



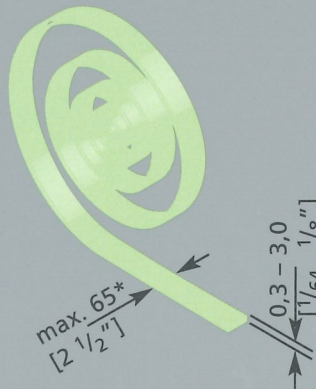
***Advantage*** 700

**Details** ❖❖❖

ENGLISH



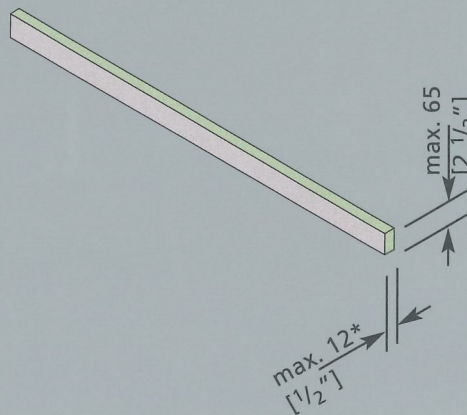
**EDGING MATERIAL:  
COILS**



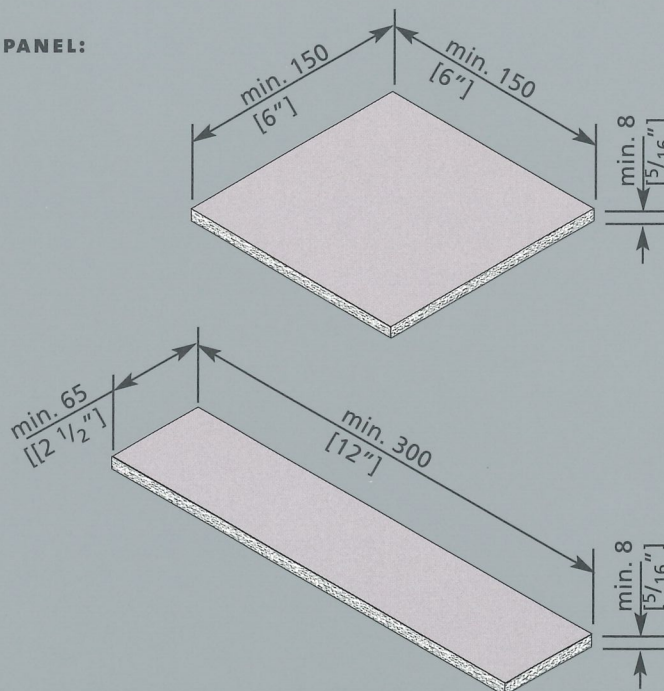
Dimensions in millimetre  
[inch].

\* [max. cross section 130 mm<sup>2</sup>]

**EDGING MATERIAL:  
SOLID WOOD LIPPINGS**



**SMALLEST PANEL:**



All equipment offered is made to metric standards. Dimensions shown in English measure are approximate and for comparison purposes only.

# straight edge

coil material up to 3 mm  
solid wood lippings up to  
12 mm thickness

**Advantage 700** – the compact solution for high-quality edge banding in throughfeed operation.

With the high-performance and user-friendly Advantage 700 IMA offers an economical and reliable solution for panel processing with edges up to 3 mm [1/8"] and solid wood lippings up to 12 mm [1/2"] thickness.

- Simple one-man operation with automation of essential functions,
- comfortable touch-screen control,
- quick change of work order,
- proven IMA precision work units to process thin and thick high-quality edges, as well as solid wood lippings,
- trend-setting design,
- exceptional flexibility in processing almost any edging profile and material

These characteristics make **Advantage 700** an allround-talent, convincing professional users in this field of production.

Advantage 700 requires a minimal floor space of just approx. 14 sqm [150 sq/ft] with a feed speed rate of 20 m/min. [65 ft/min.] for both processing options – longitudinal and transverse. It can either be equipped with smoothing, sanding or grooving unit.

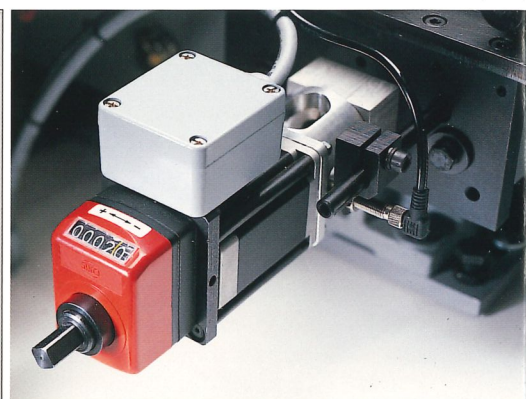
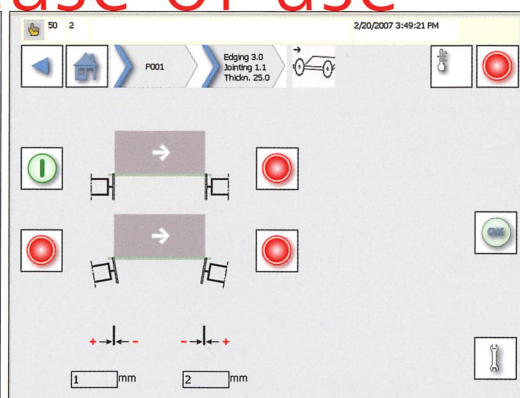
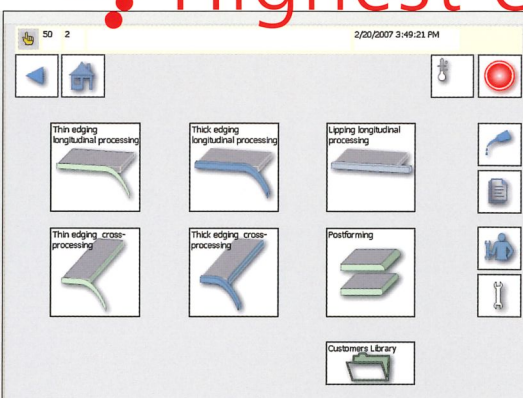
**Advantage 700** stands for innovative and user-friendly edge banding engineering for standardised production with consistent panel and edge quality, even for multiple shift operation.

With **Advantage 700** IMA emphasises the long lasting know-how in high-performance production technology with highest ease of use.

### The control panel with touch screen for machine control by finger tip

The new *ICOS TS operator panel* offers highest performance for increased productivity. The new control provides the perfect flow of information between user and edgebanding machine, as well as optimal conditions for a trouble-free production. The *ICOS TS operator panel* combines machine operation and control of the processing units with one single control panel which handles all operator inputs and controls.

