

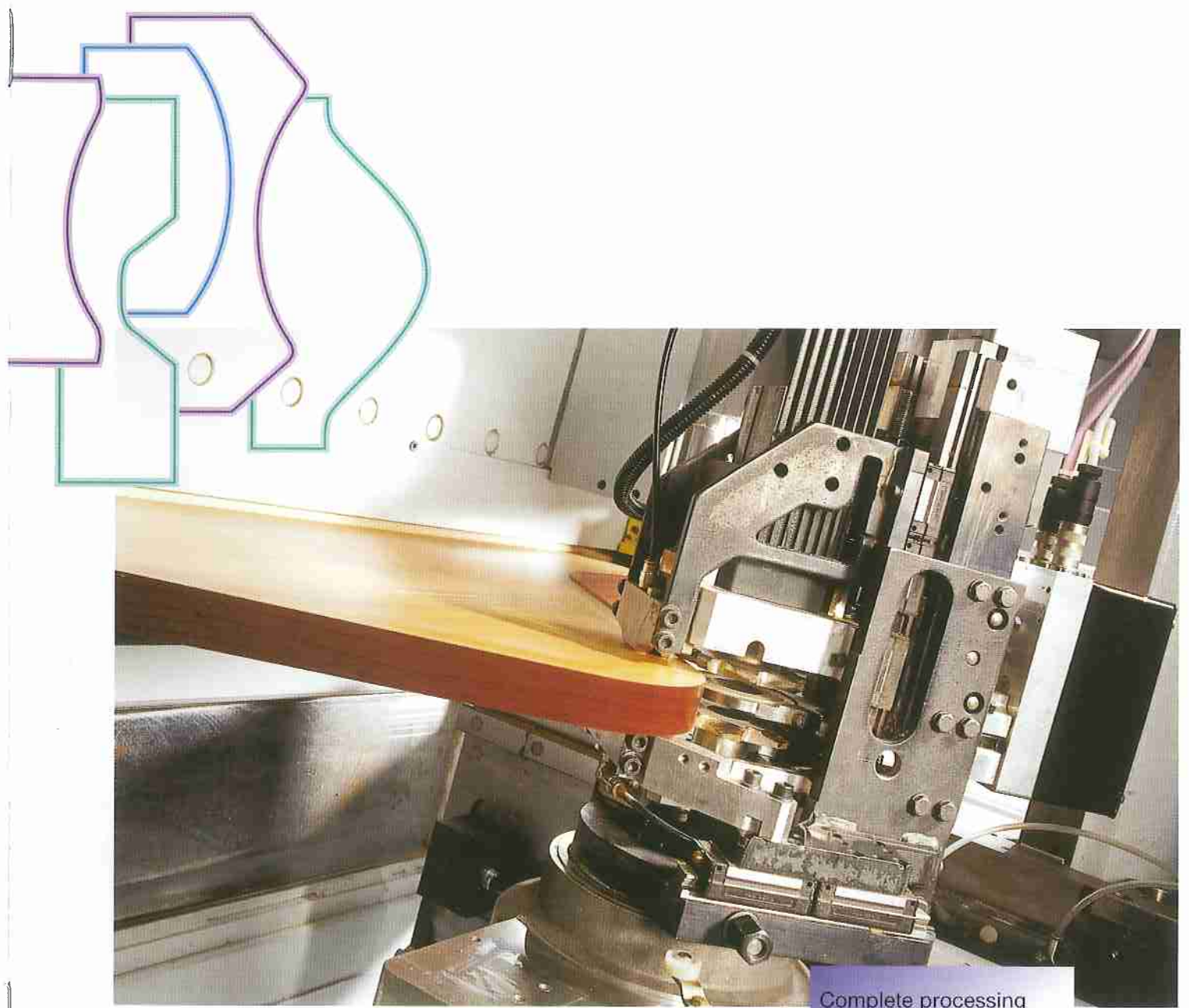
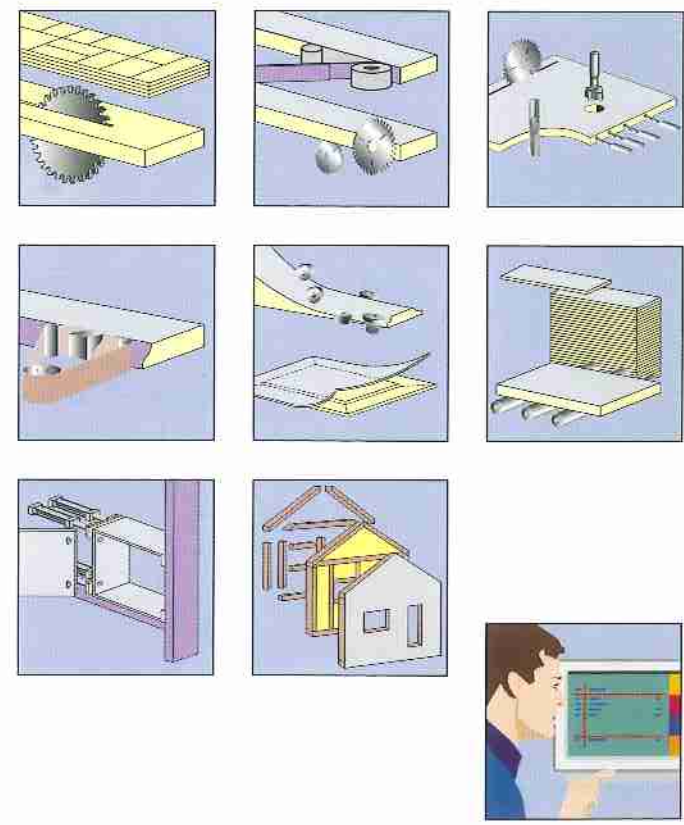
Production



