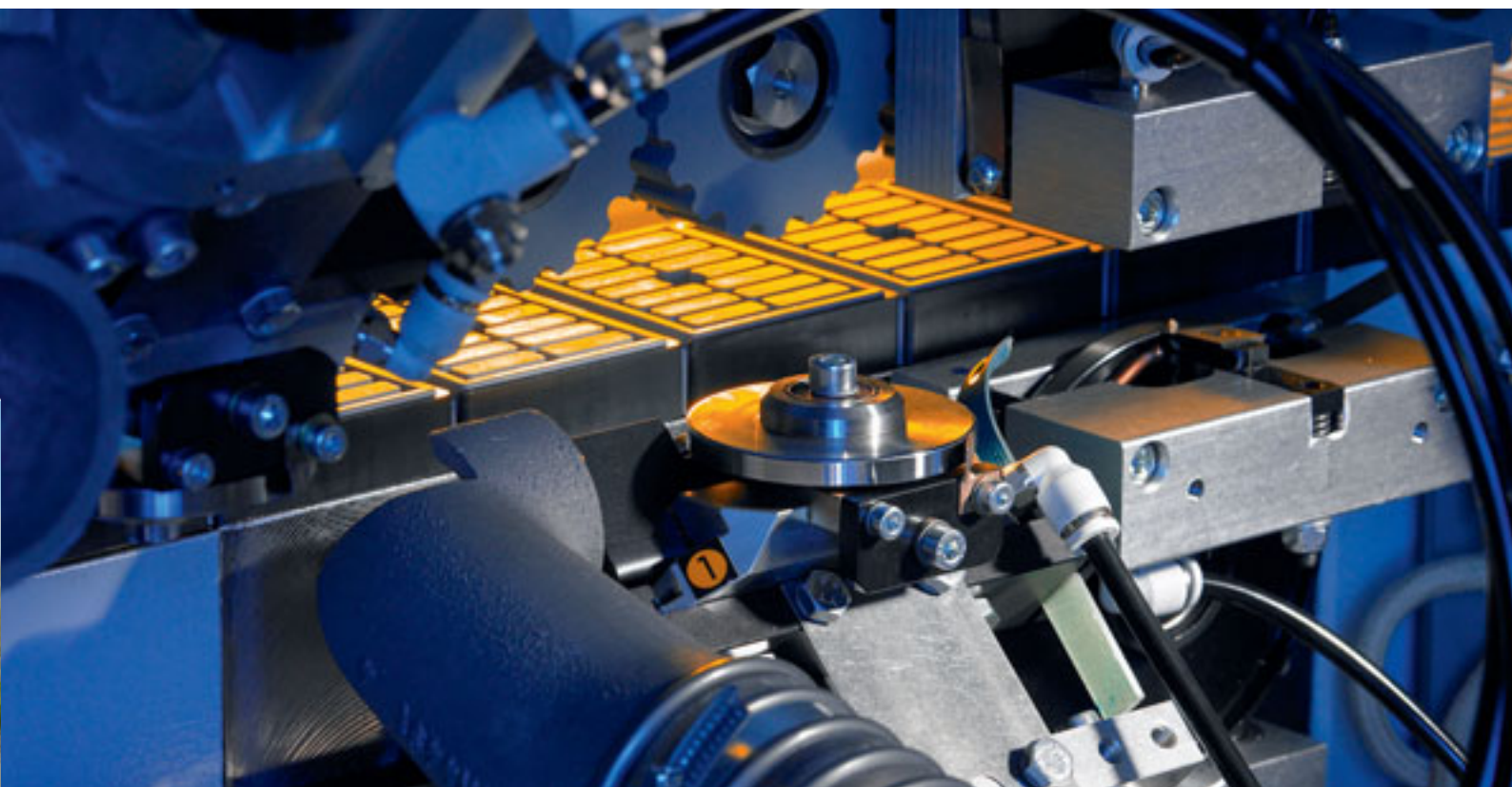


Including  
BOOMERANG return systems



## Edge banding machines Ambition 1650 - 1670 KDF 660 edition



A member of the Homag Group of Companies



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# HOMAG Group

## Success through partnership

To survive in a fiercely competitive market, a company has to have fast, flexible and efficient production. The HOMAG Group, with its sales and service network in over 90 countries around the world, offers you and your employees a strong partnership no matter where you are.

The HOMAG Group of companies cover all areas of woodworking and wood-processing. Panel sizing, sawing, edge technology, transportation technology and handling systems are just a few of our specialties. We also offer solutions for drilling, coating technology, surface technology, plants for doors and doorframes, timber house

construction, sanding technology, automation systems, packaging equipment and software. We provide a complete and innovative range of products and services that are always the perfect solution for any requirement. You, our customers, benefit from high precision, performance and cutting-edge technology.



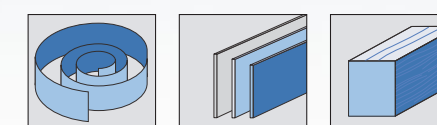
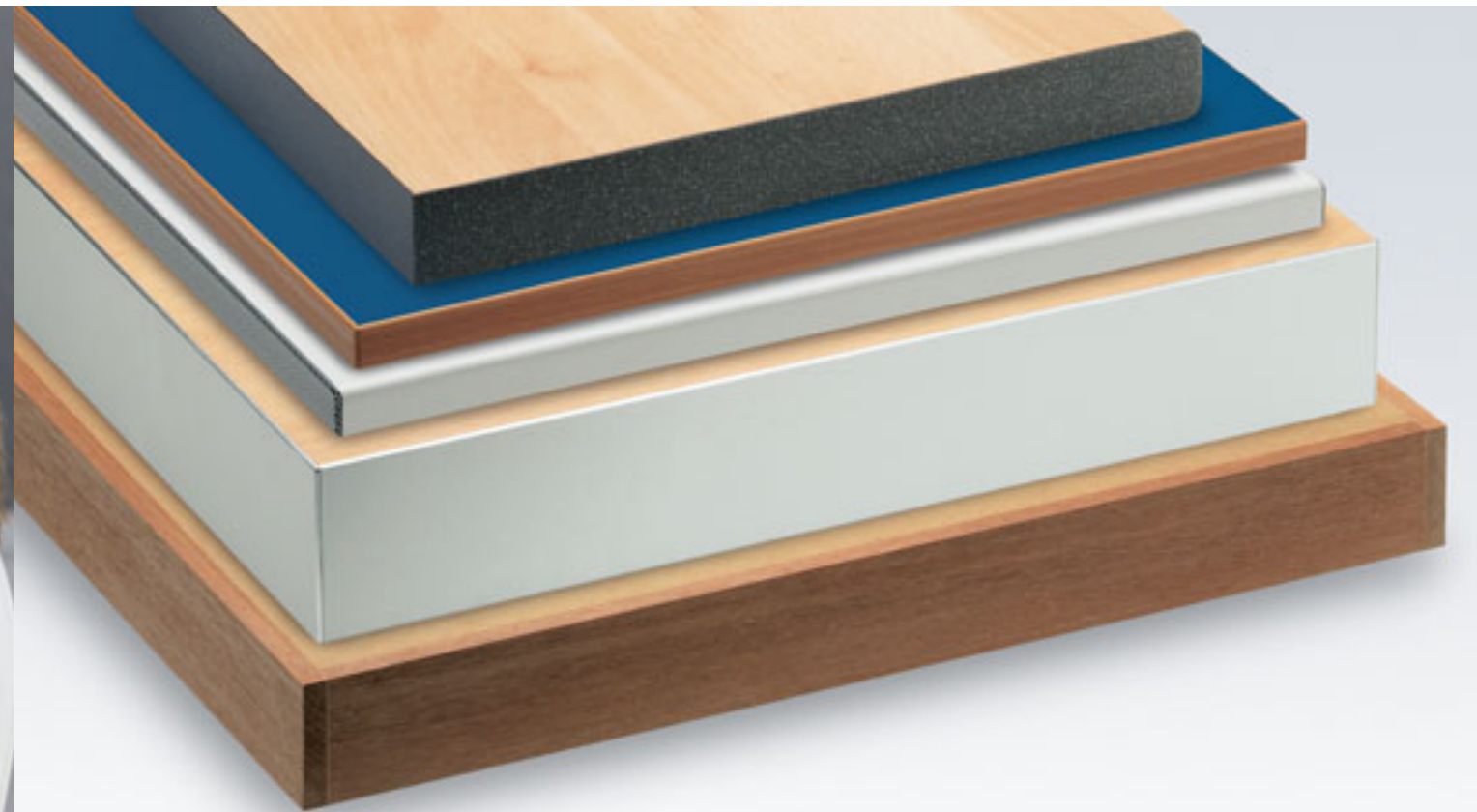
# BRANDT

