

FECKEN **FK KIRFEL**

Always a cut above – since 1870

Vertical CNC contour cutting centre

Type | **F 62**



Manfred Werker
Head of After Sales Service
Ralf Korr
Service technician

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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!

With its fast cutting speed and a band knife that can be twisted +/- 360°, our F 62 vertical CNC contour cutting centre is an ideal partner for anyone manufacturing small, medium or large-volumes of different contour parts in series production. Having a flexible and cost-effective manufacturing option for these kinds of parts is a competitive advantage, particularly when it comes to the production of upholstered furniture and mattresses, as well as products for the camping and leisure industry. With the F 62, there are virtually no limits when cutting contours and processing materials. The exceptional performance of the FK nesting and routing software also has an important part to play: The nesting function ensures cut lines are nested into one another to make the most of the material being cut. Meanwhile the routing function is what gives you your perfect cut line which in turn determines how long cutting will take and what quality the cut will be.

Fast cutting speed

**Band knife can be twisted
+/- 360°**

Maximum performance

**Cuts sharp-edged
contour parts**

**Robust construction
with few parts subject to
regular wear and tear**

Technical data		F 62		
Working widths	1400 mm	2300 mm		
Cutting lengths	2400 mm	3100 mm		
Band knife	twistable +/- 360°	continuously adjustable 2-12 m/s	cross-section 0,6 x 3,6 mm	lifespan 80-100 hrs
Cutting heights	650 mm	optional: 1300 mm	optional: 1600 mm	
Cutting speed	70 m/min	optional: 100 m/min		
Grinding device	parametrisable yes	dust exhaust fully automatic		

VERTICAL CONTOUR CUTTING CENTRE FOR INDIVIDUAL CONTOUR PARTS

Flexible and economical, the F 62 cuts contour parts with a perfect cut face – thanks to a band knife that can be twisted by +/- 360°, even complex contours can be processed in one cut without any backturns.

Area of application: Cuts contours parts flexibly and economically. Processes complex contours in one cut.

Industries: Upholstered furniture, mattresses, camping and leisure equipment, packaging, automotive supplies.

Materials: Flexible PU foam, PE foam, EVA, fleece/wadding, bonded foam, materials coated with textiles, materials laminated with a self-adhesive film, felts, and similar materials.

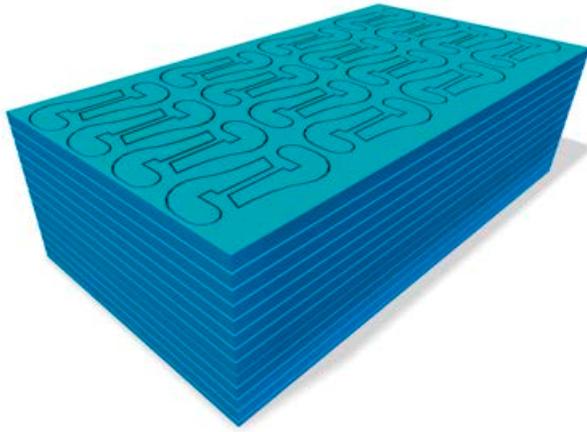
Cuts: Processes all contours in the best way possible thanks to nesting and routing.

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.

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



Type | **F 62**





Karl-Heinz Steffens
Construction/Service technician



With the F 62, I have all the flexibility I need when programming a very wide range of different contour parts – thanks to the 360° twistable band knife, I can also cut complex contours without any markings.

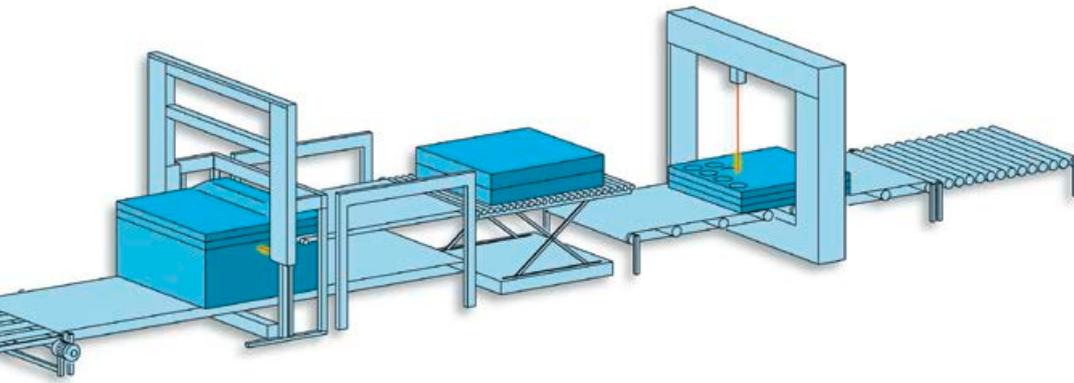
CUSTOMISED CUTTING PROGRAMS SIMPLE, FLEXIBLE, ECONOMICAL

Creating a program: Cutting programs created in other FK contour cutting centres can be copied over. You can create new programs in a separate CAD-PC, which is Window-based like the CNC computer in the machine.

Creating a cutting contour: You can create cutting contours in DXF format using the FK software or import these from external software.

Optimising material usage: In the next step, you can „nest“ the contours to ensure that as much of the material is utilised as possible. This process can be automated and alternatively in addition carried out interactively using FK software.

Optimising the cut line: A perfect cut line guarantees that the cutting work will be fast, effective and economical. Thanks to the design advantage of a band knife that can be twisted +/- 360°, the FK software identifies optimal routes using the F 62; be it manually, automatically or interactively.



Increases feed rate

Reduces downtime

Fully automated process

Reduces input required by staff

THE FULLY AUTOMATIC CUTTING LINE

To expand the F 62 and turn it into a fully automated cutting line, all you have to do is combine it with a W 22 or H 52 horizontal splitting machine and add a take-away conveyor and an automatic loading device.

Efficient process: The horizontal splitting machine is loaded with a short block, which is split into the desired layer thickness. Each batch of layers is unloaded by the take-away conveyor, transported by the scissor lift table and loaded into the F 62. The machines can either be synchronised or work independently of one another.

FK-Order: Using FK-Order, you can create cutting line orders for the cutting system which optimise and control the entire work flow. Based on the cutting orders for the F 62 contour cutting centre as its starting point, the software takes into consideration all relevant information from the block storage: length and width of the blocks, layer thickness, number of layers and material.

PickByView: The PickByView sorting tool allows the user to get a very clear overview of the contours cut, because graphical "on time" support is provided. This means that even more contours can be nested and the F 62 can function even more effectively.



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