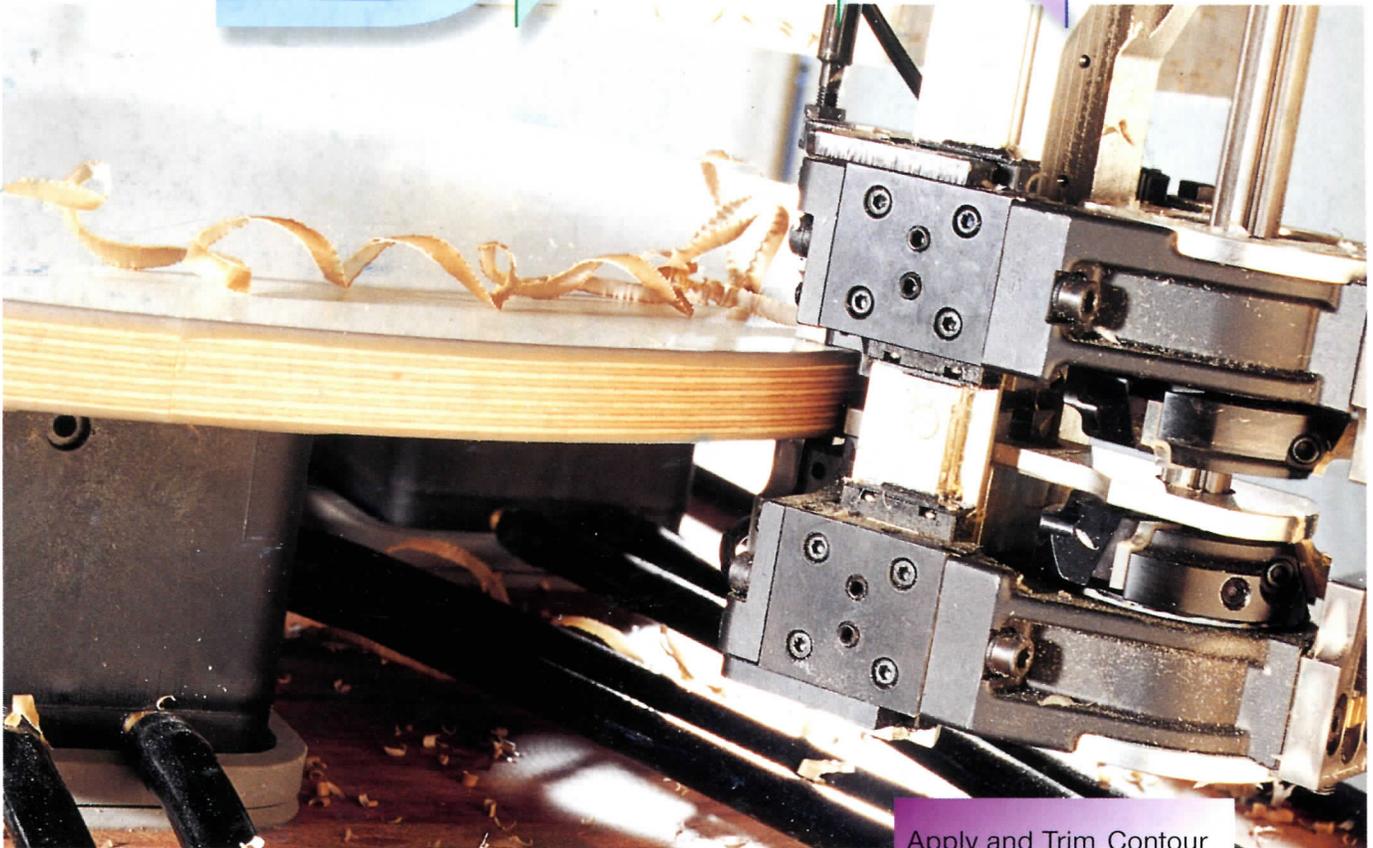


BAK



Apply and Trim Contour
Edges in One Process

Automatic Contour Edgebanding Machine Optimat BAK 41

BAK 41. Greatly expand your production capabilities, with a modest investment.

CNC routers and machining centers play an ever greater role in the production of furniture components. These machines lend themselves well to a wide variety of applications, but they do not apply edgebanding.

Homag introduces the perfect companion to your router. Produce high value added components simply, and efficiently with the Homag Automatic Contour Edgebanding Machine BAK 41.

