

As of now with BOOMERANG®  
return systems, starting on page 18

# Edge banding machines Ambition 1870 - 1880 KDF 860 edition



# 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.



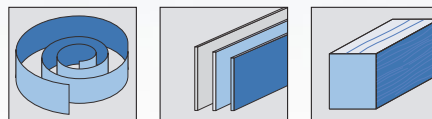
# BRANDT

## Perfect edges for demanding customers

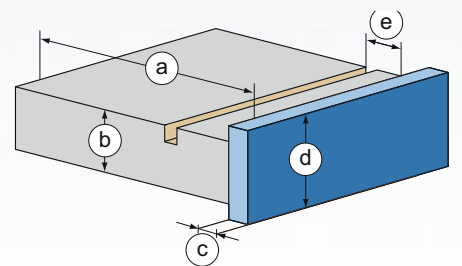
We offer our customers innovative and powerful edge banding machines. Efficiency and quality have the highest priority, and ensure long-term competitive advantages for you. With an annual production of over 2000 edge banding machines, we are the edge banding specialist in the HOMAG Group and the world 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 (option 20)		
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 1870 FSC - 1880 FSCU

## Uncompromising performance every time

**The Ambition 1800 series offers a service portfolio that is ordinarily only seen in industrial edgebanders. The standard version is equipped with a joint trimming unit, a precision gluing unit, a tiltable end trimming unit, a top/bottom trimming unit and a four motor contour trimming unit. A perfect finish is guaranteed by the radius scraper and a buffing unit.**

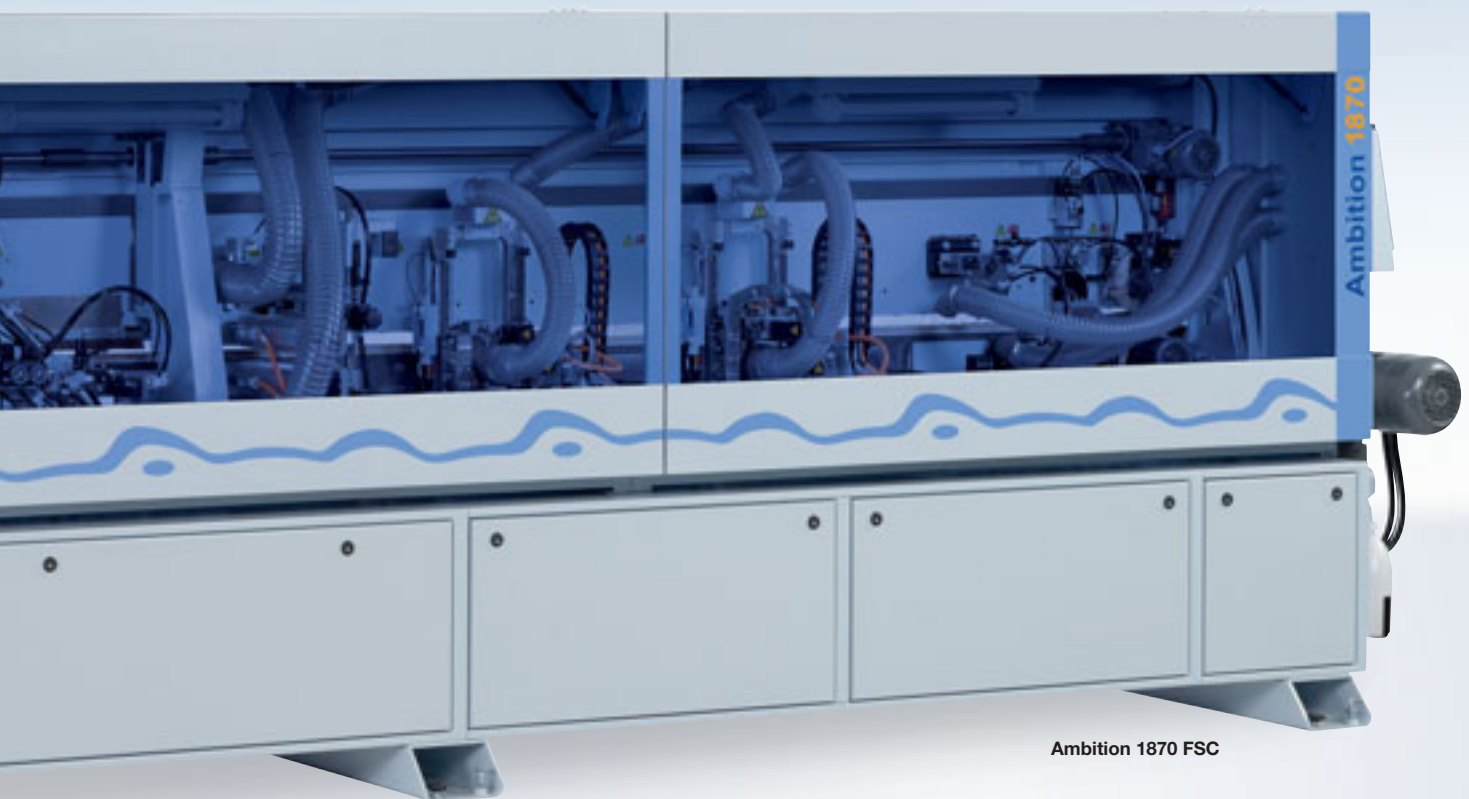
On-demand availability and a perfect glue line are guaranteed by the Quick-melt gluing unit which is standard on all machines in this series. Uncompromising performance is achieved via standard workpiece gap optimization, a rough trimming unit for heavy

trimming, a tiltable grooving unit and a glue joint scraper, plus variable feed speed of 8-20 m/min. The universal trimming unit guarantees an excellent and all-purpose performance of the grooving and profiling stations.



