

**FECKEN** **FK** **KIRFEL**

Always a cut above – since 1870

Horizontal CNC Contour Cutting Centers

Type | **C 55**

Type | **C 56**

Type | **C 57**





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.



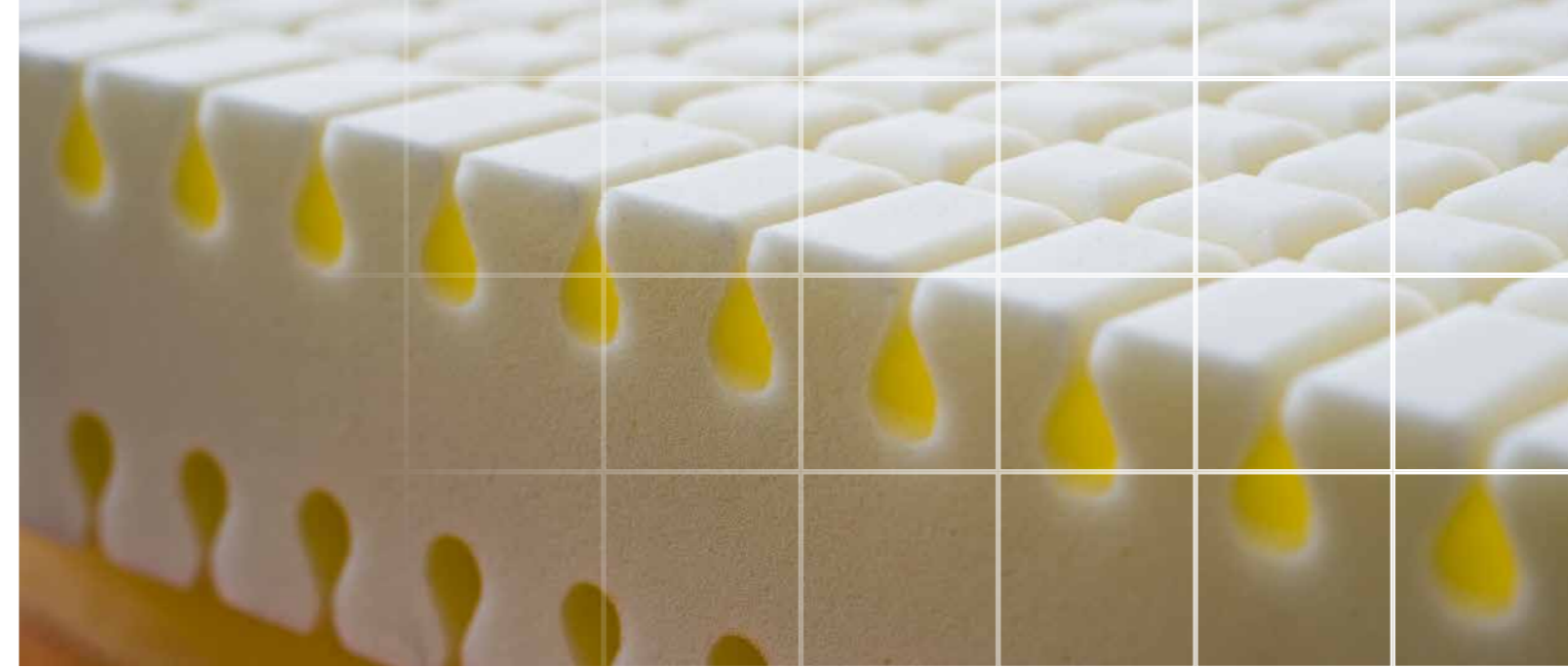
Founded in 1870

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!

The CNC contour cutting centers from the C 5X series impress thanks to their exceptional precision and fast cutting speeds. These flexible machines boast simple, user-friendly controls and consistently cut all types of contours from a wide range of materials, including PU foam blocks (polyether and polyester), latex, bonded foam, „Basotect“ (melamine), PE foam and similar materials.

Virtually any contour can be produced. What's more, the option to add a rotating material supporting table opens up additional application possibilities, including cutting contours for upholstered furniture, automotive parts, mattresses, packaging, and sound insulation panels, as well as industrial items such as pipe insulation and window profiles. Large volumes of simple consumer items such as sponges can be produced in a short space of time and to a very high quality. And the precise vertical and horizontal cutting functions make light work of cutting panels and trimming contours down to size.

Any contour possible

Exceptional contour accuracy

Small tolerances

Fast cutting speed

Rotating material supporting table (optional)

Minimal space requirements



Cesar Avila Castro  
After-sales service engineer

# Type | C 55 and C 56

Central bandknife guidance

Low-wear CBN cup wheels

Minimal space requirements



Thanks to our FK software, our contour cutting centers are easy to use.

