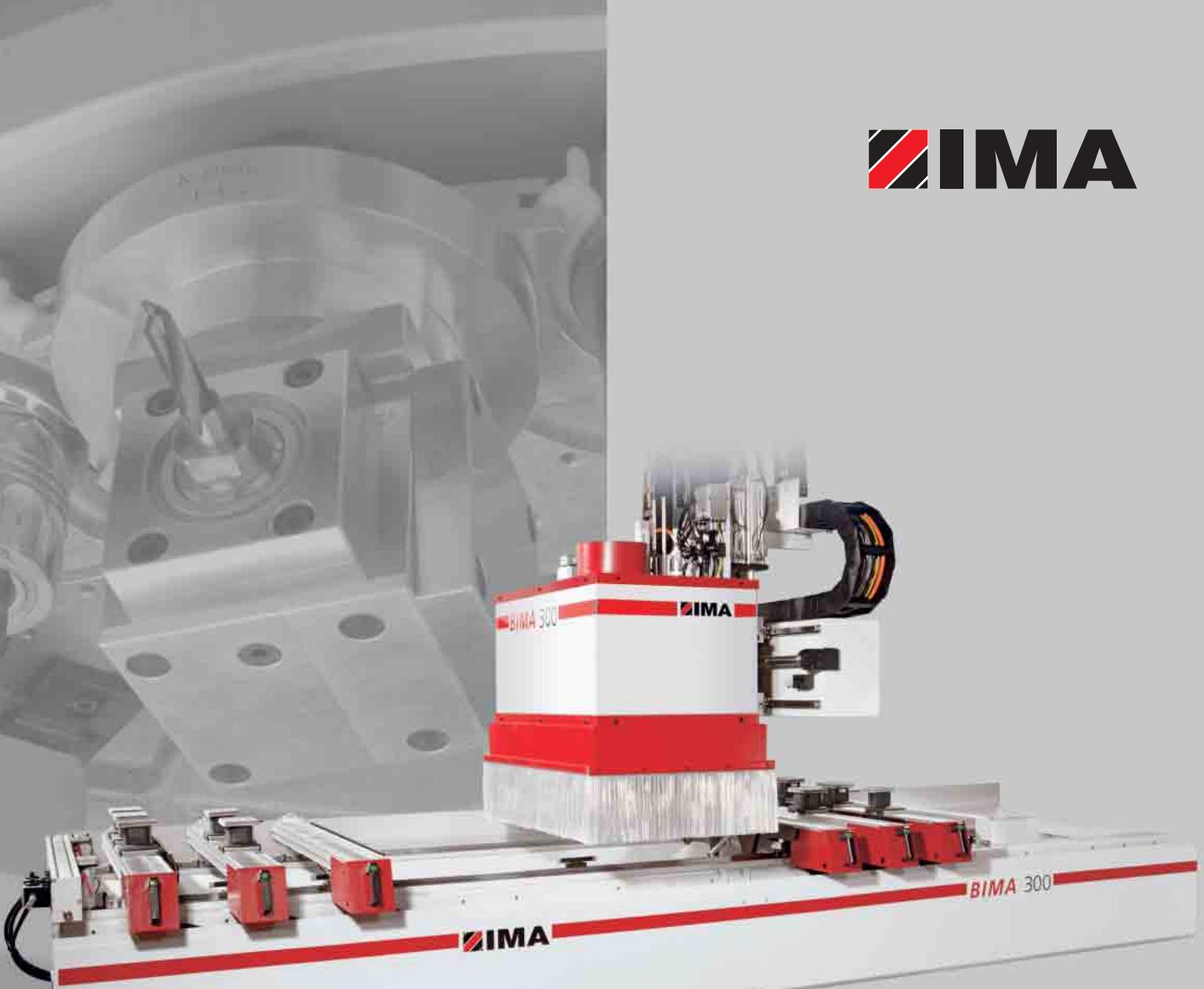
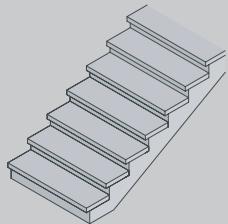


The IMA logo consists of a red and black diagonal striped square followed by the word "IMA" in a bold, black, sans-serif font.

BIMA 300 Details ☰

ENGLISH

STAIRS



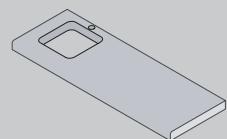
FURNITURE DOORS



**ROUND ARCH
WINDOW***



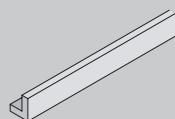
WORK TOPS



ENTRY DOOR



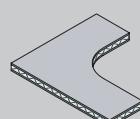
**ALUMINIUM
PROFILES***



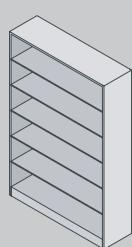
DOORS



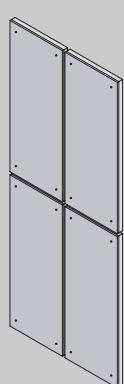
HONEYCOMB PANELS



**FURNITURE
COMPONENTS
(INCL. BOREHOLES)**



FAÇADE ELEMENTS



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

* Additional clamping devices are required.