## The right solution for your requirements

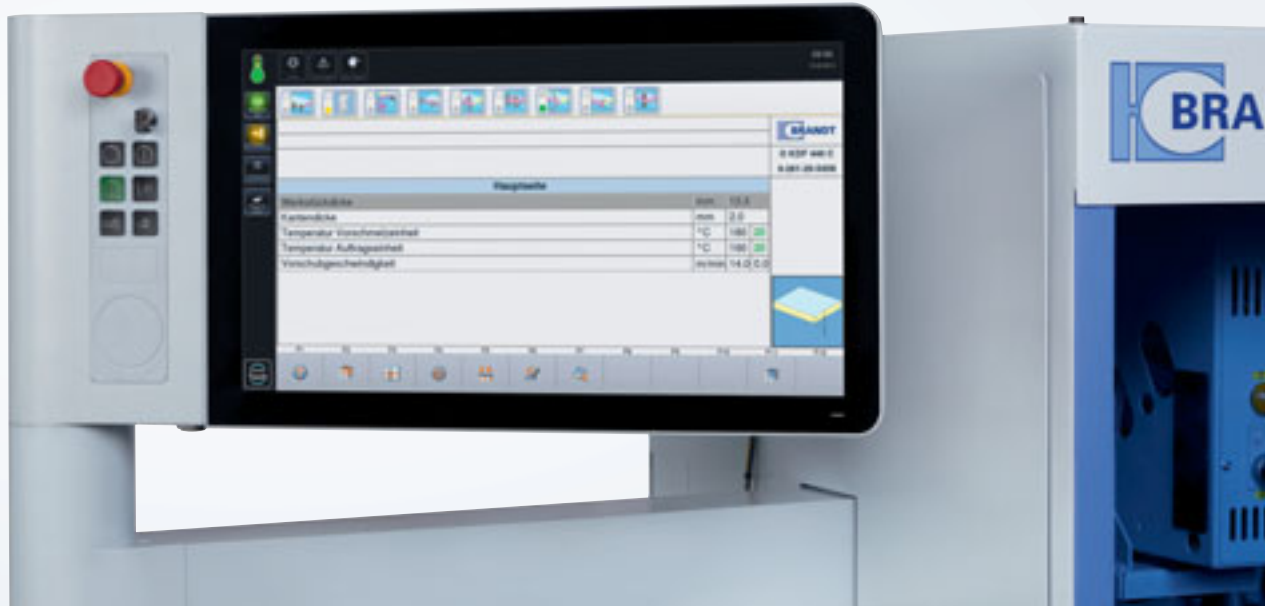
The Ambition 1800 series machine leaves nothing lacking. Whether your needs are "batch size one" production, for demanding bespoke shop fitting applications, living & bedroom furniture or functional office furniture, the Ambition 1800 Series always offers the right solution for your requirements.



