

HEAT SEALING TECHNOLOGY
PRODUCT CATALOG

www.prewa.de





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About us

In addition to manufacturing packaging machinery, we specialize in the production and distribution of high-quality spare parts for the packaging industry – with a strong focus on thermal heat sealing technology.






Shortly after our company was founded, we began producing impulse sealing bands for our own use. Over the years, we continuously expanded our product portfolio while increasing our in-house production capacity. Today, this enables us to offer our customers maximum flexibility and fast response times.

Our product range includes impulse sealing bands, heat-resistant underlay materials, PTFE products, stainless steel endless belts, and a wide variety of accessories for heat sealing applications.








Sealing Band Cross Sections

For Sealing and Perforation:

-  **Flat Band:** Standard Seal, strong weakening at seal edges
-  **Tapered Band:** Standard Seal, minimal weakening at seal edges
-  **Reflex Band :** ideal for vacuum packaging, low sealing bar pressure
-  **Double Seam Band:** ideal for vacuum and liquid packaging, very secure seal
-  **Twisted:** Perforation seal, easy tear-off seal

For Cut-and-Seal Applications:

-  **Beaded Band:** standard cut-and-seal with clean separation
-  **T-Profile:** Standard cut-and-seal with clean separation
-  **Triangular Profile:** best seal quality for thick films
-  **Cutting wire:** narrow seal, lower strength
-  **Half-Round Profile:** Cut- off seal for thicker films

You can find further info and product data [here](#).