BIMA 300



4-axes-

CNC-processing centre

BIMA 300 – the new efficient CNC-processing centre with integrated C-axis for high-quality and flexible production of individual small batch- and single-part production of furniture components and components for interior fittings. **BIMA 300** emphasises the 30 years' technological know-how of IMA in constructing trendsetting stationary processing centres.

The new **BIMA 300**

- combines one high-capacity main spindle with one integrated C-axis
- is equipped with an elaborately constructed 18-fold tool changing device,
- offers high acceleration c-value and a high residual speed in all axes

combining these features to an intelligent machine concept with minimal processing times with a maximum of operating efficiency.

With the time-tested software *IMAWOP 6.0* **BIMA 300** is equipped with an optimal machine control. The Windows®-based control with automatic set-up and processing programs as well as tool movements in real-time incl. 3-D-process simulation can either be used directly at the operator panel at the machine, respectively during work preparations or for customer presentations at the PC workplace (second licence included).

Characteristics **BIMA 300**

- Working field of 3,300 mm [4,300 mm] x 1,250 mm [129-7/8" (169-7/64") x 49-1/4"],
- equipment options for adapter units
- panel clamping system on linear guidings for panel processing with highest accuracy
- ergonomic, user-friendly IMA-product design

optional:

IMA drilling gear 14 vertical spindles and
6 horizontal spindles,
plus grooving saw 90° swivelling

or

IMA drilling gear 21 vertical spindles plus
crosshead 90° swivelling with 4 horizontal spindles
and grooving saw

Further equipment options

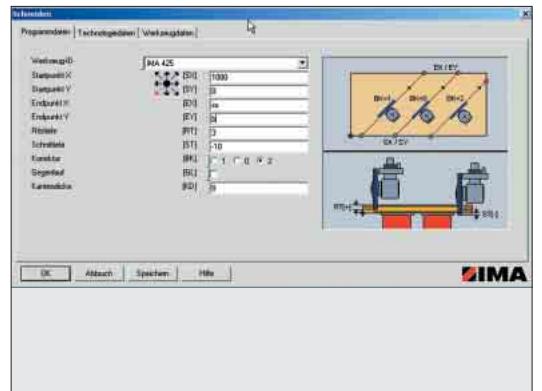
- Option for 'twin load' by second row of stops.
- LED-set-up system for quick set-up of the clamping systems.
- Multiple processing options by a multitude of adapter units.



The CNC-controlled BIMA 300 is connected directly to the high-capacity control *IMAWOP* via the ergonomic operator panel.

IMAWOP is the optimal processing control with user-proven software for flexible production of different panels. It is equipped with the latest automatic, preset set-up and processing programs.

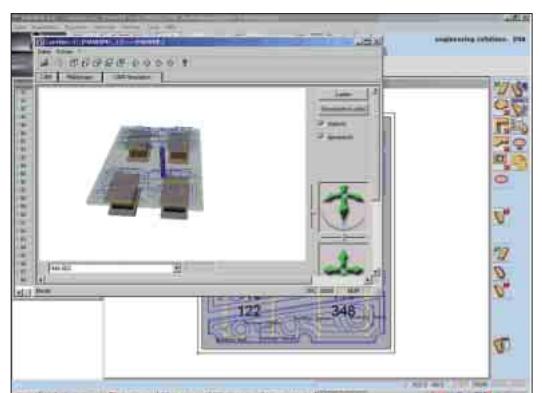
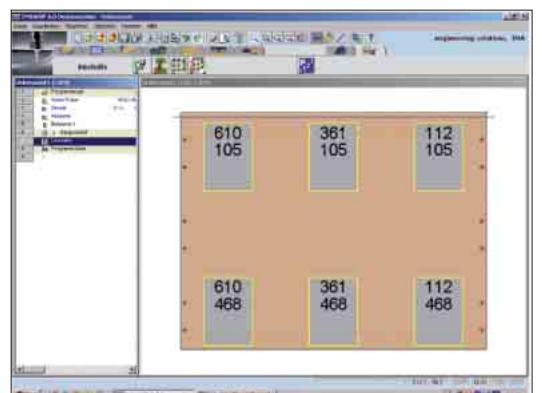
Movements of the processing head, respectively the entire process can be simulated in 3-D pictures – for highest efficiency and reliability - for both, small batch production and production of individual parts.

