



# profit H300 profit H200

## Convincing in all areas

Affordable CNC technology is becoming increasingly important in the universal workshop in particular. Regardless of whether a series of regular standard products or individually designed one-offs are to be made, the universal Format-4 profit H200 and profit H300 CNC machining centres produce finished workpieces with maximum efficiency and are a real profit earner even from day one.



Hose free dual circuit vacuum pod system



Visual display of the status using changing coloured lights



The solid gantry design including gantry drive



Automatic central lubrication system



Unlimited processing possibilities



Controlled extraction hood



safeSpace



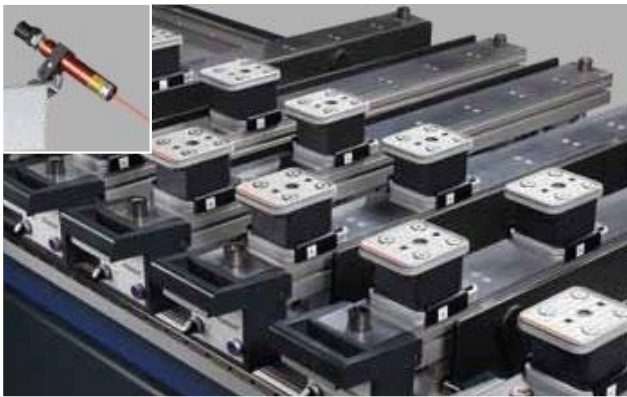
profit H200

## Working area



Hose-free FORMAT-4 dual circuit system with vacuum pod height of 100 mm

The dual circuit vacuum console table with manual pod positioning prevents any unintentional movement of the clamps whilst loading the workpiece. Various different Format-4 vacuum pods can be used to hold in place all conceivable workpiece shapes and sizes quickly and securely.



### Positioning display of consoles and vacuum pods

The workpiece, consoles and vacuum pods are all displayed in the CNC board at the same time. This guarantees, that the workpiece is securely positioned and that there can be no collision between the tool and vacuum pod. The exact position of the vacuum pods on the consoles is shown accurately using a laser.

### Linear positioning laser

Line laser for virtual 0-position in the Y direction for precise positioning of segmental arch frames.

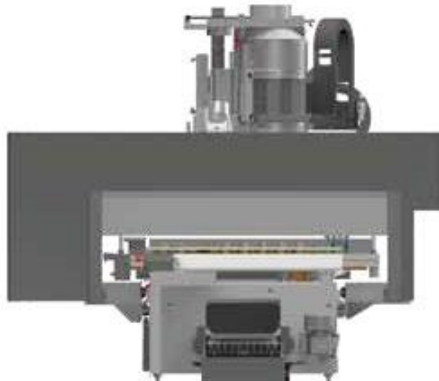


## Rows of stops



### Workpiece cylinder stops at the "double zero point" (second fence row)

In addition to the workpiece cylinder stops at the "standard zero point", a second row of stops is available on each console as an option, to be able to process narrow workpieces in the front working field.



### Moving gantry

The gantry is driven on both sides along the X-axis, running on an angled and cambered tooth rail. (H300)



### Frame processing

Continuous fence in the Y direction for an exact positioning of frame components.



### Loading supports

Loading supports assist in the simple loading and unloading of large or heavy workpieces. A major advantage is that they enable you to operate the machining centre alone.



### Reinforced loading supports

Optional reinforced supports for particularly heavy workpieces.



## Template routing

There is a separate connection available for template routing. Using templates makes it possible to fix complex components in place, that cannot be processed using vacuum pods.