Ambition 1870 FSC



# 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)"

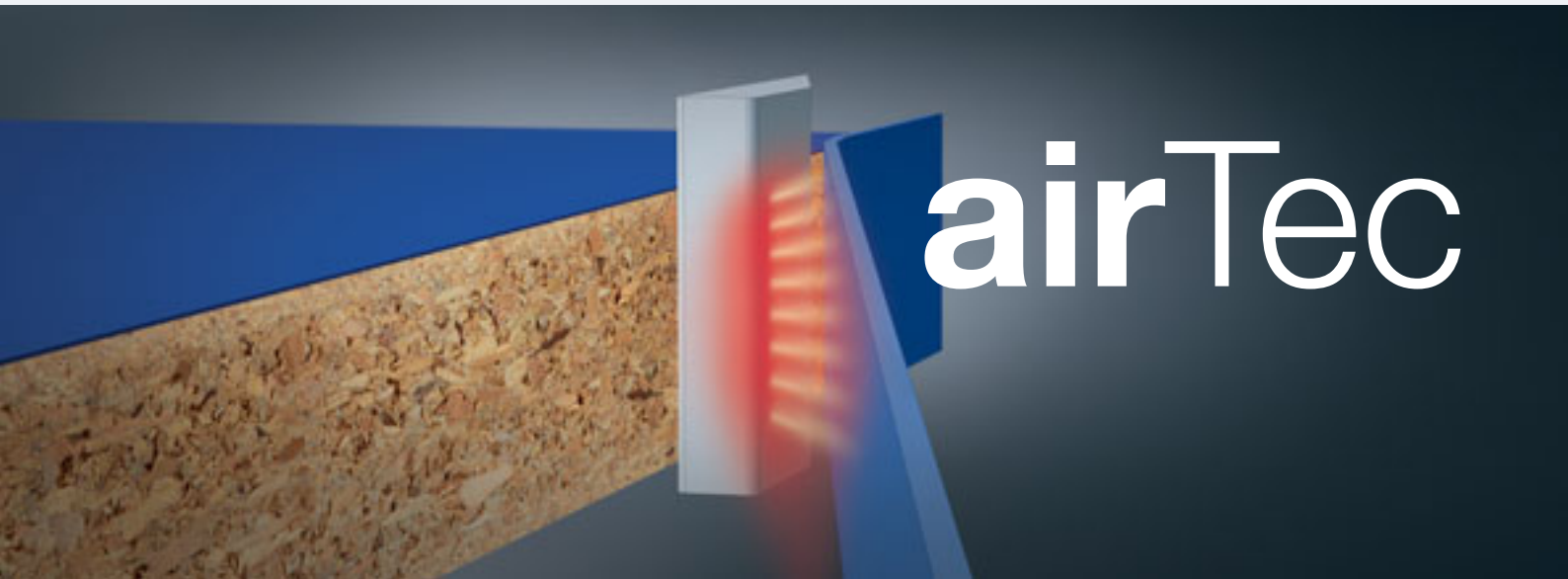


### **Teleservice reduces field service work operations**

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

# airTec - Reactivation unit

## Zero joint technology for highest demands



The **airTec – reactivation unit (optional)** guarantees optimal zero joints and is an industrial- and craft-oriented solution. To achieve a zero joint finish, the function layer on the edging material is reactivated by compressed hot air, providing seamless adhesion.



Unit for the activation of the functional layer on edge material, for a workpiece thickness from 8 - 40 mm. The **airTec** reactivation unit is installed in such a manner that you can work either with the standard glue application unit or with the airTec system. **airTec** can be used to process all types of currently popular, laser suitable edging types.

- Installation ex factory with complete integration into the control
- Temperature and pressure adjustable via control
- Process-specific parameters can be assigned to the corresponding programs and stored
- Indication of set and actual temperature
- The actual air consumption value depends on panel length and the gaps between the workpieces.



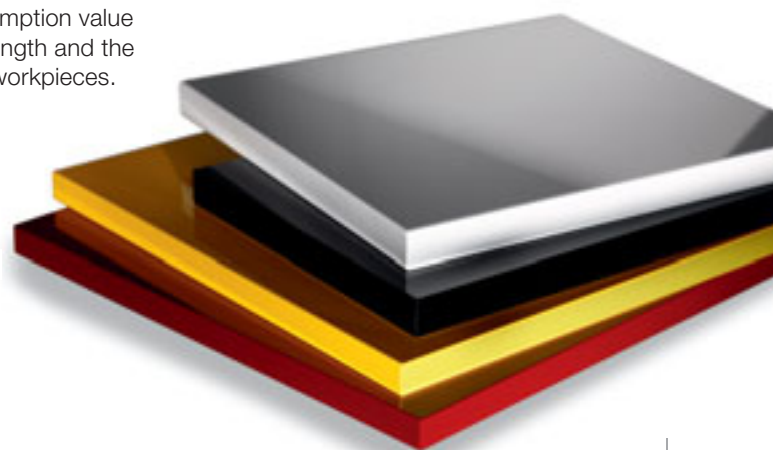
### Spraying unit - standard

The spray unit for Antistatic solvent is included in the **airTec – reactivation unit**, to achieve a perfect finish.

### Easy integration into the magazine

	Activation unit AT15	Activation unit AT20
Feed speed max.	15 m/min	20 m/min
Workpiece thickness	8 - 40 mm	
Operating pressure	4 - 6 bar	4 - 7 bar
Air consumption	250 - 1.400 N/min.	

\*The following requirements must be provided by the customer:  
 - Compressed air supply 8 bars - 1 inch supply line - 1500 NI/min.



# Significant competitive advantages – Pace setting performance and quality



## Infeed stop

For minimum workpiece spacing and safe operation.



## Joint trimming unit

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

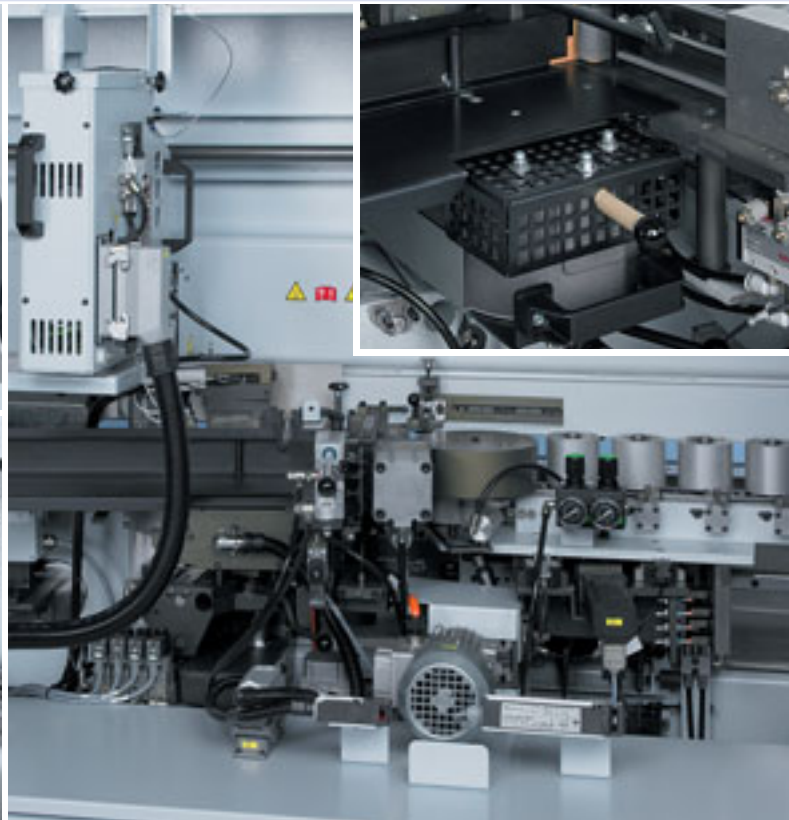
## Standard Gluing Unit

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



## Radiant heater

Strong adhesion through optimal pre heating of the workpiece.