## Perfect edges for demanding customers

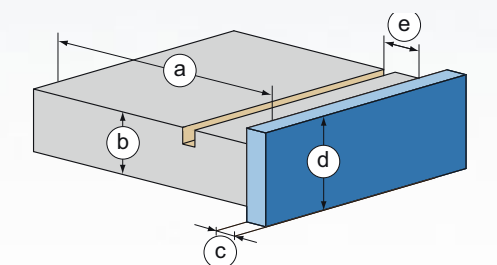
We offer our customers innovative and powerful edge banding machines. Efficiency and quality have the highest priority, and ensure long-term competitive advantages for you. With an annual production of over 2000 edge banding machines, we are the edge banding specialist in the HOMAG Group and the world leader in our market segment.

A high degree of standardization in combination with an advanced manufacturing process and more than 50 years of engineering experience ensure state of the art quality at a superb price-performance ratio. Our clear and structured product range is designed to

meet the demands of current and future market trends. All of our developments are focused toward practically-oriented and economic solutions that guarantee you the best possible production results.



mm	Coil	Strips	Solid
a		min. 70	
b		8 - 60 (option 80)	
c		0,4 - 12	
d		65 (option 85)	
e		max. 30	



"With us, you and your products come first. A promise that you can count on!"

"Ideally prepared for your requirements"



# Ambition 1650 FC - 1670 FSCG

## Setting new standards in performance and quality

In the standard version, the machine is equipped with a precision gluing unit, a tiltable end trimming unit, a multifunctional top/bottom trimming unit and a contour trimming unit. A perfect finish is guaranteed by the radius scraper and a buffing unit.

The powerful motors on all of the units provide the unrestricted power that is needed to process a broad spectrum of different parts. To offer the perfect solution every time, there is a joint trimming unit, a tiltable grooving unit as well as a glue joint scraper available.

With the optional Quickmelt gluing unit, plus the optional workpiece gap optimization package for more effective production, and also the available separation and detergent agents, this range is optimally-equipped for all requirements. The versatility of this series is highlighted by the variable feed rate of 8-18 m / min.

### The right solution for your requirements

The Ambition 1600 series machine leaves nothing lacking. Whether your needs are "batch size one" production, for demanding bespoke shop fitting applications, living & bedroom furniture or functional office furniture, the Ambition 1600 Series always offers the right solution for your requirements.



Ambition 1650 FC





# powerControl PC 20+ – Quality and precision with the touch of a button

Through targeted and constant development of controller technology, simple operation and a high operating comfort are guaranteed. At BRANDT we focus on you as our customer and your finished product.

- Optimum overview by using an easy to view 12" screen
- High operator comfort with all functions button-controlled from the operating panel
- Short set up times, through high controller capacity and easy selection of processing programs
- Self-explanatory operator guidance, through a graphic interface and optimum visualisation
- Network-compatible
- Context-sensitive help - detailed information about the functions and how to operate the machine directly on the screen



# powerTouch – The new dimension in machine operation



powerTouch (optional) implements the HOMAG Group's new operating philosophy: Simple, standardized, ergonomic and evolutionary. The innovative touchscreen operating concept unites design and function to create a totally new control generation."

- 21" screen with full HD resolution
- Fast overview of machine status
- Simple, user-oriented navigation
- Traffic light assistant helps guide the user towards readiness for production
- Standardized design of the user interface
- Intuitive, natural touch operation of the machine
- Use of gestures such as swiping, scrolling

"At the focus of this solution is a large multi-touch monitor in widescreen format, which is used to control machine functions by direct touch contact. The entire user interface has been optimized for touch operation and offers an array of help and assistance functions designed to radically simplify the work experience. Standardized control elements and software modules ensure that all HOMAG

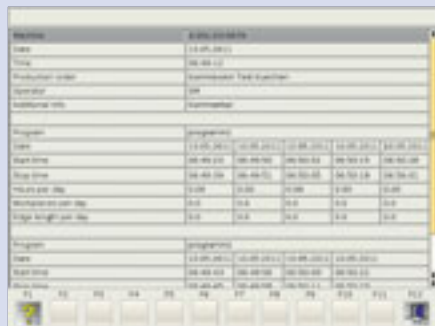
Group machines can be operated with the same familiar look and feel using this new concept. They differ only in terms of a few machine-specific details. This not only simplifies the operation of different machines, but also makes for great efficiency by significantly reducing time for servicing and training."



"Machine data capturing for maintenance depending on need and for the representation of important operating figures (e.g. number of pieces, production time, edge material quantity)"

### Teleservice reduces field service work operations

- Reduction of service cost
- Avoidance of an unscheduled machine downtime
- Specific scheduling of field service work + spare parts
- Support to maintenance and operation staff



### Compilation of production data via the BRANDT-Browser

Compiled production data can be easily gathered and saved. The BRANDT-Browser allows for job-specific collection of operating hours, an overview of the total processed workpieces and information regarding total meters of processed edges. For companies that have large numbers of different clients, it is especially advantageous to always have an accurate record of contract-related costs.



### Context-sensitive help

With the context-sensitive help function, it is possible to directly display detailed information on the operations and functions of the machine. The controller-integrated help functions are accessible with the push of a button from the keyboard and allow for immediate operator support.

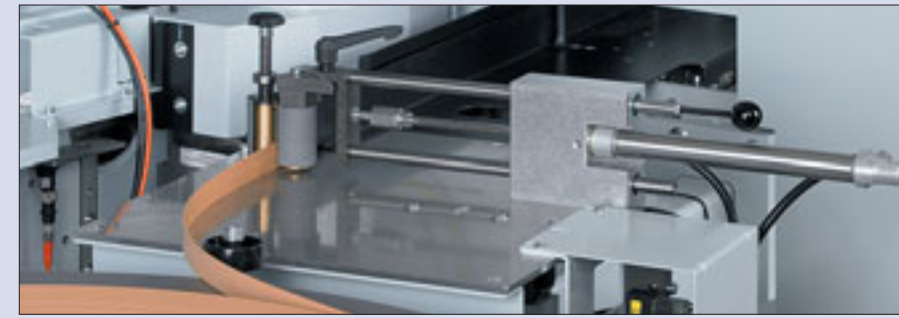




# Significant competitive advantages – Pace setting performance and quality



**Infeed stop**  
For minimum workpiece spacing and safe operation.



**Automatic edge infeed device (optional)**  
Automatic edge infeed device for fast change over between different coiled materials.

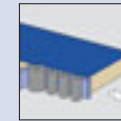


**V-belt top pressure (optional)**  
Top pressure V-belt system optionally available instead of the standard top pressure roller system.



**Joint trimming unit**  
Perfect cut and high operating life due to diamond tipped tools for an optimum edge joint quality.