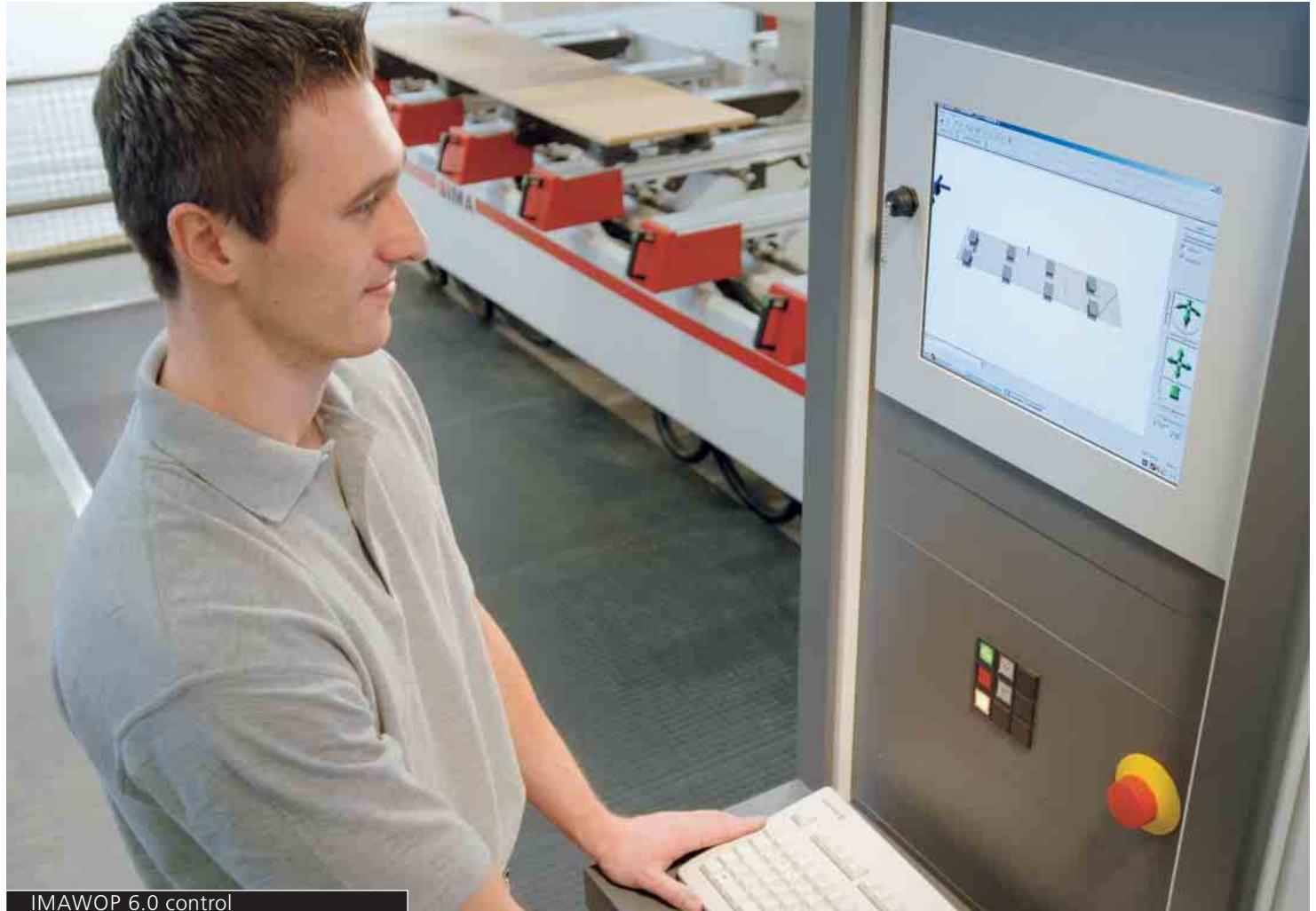


Well-proven, simple and reliable: IMAWOP user interface

IMAWOP control – overview

- simple, graphic user interface/menu guidance
- creation or take-over of CAD drawings of panels if required
- automatic record of statistic data such as quantities, production- and work schedules etc.
- integrated program solutions for automatic optimal positioning of panels and vacuum suction elements
- automatic set-up of the machine
- compatible control system for all well-established network solutions





Standard equipment

- PC-control with *IMAWOP 6.0* and licence for office workstation
- USV [uninterruptible electric power supply]
- Safety shut-off mats
- Basic equipment of tools
- Processing area in X = 3300 mm [129-7/8"]
- 6 vacuum support arms
- 12 entire suction pads
- 6 half suction pads
- 6 lifting rails
- 8-fold tool changer
- central extraction
- template connection
- main spindle [7,5 kW] with CNC-axis [C-axis]
- tooling-basic-equipment

Optional:

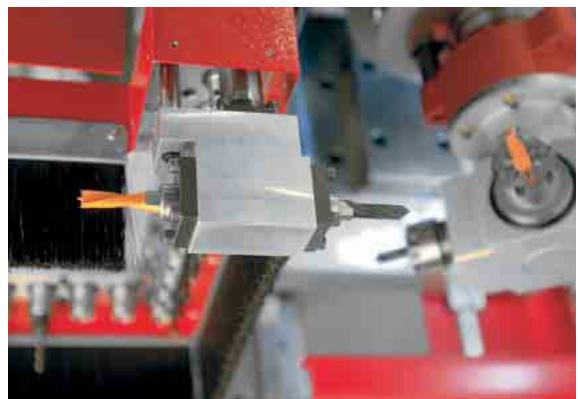
- IMA drilling gear 14 vertical spindles and 6 horizontal spindles, plus grooving saw 90° swivelling
or
- IMA drilling gear 21 vertical spindles plus crosshead 90° swivelling with 4 horizontal spindles and grooving saw

• BIMA 300
• All features



Additional options for the equipment of BIMA 300

- Processing area in X = 4300 mm [169-7/64"]
 - 8 vacuum support arms
 - 16 entire suction pads
 - 8 half suction pads
 - 8 lifting rails
- second row of stops (*twin load*)
- DXF interface
- air conditioner
- LED-set-up aid
- point laser



1 BIMA-main spindle system



1. BIMA-main spindle system

The new high-efficient BIMA-main spindle system with a capacity of 7,5 kW and a maximal milling torque of 18.000 rpm leaves nothing to be desired. The >on-board< tool magazine is able to hold 18 individually selected adapter units/tools. The adapter units are infinitely positioned by means of the 360°-C-axis.

2. BIMA-drilling/sawing unit

The additional IMA drilling/sawing gear with 9.000 rpm can be configurated modularly for different vertical as well as horizontal boring spindles.

Optional:

Drilling ①

- IMA drilling gear 14 vertical spindles and 6 horizontal spindles, plus grooving saw 90° swivelling

or

Drilling ②

- IMA drilling gear 21 vertical spindles plus crosshead 90° swivelling with 4 horizontal spindles and grooving saw