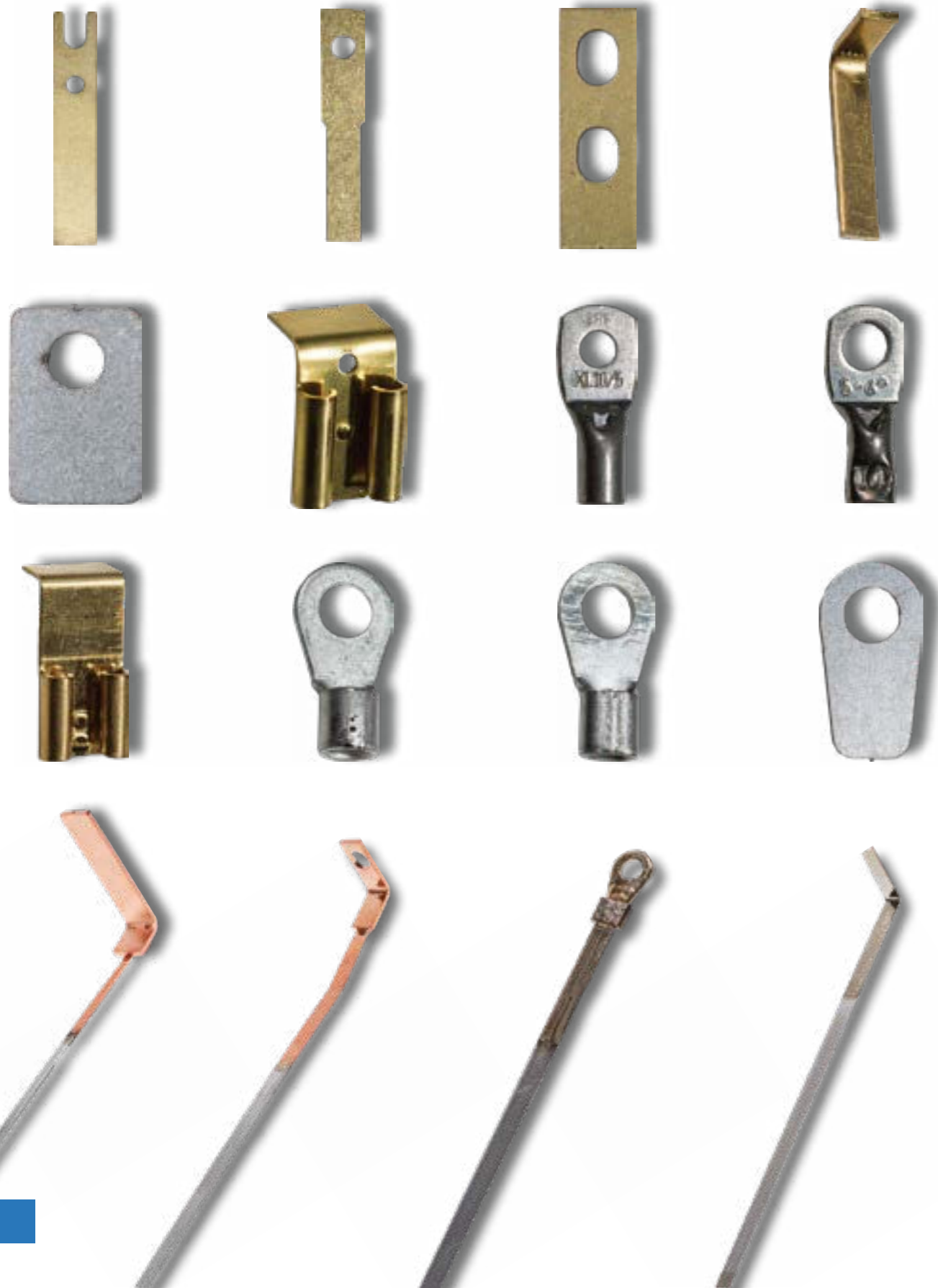
Sealing Bands Pre-Assembled

Our pre-assembled sealing bands can be equipped with copper, nickel, gold, or silver-plated ends, along with matching electrical connections. Upon request, we also apply PTFE coatings to improve sliding properties and heat resistance.

We offer a wide variety of connection options, individually tailored to your impulse sealing bands – ensuring seamless integration into your application.

-  **Coppered**
-  **Nickeled**
-  **Chemically nickeled**
-  **Gold-plated**
-  **Silvered**
-  **PTFE-green**
-  **PTFE-grey**
-  **PTFE-black**
-  **PTFE-Silverstone black**

Connectors & Sealing Bands with Terminal Ends



Contoured Sealing Bands

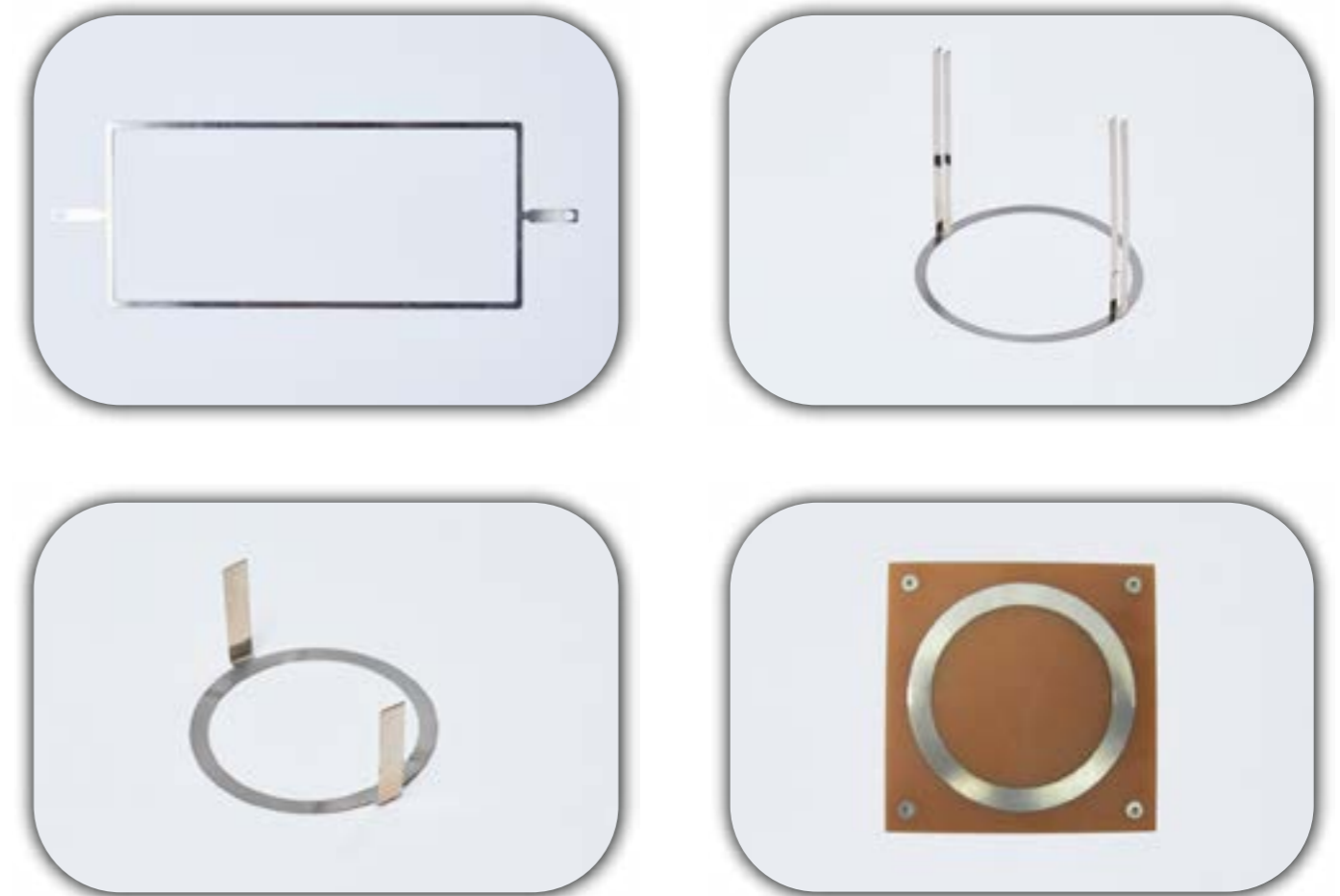
We manufacture custom-shaped and contoured sealing bands in virtually any geometry, precisely tailored to your requirements.