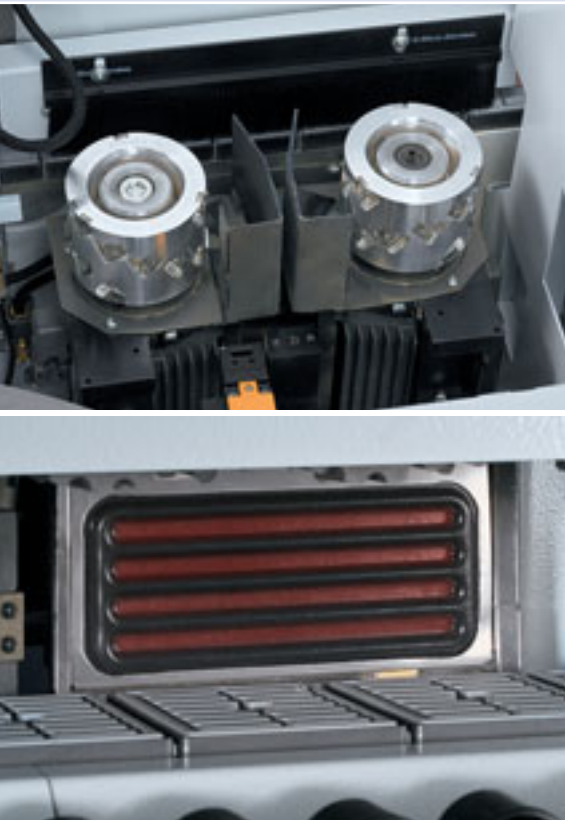
**Standard Gluing Unit**  
Quickly changeable application unit. Glue reservoir underneath the glue roller. Processing of granulated PU glue is possible.



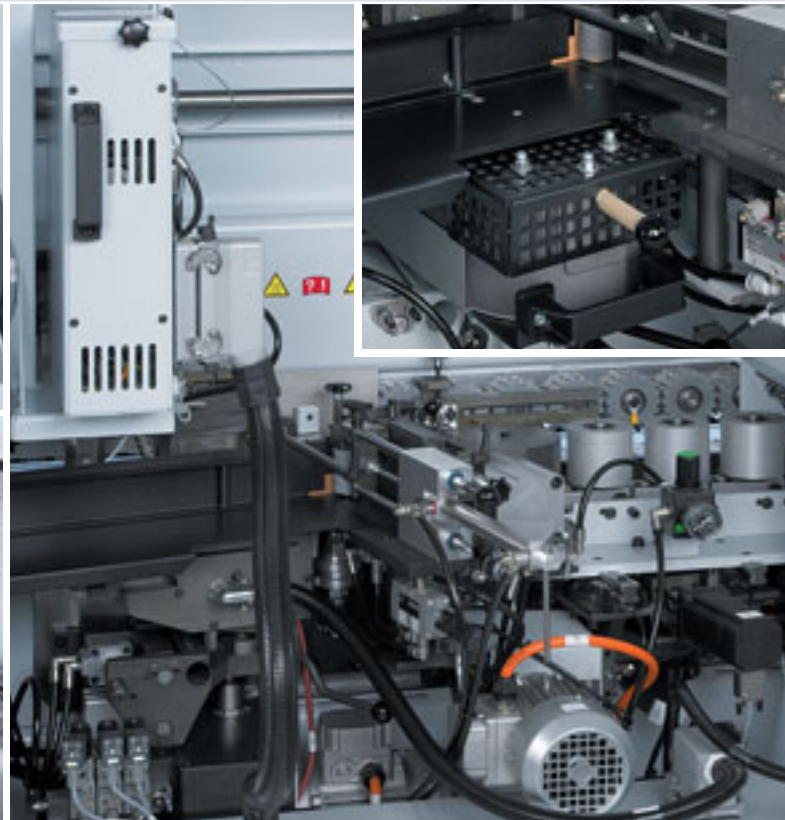
**Pressure zone**  
Heavy pressure zone (up to 15 mm) to ensure an optimum glue joint quality.



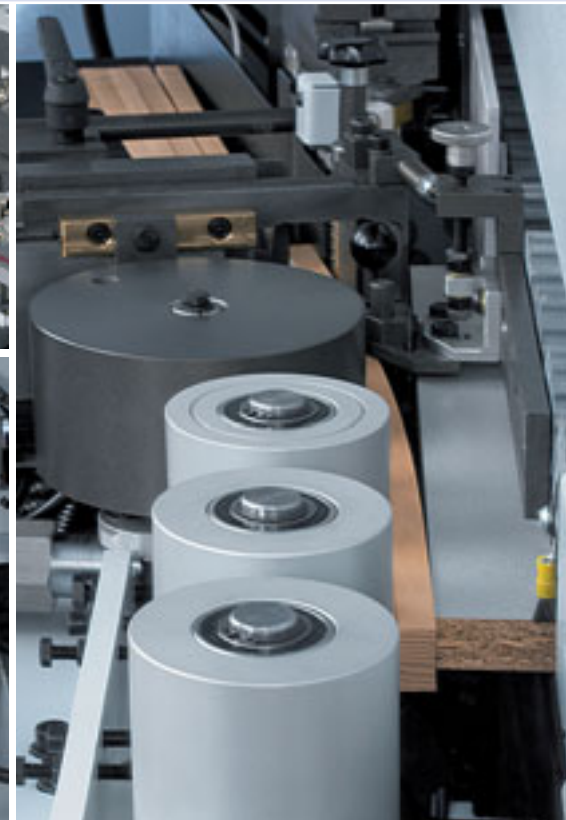
**Rough trimming unit**  
For rough trimming of all common edge banding materials.



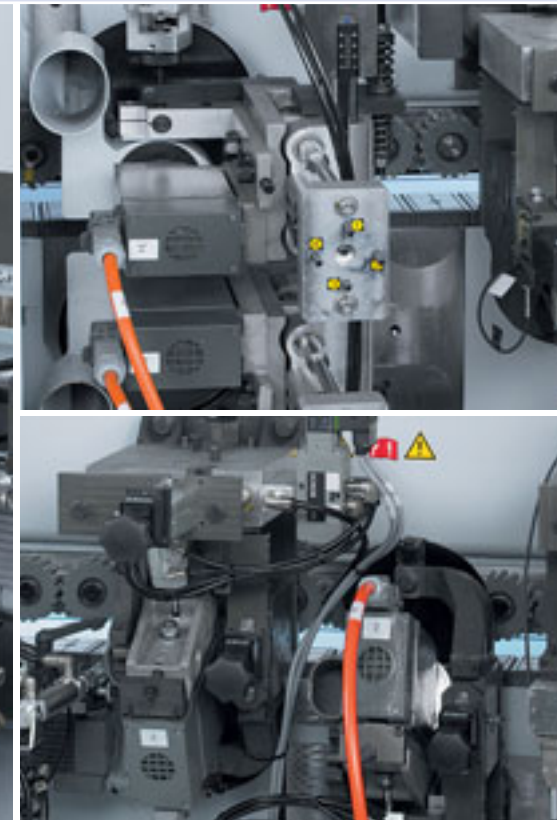
**Radiant heater**  
Strong adhesion through optimal pre heating of the workpiece.



**Magazine + pre-melter (optional)**  
Coil and automatic strip magazine with optical monitoring for reliable material supply, high availability and perfect glue quality via the Quickmelt gluing unit.



**End trimming unit**  
Perfect cutting by the end trimming unit using rigid high-precision linear guides and the workpiece gap optimization (optional) package to achieve higher output in the same processing time. Soft-touch for optimal end trimming results even at high speeds.



**Trimming unit**  
Trimming unit with DFC (Dust Flow Control) tooling technology for optimal extraction. Optional pneumatic or servo axis adjustment available.