Homag Offers Flexibility in Edge Application

Homag offers a new, value priced solution for the production of contour edgebanded components. The BAK 41 operates with a wide range of edge materials including veneers, high pressure laminate, or 3 mm PVC in strip or coil format. Even 4 mm PVC application is optionally available. The BAK is the perfect compliment to any CNC router.

World Leading Technology

The BAK is backed by the know-how of Homag, the world's leader in edge application technology, giving you the reassurance you need to make your capital investment decision





The BAK 41 is Fast

With its top edge application speed of 20 M/min (65 ft/min) and top positioning speed of 60 M/min (262 ft/min) the BAK makes short work of your contour edgebanded parts. Quick change-over times and ride-along processing units ensure that the BAK delivers more profit to your bottom line.

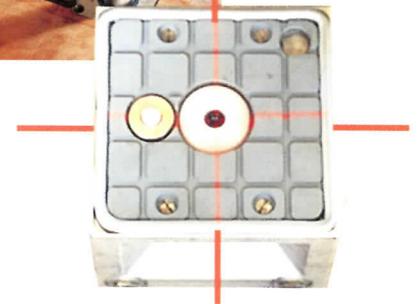
Produce Without Stopping by Pendulum Processing

Dual zone design allows for loading and off-loading of complete parts while the machine is in operation. This alternating style of processing ensures that the machine remains constantly in production.



Highly Flexible Solid Table Design

The solid table design allows for positioning of the vacuum pods at irregular angles, and simplifies the use of vacuum fixtures, which is a benefit when running complex, contoured components.



Set-up Is Simplified by Laser and Alignment Fences

The BAK 41 is equipped with a laser positioning device which clearly defines the exact location for the vacuum pods. The newly designed alignment fences simplify the placement of irregularly shaped parts. Less time setting-up, equals more production time.



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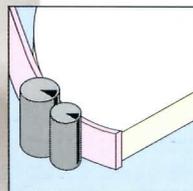
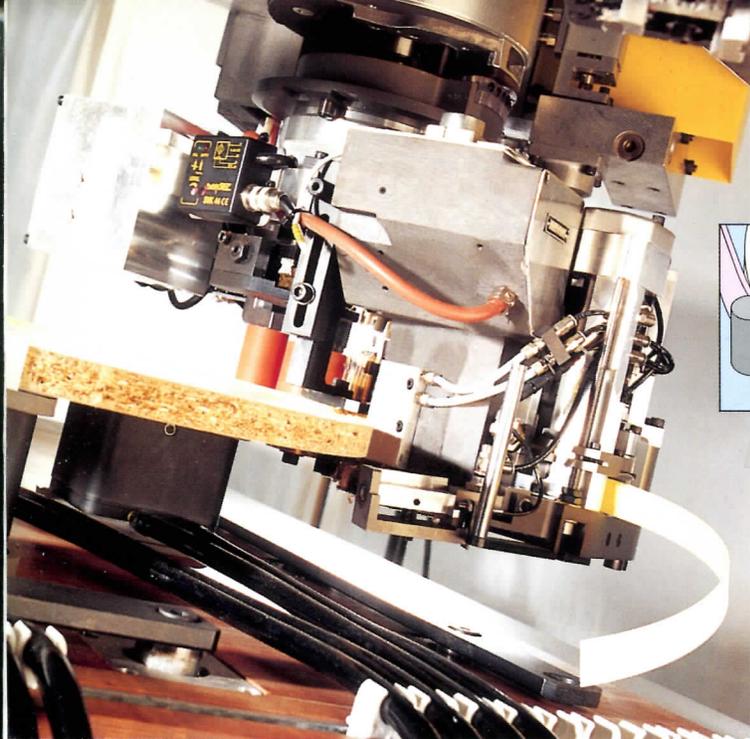
 60

 60

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**All-around Perfection
 360° Edge Application Unit**

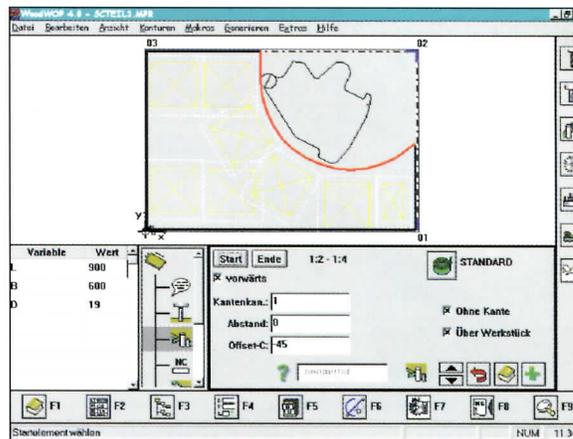
The edge application unit utilizes a tracing device, which ensures a quick accurate application around the entire perimeter of the work piece, including the seam. The application unit can apply edge materials in inside radii as small as 30 mm (1-1/8"). Adhesive is applied directly to the edge allowing for processing speeds much faster than pre-coated edge materials.

