Metzner









METZNER UNIVERSAL CUTTING MACHINES

MAXIMUM FLEXIBILITY & MAXIMUM PRECISION

UNIVERSAL CUTTING MACHINES

MAXIMUM FLEXIBILITY THANKS TO MODULAR SYSTEM TECHNOLOGY

Metzner universal cutting machines are designed for the automatic cutting to length and trimming of a wide range of materials.

Whether flexible profiles, hoses, plastic tubes, cords and gaskets, or films, labels, cables, strands and wires – the systems deliver precise results with outstanding cut quality and high operating speeds.

The portfolio includes specialized solutions for various requirements: The Metzner Variocut impresses with its exceptional cutting and feed force as well as intuitive operation.

For applications requiring particularly powerful cylinder performance combined with the finest adjustability, the Metzner ST-OB offers the optimal technological foundation.

The models in the KL-BV series, on the other hand were specifically developed for the reliable processing of soft and pressure-sensitive materials, such as silicone.



DIVERSITY BROUGHT TO PERFECTION

The material examples shown illustrate the enormous range of our system technologies. Whether reinforced hoses, corrugated tubes, flat cables, or delicate fabrics below - Metzner cutting machines process a wide variety of geometries and surface textures with the highest repeatability. Since each machine is specifically designed for your application, the systems can be precisely tailored to the respective material requirements. This not only guarantees first-class cut edges and exact lengths, but also minimizes setup times for frequently changing applications.



METZNER VARIOCUT & ST-OB

THE ALL-ROUNDERS FOR PRECISE CUTS





The high-performance "Universal cutting machine" with outstanding pulling and cutting power. Metzner VARIOCUT is ideal for solid and dimensionally stable materials.

The "All-Rounder" with an exceptionally robust design. The Metzner ST-OB is perfect almost all materials without metal reinforcment. Available with a die-cut, draw-cut and shear-cut module.

Metzner Variocut:

Efficiency through ease of use

The Variocut is designed for ease of use and time savings. A well-thought-out automation concept reduces the operator's workload: For example, the belt feed opens and closes in sync with the protective cover, while the contact pressure between the conveyor belts is precisely controlled pneumatically.

The HMI is designed for ease of use. Input is performed via material-specific recipe management. Once set, a recipe can be opened via a drop-down menu and production started. Tooling can be changed within seconds without the need for tools.

Metzner ST-OB:

Powerful & fully customizable

The ST-OB is designed for maximum load capacity and durability. At the heart of the machine is a pneumatic cylinder developed exclusively for this model, which transmits the cutting force with pinpoint accuracy.

A particular advantage for pressure-sensitive or highly elastic products: The contact pressure can be adjusted with extreme precision using a dial. This mechanism allows for particularly gentle and precise adjustment of the contact pressure between the conveyor belts. This enables a flexible response to material tolerances or different batches - for consistently perfect results.

THE ST-OB FROM METZNER IS DESIGNED FOR CONTROLLED, GENTLE MACHINING.

A wide range of applications, from delicate to complex materials; here are a few examples of typical applications.







FEATURES & BENEFITS

- **Industrial durability:**
  Extremely robust construction of both machine types for long-lasting, reliable operation
- **Maximum material versatility:**
  Universal processing of profiles, hoses, and tubes, as well as cables, strands, and films
- **Intuitive operation via multiple graphical displays**
- **Excellent cutting quality:**
  We supply every machine with the optimal tools for your materials
- **Best repeatability:**
  Thanks to slip-free material transport

MODEL	ST-OB	VARIOCUT
Max. material width	150 / 65 mm | 5 29/32"	65 mm | 3 47/64"
Max. material height	20 / 30 mm | 1 3/16"	30 mm | 1 3/16"
Size increments	0.1 mm | 0.004"	0.1 mm | 0.004"
Typical repeatability	± (1mm + 0,2% L)	± (1mm + 0,2% L)
Feed rate	60 m/min. | 197 ft/min.	60 m/min. | 295 ft/min.
Cuts/min.	up to 150	up to 140
Control display	5.7" Color touchscreen	5.7" Color touchscreen
Motor	3-Phase stepper motor	3-Phase stepper motor
Compressed air connection	6 bar | 87 PSI	6 bar | 87 PSI
Dimensions (L x W x H)	700 mm x 400 mm x 650 mm | 27 9/16" x 15 3/4" x 25 19/32"	765 mm x 515 mm x 460 mm | 27 9/16" x 15 3/4" x 25 19/32"
Weight	70 kg | 154 lbs	65 kg | 143 lbs

METZNER KL-BV & KL-BV 40

GENTLE PROCESSING FOR THE HIGHEST CUTTING QUALITY



The precision expert for diameters up to 18 mm. The Metzner KL-BV is ideal for materials where minimal mechanical impact is essential.