**Multistage trimming unit MS 40/45 (optional)**  
Fully automatic adjustment between 3 different profiles by means of servo motors.



# Significant competitive advantages – Pace setting performance and quality



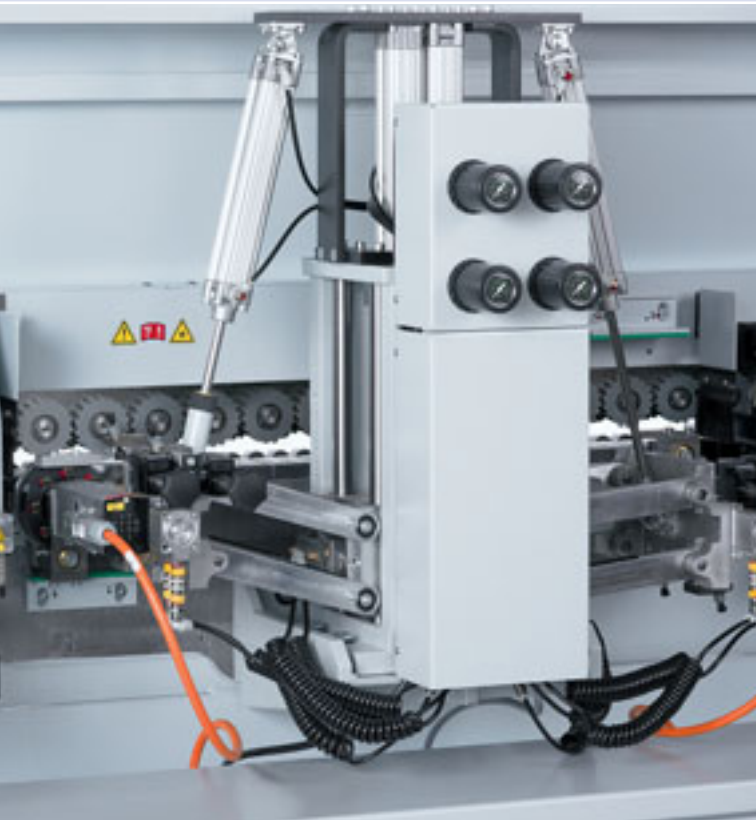
**Central lubrication unit**  
Fully automatic lubrication of the feed track guidance system to guarantee precision and a long-life time of the conveyor chain.



**Nesting package (optional)**  
Includes a multi-roller tracing device for the trimming and scraping units to compensate for hinge holes.



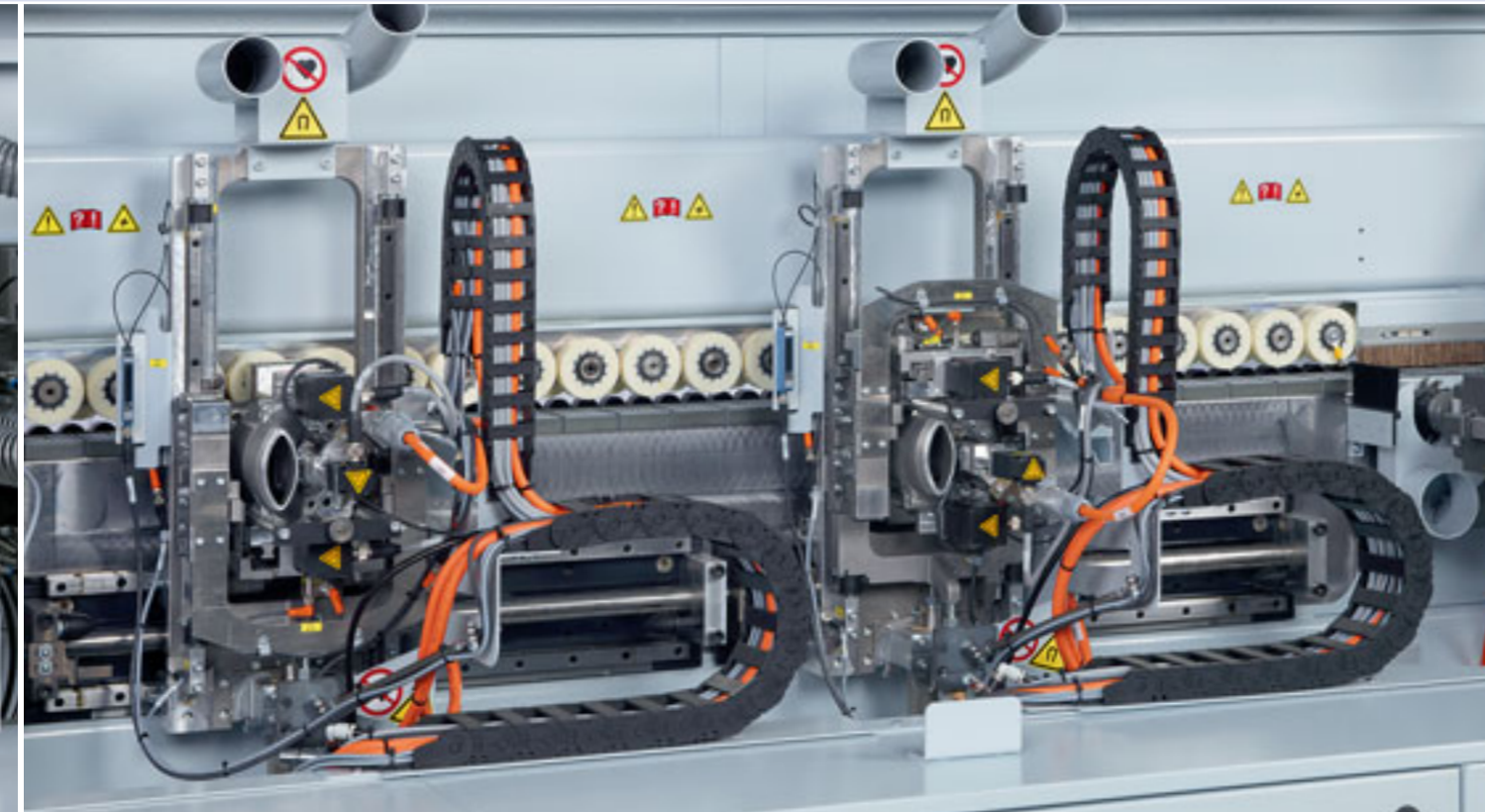
**Tiltable grooving unit**  
For grooving work pieces either from the bottom side or from the edge side. It is possible to do either continuous grooving or non continuous grooving, as well as jump grooving for biscuit joints.



**Corner rounding unit FF 20**  
For corner rounding of thick PVC edges, as well as post-forming and soffforming profiles. Equipped with automatic adjustment between thin and thick edge materials. Workpiece thickness up to 60 mm.



**Multifunctional trimming unit (optional) MF 50**  
Trimming of the edge overhang on top and bottom side as well as contour trimming on the front and rear edges. Equipped with an automatic adjustment to switch between thick and thin edges. Workpiece thickness up to 60 mm.



