

**FECKEN **FK** KIRFEL**

Always a cut above – since 1870

Fully automatic cutting machines T 6 and T 8

Type | **T 6**

Type | **T 8**





Fecken-Kirfel produces precise and efficient cutting machines to process a wide variety of different plastics, rubber and similar materials. Founded in 1870, this family-owned company today leads the way on technology and quality in its field worldwide. Using its large pool of engineering knowledge and expertise, Fecken-Kirfel works together with customers to keep on developing its range of machines further. We produce 100 % of our cutting machines at our main base in Aachen, Germany.



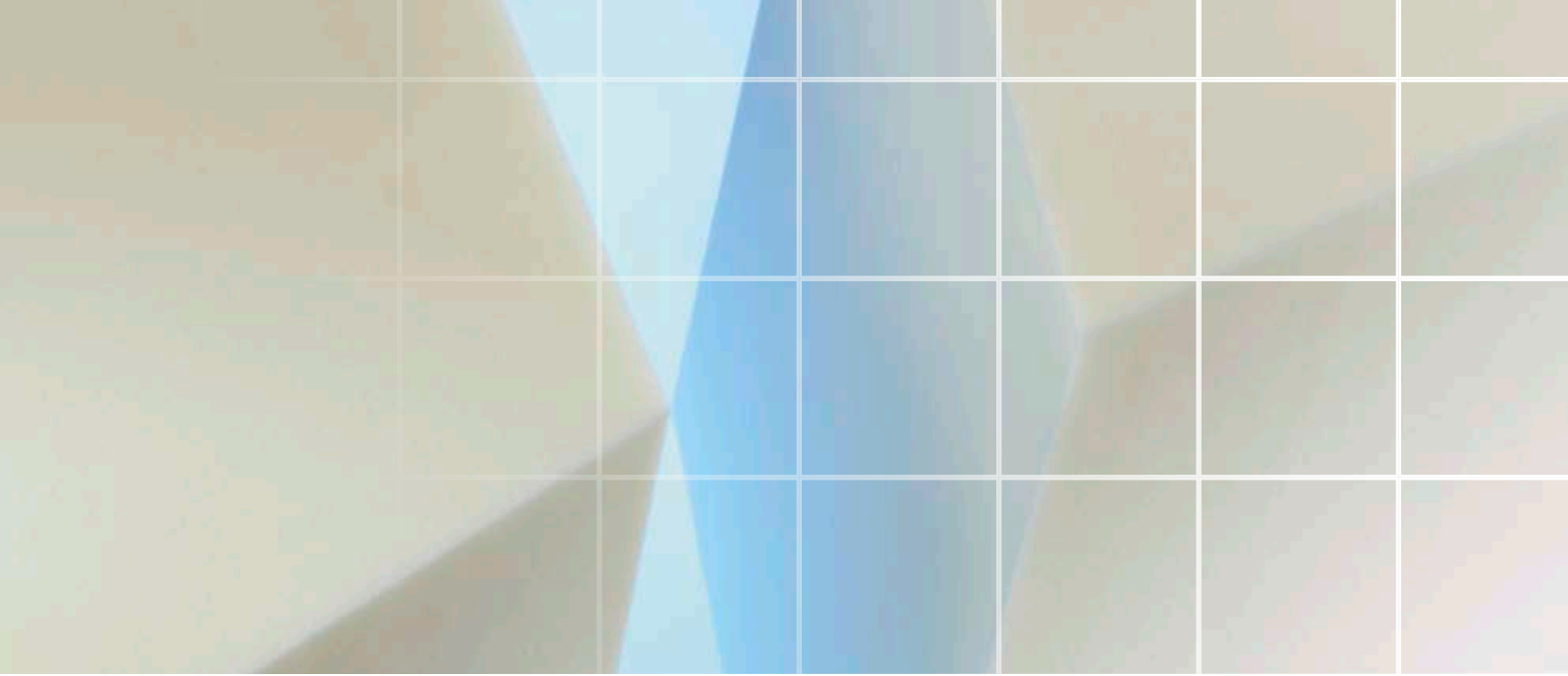
Founded in 1870

Independent  
family-owned business

Cutting machines  
"Made in Germany"