Homag contour edge application technology has come of age, and offers the following benefits:

- Constant application speed in complex contours ensures consistent quality glue lines
- Measuring sensor ensures precise trimming for consistent seams when applying edge completely around part
- Edge magazine feeds edge materials to application unit in one level, ensuring accurate, reliable material transport
- Applies edge material in strip form – such as high pressure laminate

Program Simulation Software

Programs can be visualized, and fine-tuned prior to running on machine, leaving more time available for production.

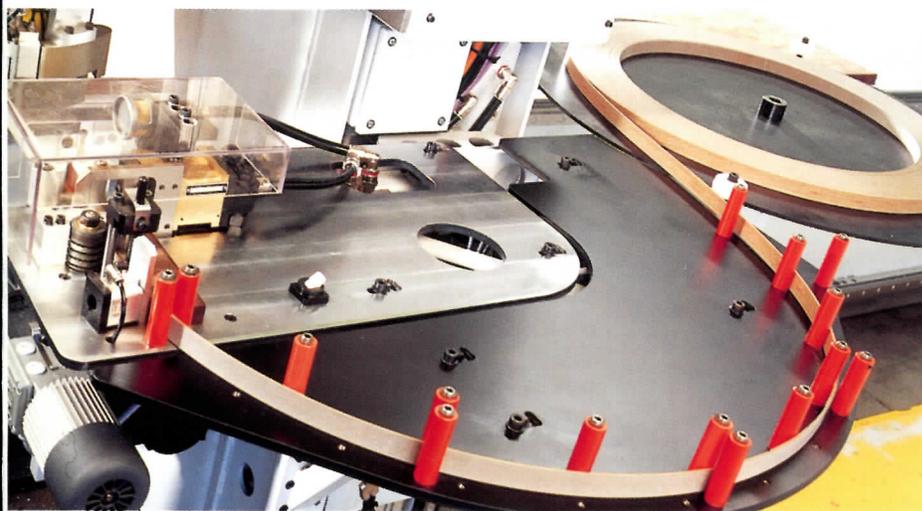


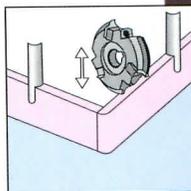
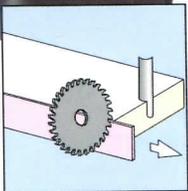
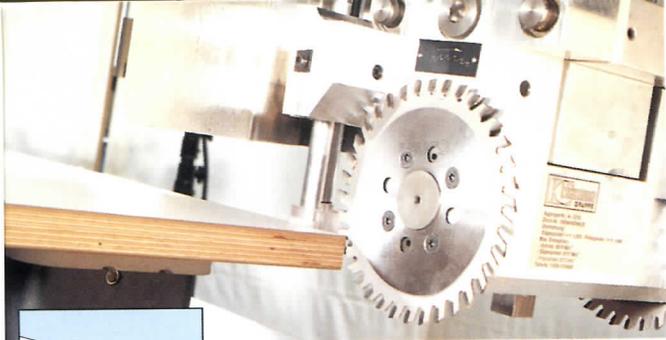
**User-friendly Programming System
 WoodWop**

WoodWop is a practical, Work piece Oriented Programming system (WOP) which is optimal for the needs of the wood products and furniture industries. Complex operations can be simply programmed with the easy to understand, icon driven software. The .dxf file format used by your router software can be imported into WoodWop, saving valuable programming time.