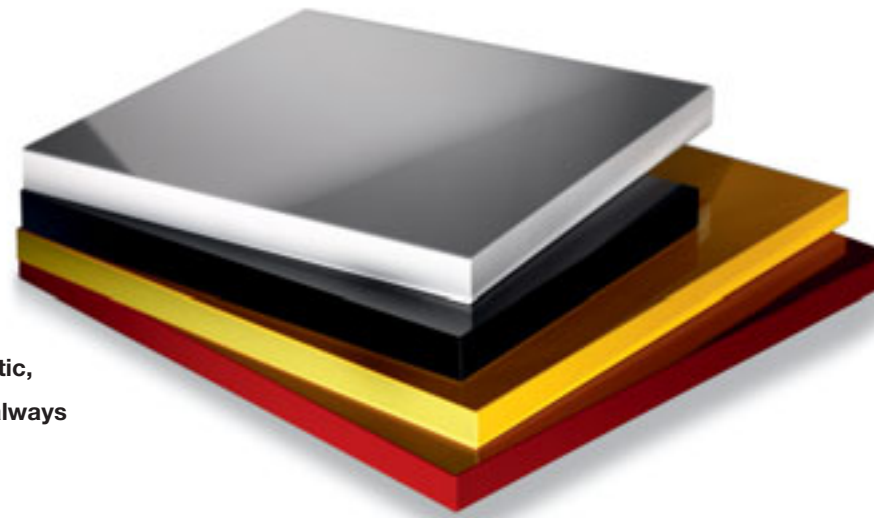
**Multifunctional trimming unit MF 60 Servotrim**  
For processing the edging overhang at the upper and lower edge of the workpiece as well as for corner rounding of the front and rear edge. Servo-controlled movement with soft-touch function for optimal handling of e.g. high gloss surfaces or light weight panels. Workpiece thickness up to 100 mm.



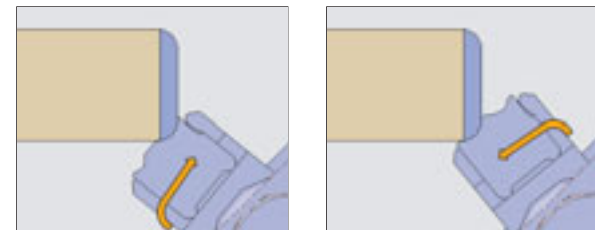


# Multistage technology – flexible reactions for high demands

The spectrum of edge and panel material is growing continuously, which means that the requirements of our customers are increasing, too. No matter what materials you use: plastic, solid wood, veneers and high gloss surfaces. The multistage trimming and scraping units always offer the ideal radius and the best results.



1. Straight      2. Profile 1      3. Profile 2

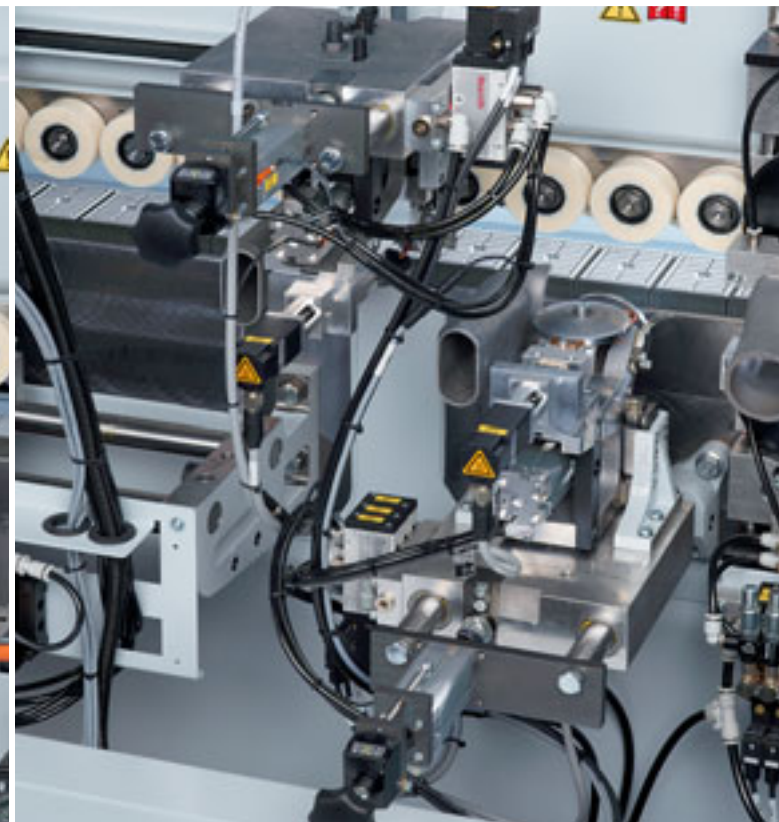
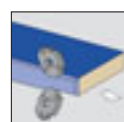


1. Profile 1      2. Profile 2



### Multistage trimming unit MS 40/45 (optional)

Fully automatic adjustment between 3 different profiles by means of servo motors\*.



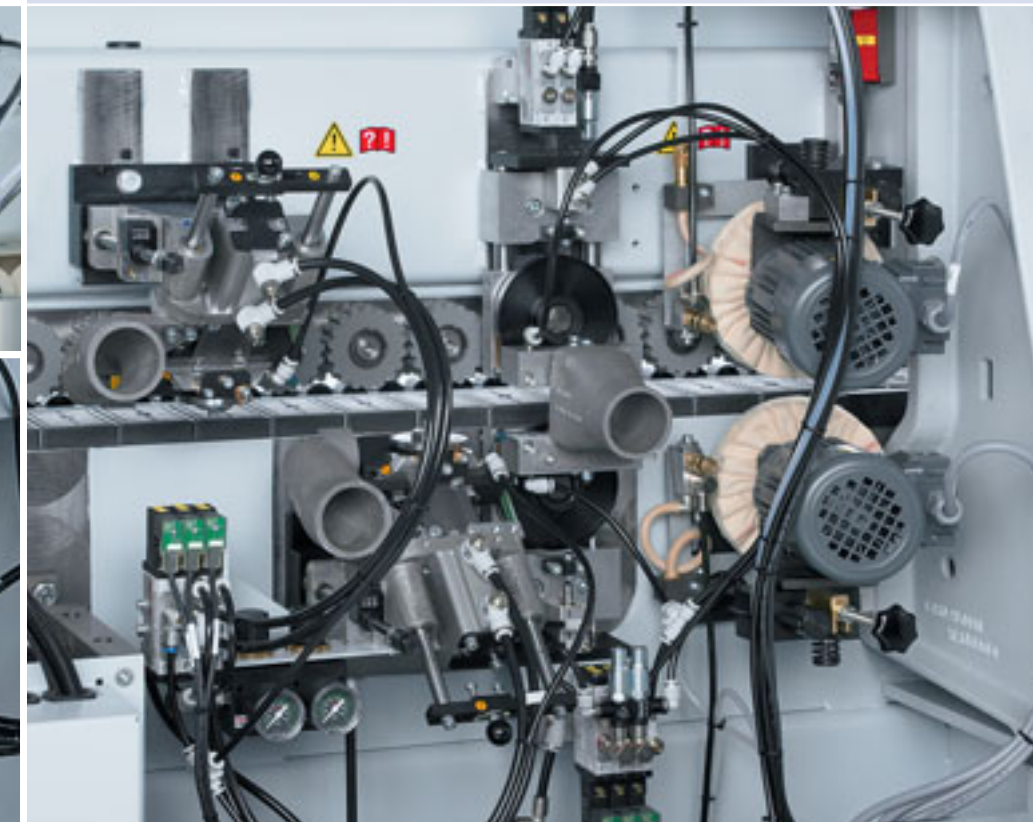
### Multistage scraping unit MZ 40 (optional)

Fully automatic adjustment between 2 different profiles by means of servo motors\*.



### Spraying unit (optional)

Separation and cleaning devices for an optimal processing result with sensitive surfaces.



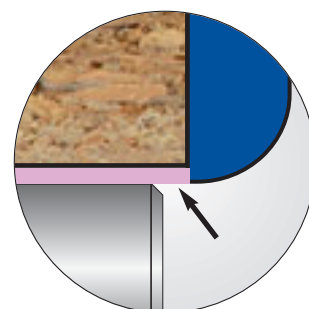
### Profile scraping unit

Unit to smooth radii or chamfers, equipped with quick change heads for fast profile change.



### Glue joint scraping unit (optional)

For the perfect finish.



