against the reference material steel). Typically anthracite in color.

TiCN (Titanium Carbon Nitride)

An intermediate coating material combining the high wear resistance of TiN with the low coefficient of friction of TiC. The properties vary depending on the C/N ratio. Typically anthracite in color.

TiAlN (Titanium Aluminium Nitride)

Provides greater oxidation resistance than TiN, with a comparable coefficient of friction. Typically anthracite blue in appearance.

DLC (Diamond-Like Carbon)

Features high wear resistance with a low coefficient of friction (approx. 0.1 against the reference material steel). Susceptible to impact loads and high temperatures (between 100 and 300 °C, depending on the structure).

Blueing / Blackening

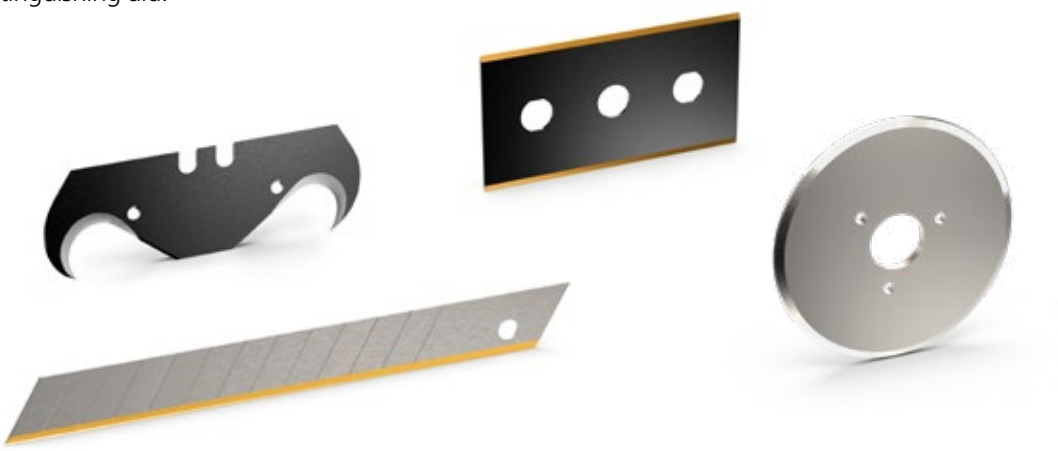
Applied over the entire surface, light corrosion and strength protection, also serves as a differentiation aid. Coatings on the cutting edges can also be combined with full-surface coatings to further improve wear protection.

PTFE (Polytetrafluoroethylene) – Teflon®

A non-stick Teflon® coating (PTFE) that ensures practically no foreign bodies adhere to the cutting edge due to its extremely low surface tension. Resistant to acids and alkalis. Significantly reduces frictional resistance. Very low static friction allows for smooth, jerk-free cutting, making it ideal for medical applications. Has low wear resistance and is unsuitable for contact with sodium or temperatures above 250 °C. A full-surface treatment that provides light corrosion and starch protection. Also serves as a distinguishing aid.

Color Varnish

Applied over the entire surface. Serves as a sorting aid for different material thicknesses and provides corrosion protection.



THE GREAT SELECTION **OF MATERIALS**

Our product portfolio offers blades with thicknesses ranging from 0.06 to 3.0 mm and final hardnesses between 40 and 85 HRC.

Additionally, you benefit from a large selection of materials, including:

- **CARBON STEEL**
- **STAINLESS STEEL**
- **HSS**
- **BIMETALL**
- **AUSTENITE**
- **TUNGSTEN CARBIDE**
- **CERAMIC**

ALWAYS IN TOP SHAPE: **THE CUTTING SHAPES OF OUR BLADES**

What does the blade that achieves the best results for your application look like? Does the cutting edge need to work one-sided or twosided? Should it have one, two, or three facets? Does it need to be single-bladed or doublebladed? Concave or convex? Admittedly, that's a lot of questions.

But you can be certain that at LUTZ BLADES, you'll find exactly the right answer.

		1-sided			2-sided		
		Single-facet	Double-facet	Triple-facet	Single-facet	Double-facet	Triple-facet
1-bladed		A	B	C	D	E	F
2-bladed		G	H	I	J	K	L
convex		M	N	O	P	R	S
concave		T	U	V	W	X	Y

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