Machines process wide  
variety of materials

Leading the way on technology  
and quality worldwide



# HELLO AND WELCOME!

When you need to cut, split and trim blocks of foam, the T 6 and T 8 machine concepts offer a great solution. Both machines cut soft, hard or even sticky materials with speed and precision. Moreover when it comes to splitting blocks, there are hardly any restrictions on what you can do. The T 6 is also able to process an impressively wide range of materials. To ensure that the machines support your production process in the best way possible, we work closely with you during the design stage for the machines. Together we outline your requirements and develop cutting machines based on your production requests, our many years of experience and our engineering expertise. These machines will increase your productivity and help you to maximise performance. Fecken-Kirfel's team of engineers are proud of the cutting machines they have developed, providing a global benchmark for cutting precision and reliability.

**Cut with speed and precision**

**Process a wide variety of materials**

**Split blocks according to requirements**

**Easy to use**

**Increase productivity**

**Reliability guaranteed**



**Christoph Hansen**  
Construction  
**Michael Tillmann**  
Head of technical dept.

## FULLY AUTOMATIC CUTTING MACHINES FOR CUSTOM-MADE BLOCKS

Precise, cost-effective cutting to size. Trimming. Variable dividing of short and long blocks: these are all tasks managed comfortably by the T 6, T 8, T 8/5 and T 8 S cutting machines, with optimum results.

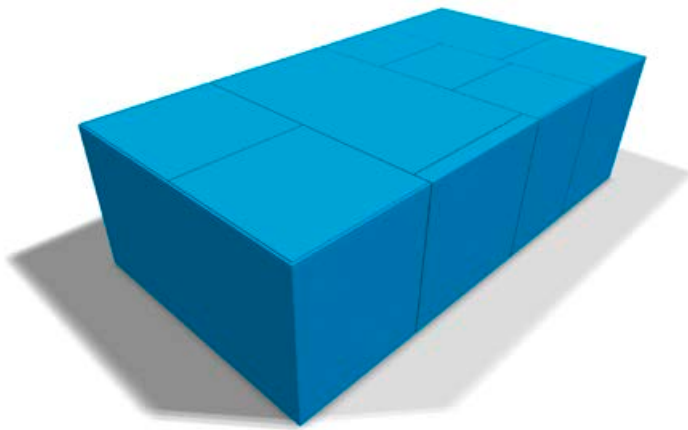
**Area of application:** Cutting to size, trimming and dividing of a wide range of different-sized blocks, e.g. for the mattress, furniture and automotive industries.

**Materials:** Flexible PU foam, viscose foam, bonded foam, PE, semi-rigid and rigid foams.

**Cuts:** Cut short blocks to various lengths and widths, and split long blocks. The machines cut the foam blocks exactly to their final size according to your needs.

Technical data	T 6	T 8	T 8/5	T 8 S
max. working range (L x W; optional in each case)	2600 x 2400 mm 3000 x 2400 mm 4000 x 2400 mm	2600 x 2400 mm 3000 x 2400 mm 4000 x 2400 mm	2600 x 1800 mm 3000 x 2400 mm	2600 x 1400 mm 3000 x 2400 mm
Cutting height	650 mm optional: 1350 mm	1350 mm, 1650 mm	620 mm	650 mm, optional: 820 mm, 1020 mm
Cutting speed	1-40 m/min	2-20 m/min optional: 4-40 m/min	2-20 m/min optional: 4-40 m/min	0,5-10 m/min
Cutting angle	- 180° bis + 180° (any angle)	- 90°, 0, 90°, 180°	- 90°, 0, 90°, 180°	- 90°, 0, 90°
Knife/Saw ground on both sides	no	yes	yes	no
Can be integrated into a cutting line	yes	yes	yes	yes
Nearly dust-free	yes	yes	yes	no

# Type | T 6 and T 8



Flexible PU foam

Rigid foam

Semi-rigid PU foam

Bonded foam

PE

Viscose material

## CONVENIENT OPERATION THANKS TO INDIVIDUAL CONFIGURATION

We work with you to determine the machine parameters. We find the best configurations for your requirements to ensure ease of operation and help you use the machine effectively.