## ••• Highest ease of use

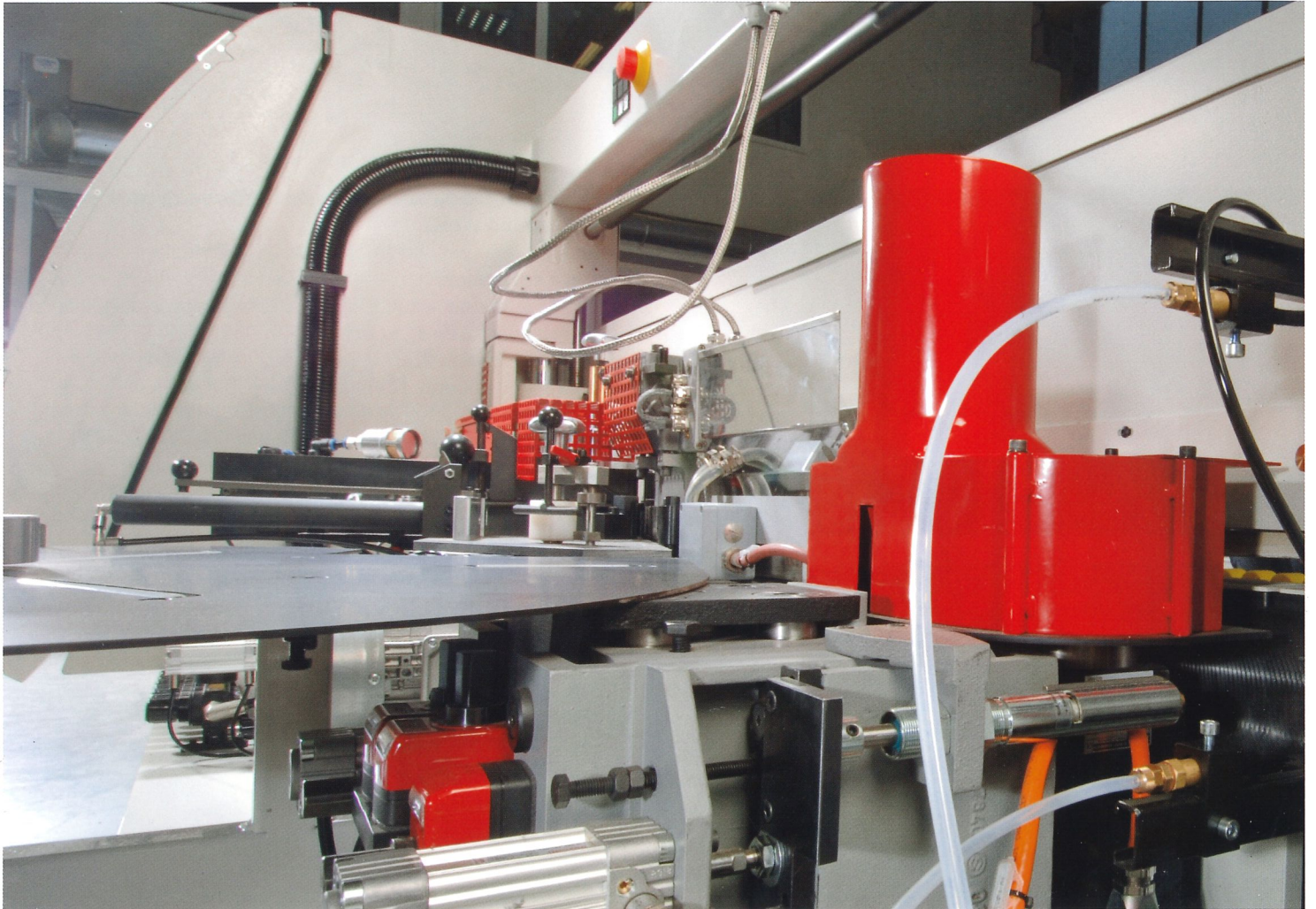


## ••• ICOS TS operator panel

### ICOS TS operator panel – overview

- 12" touch-screen-monitor with graphical operator guidance
- program memory for 1,000 processing programs
- with preset programs for thin and thick edges, as well as for edgebanding of solid wood lippings
- individual selection of processing units
- integrated line control
- PC-control with industrial processor
- flash-memory
- bus system for data transfer
- data back-up via USB
- error display in clear text
- prepared for tele-service









## ❖ Advantage 700

### ❖ All features



**Accuracy right from the start: panel leading and pressure via IMA compound V-belt.**

#### **Standard equipment**

- 12" touch-screen-monitor with graphical operator guidance
- open space: calibrating unit
- Gluing unit: coils 0,3 – 3,0 mm [ $\frac{1}{64}$  –  $\frac{1}{8}$ "]; solid wood lippings 12 mm [ $\frac{1}{2}$ "]
- end-trimming unit
- milling unit
- multi-function unit [MFA – 2 milling motors]
- profile scraper
- flat scraper
- buffing unit
- open space: *smoothing unit, sanding unit or grooving unit*

[incl. tooling-basic-equipment]

#### **Additional equipment options for Advantage 700**

- anti-stick and cleaning agent [open space]
- calibrating unit [open space]
- additional glue applicators
- pre-melting unit for hot-melt glues
- PUR-pre-melting unit
- quick-change motors for MFA
- quick-change equipment for profile scraper
- smoothing unit, sanding unit or grooving unit (optional) [open space]
- automation package: NC-adjustment for infeed fence, pressure zone and MFA



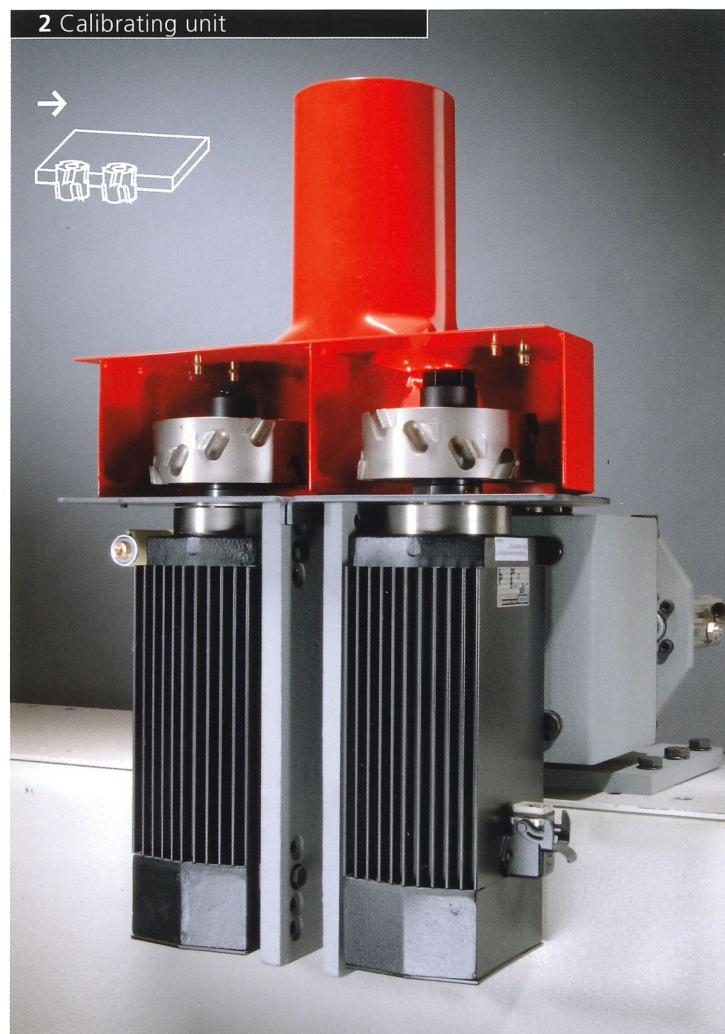


# ❖ IMA-work unit technology



## 1 Anti-stick agent

- Fully automatic anti-stick agent applicator for careful removal of glue residues taking into consideration the ultimate demands to the quality of the processed panels, e.g. for gluing with PUR-glues.



