LUTZ BLADES®
exactly

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PRECISION BLADES FOR
LABORATORY AND MEDICAL TECHNOLOGY, DERMATOLOGY

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 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.
We see ourselves as a partner for 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	>360	23,000	>1,500	>500
Foundation of LUTZ BLADES	Generations of Family business	Motivated employees	Production area in m^2	Standard blades in our assortment	Special blades in our assortment

MEDICINE AND LABORATORY

THE RECIPE FOR CLEAN CUTS **BLADES FOR MEDICINE. AND MUCH MORE.**

LUTZ BLADES develops and manufactures blades for a wide variety of cutting applications – with the medical sector being a major focus.

Whether in surgery, pathology, or the production of PVC catheters, the blades of LUTZ BLADES are used wherever precision, high-quality craftsmanship, and superior durability are required and valued.

Our range includes dermatome blades, microtome blades, blades for laparoscopy (abdominal endoscopy), as well as precision and specialty blades for a wide array of applications in medical technology. Custom development for small series is just as much a part of our daily business as large-scale production. LUTZ blades for ophthalmology (eye medicine), endoscopy, preparation, or cutting umbilical cords meet the high standards our customers expect from us.

With over 100 years of experience, our in-house tool manufacturing, and a modern materials laboratory, we are happy to develop tailored blade solutions that meet the highest quality requirements.

OUR CERTIFICATES

ISO 13485:2016

DIN EN ISO 50001:2018

DIN EN ISO 9001:2015

LYNXERA® by LUTZ BLADES

Efficient. Precise. Consistent.

Microtome blades technology.
Made in Solingen.

LYNXERA®

Superior by nature

The LYNXERA® microtome blade by LUTZ BLADES is not named after the largest wildcat in Europe without reason – the blade combines many of the special characteristics and abilities that distinguish the lynx.

Sharp, precise & efficient

Fast, reliable & target oriented

Strong, robust & persistent

NEW

ISO 13485:2016
ISO 9001:2015
DIN EN ISO 50001:2018

The LYNXERA® product family

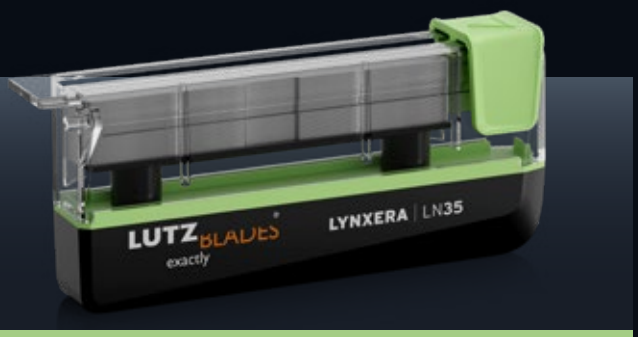
The right microtome blade for every application

Precision, high-quality workmanship, superior service life – LUTZ BLADES offer the ideal conditions for delivering reliable results in histology and pathology, whether for soft or hard tissue. In addition to the special cutting properties of the individual blade models, the LYNXERA product family offers two series (X series, L series) that differ in terms of their grinding geometries. Depending on the microtome used, laboratory users can find the right LYNXERA series for meaningful results.

LYNXERA® | LN35

The durable blade for enduring cuts in hard tissue

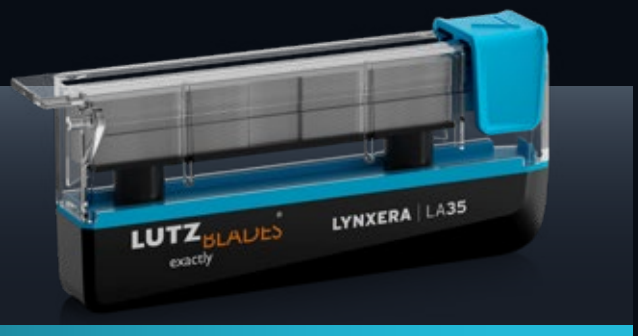
L SERIES · STRONG · THIN · IVD · CE



LYNXERA® | LA35

The precise blade for exact cuts in hard and soft tissue

L SERIES · EASY · THIN · IVD · CE



LYNXERA® | LS35

The universal blade for stable cutting quality

L SERIES · MULTI · THIN · IVD · CE

LYNXERA® | XS35

X SERIES · MULTI · THIN · IVD · CE

BLADES FOR USE **IN MICROTOMES**

Whether medical blades for histology, for pathology or for the pharmaceutical industry: at LUTZ BLADES you will find a wide range of blades for medicine and laboratory technology.