## Console activation

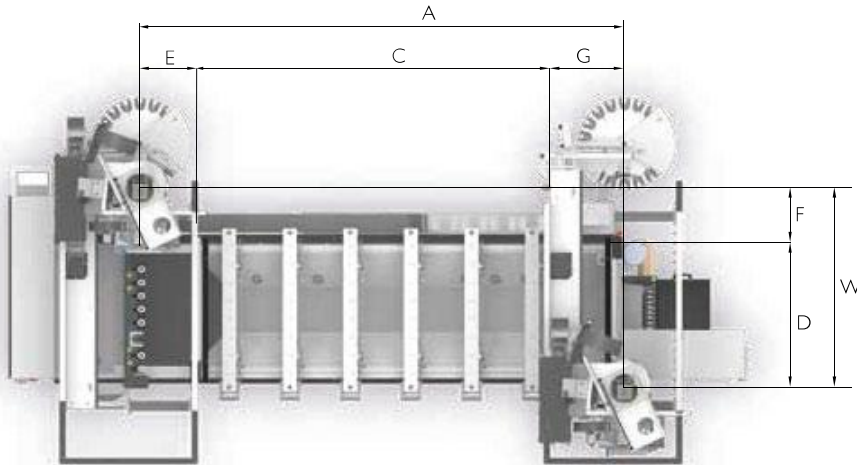
Specially designed for use with compressed air controlled frame clamp systems, this function offers new possibilities and enormous clamping strength when it comes to the processing of solid wood. The ability to be able to deactivate the consoles individually makes it possible to remove offcuts without having to release the vacuum that is holding the workpiece. This ensures that the workpiece stays in exactly the right position for the next working process (inner profiles etc.).



## Workpiece stop for veneered panels

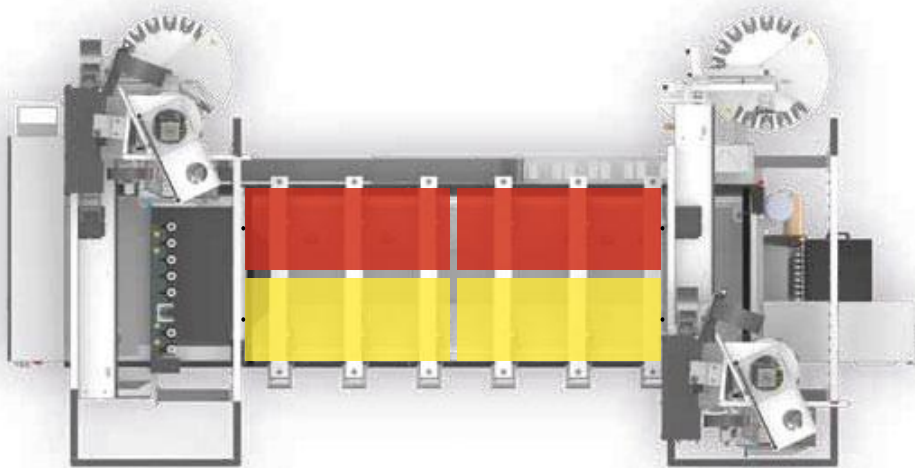
Additional to the workpiece fence cylinders there are also separate fences available for the processing of veneered surfaces with a projecting edge or laminated panels.