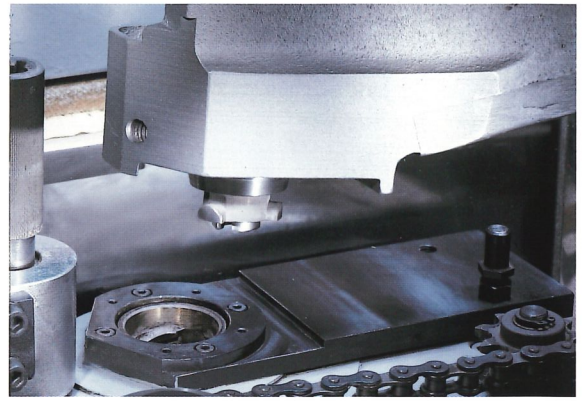
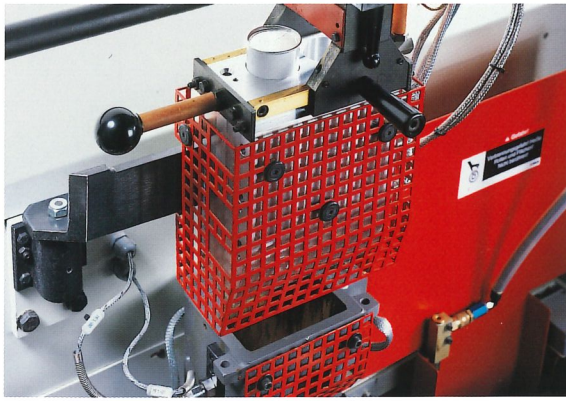
## 2 Calibrating unit

- To be used in longitudinal, as well as in transverse direction to ensure perfectly trimmed panel edges prior to the gluing process.
- Resulting in an almost invisible glue line.