Our blades are mainly used in the field of skin transplants, laparoscopic procedures and in the manufacture of medical products. In these areas of application, it goes without saying that the blades are subject to the strictest specifications.

Because we know exactly what specifications our customers in the medical sector have to follow, we can also provide them with optimum support in the development of a blade. Whether blades for surgical laparoscopy, disposable blades for histology, microtome blades or blades for dermatome knives: we guarantee our customers that we focus on the end result and customer satisfaction when developing new blades.

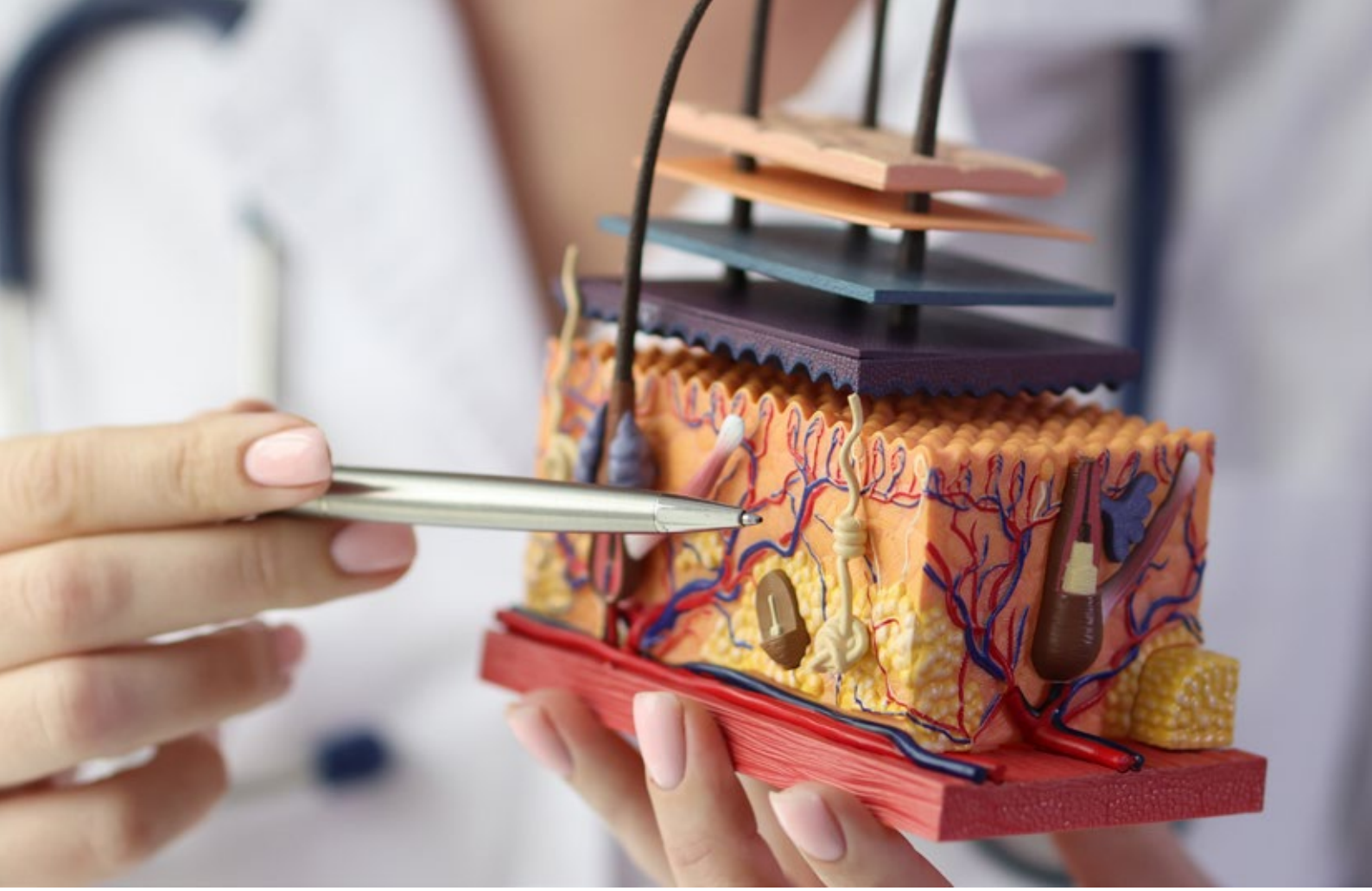
	Article description	Blade shape	Coating	Length [mm]	Width [mm]	Thickness [mm]	Material
	LABORATORY AND DIAGNOSTICS						
	microtome blade-LS35-6067	rectangular blades	Teflon® (PTFE)	80.00	7.95	0.254	stainless steel
	microtome blade-LN35-6068	rectangular blades	Teflon® (PTFE)	80.00	7.95	0.254	stainless steel
	microtome blade-LA35-6069	rectangular blades	Teflon® (PTFE)	80.00	7.95	0.254	stainless steel

HIGH PRECISION AND A LONG SERVICE LIFE MAKE THE **TABLET DIVIDER BLADES A RELIABLE EVERYDAY HELPER**

Thanks to their precision, high-quality workmanship and superior service life, LUTZ blades are used by market leaders in numerous medical fields.