Sales



Service



Complete processing
of shaped components
in a single pass

The new shaped component throughfeed machines KFL 10/.../CF

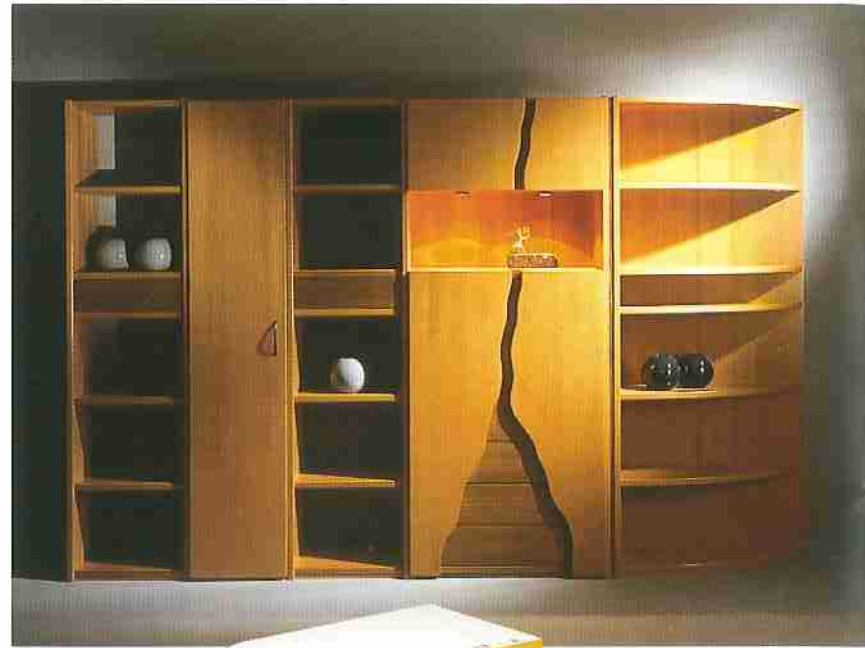
Your contact:



Homag
Holzbearbeitungssysteme AG
Homagstrasse 3-5
D-72296 Schopfloch
Tel. +49 (74 43) 13-0
Fax +49 (74 43) 13 23 00
info@homag.de
<http://www.homag.com>

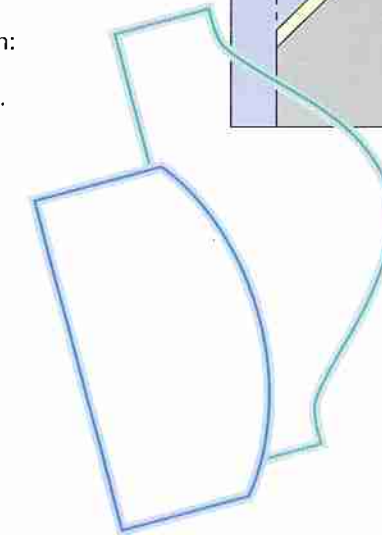
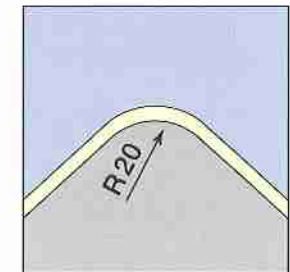
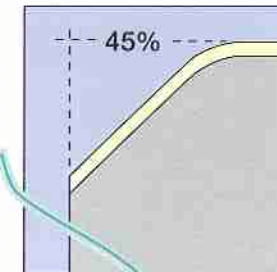
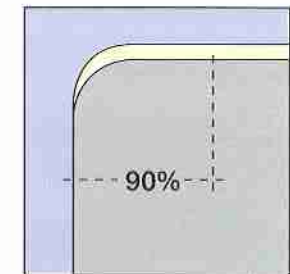
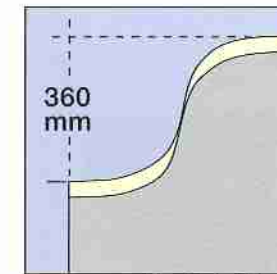
Attractive workpieces in top gluing quality – even more, even faster, even better!