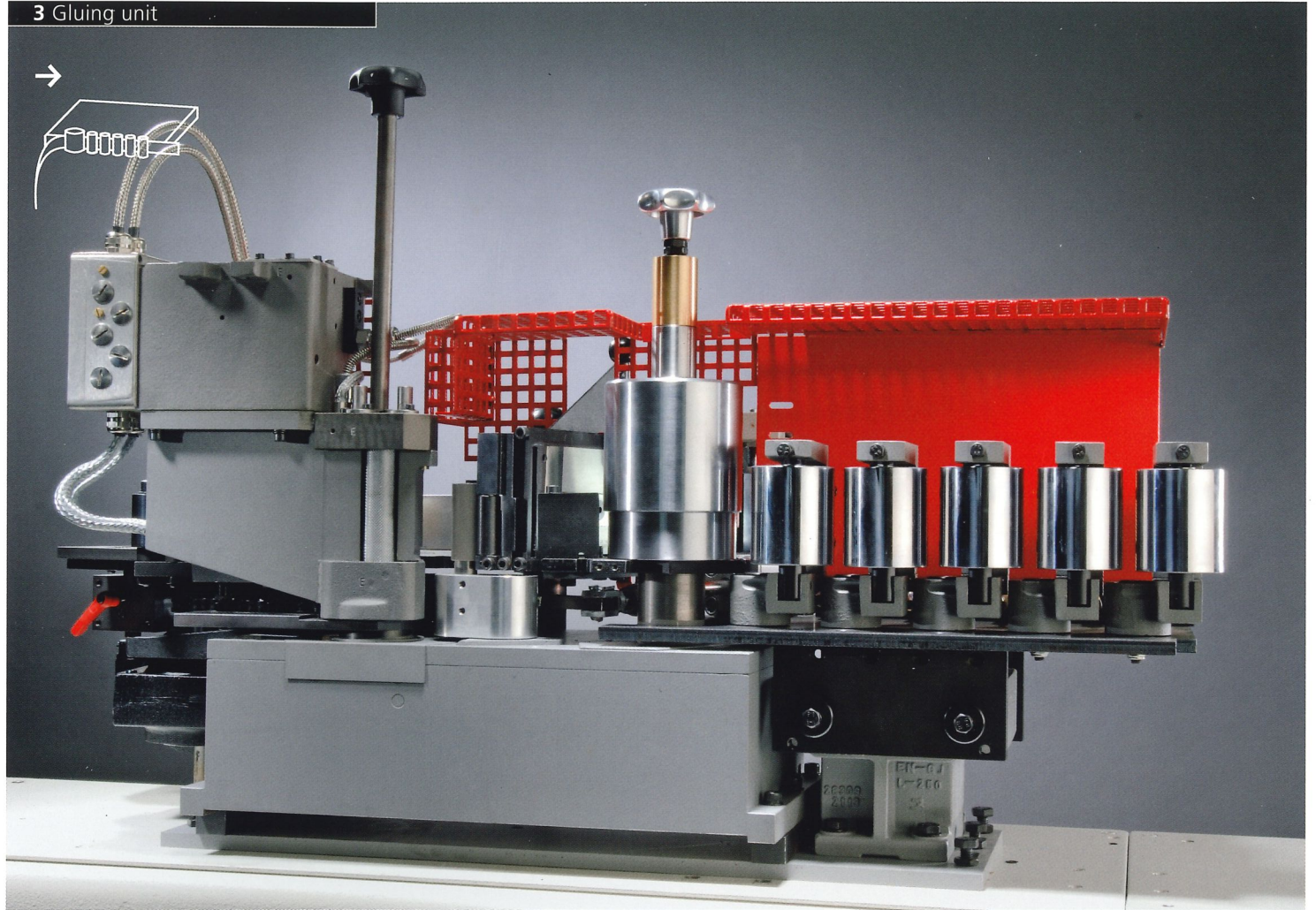
❖ Reliable gluing system



PUR-pre-melting unit  
and IMA quick-lock-  
system



### 3 Gluing unit



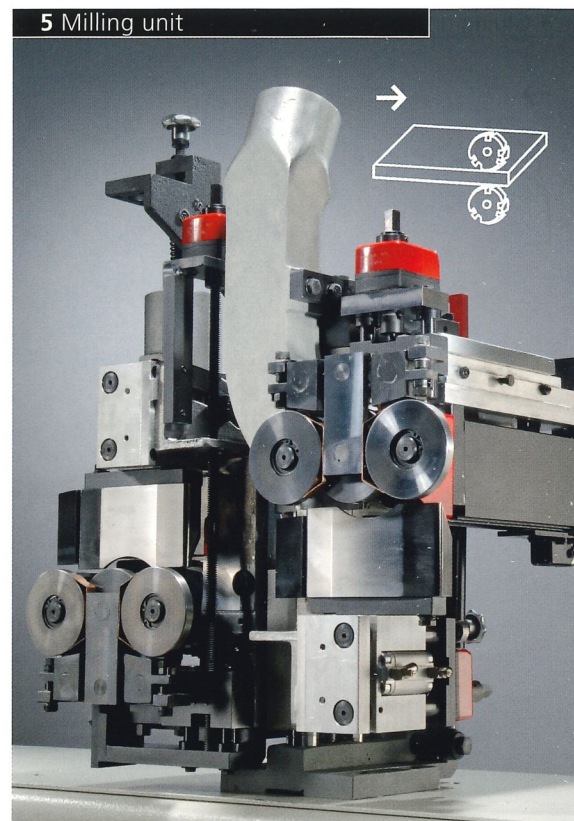
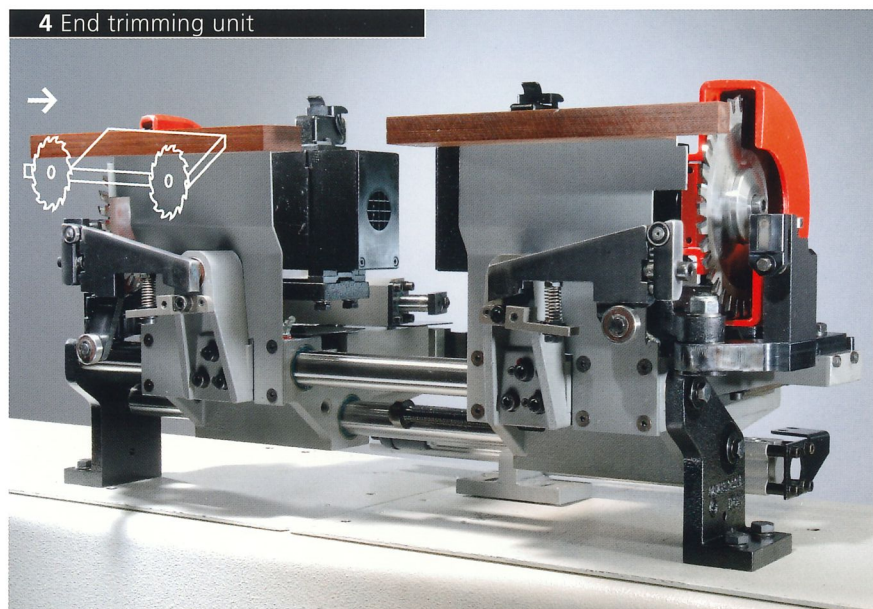
### 3 Gluing unit

Proven IMA-technology: The IMA-gluing unit – reliable, compact, high-performance.

- Precise feed of the edging material (coils and solid wood lippings) via line control of the *ICOS TS*.
- Simple adjustment of the edge overhang at leading and trailing edge via PC-control.
- Highly flexible application of different glue types and colours and quick-change of the glue applicator for different panel decors by *IMA quick-lock-system* considering the high demands on quality.
- Easy change of glue applicator via pneumatically controlled bajonet catch – solid interface between glue applicator and gluing gear.
- Proven IMA edgebanding via pneumatic pressure of the driven first pressure roller and four additional rollers with flexible contact pressure. Temperature control and monitoring is accomplished via the operator panel.

- Gear box of the gluing unit – a closed and long-lasting oil bath gear: no glue gets into the gear box or into the drive unit!
- Additional anti-stick coating of the glue container simplifies cleaning and allows the use of moisture-proof and temperature-resistant PUR-glues.
- Trouble-free, user- and environment-friendly change of glue via quick-lock glue applicator.
- Economic/cost-efficient melting of PUR glues with PUR-pre-melting unit for cartridges of 310 g.





## ❖ Inclusive: Advantage 700 – high quality edges and performance

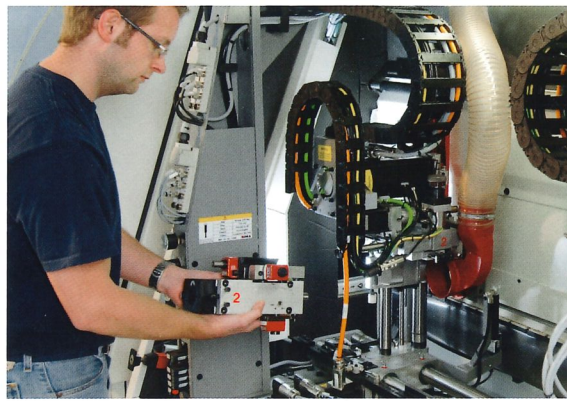
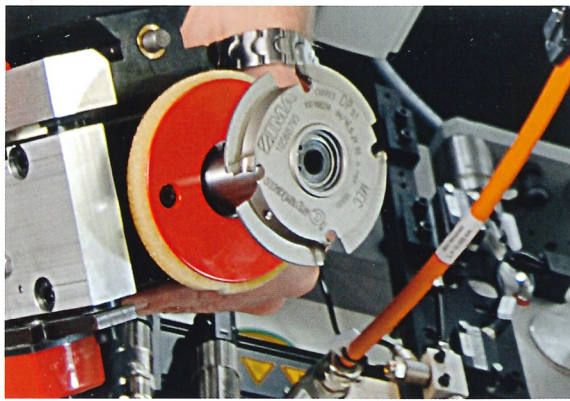
### 4 End trimming unit

- Precise cutting of edge overhangs on leading and trailing edges, respectively overhangs of solid wood lippings during processing.
- Automatic control of end-trim and chamfer cuts of thin and thick edges via the operator panel.
- High repetitive accuracy by permanent 2-fold tracing.