Metzner KL-BV 40, the high-performance model for large diameters. Processes silicone tubing and other pressure-sensitive materials up to 40 mm with minimal stress.

Both KL-BV models are designed to process materials as gently as possible. The main difference lies in the maximum material diameter: 18 mm versus 40 mm.

Metzner KL-BV: Unique blade design for minimal stress

To achieve virtually pressure-free processing, the point of contact between the blade and the material is kept as small as possible. The extremely thin blades (starting at 0.1 mm) strike the material at an oblique angle. Both the cutting speed and the belt speed can be finely adjusted. Blade lubrication is also available as an option.

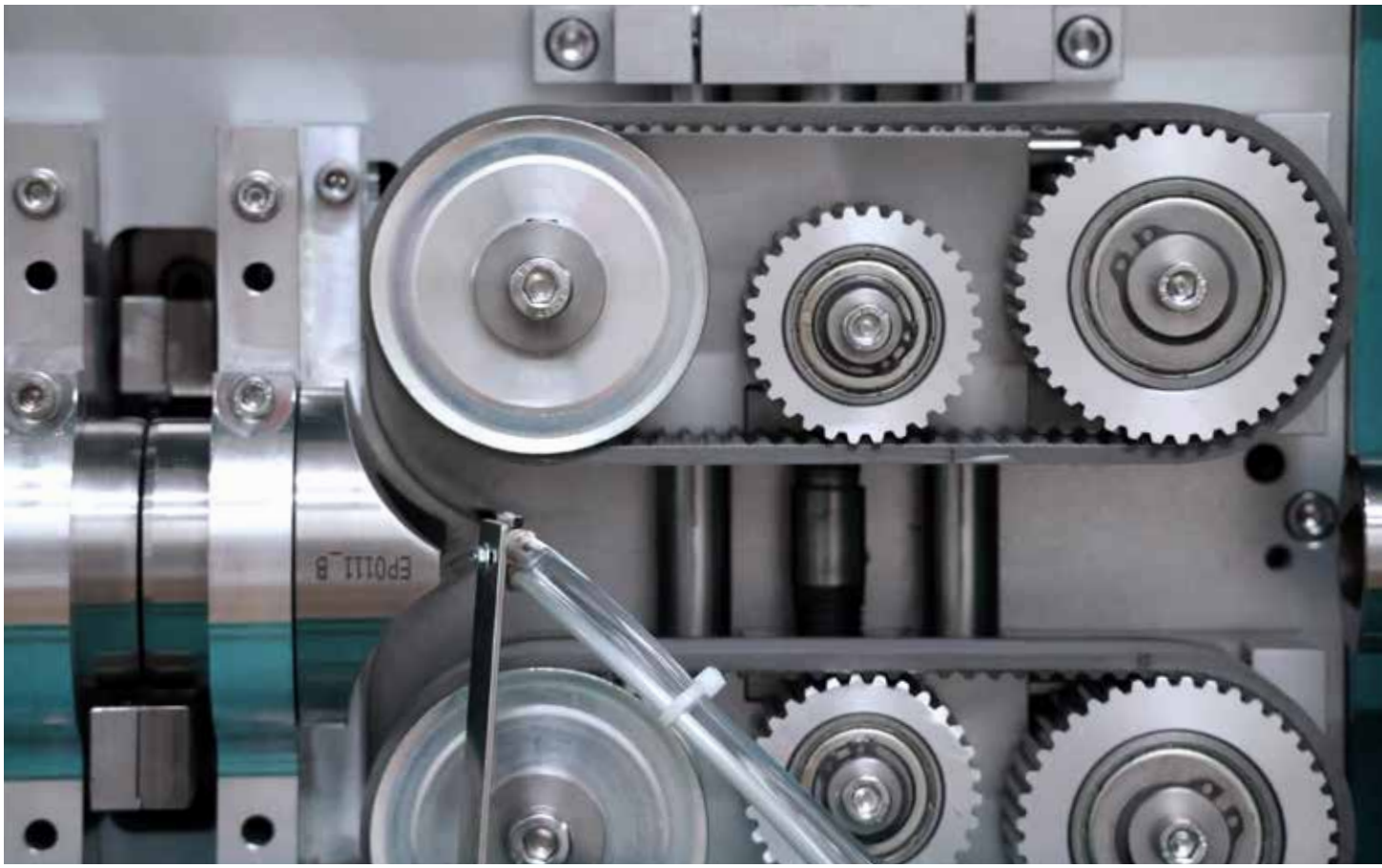
Particularly in industries such as medical or laboratory technology, the highest levels of cleanliness and precision are required. Thanks to an optional stainless steel version, the KL-BV is also the ideal choice for sensitive industries such as medical and laboratory technology.