By fully revising and further developing its shaped component throughfeed machines KFL 10/.../CF, Homag has succeeded in optimizing a technique which conforms with every conceivable industrial requirement - in other words top quality coupled with bulk production. This new machine reflects the concentrated experience and know-how of the world's leading edge banding machine manufacturer.



Short resetting times, reduced piece costs

The new KFL 10/.../CF series offers the benefit of enormous productivity and high gluing speed. Rectangular workpieces are turned into attractive and elegantly styled shaped components in a single, high-speed machine pass – without the need for any manual reworking. With optimized units for outstanding processing quality. With new exchange units for flush trimming and scraping - meaning reduced down-times. With larger contour depths (up to 360 mm). The extremely low resetting times mean that new shaped component throughfeed machines are profitable even for small series. In brief: piece costs are substantially reduced by optimum capacity utilization. And all these benefits are offered hand in hand with a compact machine design: The new KFL 10/.../CF models have been considerably reduced in length.

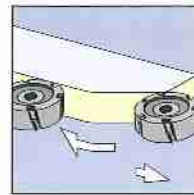


Showing a profile: The new models



Even deeper

Profiles up to 360 mm in depth. Rough trimming on the CF 10. Finish trimming either with trimming unit CF 11, one axis, approach angle up to 60°, or with trimming unit CF 12, with two axes, approach angle up to 90°.



CF 12: Two units trim in synchronous and counter rotation to achieve a neat, tidy contour.

Program controlled contour trimming – completely without template

The workpiece contours are trimmed with the aid of CNC control – simply enter your geometry into the Homatic control system. The reliable operator prompting system of the processing software WoodWOP will provide you with active support through the programming process.

... optimum compression

The section-by-section pressure setting of the post-pressure rollers with servo valves guarantees optimum compression of the edge material – even for simple softforming profiles such as roof or drum profiles.

A clean, even contour

The track movement of the trimming tools is performed by means of servo drives (CNC axis). The consistent, precise linear drive of the transport chain – with feed rates of up to 30 m/min! – ensures a uniquely neat trimmed finish.

CF 10: With greater profile depths, the rough contour is created in line with the prescribed path using two finger cutters.

All types of edge ...

The machine processes a wide range of different edges: Plastic or veneer, in fixed length material or off the coil, with edge thicknesses from 0.4 to 3 mm. Edge changeover from a two-slot magazine is possible.