Ride-along Edge Magazine

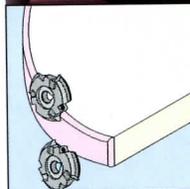
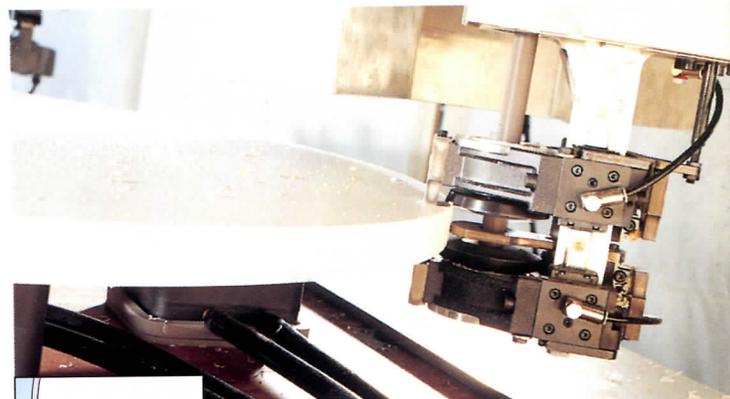
The ride-along magazine always keeps the edge where the machine needs it to best optimize the cycle time. Two coil magazines are also optionally available to further reduce change over time.





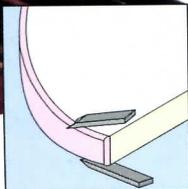
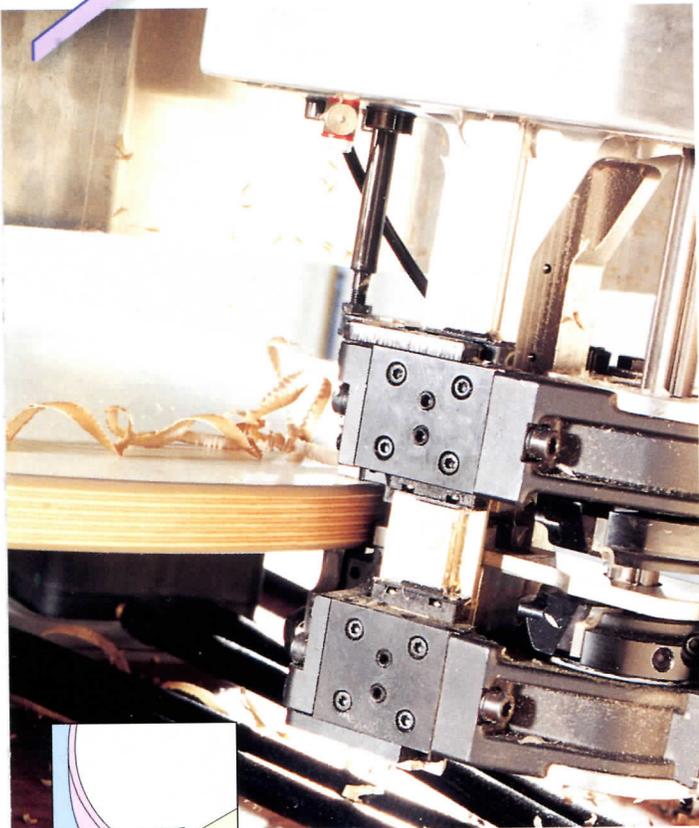
Homag Exclusive: Combination Edge Snipping Unit and Corner Rounding Unit

A newly developed aggregate with tracing capability ensures a very precise edge snipping and corner rounding. This cleverly designed aggregate compensates for tolerances caused by re-positioning of the work piece. The result is finished parts, with high quality.



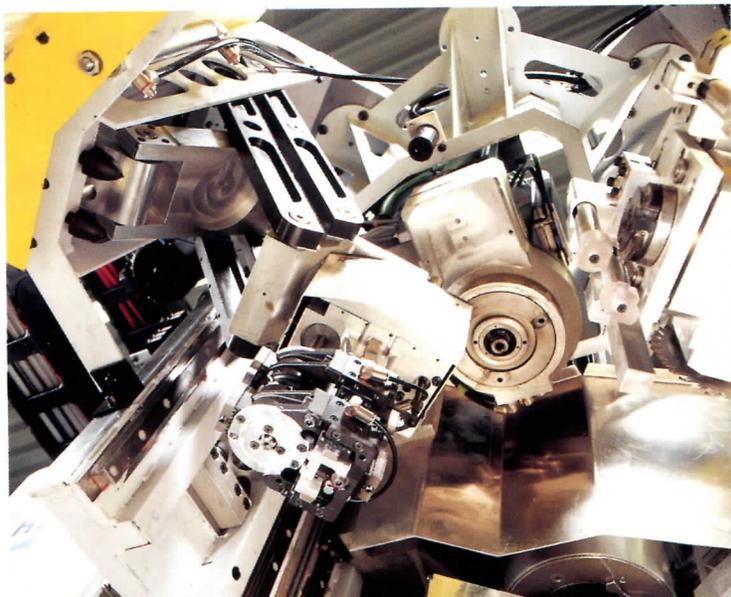
Scraping Unit

The scraping unit provides final finish detail to plastic edges. The triple tracing mechanism ensures that the finish radius remains consistent with the panel edge. The unit can be equipped with glue joint scraping tooling for thin plastic edges or with profile tooling for thicker plastic edges.