# Field configuration of consoles, Clamping options



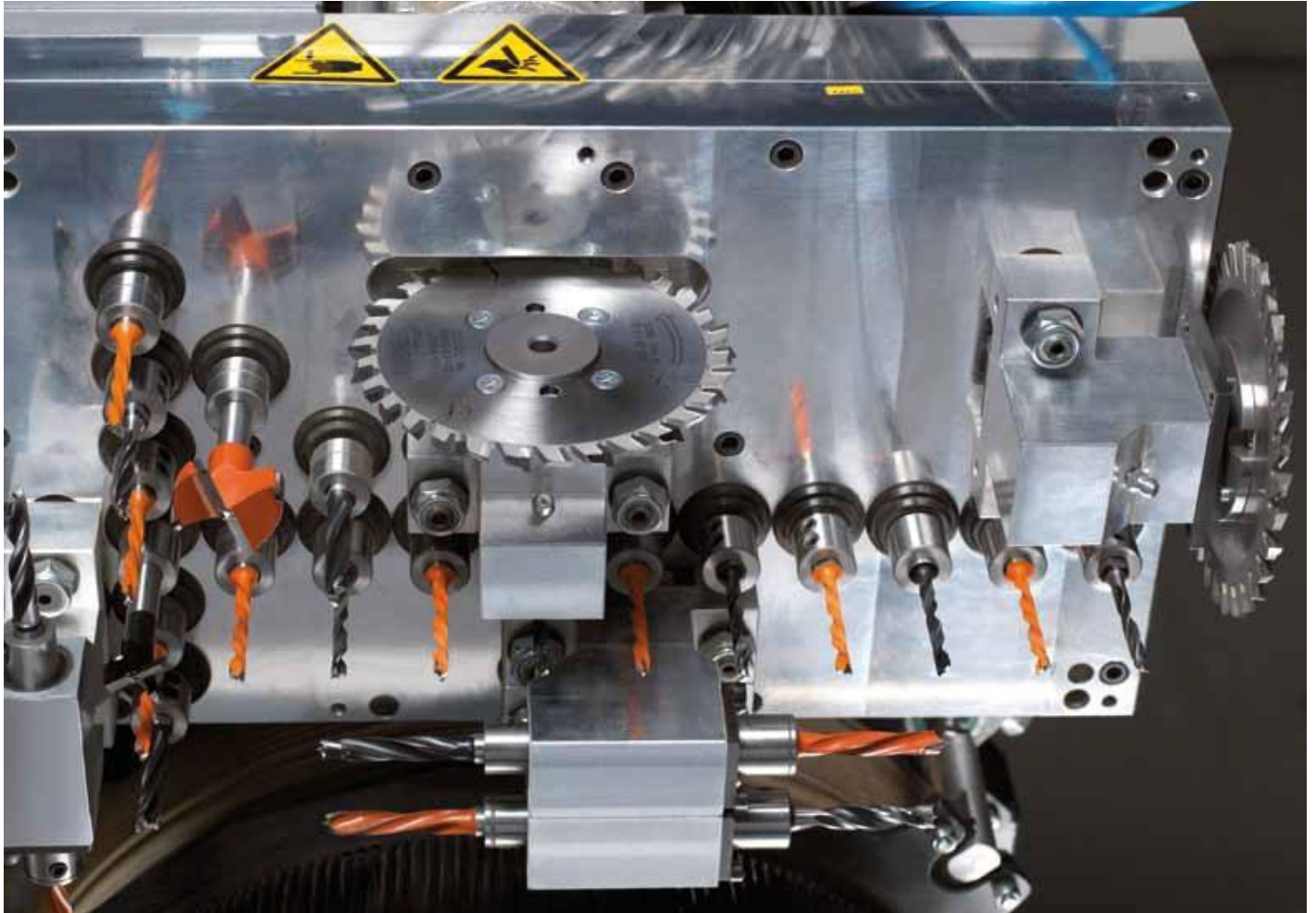
## Working areas, traverse distances

<b>profit H200</b> <b>13.33</b>	<b>profit H300</b> <b>16.33</b>	<b>profit H300</b> <b>16.53</b>
A 4,000 mm	A 4,000 mm	A 6,000 mm
B 1,670 mm	B 1,970 mm	B 1,970 mm
C 3,300 mm	C 3,300 mm	C 5,300 mm
D 1,280 mm	D 1,580 mm	D 1,580 mm
E 540 mm	E 540 mm	E 540 mm
F 390 mm	F 390 mm	F 390 mm
G 160 mm	G 160 mm	G 160 mm



2 working fields in the X direction for  
pendulum operation; with front and rear fences

## Drilling head



### The drilling head with 24 drilling spindles

- 18 vertical drilling spindles, 32 mm distance between spindles: each can be used individually
- 6 horizontal drilling spindles, spaced at 32 mm: 4 in the X and 2 in the Y axis, each can be used individually
- Integrated grooving saw units positioned in both the X-axis and Y-axis direction
- Inverter driven motor up to 7,500 rpm

### Highlight

The complete working field can be covered by the drilling head for vertical and horizontal drilling.