## Magazine + pre-melter

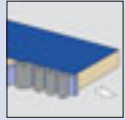
Coil and automatic strip magazine with optical monitoring for reliable material supply, high availability and perfect glue quality via the Quickmelt gluing unit.





**Extra wide magazine (optional)**

Extra wide magazine with high capacity for fixed length strips and optimum access to reload.



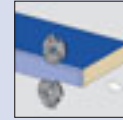
**Pressure zone**

Heavy pressure zone (up to 20 mm) to ensure an optimum glue joint quality.



**V-belt top pressure (optional)**

Top pressure V-belt system optionally available instead of the standard top pressure roller system.



**Rough trimming unit**

For rough trimming of all common edge banding materials.



**End trimming unit**

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

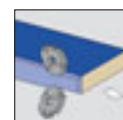


**Trimming unit**

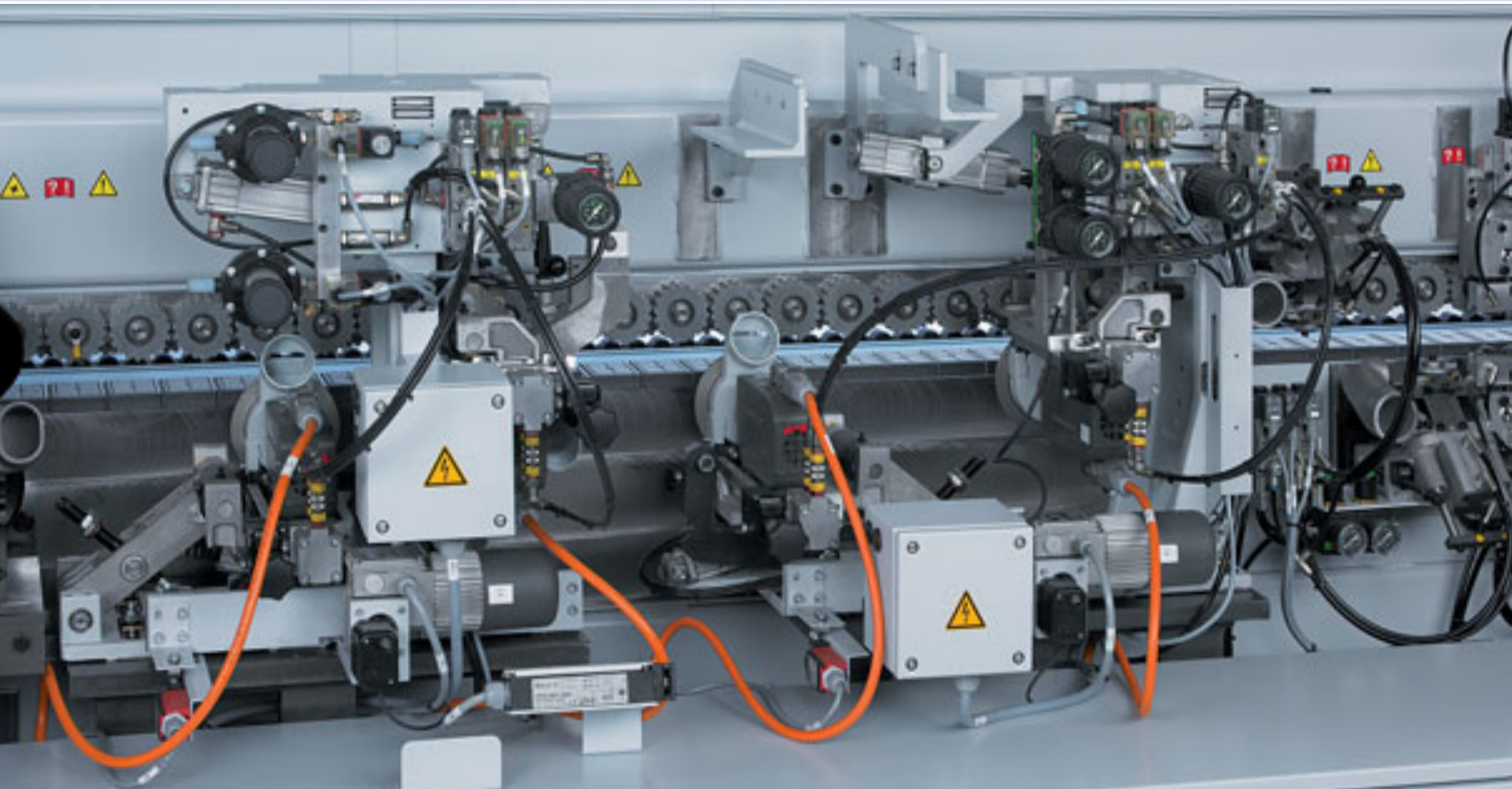
Trimming unit with DFC (Dust Flow Control) tooling technology for optimal extraction. Optional pneumatic or servo axis adjustment available.

**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



## **Corner rounding unit FF 12 (4 motors)**

For corner rounding of thick PVC edges, as well as postforming and softforming profiles at feed speeds of up to 20 m/min. Equipped with servo motor adjustment for different edge thicknesses. Workpiece thickness up to 60 mm.