2 A Drilling ① [14 spindles]

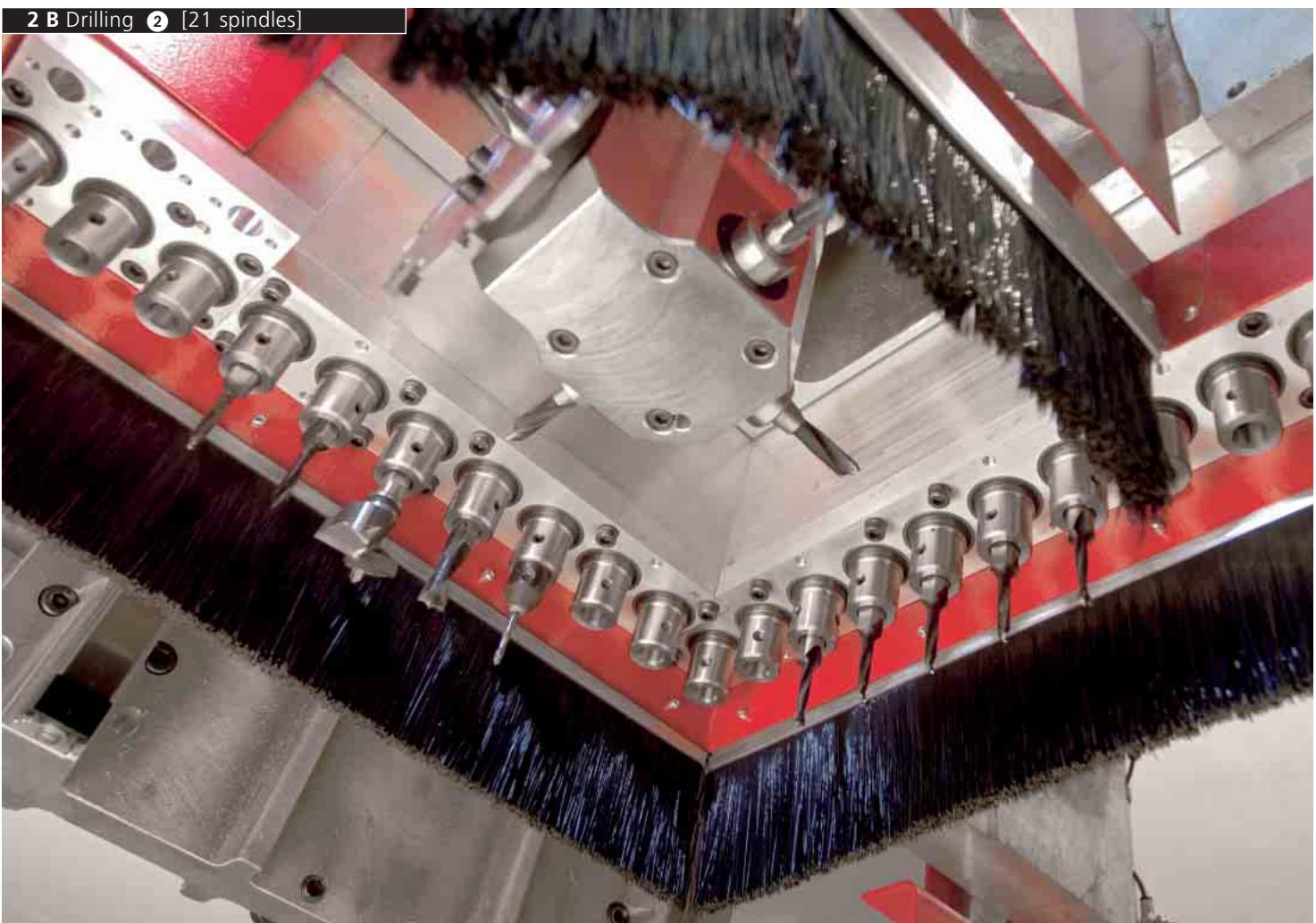


**Double flexibility –
numerous production alternatives**

18-fold tool changer



2 B Drilling ② [21 spindles]



Stairs, round arch windows, entry doors and doors, furniture doors, work tops, aluminium profiles or honeycomb panels – the range of application of BIMA 300 is flexible and offers many options.

Some examples for different processing options:

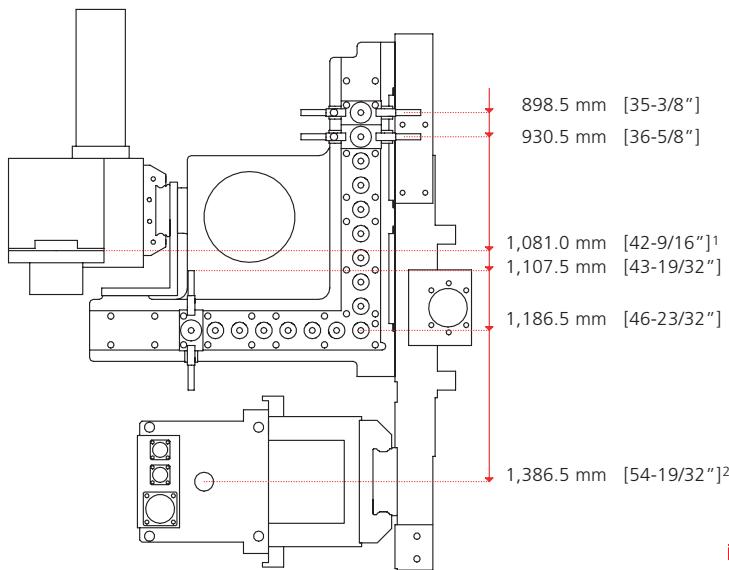
- Row and construction boreholes: drilling head with high-capacity spindles 9000 rpm; milling: main spindle with 7,5 kW.
- Horizontal drilling unit in X- and Y-direction.
- Grooving unit for back board grooves and cutting operation 90° swivelling.

- Door production with lock case milling unit [adapter unit] for horizontal door processing.
- Drilling head [adapter unit] for hinge holes.
- Processing of stairs with high-capacity 7,5 kW milling spindle.
- High-capacity milling spindle for processing of wooden beams and round arch components for the window production.

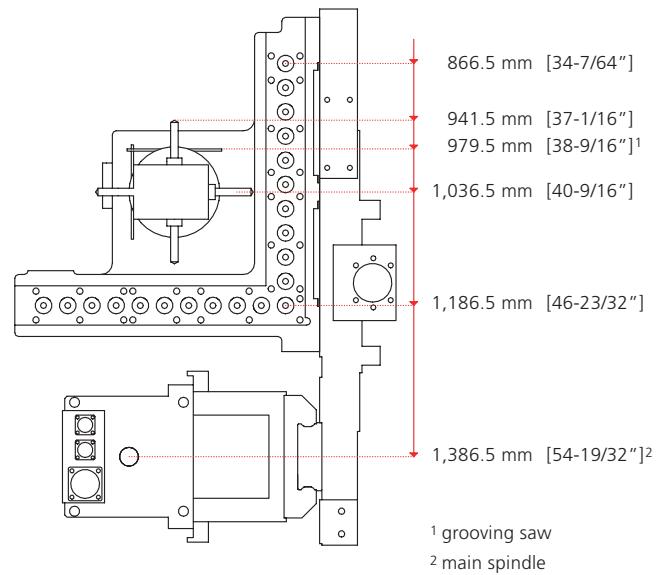
Varied processing options



Drilling ① [14 + 6 spindles]