- Material thickness: 0.05 mm to 0.50 mm
- Maximum dimensions: approx. 2000 × 2000 mm

For larger formats, multiple segments can be welded together depending on material type and thickness.

We use high-quality materials such as Alloy 20 as well as low-expansion special alloys like Lowflex and Noflex.

Additionally, we produce perfectly fitted tool holders for shaped sealing bands – fully customized to your specifications.



Heat resistant underlays



Silicone glass fabric:

Temperature resistance up to 180°C
 sheet sizes: 0.5-4 x 1050 x 1050 mm
 custom widths between 3 and 1050 mm available
 optional self-adhesive backing



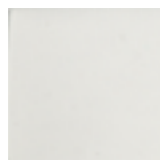
Heat resistant underlay 350

Temperature resistance up to 400° C
 sheet sizes: 1 - 2 x 1000 x 1050 mm
 custom widths between 3 and 1050 mm available
 optional self-adhesive backing



Heat resistant underlay 500

Temperature resistance up to 500° C
 sheet sizes: 1 - 20 x 1000 x 1000 mm
 custom sizes available



Silicone rubber

Temperature resistance up to 230° C 30° - 80° shore
 available cut and extruded in custom sizes
 optional self-adhesive backing



Silicone foam

Temperature resistance up to 230° C
 8° - 30° shore
 available cut and extruded in custom sizes
 optional self-adhesive backing



Epoxy glass fabric

Temperature resistance up to 250° C sheet sizes:
 0,5 - 4 x 2050 x 1050 mm
 custom widths between 3 and 1050 mm available



Contours
of
Underlays



PTFE Products

Choosing the right release material is crucial for clean, reliable, and efficient sealing processes.

Our PTFE glass fabric has been a proven solution in the packaging industry for many years. It is used when sealing both laminated films and mono-materials, effectively preventing film from sticking to the sealing tool.

We offer a wide range of options tailored to your needs:

- Rolls
- Cut pieces and custom formats
- Pre-assembled cover films for sealing bars
- Die-cuts
- Custom grades upon request

Benefit from our expertise and premium materials – for optimal sealing performance.

PTFE glass fabric:

Type	Nominal Thickness	Weight	Percentage of PTFE in total weight	Minimum Tear Strength	Minimum Adhesive Strength	Type of Adhesive	Thickness of Adhesive
008	73 µm	135 g/m ²	64%	10 N	---	---	---
013	115 µm	240 g/m ²	55%	10 N	---	---	---
015	128 µm	272 g/m ²	60%	10 N	---	---	---
025	215 µm	455 g/m ²	55%	25 N	---	---	---
008 skl.	73 µm	135 g/m ²	64%	10 N	2,75 N/cm	Silicone	40 µm
013 skl.	115 µm	240 g/m ²	55%	10 N	3,90 N/cm	Silicone	50 µm
015 skl.	128 µm	272 g/m ²	60%	10 N	3,90 N/cm	Silicone	50 µm
025 skl.	215 µm	455 g/m ²	55%	25 N	3,90 N/cm	Silicone	65 µm
013 skl. Acryl	115 µm	240 g/m ²	55%	25 N	3,50 N/cm	Acrylic	50 µm