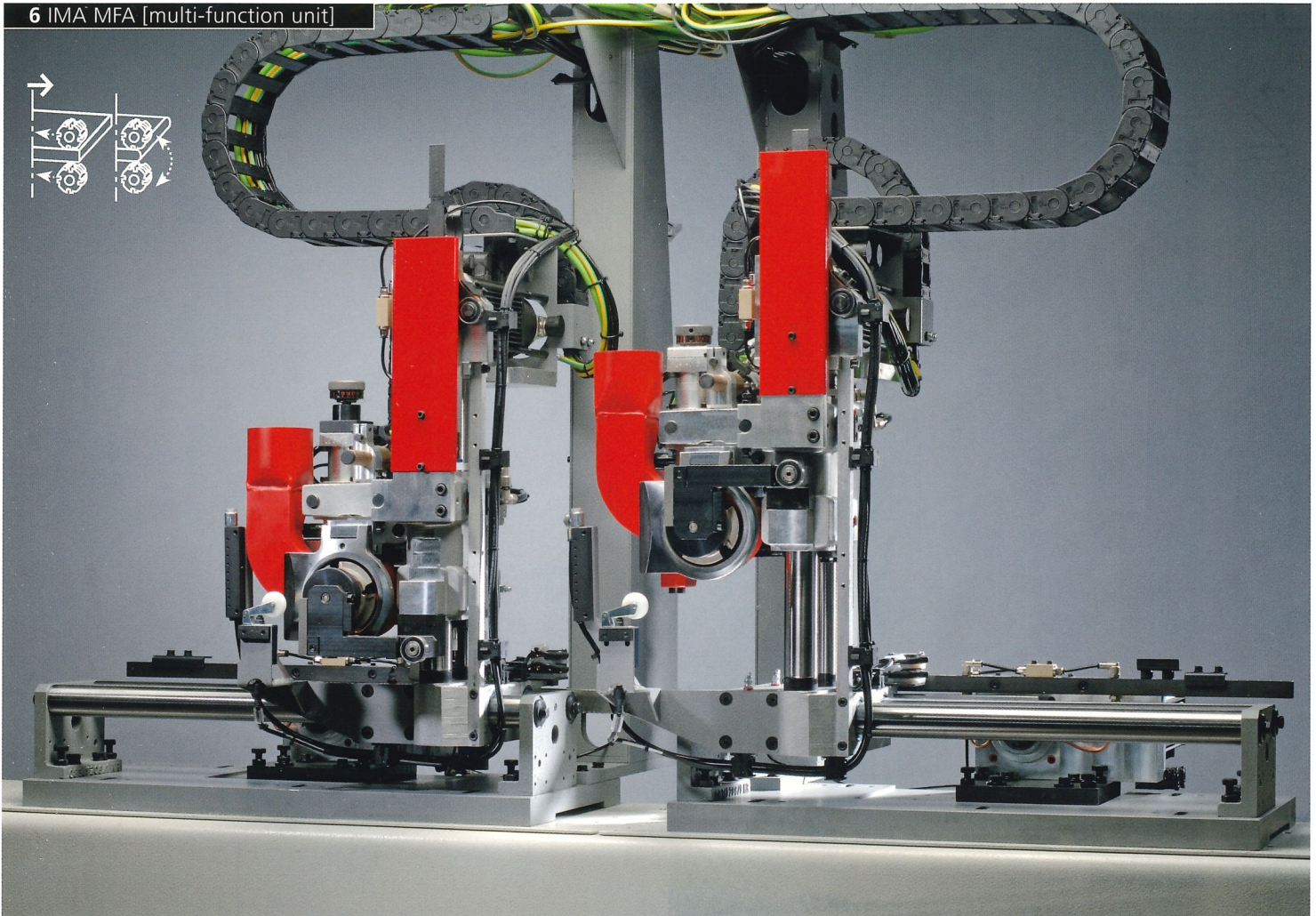
### 5 Milling unit

- For accurate milling of edge overhangs.
- Special vertical tracing allows trouble-free processing of panels with boreholes (e.g. hinge holes) or wide grooves.
- Upper and lower edges are processed with each one high-performance milling motor.
- ›free from float‹ tool receptacle by HSK-system.





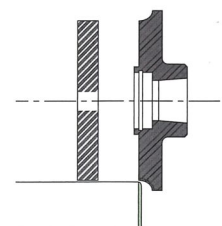
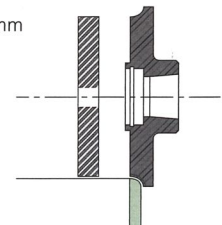
6 IMA MFA [multi-function unit]



#### 6 IMA MFA [multi-function unit 08.342]

- Fine milling of upper and lower edges, as well as contour trimming of leading and trailing edges with two milling motors.
- All horizontal and vertical unit movements are accomplished via servo-drives.
- 2-point adjustment between thin and thick edges, horizontal positioning of the lateral tracing for chamfer milling and radius milling. Infinite NC-controlled positioning of the milling motor for different edge thicknesses is possible.
- High performance milling motor with quick-change system for easy set-up in case of different milling profiles, only two motors for processing of leading, trailing, upper and lower edges.
- High quality of edges also for post- and softforming profiles.
- Guaranteed long-life cycle – a minimum of wear; thus constant quality with an absolute repetitive and dimensional accuracy.
- High performance: the servo-drive allows small panel gaps – even for crosswise processing.

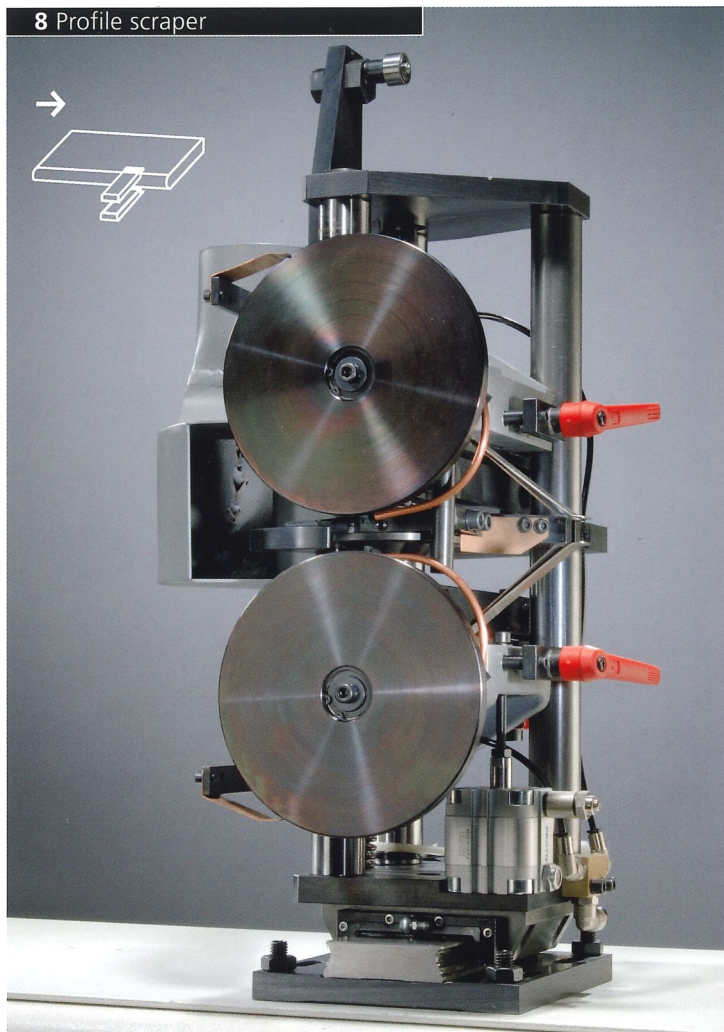
e.g. radius 3 mm  
[1/8"]