## THE PERFECT ENTRY-LEVEL MACHINE FOR PRECISE CONTOUR CUTTING: C 55

The C 55 is the high-performance base model from our range of CNC contour cutting centers.

**Speed and accuracy combined:** The circulating bandknife can be rotated by +/- 360° and cuts at a speed of 25 m/min, while the motorized adjustable hold-down device keeps the material securely in position. Friction-driven aluminum grinding wheels also help ensure a precise and even cut. By rotating the bandknife around the bandknife tip, you can even create sharp-edged corners.

**Simple operation:** As with all our contour cutting centers, the C 55 is easy to operate using a windows-based CNC control system and our FK-Win-Cut software.

**Dimensions and additional options:** The C 55 has a working width of 2300 mm. A manual version of the rotating material supporting table and central bandknife guidance can be added as an option. The stationary supporting table reduces the required space by 50% and enables higher cutting speeds to be reached.

## DURABLE TURBO VERSION: C 56

The C 56 also features an adjustable cutting unit and stationary material supporting table. This contour cutting center, which is also available with a cutting width of 1300 mm, is an excellent choice for processing leftover blocks and cutting hard materials such as polyethylene. The C 56 also has some additional functions that go above and beyond those of the base model.

**Enhanced grinding device:** The C 56's motorized low-wear CBN cup wheels can be independently programmed to ensure a consistently high cut quality, regardless of how long the bandknife is in use.

**Central knife guidance:** The C 56 is fitted with a central knife guidance as standard, which can be set to two different positions.

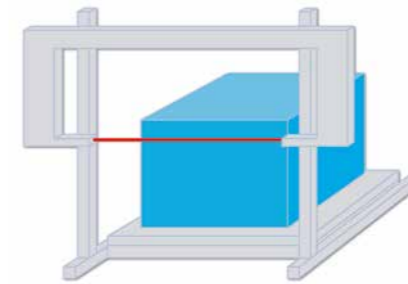
**Rotating table:** The C 56 can be fitted with a manual or automatic rotating table as required.



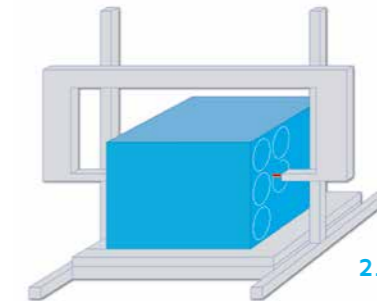
C 56 with 2300 mm working width



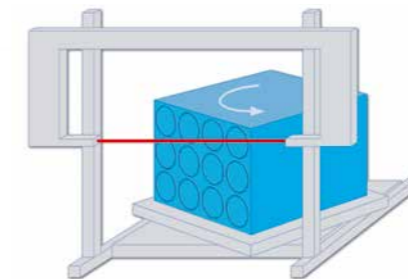
**The cutting process:** Contour cutting centers fitted with a rotating material supporting table make it simple to cut materials to length and create complex contours, e.g., for mattresses.



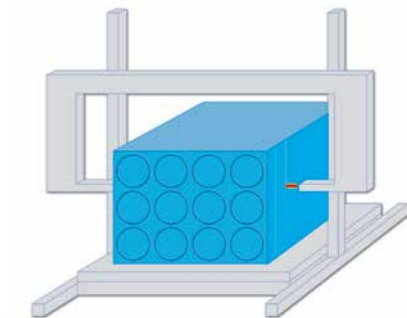
1. Start



2. Contour cut



3. Material supporting table turns 90°



4. Contour cut to size using vertical cut function



The C 57 comes with its own transport conveyor, making it the perfect choice for integration into your existing cutting system.

## C 57 – THE COMPLETE PACKAGE WITH CONVEYOR BELTS INCLUDED

The C 57 is the most comprehensive of the C 5X contour cutting centers. It has all the functionality of the C 56, plus it can be fitted with transport conveyors for automatic loading and unloading.

**Seamless integration into existing cutting systems:** The transport conveyors can be fitted upstream or downstream of the machine, and can also be integrated directly into the material supporting table. Thanks to these motorized roller conveyors, the C 57 can be seamlessly integrated into existing cutting installations, as well as into complete cutting systems.

**Perfect block alignment:** To ensure that materials are precisely aligned, the loading conveyor features a fixed side stop and pneumatic locking stop in the direction of transport.

**Practical job queue function:** The C 57 can be individually programmed to process different cutting orders and also run during unmanned shifts.





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