



# engel

Schneidsysteme



PRODUCTS OF SOMATEC

## **ENGEL Cutting Systems**

### **Maximum precision. Maximum efficiency.**

ENGEL cutting systems stand for proven, high-performance blade cutting systems – perfected for demanding industrial applications in the areas of cutting, winding, and conveying.

Our systems impress with:

- Exceptionally long service life for maximum productivity
- Safe handling for smooth operations
- Excellent cut quality
- Easy maintenance for minimal downtime

We thus offer you technological solutions that guarantee efficiency, reliability, and durability in your production.

**ENGEL – Cutting systems that set the standard.**



# engel

Schneidsysteme

Industrial blade holders

Pneumatic and  
mechanical blade holders  
(unheated/heated)


Blown tube opener slitting blades  
(unheated/heated)

EPOS automatic  
blade positioning system

Laboratory services  
for conducting analyses and  
practical cutting tests

SafeBlade Tool –  
safety redefined

PRODUCTS OF SOMATEC





## Industrial blade holders

Robust magnetic or screw-on blade holders for the longitudinal cutting of paper, films, and nonwovens – long service life, easy installation, and maximum safety thanks to concealed blades.

- Blade holder with magnetic blade mounting
- Blades completely concealed in the rest position
- Easy, tool-free adjustment via clamping lever
- Blade replacement possible during operation
- Cutting width starting at 6 mm

## Industrial blade holder for longitudinal cutting



224505-1 for SW32 and three-hole blade



224505-2 for SW30 and three-hole blade



224505-3 for R32 and three-hole blade



224505-4 for R30 and three-hole blade



224505-5 for SK 1" and three-hole blade

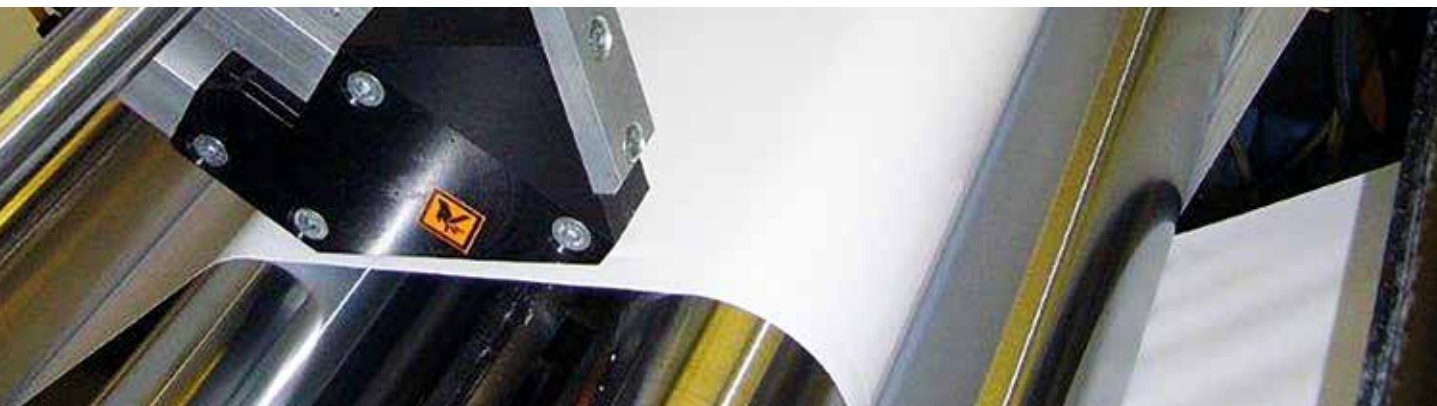


224505-6 for R30 and cello blade

We are happy to provide custom blade holder solutions upon request.



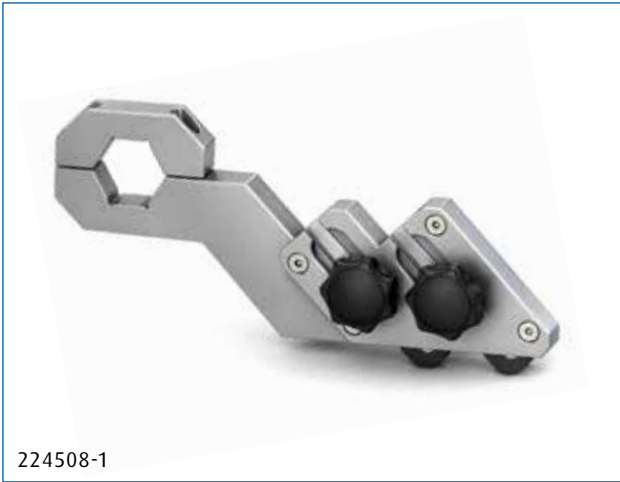
## Pneumatic and mechanical blade holders (unheated/heated)



Simply controlled blade holders for precise cuts in manual or pneumatic operation – ideal for versatile applications with narrow or wide webs.

Heated holders ensure better thermal cutting quality and less dust – especially for plastic applications, including temperature control and optionally double-equipped.