e.g. chamfer 15°, to be applied  
for different edge thicknesses



8 Profile scraper



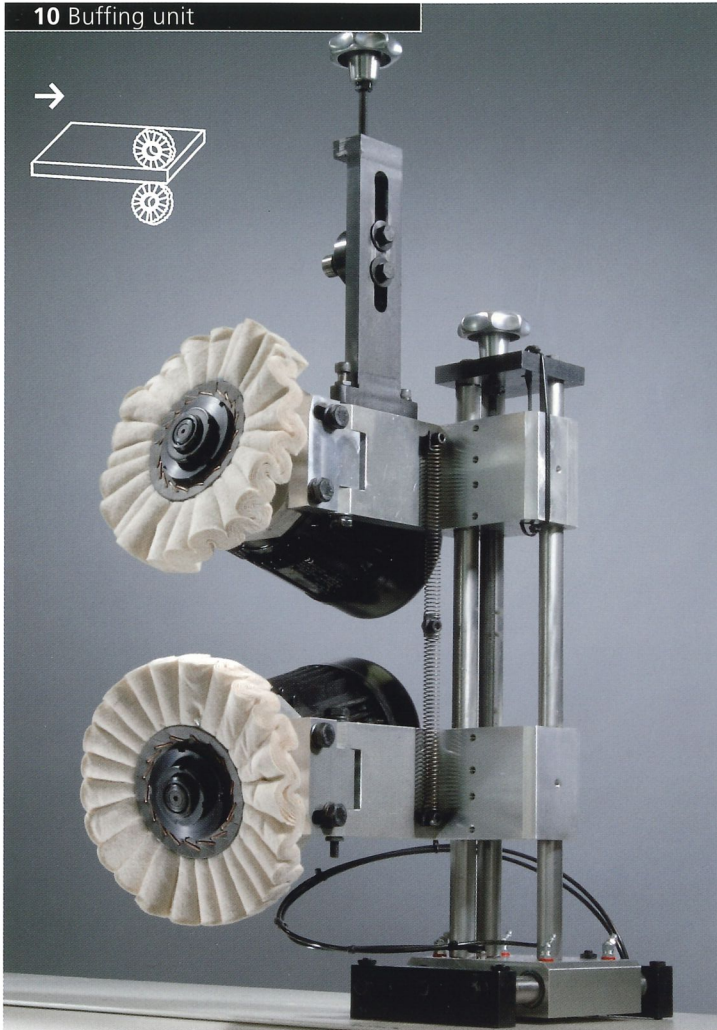
9 Flat scraper



❖ Advantage 700  
❖ Perfect finish



#### 10 Buffing unit



#### 7 Cleaning agents [see picture no. 1]

- The automatic spraying device (top and bottom) for cleaning agents provides optimal conditions for perfect panel edge surfaces during finish-processing. It can only be used in conjunction with the anti-stick agent (1).

#### 8 Profile scraper

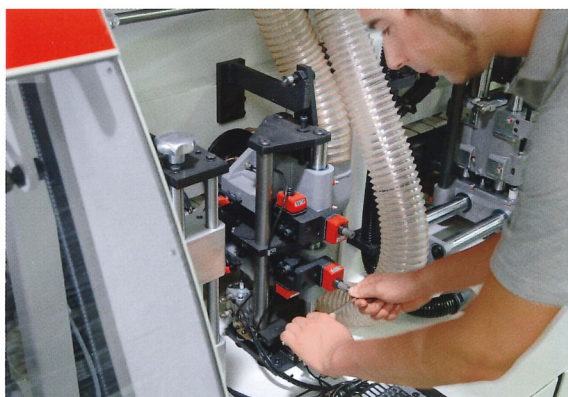
- For rescraping of upper and lower milling radii in conjunction with PVC materials.
- With each one profile knife for upper and lower edge, as well as with horizontal and vertical tracing.
- Equipped with quick-change device for frequent change of different edge profiles.

#### 9 Flat scraper

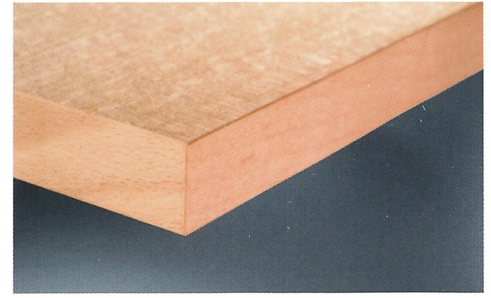
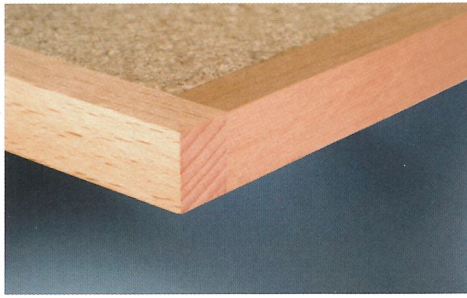
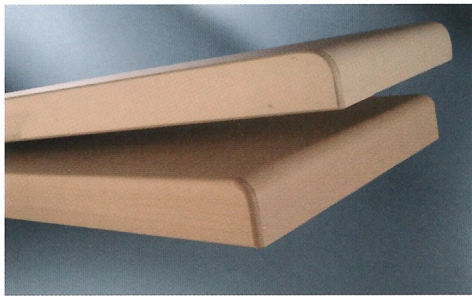
- Rescraping device for thin and thick edges – to remove glue residues.
- With each one knife for upper and lower edges, as well as with vertical tracing.