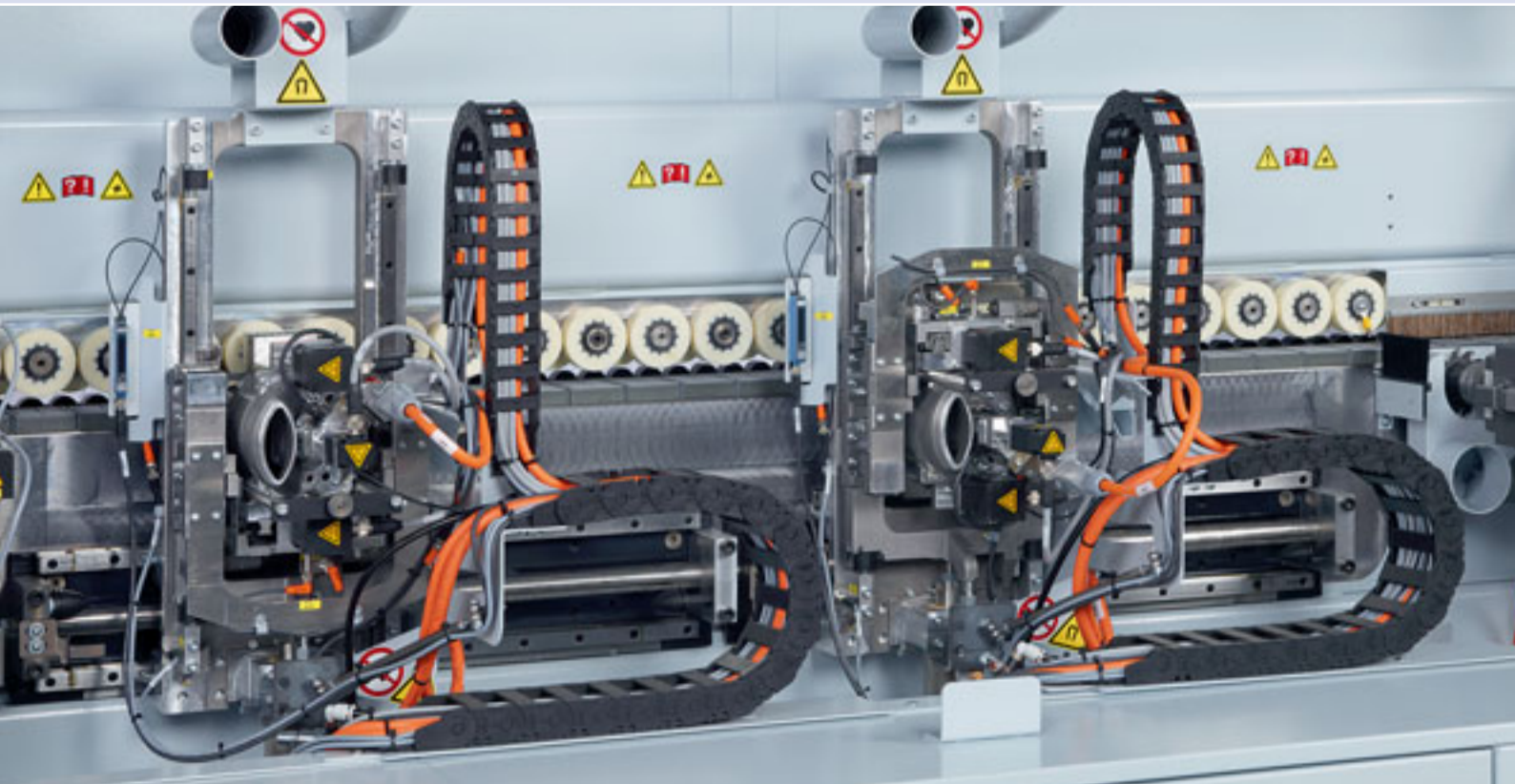
**Central lubrication unit**

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.

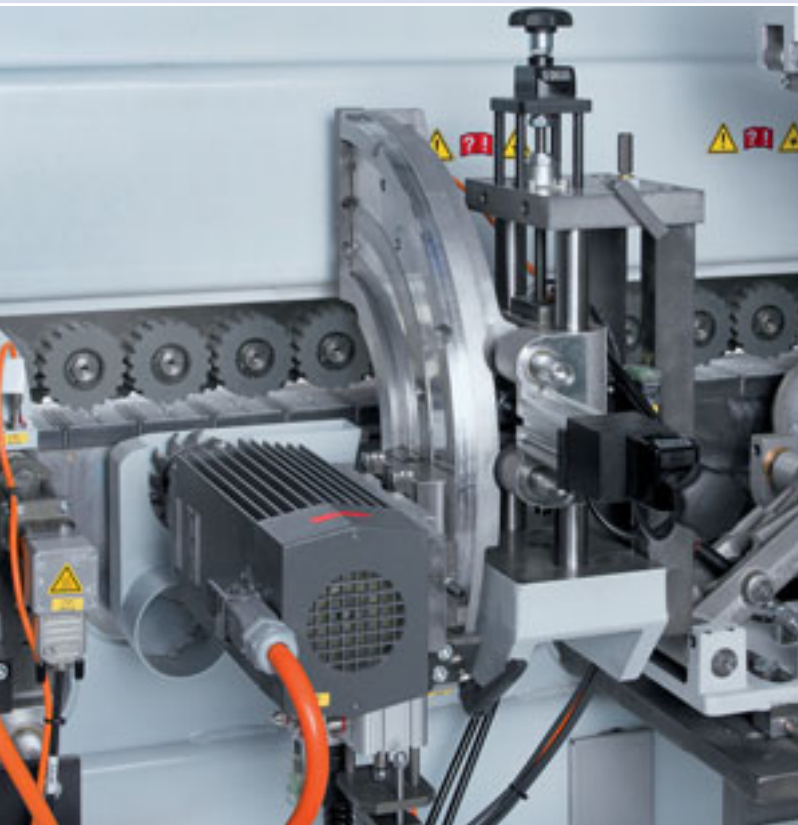


**Multifunctional trimming unit MF 60 Servotrim**

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.