Our blades are also used for tablet dividers. Our hard tablet divider blades are inserted into a mechanical device that divides the tablets into two equal parts. This makes it possible to obtain an individual dosage.

	Article description	Blade shape	Coating	Length [mm]	Width [mm]	Thickness [mm]	Material
	PHARMACY						
	tablet divider-7160	rectangular blades	without	25.40	8.00	0.50	carbon steel, stainless steel
	tablet divider-8933	rectangular blades	without	27.30	8.00	0.50	carbon steel, stainless steel



OUR DERMATOME BLADES ARE USED
IN THE FIELD OF SKIN TRANSPLANTS

There is probably no area in which so much emphasis is placed on excellent product quality as in medical applications. That is why medical blades from LUTZ BLADES are used by market leaders in numerous medical fields.
The dermatome blades from LUTZ BLADES, for example, are precision tools that are used in surgical procedures to remove damaged tissue or to harvest tissue from a donor site. They can be integrated into both electrical and hand-held devices. An oscillating movement precisely removes the upper layers of the skin - thanks to their precision, high-quality workmanship and superior service life, you can always rely on LUTZ BLADES blades.

	Article description	Blade shape	Coating	Length [mm]	Width [mm]	Thickness [mm]	Material
	DERMATOLOGY						
	dermatome blade-0330	rectangular blades	without	50.00	18.80	0.38	stainless steel
	dermatome blade-0331	rectangular blades	without	90.00	18.80	0.38	stainless steel

	Article description	Blade shape	Coating	Length [mm]	Width [mm]	Thickness [mm]	Material
	dermatome blade-4100	rectangular blades	without	106.40	18.80	0.38	stainless steel
	dermatome blade-4110	rectangular blades	without	111.20	32.60	0.38	stainless steel
	dermatome blade-4180	rectangular blades	without	78.60	18.40	0.25	stainless steel
	dermatome blade-4183	rectangular blades	without	15.00	12.50	0.25	stainless steel
	dermatome blade-4181	rectangular blades	without	52.40	18.40	0.25	stainless steel
	dermatome blade-4182	rectangular blades	without	26.20	15.40	0.25	stainless steel
	dermatome blade-4240	rectangular blades	without	81.00	18.80	0.40	stainless steel
	dermatome blade-4242	rectangular blades	without	80.00	22.00	0.30	stainless steel
	dermatome blade-4711	rectangular blades	without	111.10	32.50	0.37	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

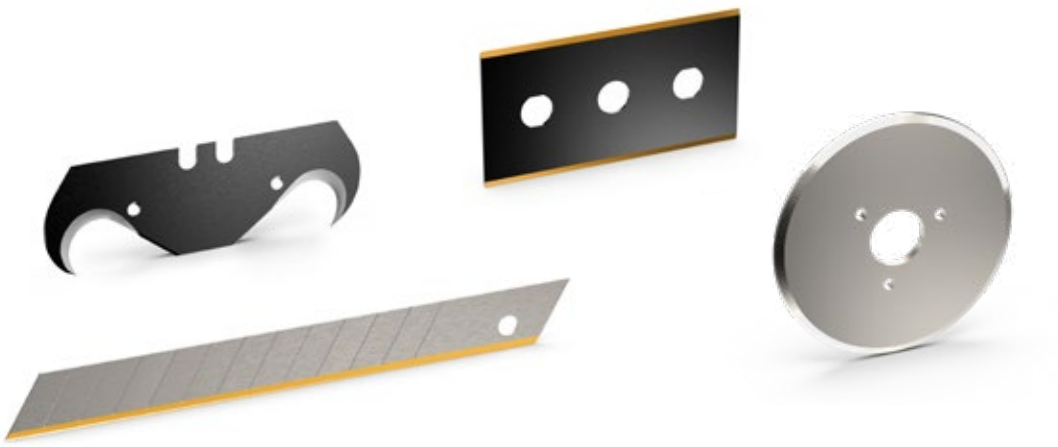
A full-surface treatment that provides light corrosion and starch protection. Also serves as a distinguishing aid.

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 two-sided? Should it have one, two, or three facets? Does it need to be single-bladed or double-bladed? 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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