Optimal positioning for protection foil / peelcoat materials.

### Buffing unit

Buffing unit to polish edges and maintain their natural colour.



\*Servo motors: The servo drive consists of a motor with an infinite adjustment. The result is high performance accuracy, especially in case of short adjusting distances.



# The new gluing generation – glue application as a system

Due to today's variety of products and increasing customer's demands it has become necessary to focus on a future-oriented gluing technique. The new glue application system QA 45 meets all market requirements and offers excellent solutions for a modern interior shop or furniture production companies.

## Application unit QA 45 (optional)

- Special coating of the gluing unit for all types of glue, including PUR in order to meet all customers' requirements.
- Easy and fast change over of different types of glue through an automatic draining system, in order to make use of the ideal glue type or colour based on application.
- The automatic cleaning system is activated by the control, in order to minimize the downtime of the machine.
- Glue amount infinitely adjustable by servo motor in order to achieve a perfect result for most different workpiece materials.

- Glue application in both directions, synchronism and antirotation for a perfect adhesion of different edge materials.

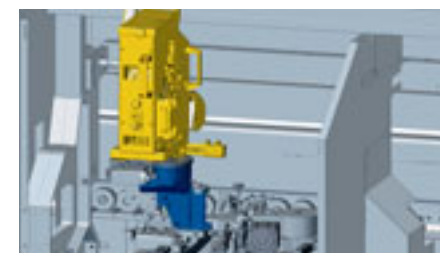
# Technical Data

	Ambition 1650 FC	Ambition 1660 FGC
<b>Machine dimensions</b>		
Machine length (mm)	5760	6260
Working height (mm)	950	
Machine dimensions WxH (mm)	1555 x 2300	
<b>Working dimensions</b>		
Workpiece thickness (mm)	8 - 60 (optional 80)	
Edge material thickness (mm)	0,4 - 12	
<b>Miscellaneous</b>		
Feed speed (m/min)	var. 8 - 18 (optional 8 - 20)	
Weight (kg)	2600	3000
Connected value (kW)	20	24
Extraction diameter (mm)	1x120/2x100	1x120/1x140/1x100
Electrics	400 V - 3 Ph. - 50 Hz.	
Pneumatics (bar)	6	



### QA 45 – Manual

- The application unit is filled by hand either with granulated glue, or with glue slugs
- Flexible application of different hot melt adhesives, like EVA, PU or Polyolefine based glue or different glue colours



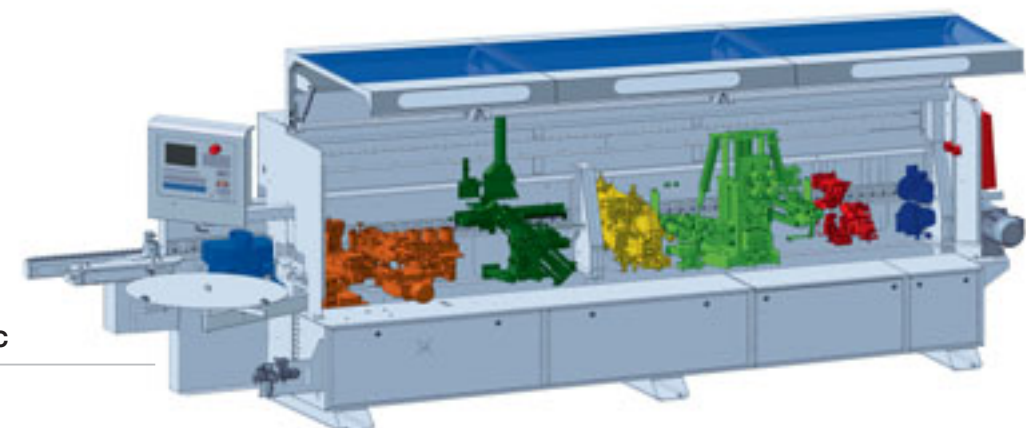
### QA 45 – EVA

- EVA pre-melting unit for hot melt glues
- Filling capacity approx. 4 ltrs. granulated hot melt glue

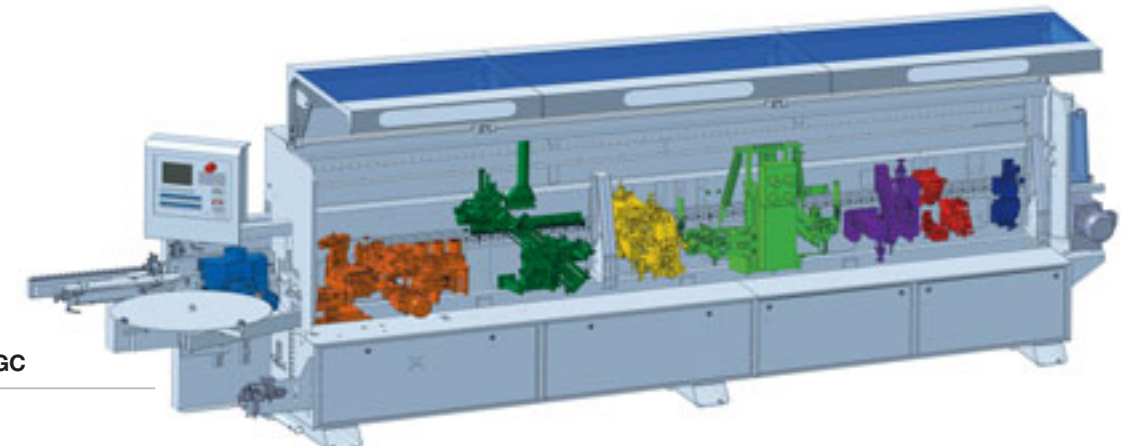


### QA 45 – PU

- PU pre-melting unit
- Chemcoat antioxidation coating of the glue melting container.
- Container size: 2 kg slugs



Ambition 1650 FC



Ambition 1660 FGC



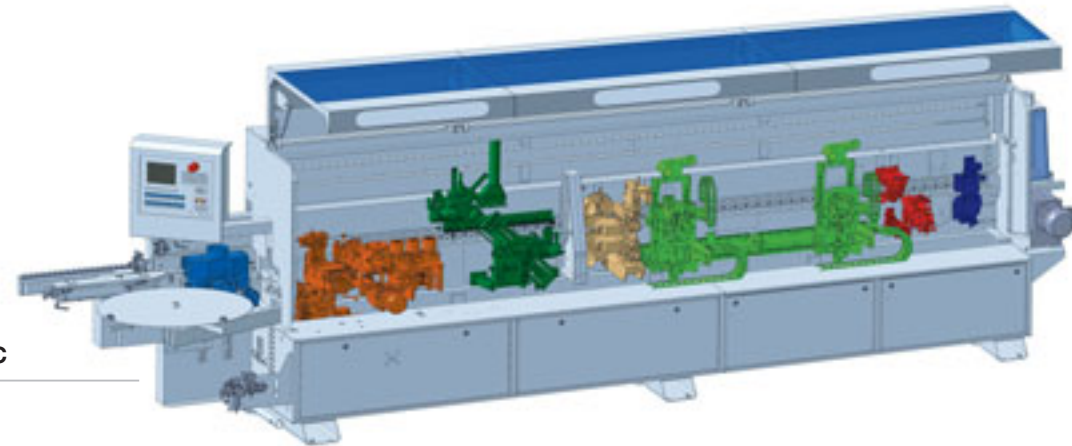
# Technical Data

Type of machine	Ambition 1660 FSC	Ambition 1670 FSCG
<b>Machine dimensions</b>		
Machine length (mm)	6260	6760
Working height (mm)	950	
Machine dimensions WxH (mm)	1555 x 2300	
<b>Working dimensions</b>		
Workpiece thickness (mm)	8 - 60 (optional 80)	
Edge material thickness (mm)	0,4 - 12	
<b>Miscellaneous</b>		
Feed speed (m/min)	var. 8 - 18 (optional 8 - 20)	
Weight (kg)	3000	3400
Connected value (kW)	24	26
Extraction diameter (mm)	1x120/1x160/1x100	1x120/1x200/1x100
Electrics	400 V - 3 Ph. - 50 Hz.	
Pneumatics (bar)	6	

