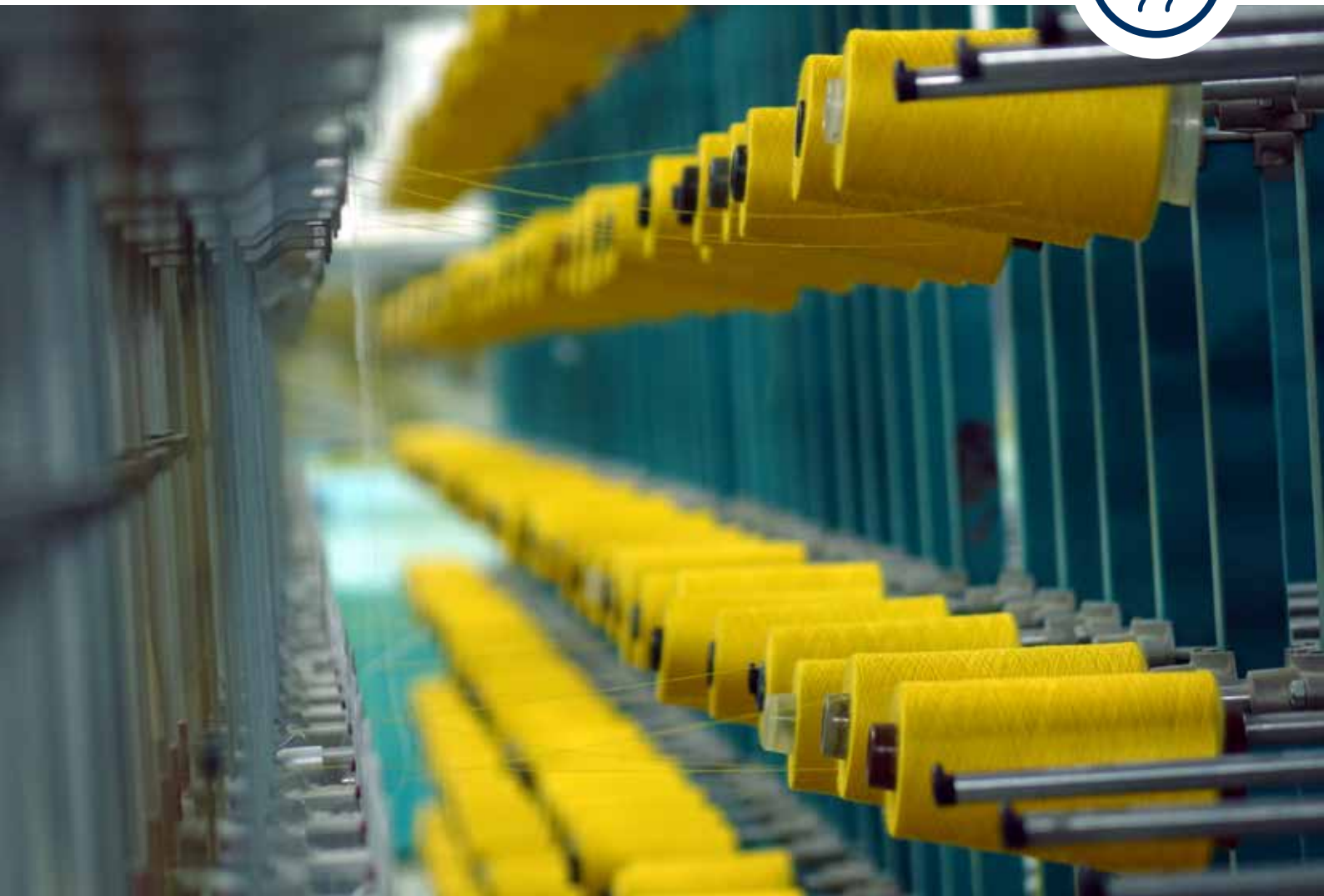


INDUSTRIAL BLADES FOR MACHINE PROCESSING IN TEXTILE PRODUCTION





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 deliver to our customers. Precision guides us from the idea of the finished product to the optimum solution for every 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 – 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 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 in numerous industries.

1922

Foundation of
LUTZ BLADES

3

Generations of
Family business

>400

Motivated
employees

23.000

Production area
in m²

>1.500

Standard blades
in the range

>500

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



THE BEST BLADES FOR TEXTILE PRODUCTION

Cutting processes in the textile industry not only require enormous efficiency, but must also meet the highest quality standards - regardless of whether it is the production of textile floor coverings or the cutting of technical and medical textiles.