#### 10 Buffing unit

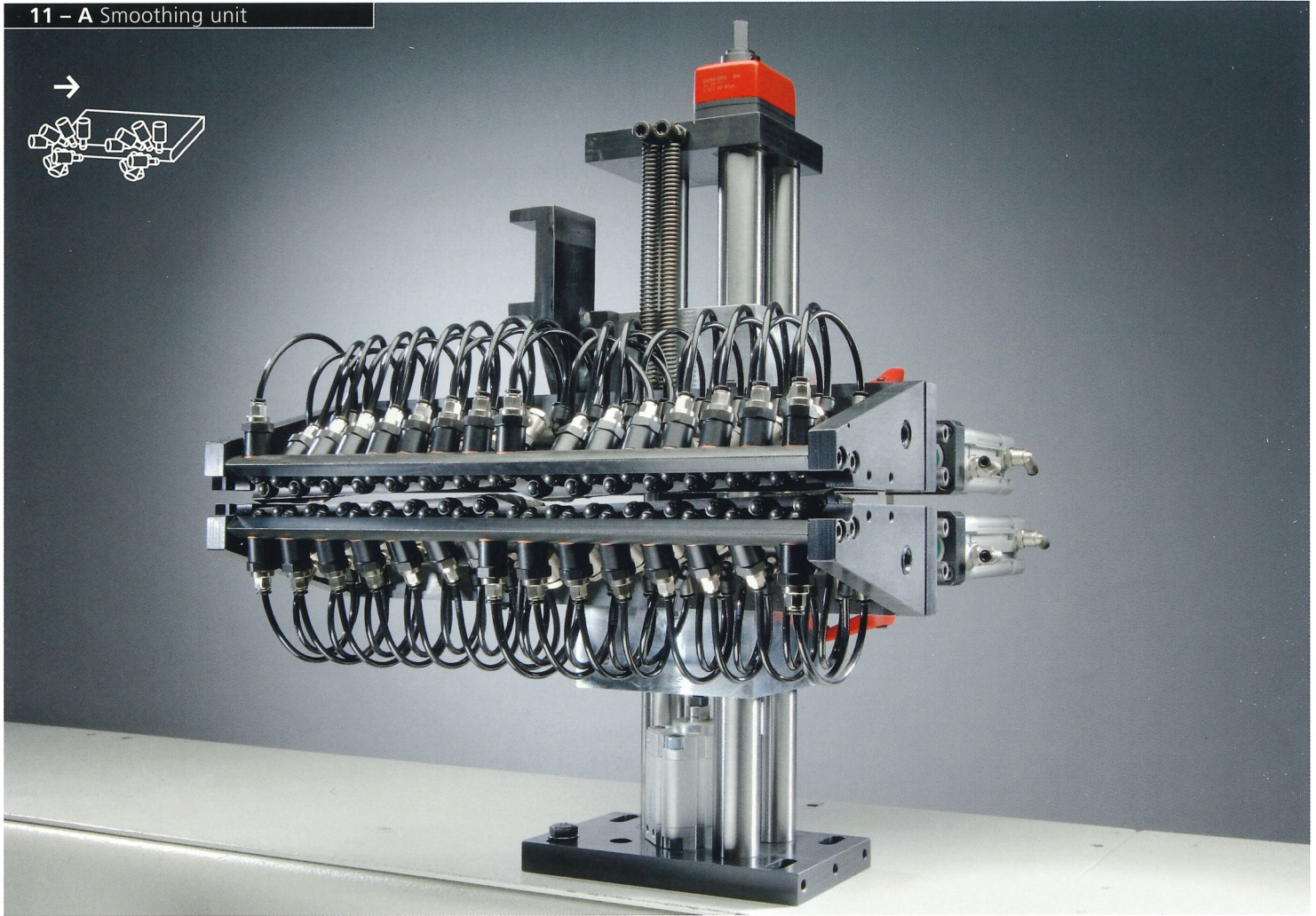
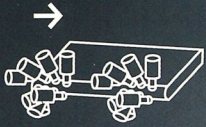
- To clean upper and lower panel edges, and to polish thick edges.
- With each one big flapped disc for upper and lower edges, as well as with one separate drive motor resulting in high-quality edges.







## 11 – A Smoothing unit

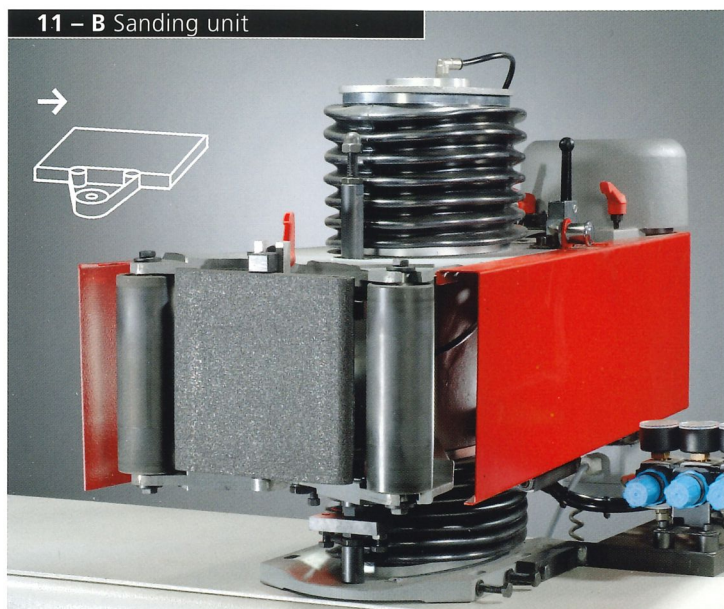
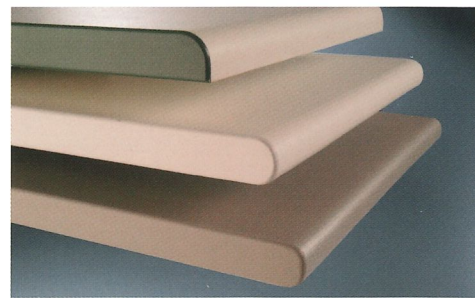
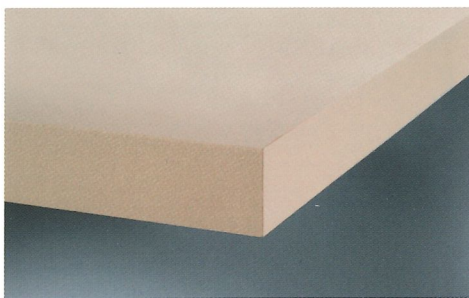


### 11 A Smoothing unit

›Brilliant‹ quality of edges with the smoothing unit for reprocessing/ smoothing plastic edges, to remove white cracks on trimmed and scraped edges.

- Automatic adjustment to panel thickness via height adjustment of the top pressure beam.
- Horizontal electro-pneumatic jump-in/jump-out device for upper and lower panel edges.
- Constantly perfect finish for different plastic types – nearly without any set-up.