Covers for Heat Sealing Applications



KB-Tape with Crepe



KB-Tape with Filament



KB-Tape with Fabric tape



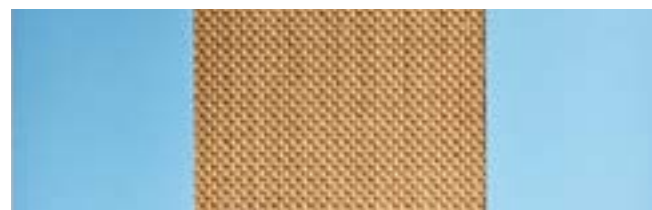
Fassonband



Coverstrip



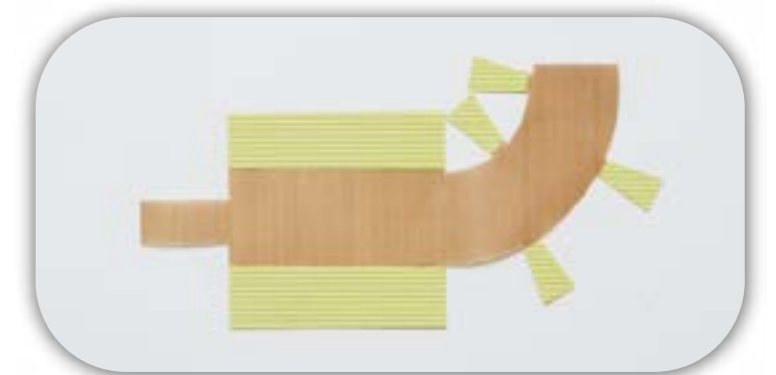
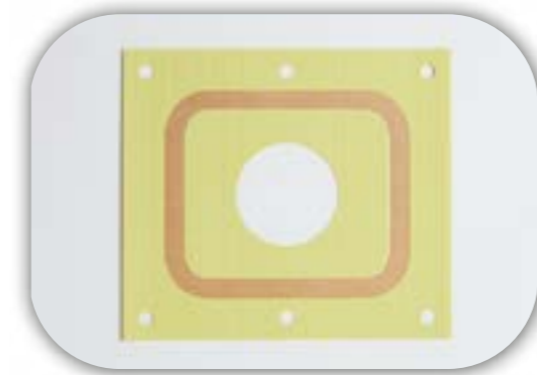
PTFE-Sleeves



Coverstrip Acrylic

Contours and Cut Parts

Coverstrip contours:



PTFE cut parts:



Sealing bars and Prewa-heads

We manufacture impulse sealing bars for packaging machines with integrated length compensation to ensure maximum process reliability and sealing quality. As the sealing bands expand during operation, precise compensation is required to maintain a flat, consistent surface. We achieve this using linearly movable sealing band heads, which flexibly absorb thermal expansion.

The power connection can be made either at the front or on the side (right or left) of the sealing band head, depending on your requirements. Our impulse sealing bars are manufactured from anodized or hard-coated aluminum, as well as stainless steel. Upon request, versions with a bore for water cooling and an integrated groove are also available.



Configuration of a sealing bar

Hot Air Sealing Units

Hot air sealing units enable contact-free, continuous sealing of thermoplastic films. Highly heated air is directed precisely onto the film surface, causing the material layers to fuse together.

As the film passes through the hot air zone between guide plates, it is sealed reliably and continuously. The operating speed depends on the film thickness: the thicker the film, the lower the speed, as heat transfer is limited.

Thanks to its contactless technology, the system operates almost wear-free and is characterized by high ease of maintenance and a long service life.

[click here](#)

[360° product view](#)

Hot Air Sealer Models:



HLS335:

- for standard applications
- integrated cooling section below sealing zone
- reliable performance for common film types



HLS335S:

- for high-performance applications
- ideal for thick films or high speeds
- very even temperature distribution over the complete sealing zone
- optimized for demanding production environments



HLS280:

- compact solution for standard applications
- compact design without integrated cooling section
- ideal for applications with limited installation space



We supply high-quality hot air tubes - not only for our own equipment but also compatible with hot air sealing units from other manufacturers.

Endless belts

As a manufacturer of high-quality endless belts, we offer customized solutions for a wide range of applications. In longitudinal sealing, the film is first shaped into a tube using a forming shoulder, after which the edges overlap and run vertically. Sealing then takes place along this overlap.

An endless belt plays a key role in this process by evenly pressing the film and guiding it continuously through the system.

Heat is applied indirectly via a heating element located beneath the belt. The combination of heat and pressure ensures a durable and consistent seal.

All belts are manufactured in-house and tailored precisely to your requirements, guaranteeing maximum efficiency and high process reliability.



Other Spare Parts

Whether pull belts, piercing knives, or peeling knives – we deliver precision-engineered, durable components for reliable machine operation.

Custom production is also available:
Simply send us a sample, and we will manufacture the exact matching part.

Rely on our expertise and quality – for efficient packaging processes from a single source.



Your Contact



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