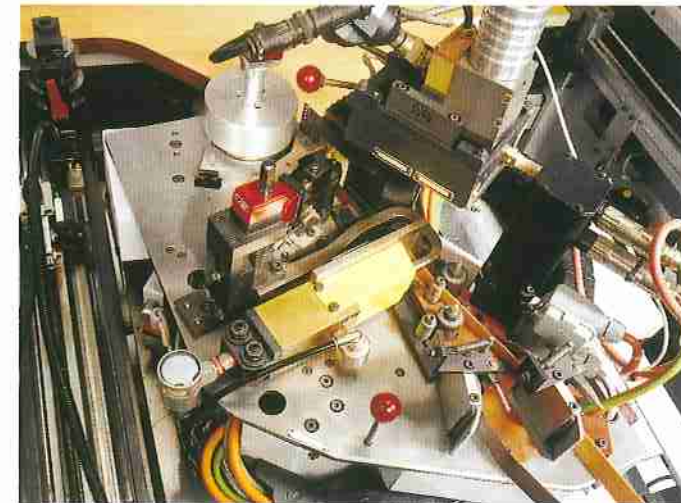
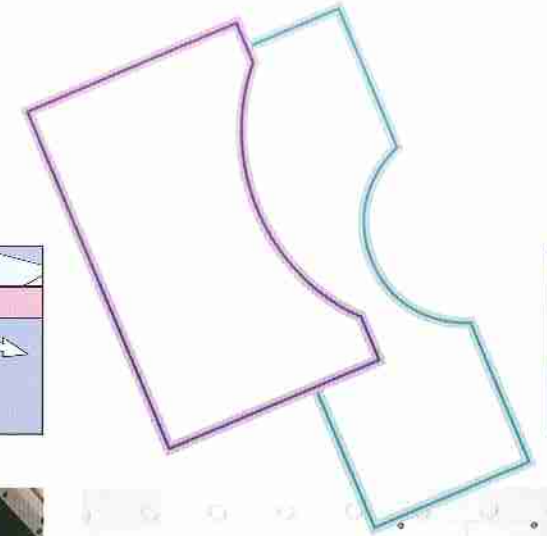
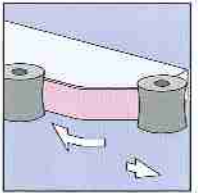
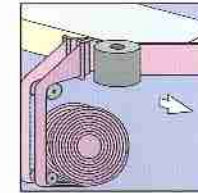
Separating agent is sprayed on to ensure optimum quality of the glued joint.

Convenient removal of offcuts

After trimming the profile shape, the offcut drops via a chute in the machine stand onto a conveyor belt and is then immediately disposed of.



The gluing unit, whose setting angle is controlled by a digital servo axis, operates with direct glue application (EVA). The servo-controlled glue application roller ensures a consistent gluing quality. The new servo technology used in the edge transport system ensures a defined edge overhang.



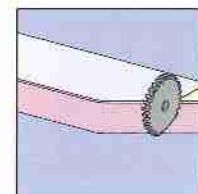
Pressure zone

For softforming profiles (drum or roof profile), the complete pressure zone can be height adjusted.



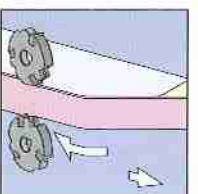
Snipping unit

The first processing stage in the finish processing section is to flush trim the overhanging edges.



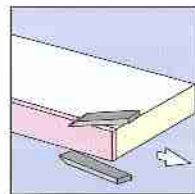
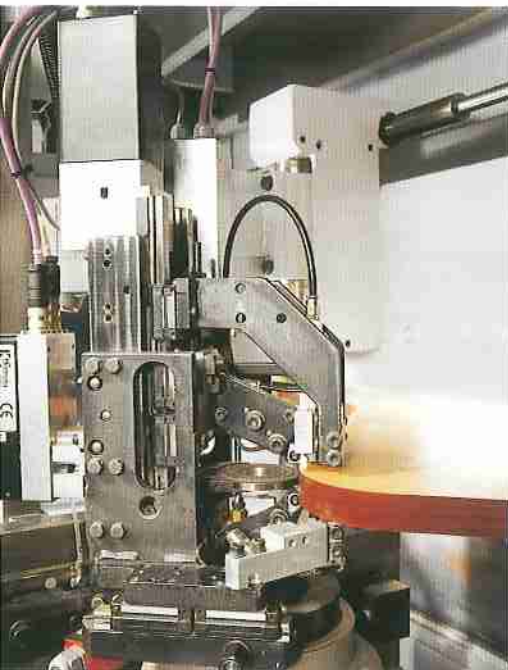
Flush trimming unit with digital servo axis

With vertical and horizontal tracing. The unit can also be used for radius or chamfer trimming.



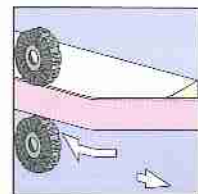
Controlled C axis

The flush trimming and scraping unit are traversed along the contour by a controlled C axis. This guarantees an optimum, constant angle of incidence – resulting in a consistently high standard of processing quality.



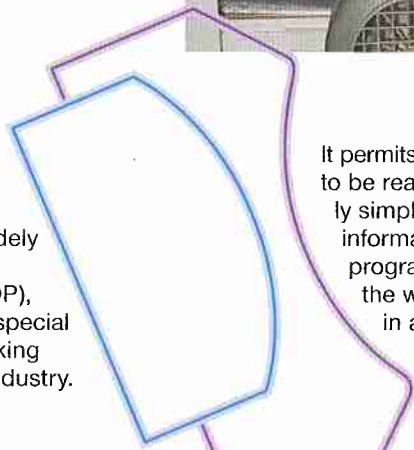
Scraping device

The scraping device is used to neatly smooth the edge and remove glue residues.