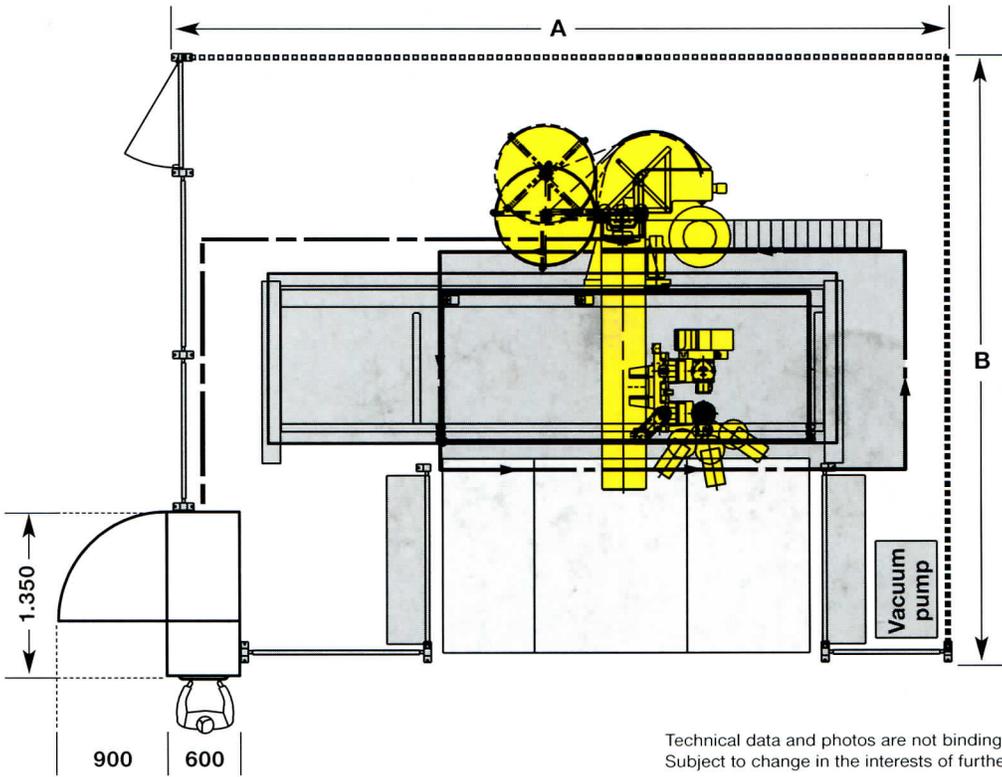
High Speed Tool Changer

The newly developed, ride-along tool changer allows for tool changes to be performed in just seconds. Room for up to four tools or aggregates means flexibility - fast.



Specifications

Type	BAK 41/30	BAK 41/45	Type	BAK 41/30	BAK 41/45
Dimensions			Specifications		
Workpiece length max. [mm]	3000	4500	Traversing speed in X axis [m/min]	60	60
Workpiece length with Alternating processing max. [mm]	900	1650	Traversing speed in Y axis [m/min]	60	60
Workpiece width max. [mm]	1220	1220	Traversing speed in Z axis [m/min]	30	30
Workpiece height max. [mm]	60	60	Spindle capacity [kW]	4,4	4,4
Edge height max. [mm] (with 360° gluing max.)	65 (45)	65 (45)	Spindle speed [RPM]	1500-18000	1500-18000
Edge cross-section max. [mm ²]	135	135	Extraction output [m ³ /h]	2560	2560
Edge thickness (PVC) max. [mm]	3	3	Suction port diameter [mm]	180	180
Edge thickness (solid wood) max. [mm]	2	2	Compressed air consumption [NL/min]	300	300
Horizontal coil magazine (optional)	1 (2)	1 (2)	Connected electrical load [kW]	approx. 17	approx. 17
Machine length (including perimeter fences) = A [mm]	6250	7750	Capacity of vacuum pump (Standard) [m ³ /h]	1 x 66/100	2 x 66/100
Machine width (including perimeter fences) = B [mm]	5000	5000			
Machine height (upper edge of suction port) [mm]	2400	2400			



Technical data and photos are not binding in all details.
Subject to change in the interests of further development.

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stiles

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