Metzner KL-BV 40: Flexibility through vertical tool arrangement

The KL-BV 40 is also available with vertically mounted belt feeders. This design offers decisive advantages for static materials, as they fall reliably downward due to gravity and do not obstruct the material flow.







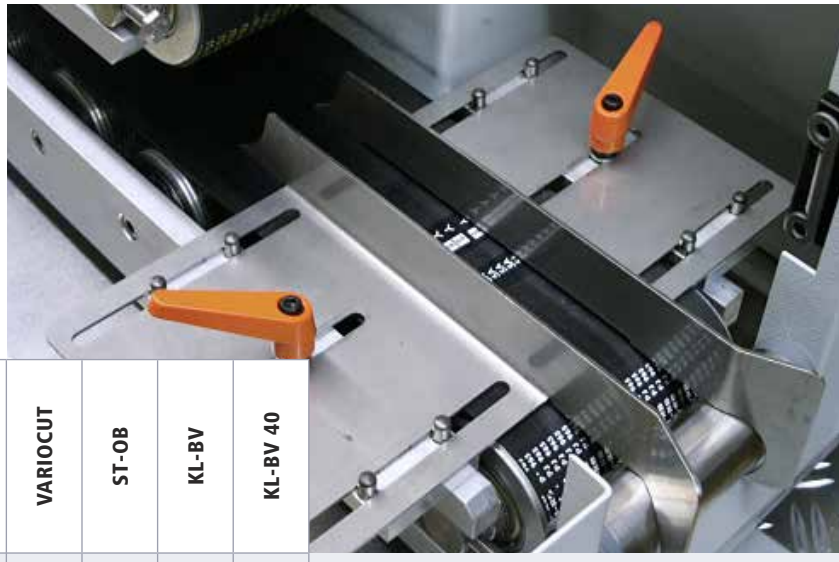
FEATURES & BENEFITS

- **Gentle material processing:** Processing of pressure-sensitive materials with minimal mechanical impact for distortion-free cutting quality
- **Innovative blade design:** Very thin blades (starting at 0.1 mm) and an angled cut reduces material resistance during the cutting process to an absolute minimum
- **Maximum process precision:** Finely adjustable cutting and belt speeds as well as optional blade lubrication, guarantee optimal results with every material
- **Optimized material discharge (KL-BV 40):** The vertical belt feeds utilize gravity, ensuring that statically charged materials fall downward reliably

MODEL	KL-BV	KL-BV 40
Max. material diameter	18 mm | 0.71"	40 mm | 1.57"
Size increments	0.1 mm | 0.004"	0.1 mm | 0.004"
Typical repeatability	± (1 mm + 0.2% L)	± (1 mm + 0.2% L)
Feed rate	60 m/min. | 197 ft/min.	60 m/min.| 197 ft/min.
Cuts/min.	up to 200	up to 100
Control panel	5.7" Color touchscreen	5.7" Color touchscreen
Motor	3-Phase stepper motor	3-Phase stepper motor
Compressed air connection	6 bar | 87 PSI	6 bar | 87 PSI
Dimensions (L x W x H)	400 mm x 370 mm x 650 mm | 1' 3.75" x 1' 2.57" x 2' 1.59"	582 mm x 400 mm x 605 mm | 1' 10.91" 1' 3.75" 1' 11.82"
Weight	65 kg | 143 lbs	75 kg | 165 lbs

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CUTTING TECHNOLOGIES

OF THE METZNER UNIVERSAL CUTTING MACHINES

		VARIOCUT	ST-OB	KL-BV	KL-BV 40
	Punch Cut	●	●	—	—
	Shear Cut	●	●	—	—
	Draw Cut	●	●	—	—
	Blade Cut	—	●	●	●
	Tool Cut	—	○	○	○

● standard, ○ optional, – not available

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We cannot rule out the possibility of spelling errors or inaccuracies. Image source: @Metzner Group GmbH.

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