## Mechanical blade holders for slitting



- Upon request, strip cutting with a double blade in the blade slide up to 20 mm is possible
- Other widths available upon request
- Blade slider with magnetic or screw-on blade holder
- Blades are completely concealed in the rest position after being retracted by hand (maximum safety)

## Pneumatic blade holders for slitting (film processing)



- Blade replacement on the double holder is possible during production without interrupting the cutting process

We are happy to provide custom blade holder solutions upon request.



## Blown tube opener slitting blades (unheated/heated)

Special systems for slitting film or tubular web – with or without guide rollers, and with a heated blade upon request.

The devices are optimized for thin materials and allow for blade changes during operation. The integrated magnetic blade holders are equipped with protection against accidental contact.



In addition, particularly long service life is achieved by manufacturing the entire units from an aluminum alloy with a wear-resistant surface treatment.

Ideal for use in blown film lines – compact, robust, and reliable.

## Tube slitting devices



### ... for slitting blown film

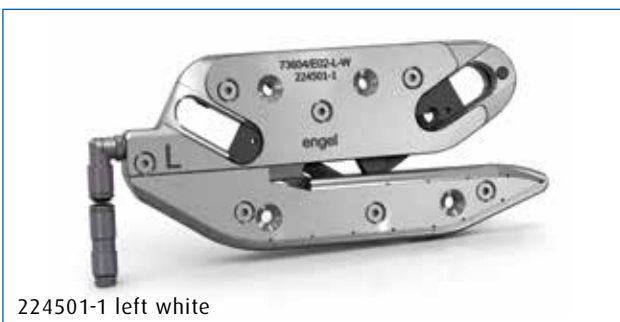
- Special aluminum design with high abrasion resistance
- Guide rollers with ball bearings
- Magnetic blade holder with protective bar
- Blade replacement is possible during production without interrupting the cutting process
- Air supply and air nozzles for straightening the film
- Air nozzle for cooling the interior
- Mounting holes

## Heated tube slitting devices



### ... for industrial blades

- Heated main cutting blade
- Temperature of the heating cartridges can be adjusted via a single-channel temperature controller
- Guide rollers with ball bearings
- Replaceable blade with protective guard
- Blade replacement is possible during production without interrupting the cutting process
- Air supply and air nozzles for straightening the film
- Mounting holes



### ... for delicate and thin films

- Narrow design without guide rollers
- Blade replacement is possible during production without interrupting the cutting process

Special cutting device for cross-section

We are happy to provide custom blade holder solutions upon request.



## EPOS automatic blade positioning system

With our EPOS automatic knife positioning system, you achieve significantly shorter setup times and thus minimize preparation costs for each new job.

- Fully automatic knife adjustment
- Can be retrofitted into existing systems
- Easy maintenance thanks to digital wear management
- Interface to ERP systems
- Creation and management of recipes

## Heated pneumatic blade holders for slitting (film processing)



- With the double blade holder blade replacement is possible during production without interrupting the cutting process
- Heated blade holder for various industrial blades with, for example, TIN or CrN coating
- Blades are completely concealed in the rest position (maximum safety)
- Extended blade service life
- Reduced dust formation during cutting
- Clean cutting edges (visible under a microscope)
- Temperature control of the heating cartridges via single- or multi-channel controllers

## Options

Our base machines are designed and optimized for use in the respective production environment.

In addition, our equipment options offer further potential for new installations and retrofits:

- for higher productivity
- for cost-saving automation
- for greater system flexibility

We are happy to provide custom blade holder solutions upon request.



## Laboratory service – Analysis. Validation. Process optimization.

Precision begins in the details. Our laboratory service offers in-depth analyses and practical cutting tests for the technical evaluation and optimization of your cutting processes.

- Material analysis and material evaluation
- Conducting cutting tests under realistic conditions
- Evaluation of service life and cutting quality
- Documented results for process validation
- Customized consulting for optimizing parameters and components

The goal is to make cutting processes measurably safer, more cost-effective, and more reproducible. Through systematic testing and technical analysis, we provide a reliable basis for decision-making for your production.

Shear cut of plastic film



Crush cut of plastic film



Blade cut of plastic film





## SafeBlade Tool – safety and efficiency during blade changes

The SafeBlade Tool was developed specifically for the safe and controlled replacement of industrial blades and offers significant advantages:

- Significantly reduced risk of injury
- Ergonomic handling
- Time savings during blade changes
- Increased process reliability
- Minimization of downtime

Combined with our laboratory service, this creates a holistic approach: optimized cutting processes, validated results, and maximum safety in daily operations.



Application video online

See for yourself how easy it is to use and discover the technical benefits by watching our video on the SafeBlade Tool:





## ENGEL Schneidsysteme

31789 Hameln

Telefon: +49 5151 10652-0

Telefax: +49 5151 10652-10

info@engel-klingschneidsysteme.de



[www.engel-klingschneidsysteme.de](http://www.engel-klingschneidsysteme.de)