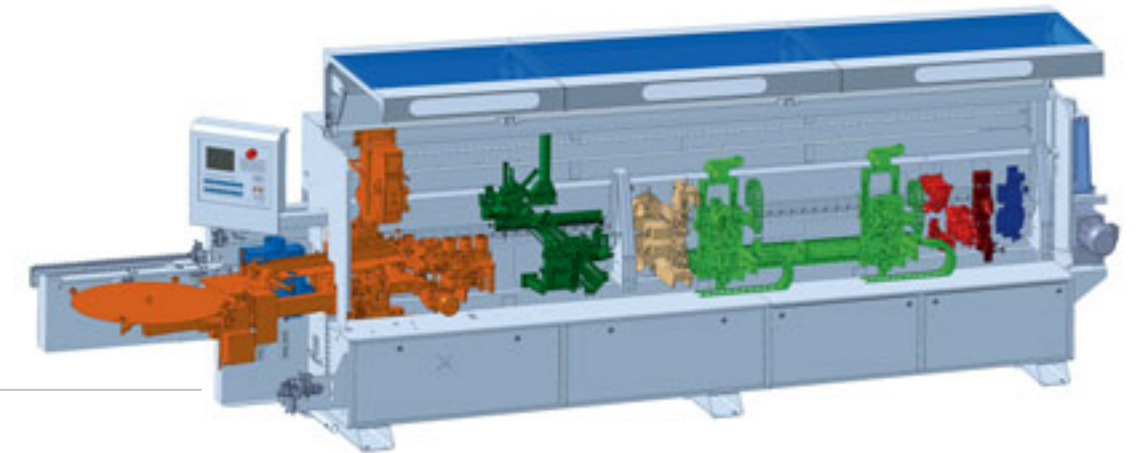
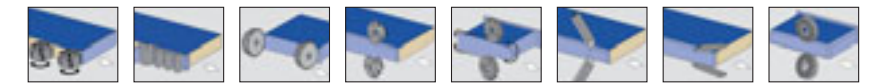
# KDF 660 edition The powerful compact class

Type of machine	KDF 660 edition
<b>Machine dimensions</b>	
Machine length (mm)	6260
Working height (mm)	950
Machine dimensions WxH (mm)	1555 x 2300
<b>Working dimensions</b>	
Workpiece thickness (mm)	8 - 60 (optional 80)
Edge material thickness (mm)	0,4 - 12
<b>Miscellaneous</b>	
Feed speed (m/min)	8 - 18
Weight (kg)	3000
Connected value (kW)	33
Extraction diameter (mm)	1x120/1x160/1x100
Electrics	400 V - 3 Ph - 50 Hz
Pneumatics (bar)	8

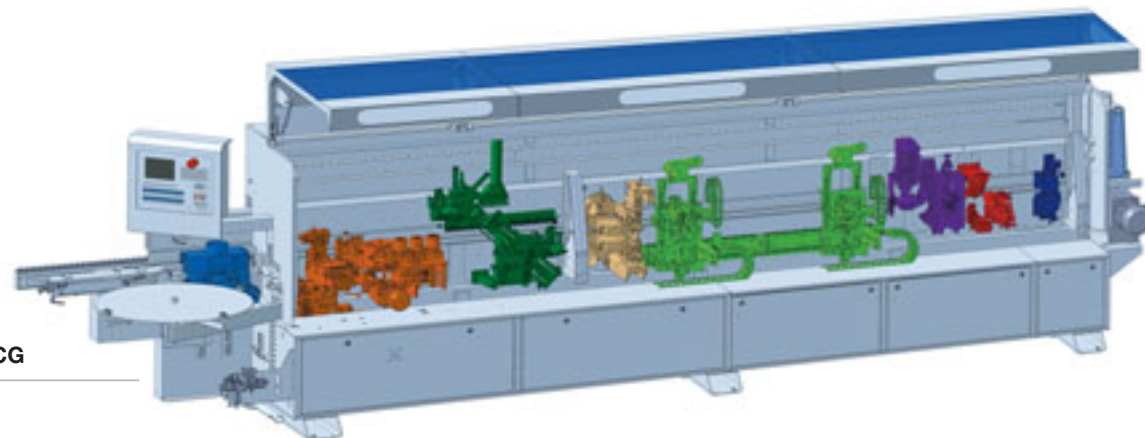
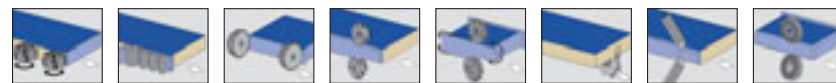
All rights for technical changes withheld. Individual machine pictures may show options.



Ambition 1660 FSC



KDF 660 edition



Ambition 1670 FSCG



# BOOMERANG® return systems ZHR 01 and ZHR 05: Higher productivity for your BRANDT Edge Bander



As an indispensable assistant the return system renders your BRANDT Ambition even more economic. With the one-man-operation you optimize the workpiece return and allow a lean and efficient production process. Depending on the requirements you can combine your BRANDT machine of the Ambition 1600 series with a ZHR 01 or ZHR 05 model.



## BOOMERANG® ZHR 01

The starter model for comfortable transport technology, especially for the craft sector.

**By the way:**  
The BOOMERANG® already pays off within one year, in fact starting from an operation of 9 hours per week!



### Belt cleaning

For optimal protection against dust and chips.



### CE Package (option)

Safety engineering equipment for the protection of the employees.



### Sensor-controlled pivot pins (option, ZHR 01)

For easier rotation of short and narrow workpieces.