# Significant competitive advantages – Pace setting performance and quality



## 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.



## Universal trimming unit

Universal unit with high capacity for grooving and profiling work. Flexible by unlimited setting options.



# 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.

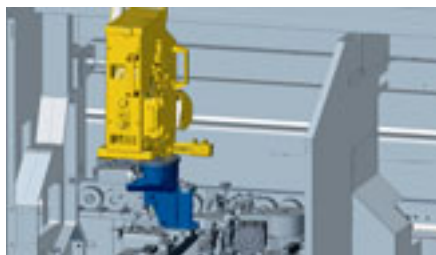
## Application unit QA 45 (optional)

- 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.



### 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



# KDF 860 edition – Multistage technology as standard. Flexible reactions for high demands

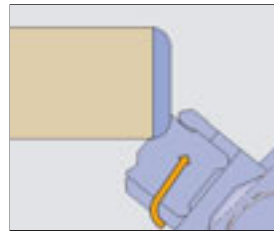
The spectrum of edge and panel material is growing continuously, which means that the requirements of our customers are increasing, too. No matter what materials you use: plastic, solid wood, veneers and high gloss surfaces. The multistage trimming and scraping units always offer the ideal radius and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



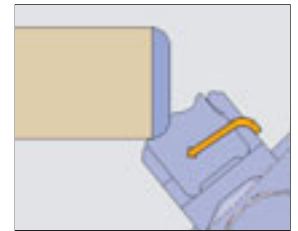
1. Straight

2. Profile 1

3. Profile 2



1. Profile 1

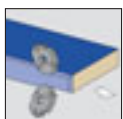


2. Profile 2



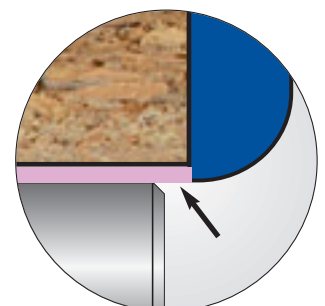
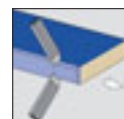
## Multistage trimming unit MS 40/45 (optional)

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\*.



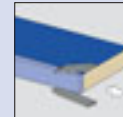
**Optimal positioning for protection foil / peelcoat materials.**

\***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.



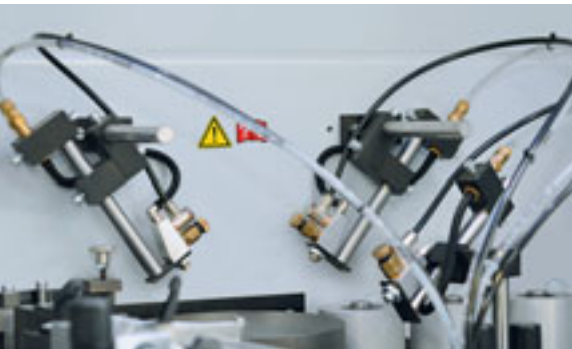
V-belt top pressure as standard

# Significant competitive advantages – Pace setting performance and quality



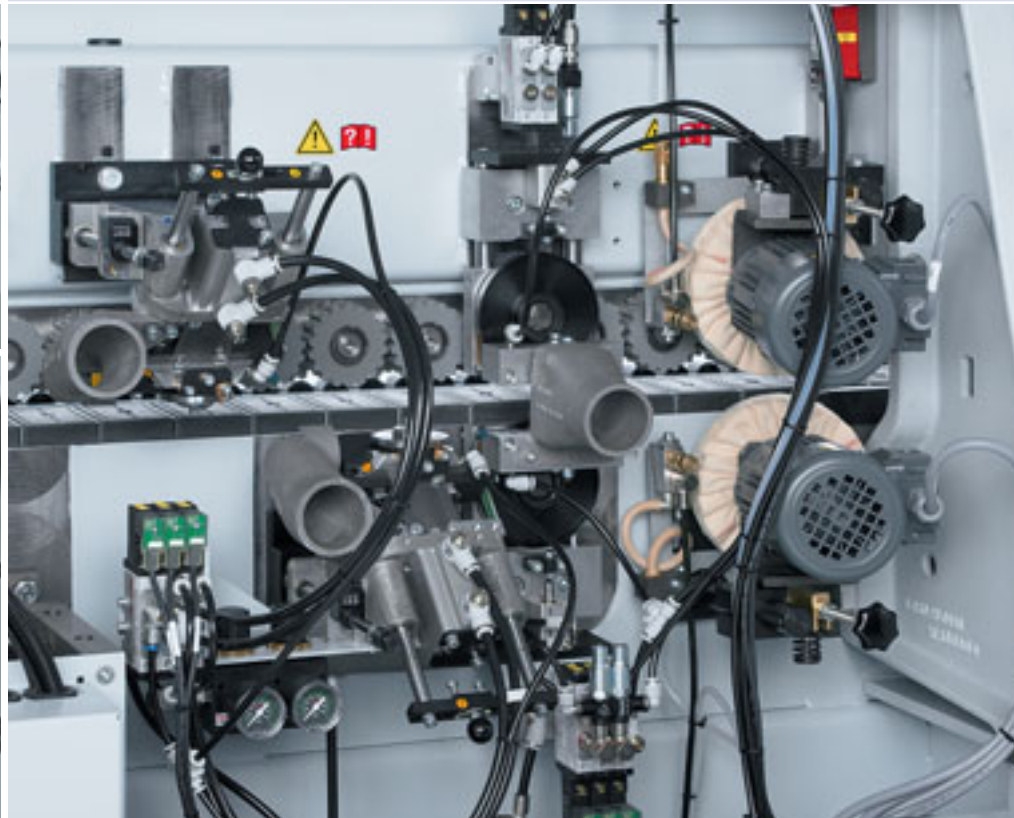
Glue joint scraping unit (optional)

For the perfect finish.