**Operation:** Using a Windows user interface, you set the different lengths and widths of the blocks, number of units and speed, an easy, convenient use.

**Control:** The control modules are designed to be easy to service and, thanks to the modular set-up of the industrial PC, can be replaced individually.

**Commissioning:** We start up all functions on the machines at our factory before delivery. If everything is working perfectly, installation and commissioning can then take place on your premises.

**Integration:** We integrate both machines into your production process. We set individual control parameters which are a perfect fit for your requirements, whether in a cutting line or as stand-alone machine.

**Service:** We respond quickly to maintenance issues and provide a straightforward solution. A teleservice option makes remote diagnosis possible.





Walter Linnenberger  
Foreman Construction



With the T 6, you achieve the very best cutting results, even with difficult materials, and make your production between 50 and 100 percent more effective.

## MORE EFFECTIVE CUTTING PROCESSES THANKS TO PATENT PENDING KNIFE MOTION

With the T 6 cutting machine, an extensive range of materials can be cut and trimmed with speed and the greatest of precision. The special feature of the machine is its counter-moving knife. This revolutionary knife motion allows you to process a wide variety of materials, including standard foams, viscose foam, technical foams and bonded foams. The T 6 is also an effective option when you need to cut harder or sticky materials.

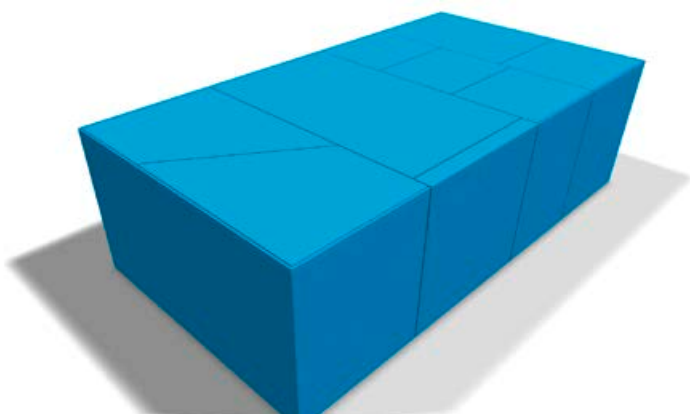
**Cutting tool:** The rotating band knife, with its counter-moving blade and calotte grinding, is what makes the T 6 special. This innovative knife motion makes your processes even more productive.

**Cuts:** No matter if rectangular or trapezoid, you can cut blocks to exactly the size you want.

**Space requirements:** Thanks to its innovative knife guide, the T 6 takes up little space in your production area.



# Type | T 6



Cuts with greater precision and neatness

Greater productivity

Suitable for harder materials

Reduced space requirements





**Andreas Billmann**  
Project Engineer



The three T 8 models enable you to process foams, plastics and rigid foams of various qualities with precision and flexibility. You can split the block sizes individually according to the intended purpose.

## SUITABLE MODEL FOR YOUR CUTTING TASK

With the fully automatic cutting machines in our T 8x series, you can be sure to find the right machine for your task. The three variants, T 8, T 8/5 and T 8 S, differ in their design and the cutting tool they use.

**T 8** - with a rotating band knife, smoothly ground on both sides. With this variant it is possible to cut both in the forward and return run of the cutting device as well as in the forward and return run of the conveyor belts. This minimises unproductive empty running, which makes the T 8 an extremely effective, high-performance tool. Using this machine, you have an enormous amount of flexibility when it comes to splitting short blocks, especially cutting parts to different widths.