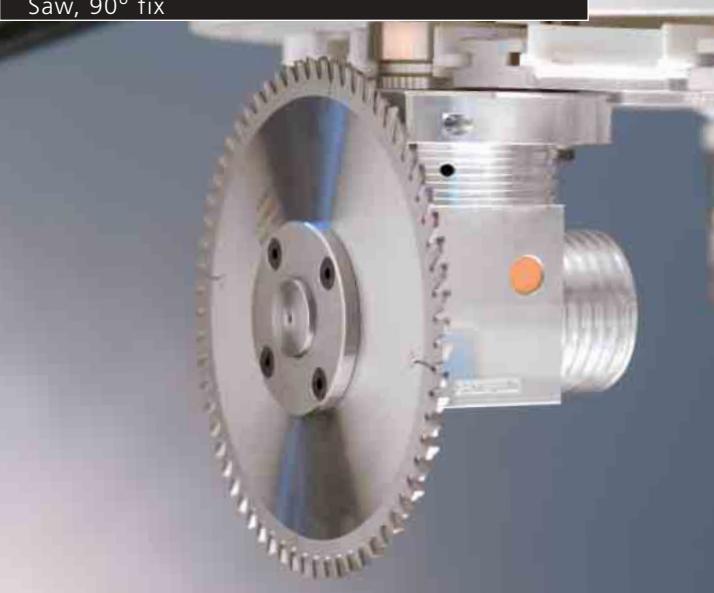


Drilling ② [21 + 4 spindles]



examples: adapter units

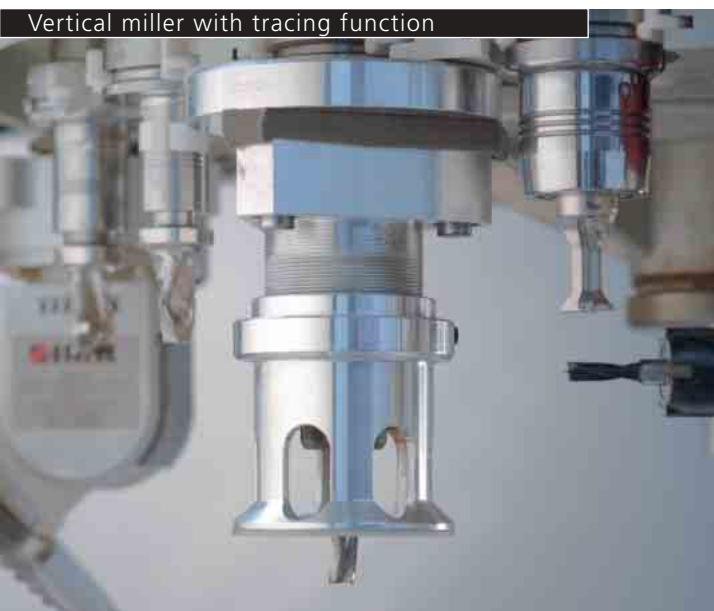
Saw, 90° fix



Horizontal drilling and milling head (crosshead)



Vertical miller with tracing function



Angular drilling head, 7° top



Lock case milling unit



Milling unit for lower panel side



The table is used to clamp the panels for processing. The different support arms and suction plates can either be positioned by the control or manually, under consideration of the panel dimensions.

In y-direction BIMA 300 can additionally be equipped with a second row of stops (each 1 rear and 1 centre stop per support arm). Panels up to a depth of 600 mm [23-5/8"] can be positioned at the centre stops, panels over 600 mm [23-5/8"] have to be positioned at the rear stops. The advantage of this allocation is that the reference edge always remains at the rear edge of the panel, no matter where it has been aligned – at the rear or in the centre.

On the BIMA 300 it is possible to position two panels in y-direction successively per machine side: optionally 2 r.h. / l.h. panels or each 1 r.h. and l.h. panel.