Buffing unit

For finish processing top and bottom, with lateral tracing, with servo control.



It permits highly complex applications to be realized while offering extremely simple operation. The workpiece information is generated using a programming user interface, and the workpiece program is stored in a WoodWOP file. DXF data records can be imported from CAD systems.

High calibre: The control system

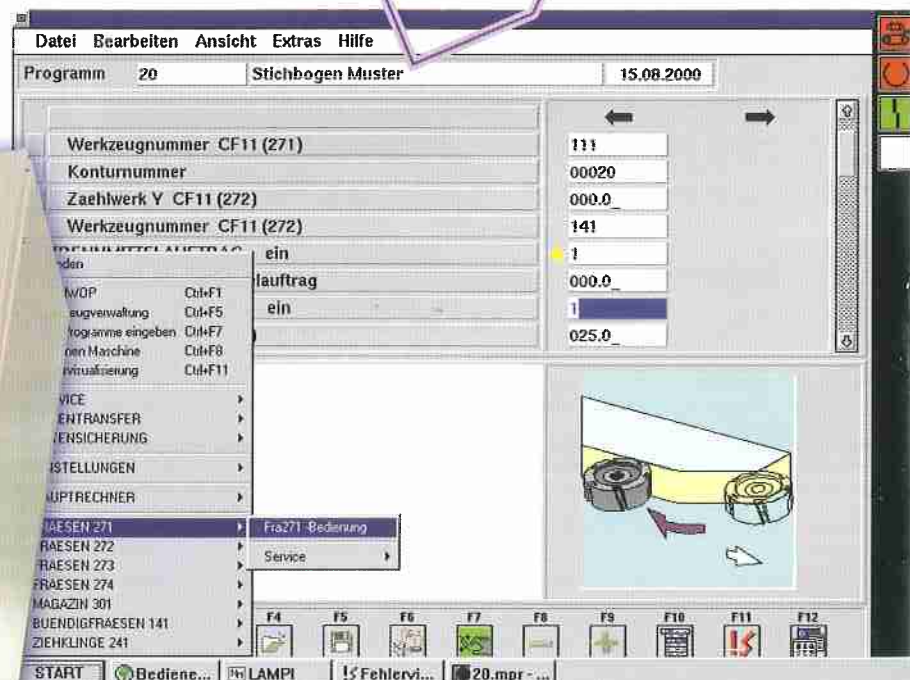
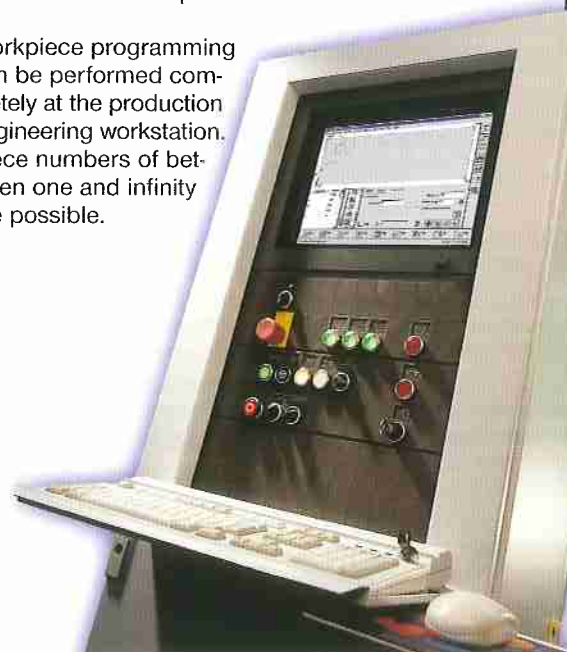
The KFL 10/.../CF machines operate using state-of-the-art control and drive technology:

- Industrial PC using the operating system Windows NT
- Real time systems with operating system OS9
- User-friendly operating and programming user interface
- Central data base for tool management
- Automatic resetting of units or manual adjustment making use of operator prompting technology
- Bar code control possible