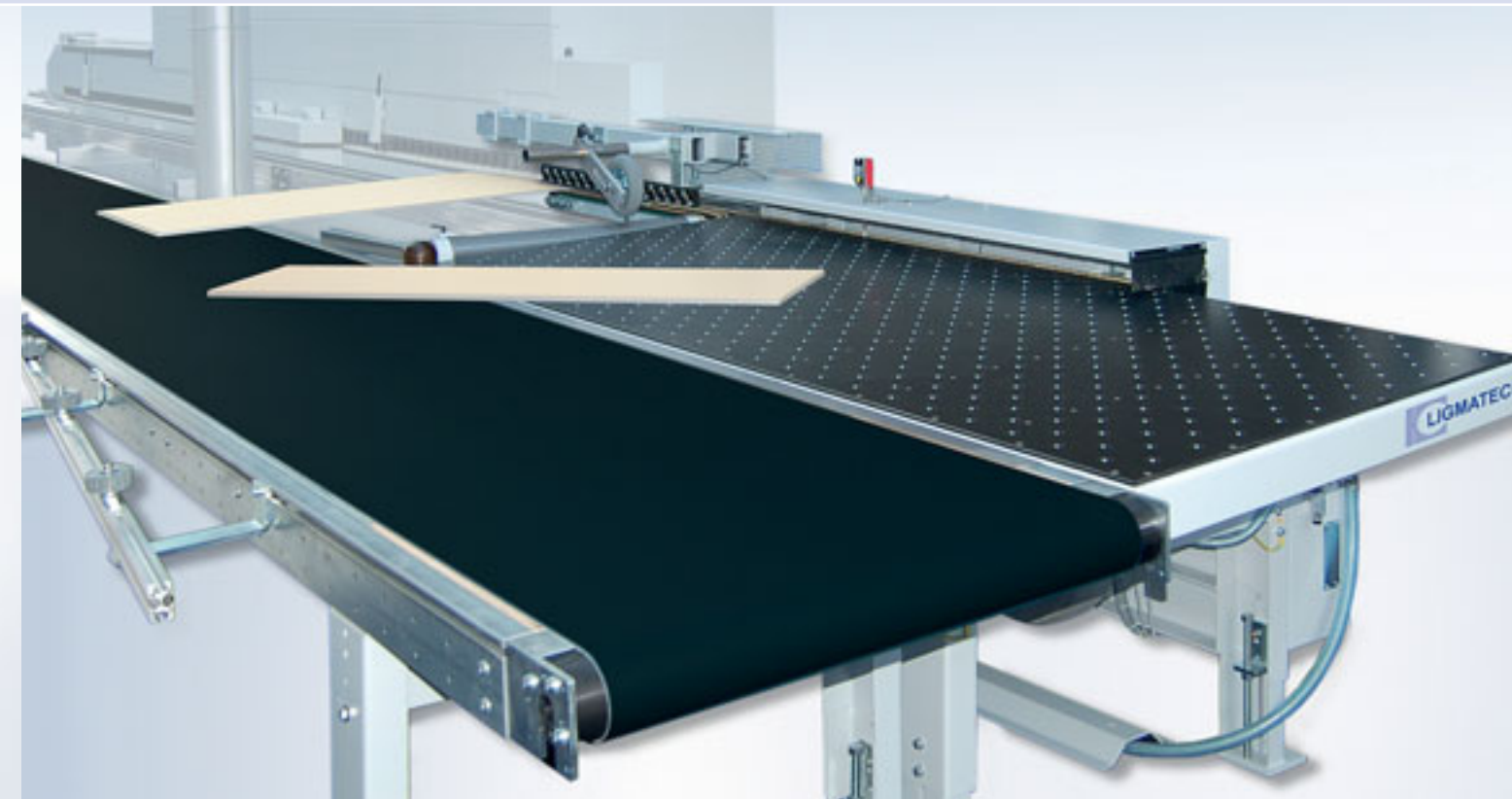
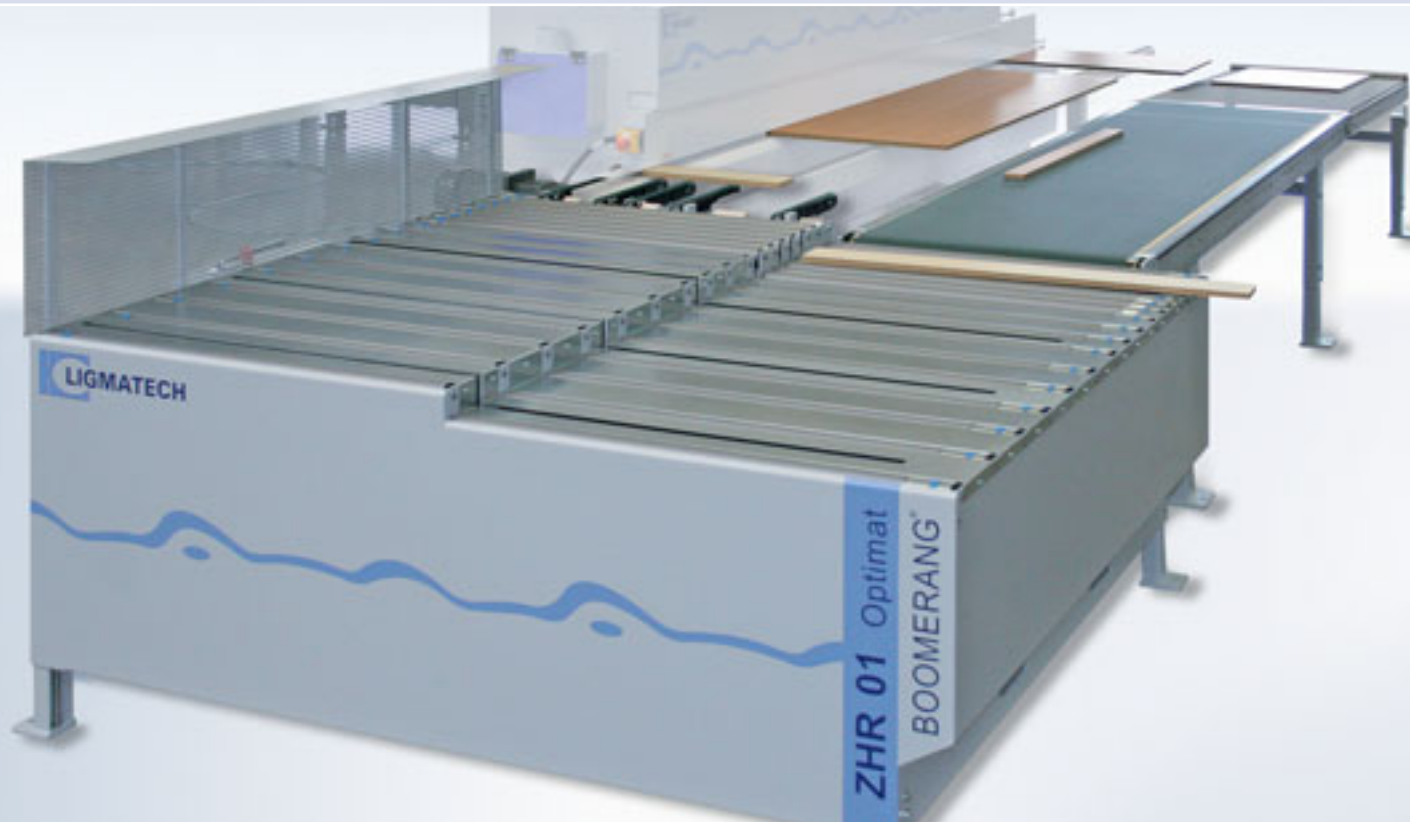
### Air-cushioned table with stroke (option, ZHR 05)

At the outfeed of the return system for ergonomic workpiece handling.



## BOOMERANG® ZHR 05

The all-rounder among the return systems, for higher demands and a larger workpiece variety.



### Your advantages:

- Practice-oriented workpiece range
- Specially suitable for small, narrow and medium-sized workpieces
- Space-saving compact construction
- Ergonomic workpiece handling
- Easy operation

	ZHR 01
Workpiece length	300 - 2500 mm
Workpiece width	50 - 1450 mm
Workpiece thickness	8 - 60 mm
4-sided processing*	
min. workpiece dimension	300 x 300 mm
max. workpiece dimension	1450 x 1450 mm
Workpiece weight	
Workpiece length ≤ 700 mm	max. 30 kg
Workpiece length > 700 mm	max. 50 kg
Surface weight	max. 25 kg/m <sup>2</sup>
Feed speed	8 - 25 m/min

\*Larger workpieces can be returned or fed out for 4-sided processing with manual assistance for the transverse offset and turning.

	ZHR 05
Lengthwise processing:	
Workpiece length	300 - 2500 mm
Workpiece width	60 - 800 mm
Crosswise processing:	
Workpiece length	300 - 800 mm
Workpiece width	> 800 - 2000 mm
Workpiece thickness	8 - 60 mm
4-sided processing*	
min. workpiece dimension	300 x 300 mm
max. workpiece dimension	2000 x 800 mm
Workpiece weight	max. 50 kg
Surface weight	max. 25 kg/m <sup>2</sup>
Feed speed	8 - 30 m/min

\*Larger workpieces can be returned or fed out for 4-sided processing with manual assistance for the transverse offset and turning.

### Your advantages:

- Large workpiece range
- High capacity with small workpiece distances
- Rubber-covered starting roller with air-cushioned table for gentle workpiece transport
- Ergonomic workpiece handling
- Easy operation