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.



Buffing unit

Buffing unit to polish edges and maintain their natural colour.

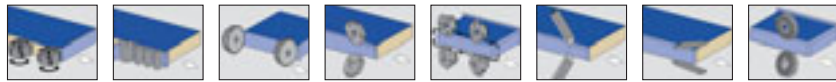


# Technical data

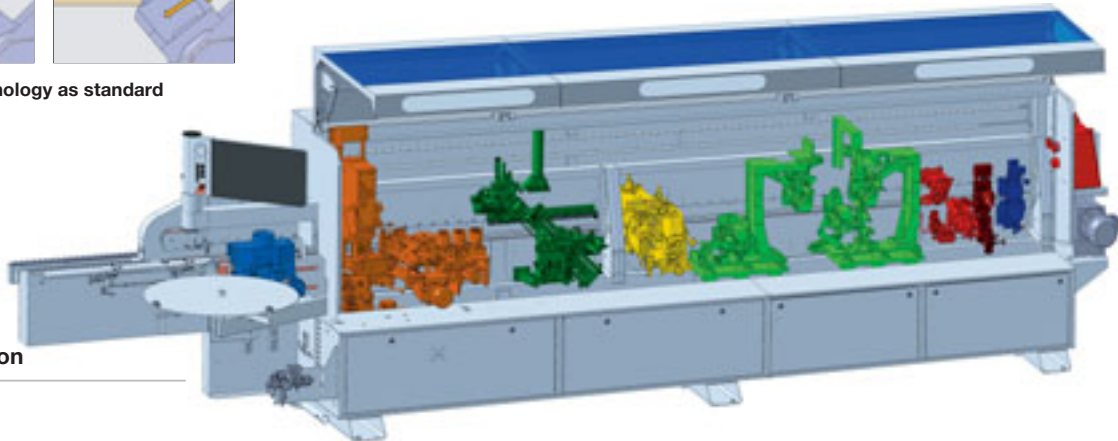
Type of machine	KDF 860 edition	Ambition 1870 FSC
	<b>Machine dimensions</b>	
Machine length (mm)	6560	6760
Working height (mm)	950	
Machine dimensions WxH (mm)	1555 x 2300	
	<b>Working dimensions</b>	
Workpiece thickness (mm)	8 - 60 (optional 80)	
Edge material thickness (mm)	0,4 - 12	0,4 - 12 (optional 20)
	<b>Miscellaneous</b>	
Feed speed (m/min)	var. 8 - 20	
Weight (kg)	3000	3400
Connected value (kW)	22	23
Extraction diameter (mm)	1x120/1x180/1x100	1x120/1x160/1x100
Electrics	400 V - 3 Ph. - 50 Hz.	
Pneumatics (bar)	6	