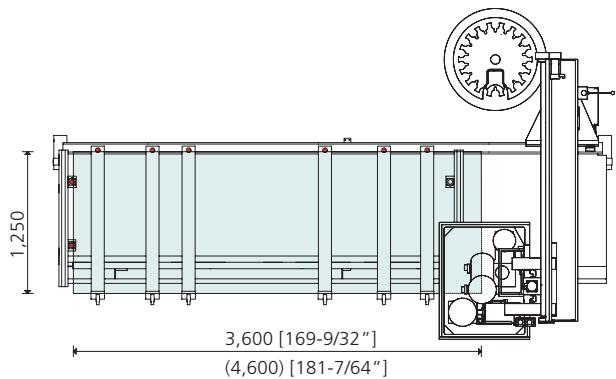
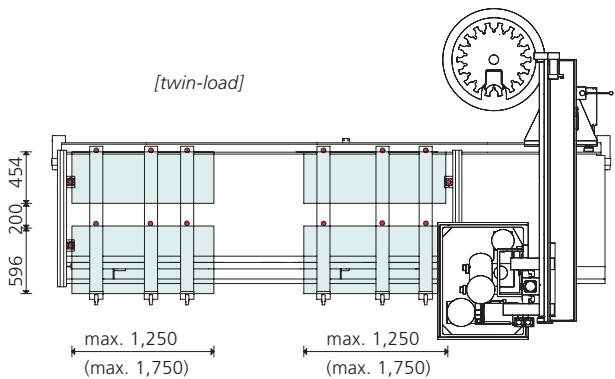
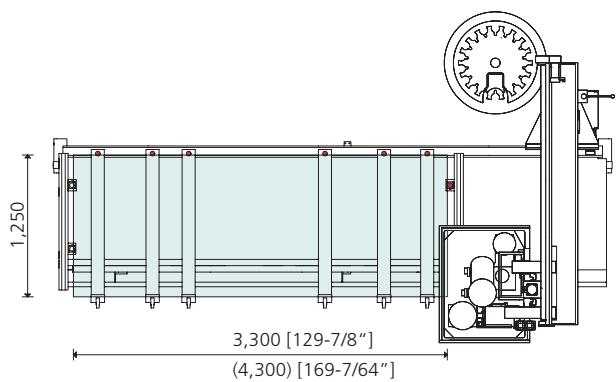
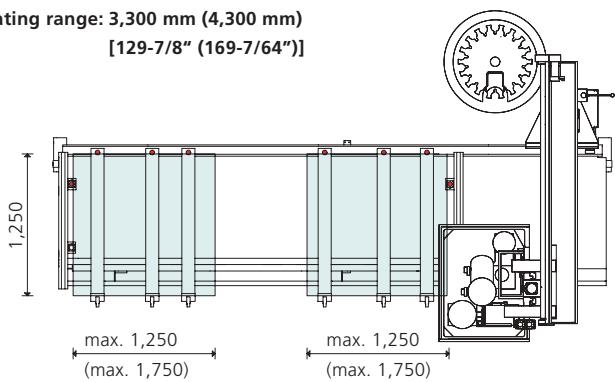
Further equipment options:

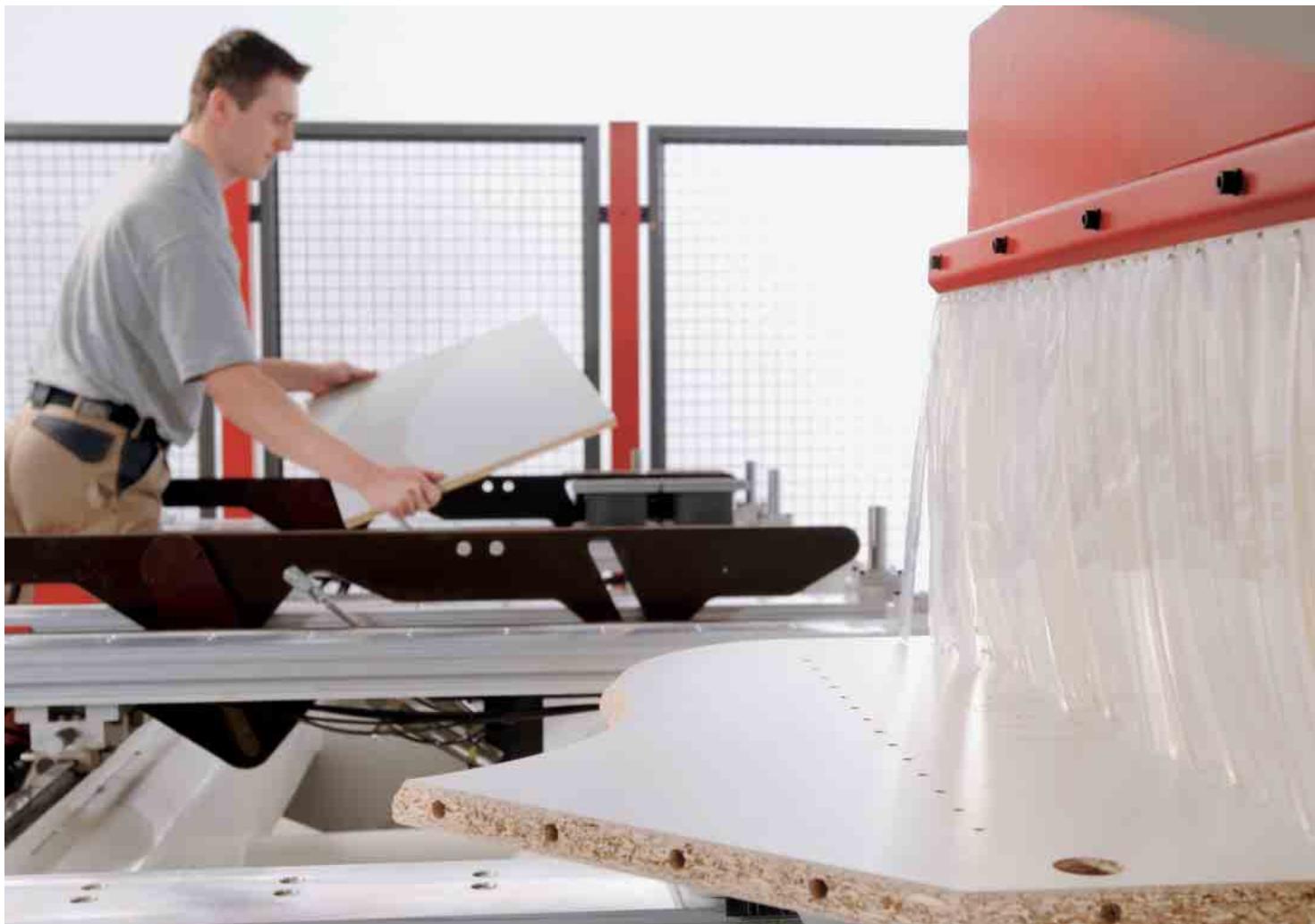
- If required: Application of pneumatical clamping elements for aluminium profiles (such as e.g. for window- and façade elements) on the support arms.
- Vacuum suction elements in varied dimensions for flexible production.
- Additional equipment with LED-set-up table for precise and quick positioning of clamping elements and panels.
- Point laser for precise definition of measure.