With our know-how and experience, we have been equipping numerous market-leading double weaving mills and manufacturers of technical textiles with hook blades, plush knives, edge knives and special blades for many years.

YOUR BENEFITS

with **LUTZ BLADES** knives and blades for textile production:

- Many years of experience in manufacturing industrial 3-hole blades
- Absolutely consistent quality from blade to blade for reliable set use
- Hard coatings significantly extend blade lifetime
- Cleanroom-compatible packaging – also available in customized designs
- Industry-grade packaging for safe and quick on-site handling



DISTINGUISHING FEATURES

of our blades and knives for textile production:

- Wide selection of materials
- Extremely sharp and evenly ground cutting edges
- Uncoated and Teflon-coated versions (e.g. for plush blades)
- Hardness levels and cutting radii tailored to the application
- Tightest tolerances for blade geometry and cutting edge



RANGE EXCERPT BLADES FOR TEXTILE PRODUCTION FROM LUTZ BLADES

	Article description	Blade shape	Coating	Length [mm]	Width [mm]	Thickness [mm]	Material
							
	Foil blade-0400	3-hole blades	without, DLC, TiAlN, TiN	43.00	22.20	0.06 – 0.68	carbon steel, stainless steel
	Foil blad black-1533	3-hole blades	without, TiAlN, TiN	43.00	22.20	0.20 – 0.30	carbon steel
	Foil blade-0410	3-hole blades	without, DLC, TiN	43.00	22.20	0.08 – 0.68	carbon steel, stainless steel
	Foil blade-0410	3-hole blades	TiN	43.00	22.20	0.06 – 0.40	stainless steel
	Foil blade-0505	3-hole blades	without, DLC, TiN	43.00	22.00	0.10 – 0.65	tungsten carbide
	Foil blade-1505	3-hole blades	without	43.00	22.00	0.15 – 0.40	ceramic
	Pentagon-2650	Rectangular blades	without	63.00	40.94	0.53	tungsten carbide
	Pentagon-2651	Rectangular blades	without	63.00	40.94	0.53	ceramic

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.

CrN (Chrom-Nitrid)

A hard, corrosion-resistant, and thermally stable PVD coating characterized by low friction coefficients and excellent non-stick properties. It has a low friction coefficient (approx. 0.57 compared to steel). Approved for food processing.

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 („lusionieren“)

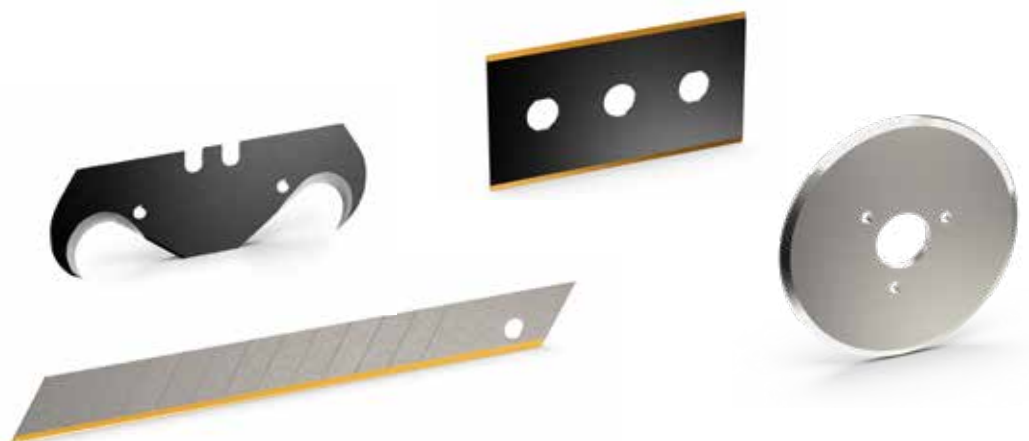
A full-surface treatment that provides light corrosion and starch protection. Also serves as a distinguishing aid.

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.

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

HEADQUARTERS

LUTZ GmbH & Co. KG
Piepersberg 20,
42653 Solingen
Germany
sales@lutz-blades.com
www.lutz-blades.com

LUTZ Polska Sp. z o.o.
Domaszkowice 25
48-321 Niwnica (Nysa)
Poland
info@lutz-blades.pl
www.lutz-blades.com

LUTZ North America, Inc.
1301 Charleston Regional Pkwy
Charleston, SC 29492
USA
sales-us@lutz-blades.com
www.lutz-blades.us

LUTZ India Pvt. Ltd
Boulevard Towers, 5th Floor
Sadhu Vaswani Chowk, Camp Pune
Maharashtra – 411001, India
sales-india@lutz-blades.com
www.lutz-blades.com



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