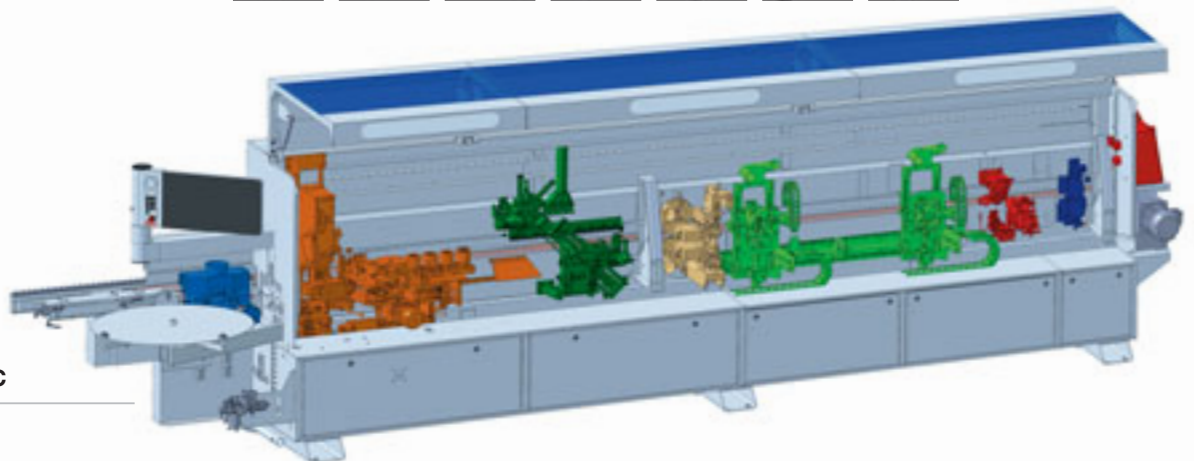
Multistage technology as standard



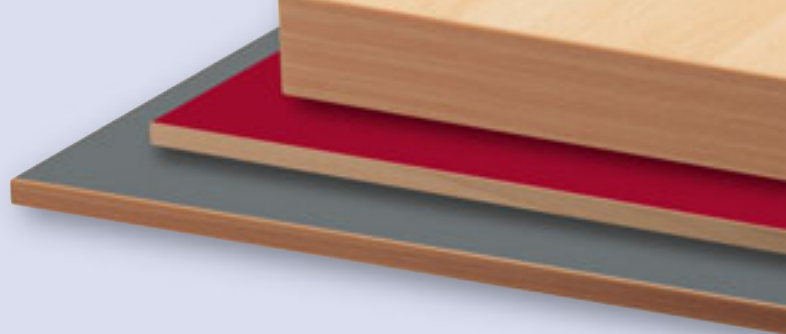
KDF 860 edition



Ambition 1870 FSC

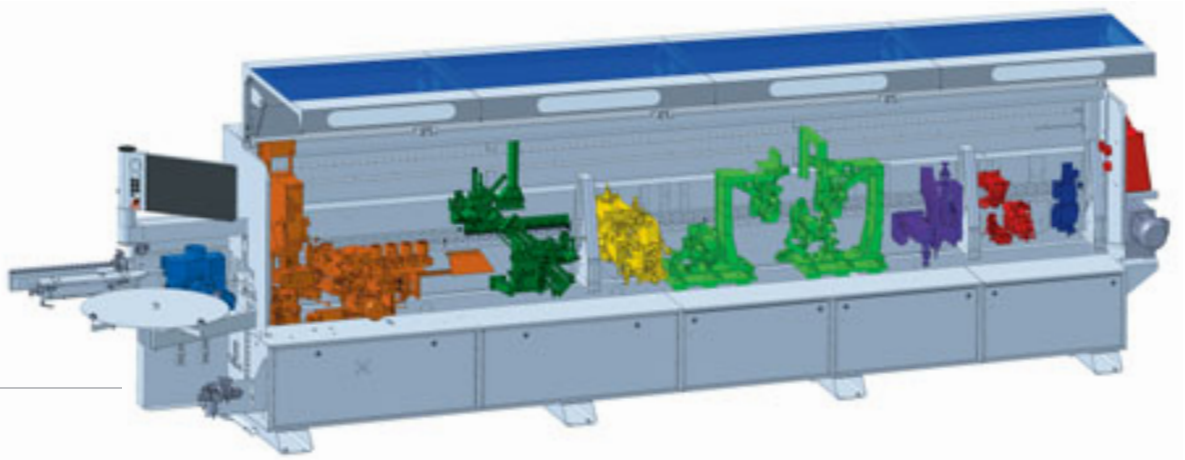
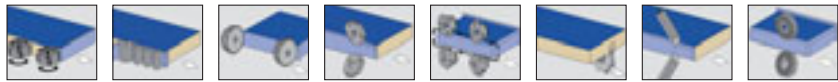




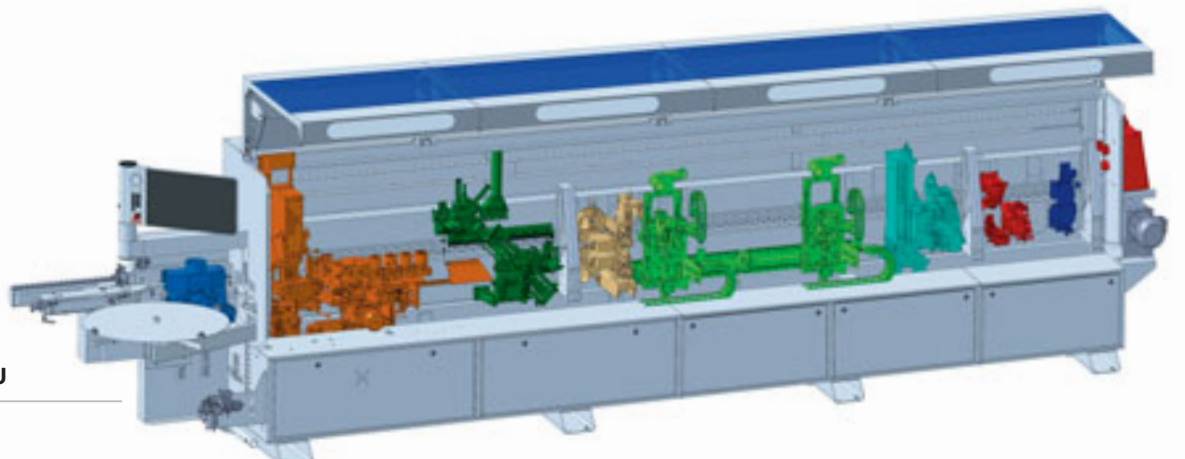


Type of machine	Ambition 1880 FGC	Ambition 1880 FSCU
	<b>Machine dimensions</b>	
Machine length (mm)	7760	7760
Working height (mm)	950	
Machine dimensions WxH (mm)	1555 x 2300	
	<b>Working dimensions</b>	
Workpiece thickness (mm)	8 - 60 (optional 80)	
Edge material thickness (mm)	0,4 - 12	0,4 - 12 (optional 20)
	<b>Miscellaneous</b>	
Feed speed (m/min)	var. 8 - 20	
Weight (kg)	3600	3600
Connected value (kW)	27	28
Extraction diameter (mm)	1x120/1x200/1x100	1x120/1x200/1x100
Electrics	400 V - 3 Ph. - 50 Hz.	
Pneumatics (bar)	6	

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



**Ambition 1880 FGC**



**Ambition 1880 FSCU**