Efficient production



Operating range: 3,300 mm (4,300 mm)
[129-7/8" (169-7/64")]





BIMA 300
 [CNC-processing centre]

OPERATING RANGE

X	3,300 mm (3,600 mm) or 4,300 mm (4,600 mm) [129-7/8" (169-9/32") or 169-7/64" (181-7/64")]
Y	1,250 mm [49-1/4"]
Z	125 mm [4-59/64"]

MACHINE

Main spindle	7,5 kW with 360° C-axis
Tool changer	18-fold moving in x
Vertical drilling spindles	14 or 21
Horizontal drilling spindles	6 or 4
Grooving saw	90° swivelling
Sound level	Operation without processing < 80 dBA [dependent on tools, feed speed and material]
Central extraction connection	Ø 250 mm with slider control

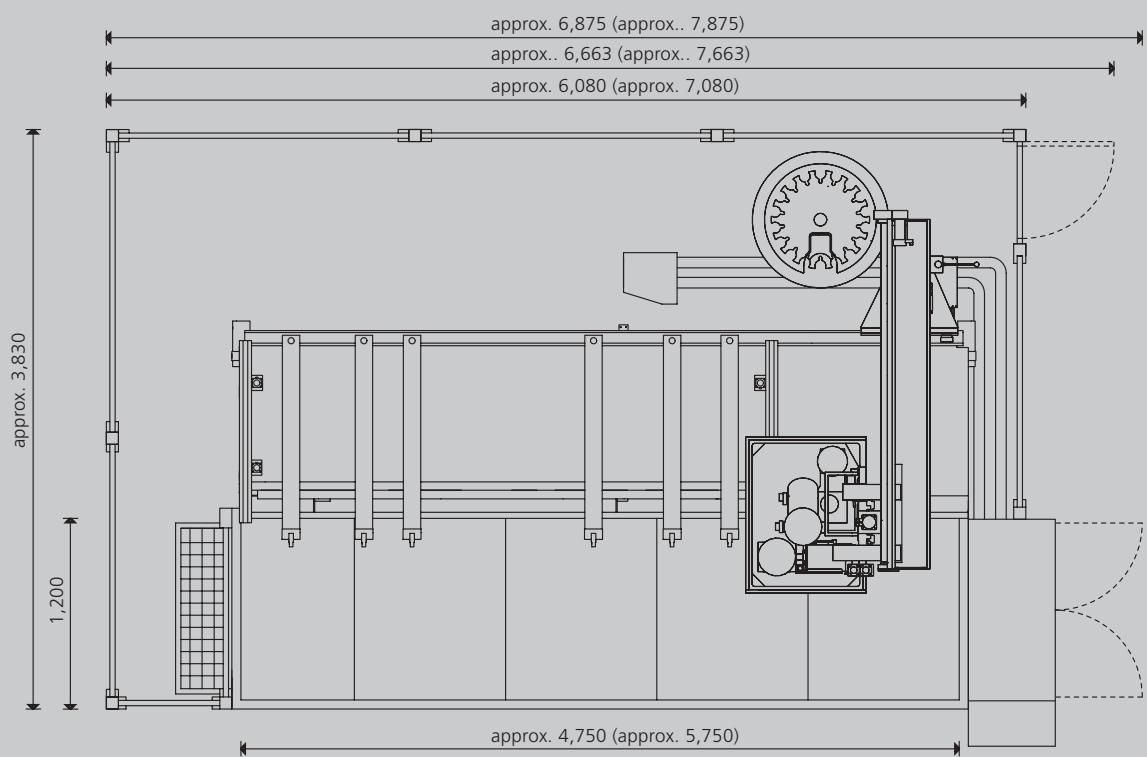
ADDITIONAL EQUIPMENT

LED-set-up aid
diverse adapter units
[to be changed automatically]
chipping belt
automatically controlled support rails
pneumatic suction elements [e.g. for window elements or aluminium profiles]

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.

BIMA 300

Operating range: 3,300 mm (4,300 mm)



All dimensions in millimetre.

engineering solutions. www.ima.de



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