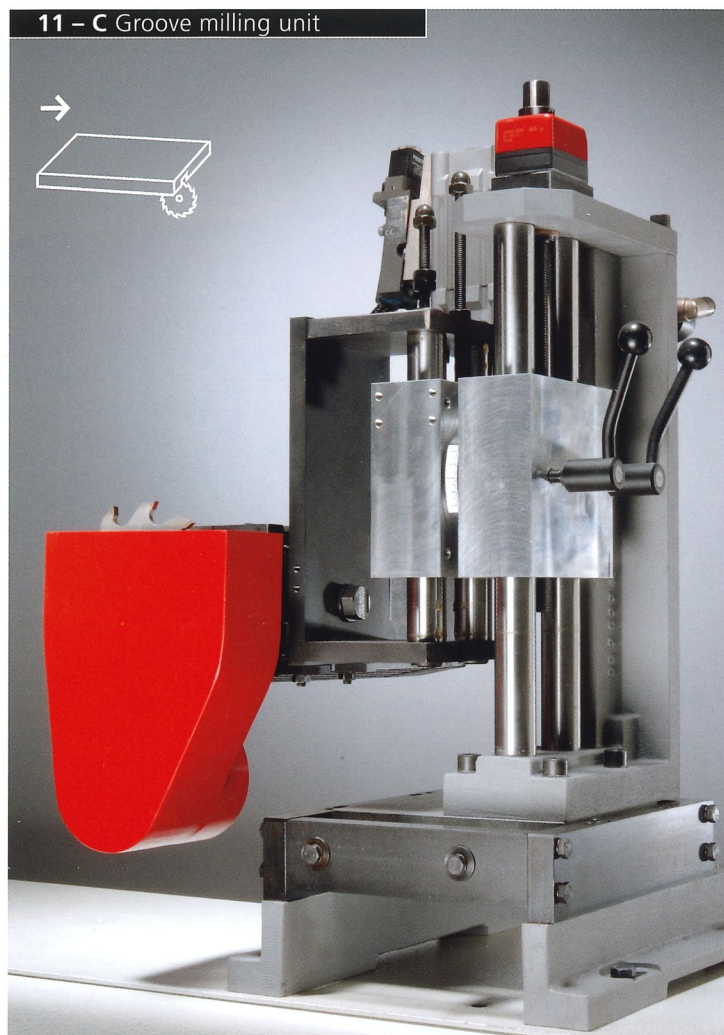




#### 11 B Sanding unit

For sanding the vertical edge surface when processing veneer or solid wood edges.

- tracing shoes with pneumatic pressure
- electronic belt tear-off control
- pneumatic cleaning of the sanding belt



#### 11 C Groove milling unit

The groove milling unit can be used for milling of continuous/non-continuous grooves, laterally or at the bottom of the panel. Furthermore it is used for rebating or profiling. The groove milling unit is swivelling from 0° to 90°.

❖ Finish and grooving in perfection





## ❖ flexible, compact, high- performance

### Technology

- All processing units of the Advantage 700 represent the proven IMA technology. Thus high accuracy, longevity and repetitive accuracy – also for multiple-shift operation – are guaranteed.
- Easy and quick access to all functions of the machine control via graphical operator guidance. The *ICOS TS operator panel* via touch screen responds to a finger tip. The input/operator unit is dust- and scratch-proof and is convincing because of its exemplary ergonomics and the modern design.

### Performance

- Optimal cost/performance ratio: User-friendly control, well-proven automation package, minimized set-up times, feed speed of 20 m/min. [65 ft/min.], as well as high machine schedule by using small panels. All these features result in sustained high added value and reliability for production.
- To achieve good processing results with the Advantage 700 with a high degree of stable value and with consistent quality means production reliability for many years. High production quality and customized IMA-service are further factors you can rely on.

### Service

- Experienced, highly professional IMA service engineers are at your disposal. They offer user-orientated service for machine technique and IMA software products. IMA sales and service sites all over the world provide quick availability of spare parts and quick individual support via teleservice. For further information please see: [www.ima.de](http://www.ima.de)
- Our experience – your production reliability  
More than 50 years of know-how in the field of processing unit technology and in the production of edgebanding machines – IMA stands for innovative product development and for the application of modern and trendsetting technologies.



## Standard equipment

### MACHINE

Feed speed	4 – 20 m/min [13 – 65 ft/min.]
Total height [noise suppression hood closed]	1,800 mm [70-55/64"]
Total width [noise suppression hood closed]	1,700 mm [incl. support rail]
Working height	900 mm [35-1/2"]
Distance to the wall [processing unit side]	min. 1,000 mm [39-3/8"]
Total length	8,606 mm [338-13/16"]
Connected load [Europe]	20 kW/41 A
Compressed air connection	7 bar [100psi]
Compressed air consumption for one panel 500 mm long [19-11/16"]	27 l
Compressed air consumption for one panel 2,000 mm long [78-3/4"]	56 l
Dust extraction connection	4 x ø 80 mm; [3-5/32"] 1 x ø 120 mm [4-23/32"]
Dust extraction requirements [extraction speed: 28 m/s static negative pressure: 2480 Pa]	3,200 m³/h
Total weight	ca. 4.400 kg [9700 lbs]
Sound level [dependent on tool and material]	operation without processing < 85 dBA

### PANEL

Panel thickness	min. 8 mm [5/16"] max. 60 mm [2-3/8"]
Panel length	min. 150 mm [6"]
Panel width	min. 65 mm [2-9/16"]

### EDGING MATERIAL

Edging thickness	min. 0,3 mm [1/64"] max. 12 mm [1/2 "]
Edging height	min. 12 mm [1/2 "] max. 65 mm [2-9/16 "]
Edging length	min. 160 mm (coil) [6-1/64"] min. 350 mm (solid wood lipping) [13-25/32"]
Edging cross-section	max. cross section 130 mm² max. 12 x 65 mm (solid wood lipping) [1/2 x 2-9/16"]

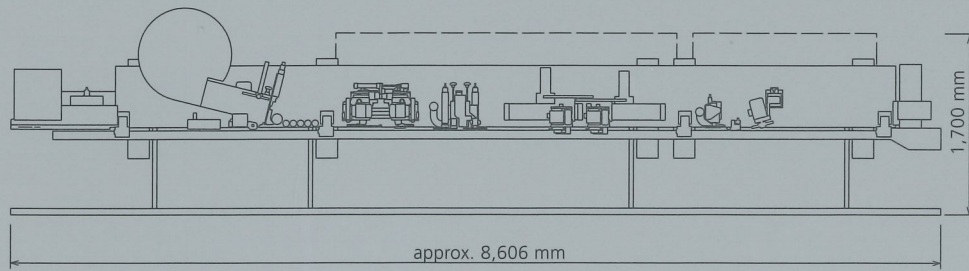
## Additional equipment

	Connected load [Europe]	Compressed air consumption for one panel 500 mm long [19-11/64"]	Compressed air consumption for one panel 2,000 mm long [78-3/4"]	Dust extraction connection	Dust extraction requirement [dust extraction speed: 28 m/s, static negative pressure: 2480 Pa]
Calibrating unit	6 kW/13,4 A	33 l	75 l	1 x ø 120 mm [4-23/32"]	1,200 m³/h
Grooving unit	3 kW/6,7 A	3 l	3 l	2 x ø 100 mm [3-5/16"]; 1 x ø 80 mm [3-5/32"]	2,200 m³/h
Sanding unit	1,8 kW/4 A	130 l per min. duration of operation	130 l per min. duration of operation	1 x ø 80 mm [3-5/32"]	600 m³/h

Subject to technical modifications and amendments and to further developments. The offer, respectively the order confirmation is relevant in either case! The picture of the machine could have been taken without complete protection devices. The protection device is part of the scope of delivery. Photos could also be options, not being part of the scope of delivery.



## Advantage **700**





engineering solutions. **www.ima.de**



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