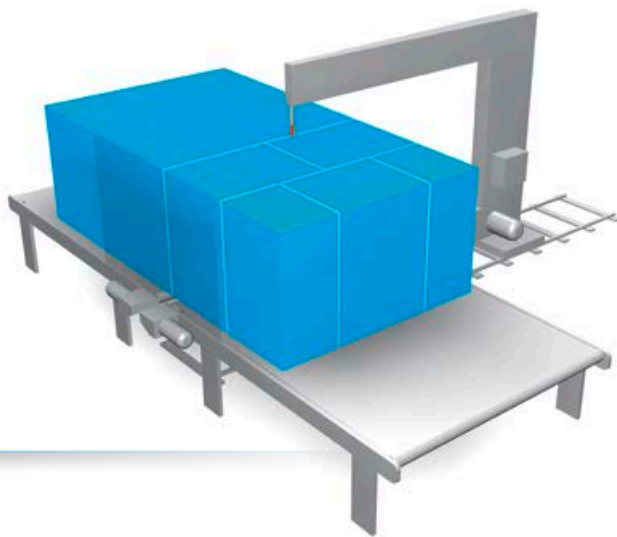
**T 8/5** - the compact option. Due to the reduced cutting height of this machine version you can also process many different technical foams.

**T 8 S** - the bandsaw version. The saw in this variant can process extremely hard materials with minimum effort.





# Type | T 8



Precise cutting to size and trimming

Flexible dividing of short and long blocks

Processing of hard materials

Available either with toothed band knife or as a saw





**Daniel Carreño Torres**  
Sales



Your blocks can be processed from the long block instead of from the short block – a sensible and efficient way of working. The long block is cut to its final dimensions directly. The advantage: it saves you the trimming work.

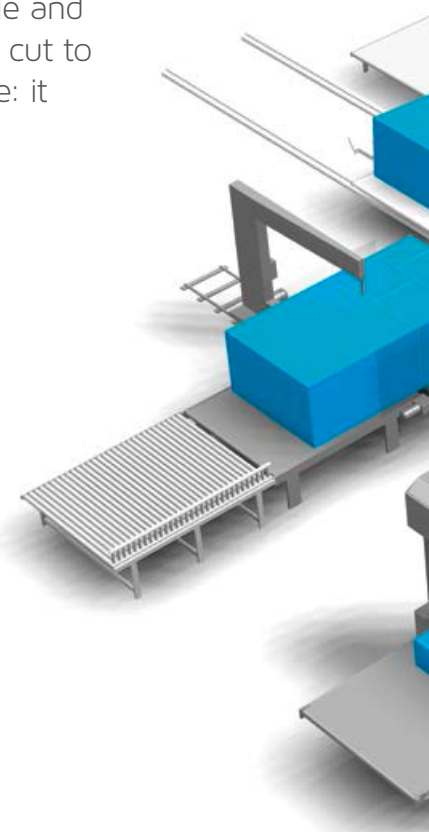
## **STRAIGHTFORWARD INTEGRATION INTO ALL TYPES OF CUTTING LINES**

The T 6 and T 8 cutting machines are frequently used in both simple and complex cutting lines – often subsequent to a short or long block storage. The advanced control technology of both machines makes this possible: they can execute an almost unlimited number of cutting processes.

Used in combination with downstream, transversely movable transport conveyor (shuttle), T 6 and T 8 are therefore ideal machines when it comes to supplying multiple cutting lines with blocks arranged on a gauge block.

### **The process**

1. The T 6/T 8 cutting machines split the block and/or trim it.
2. Depending on the information entered in the operating terminal, the block is transferred to one of the following machines, e.g.:
  - a. CNC contour cutting centres
  - b. Horizontal splitting and stacking machines
  - c. Profile cutting machines
  - d. Packaging stations or other downstream machines
  - e. ...