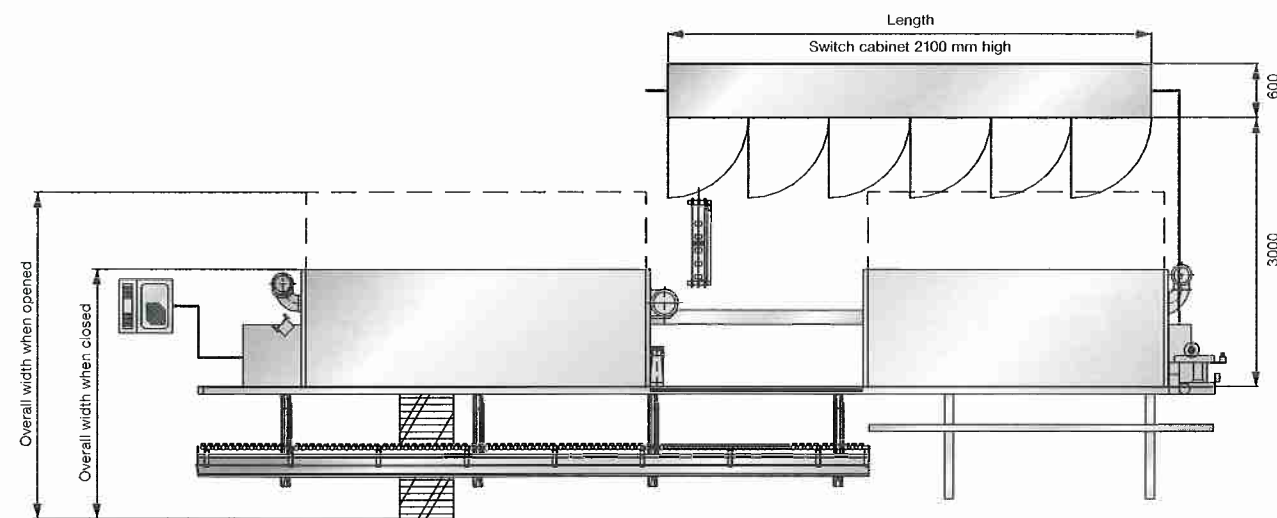
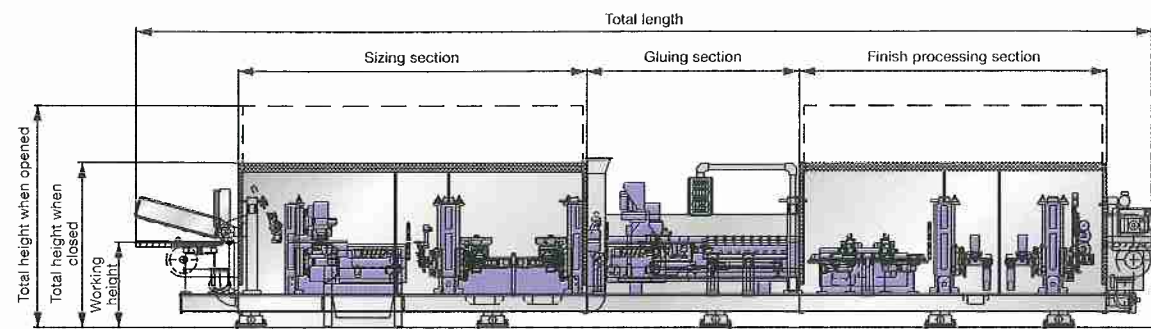
Convenient: Programming system WoodWOP

WoodWOP is the most widely used workshop-oriented programming system (WOP), optimized to address the special demands of the woodworking and furniture producing industry.

Workpiece programming can be performed completely at the production engineering workstation. Piece numbers of between one and infinity are possible.



Specifications



Machine type	KFL 10/.../CF	Miscellaneous	KFL 10/.../CF
Machine dimensions			
- Overall length mm	according to machine type	- Feed m/min.	6/30
- Sound protection covers closed/open		- Machine weight appr. kg	according to machine type
Overall width mm	2330/3110	Working dimensions	
Overall height mm	1840/2475	- Workpiece thickness mm	12 - 40
- Working height mm	950	- Workpiece width mm	
Connected loads		without counterpressure	min. 120 + contour depth
- Total extraction output m ³ /h	after fitting with units	- Workpiece length mm	min. 250
- Air velocity m/sec.	35	- Contour depth mm	max. 360
- Compressed air consumption nl/min.	after fitting with units	- Contour incline angle	max. 45°
- Compressed air port	2 x 1/2" internal thread supply line R 1"	- Contour internal radius	min. 80 mm, but dependent on tool
- Pressure loss mm/WG	250		
- Voltage/Frequency V/Hz	400/50		
- Total electrical connected load kW	after fitting with units		

The minimum contour radius depends on the edge profile and the contour.

Subject to technical changes