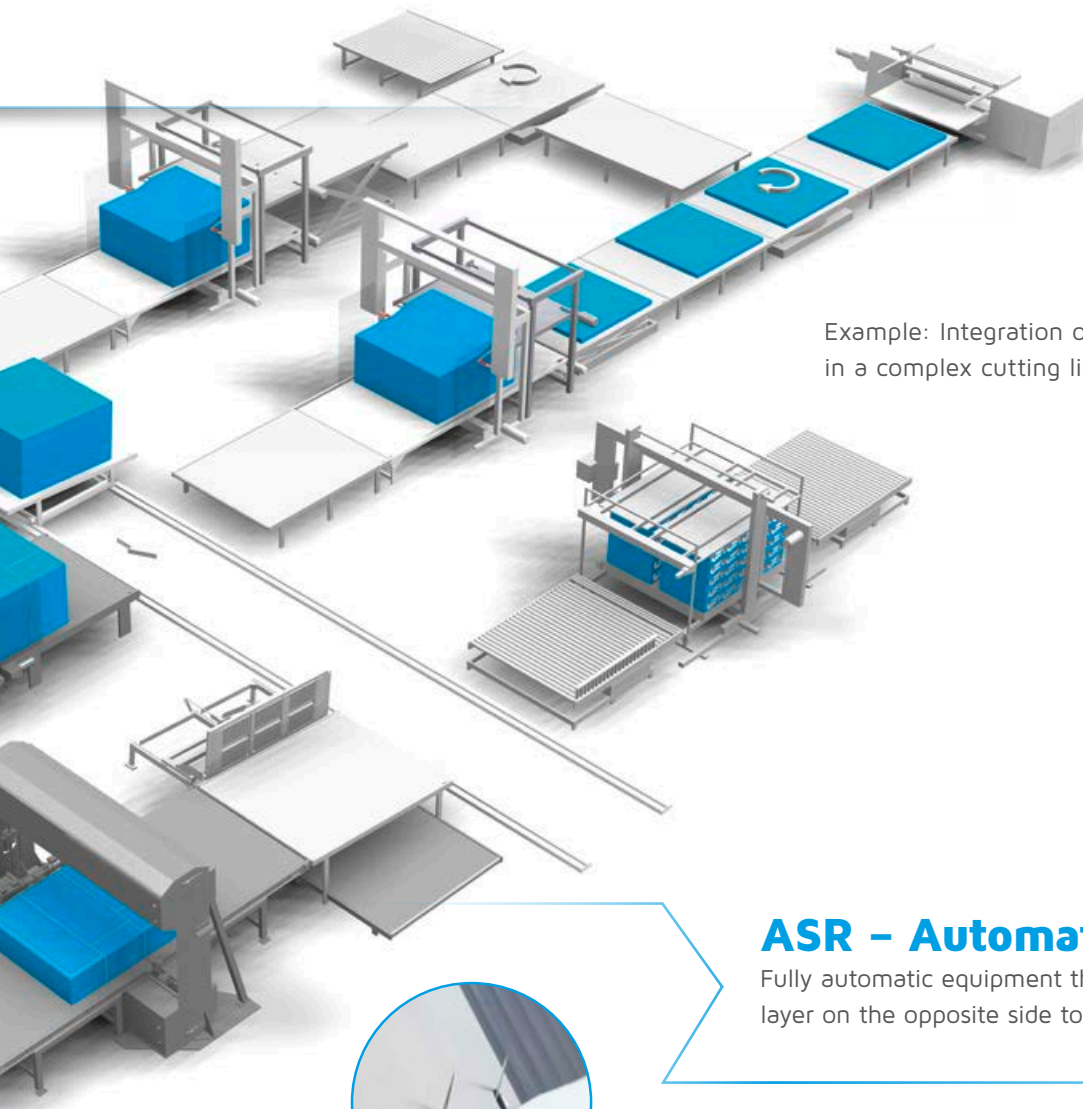
# Cutting line

Existing machines  
are easy to integrate

Large number of cutting  
programs can be run

Combined with a shuttle, T 6 and T 8  
supply multiple cutting installations

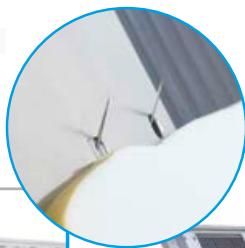
Later extensions can  
be added without difficulty



Example: Integration of the T 6/T 8  
in a complex cutting line

## ASR – Automatic Scrap Removal

Fully automatic equipment that removes the trimmed  
layer on the opposite side to the operation.



Gefördert durch:



aufgrund eines Beschlusses  
des Deutschen Bundestages

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