DH 24 6H 2S



Configuration option DH 16 4H 2S

# Spindle

With a motor power of 12 and 15 kW and up to 24,000 rpm, the main motor is controlled using an inverter and is attached directly to the support module of the drilling head in the Z axis. Dual linear guides guarantee highly precise vertical guiding. The main motor is positioned using ground ball screws. The HSK F63 tool clamping is done automatically. The clamping of the tool is checked using sensors, which then confirm that it is safe to start the operation. The tool holder is cleaned pneumatically. The C-axis is optionally available as the fourth interpolating (360°) axis and has a compressed air interface for the units.



## Chip deflector

A chip deflector mounted to the spindle controlled by the C-axis enables the unrestricted use of existing tools. When processing workpiece edges, the dust and chips are directed towards the extraction canal.



## Chip conveyor

Chip conveyor for waste pieces and residual chips and dust: For the removal of offcuts and chips from the machine chassis (right hand side). At the end of the conveyor belt they are separated using a separating slide and then extracted. The offcuts are collected in a container.



## Controlled extraction hood

The extraction hood positions itself fully automatically to one of 3 positions in relation to the workpiece height which significantly reduces the dust and noise emissions.



## Extraction connection

With the automatic control of the extraction connection, the full extraction capacity is moved between the drilling head and main spindle, depending on what is being used at the time.

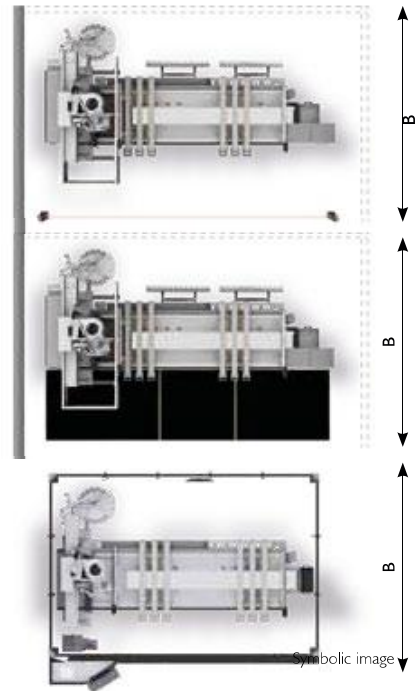
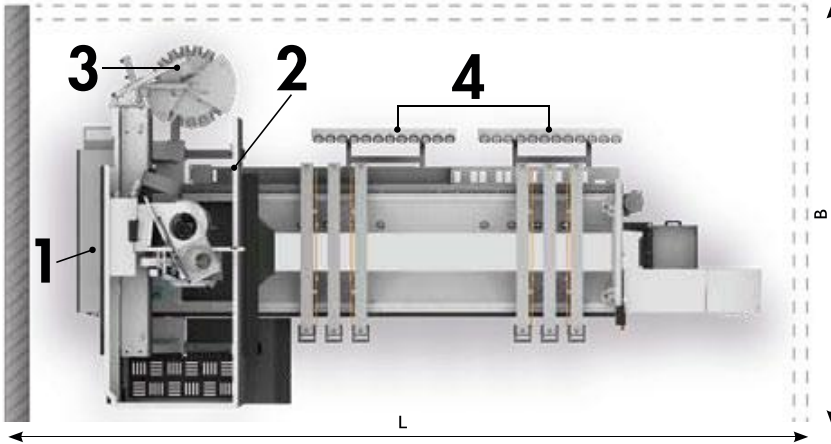


## Compressed air nozzle/spraying unit

Mounted onto the main spindle to optimise routing.



## Tooling positions and space requirements



	profit H200 13.33*	profit H200 13.33	profit H300 16.33	profit H300 16.53
Height [H]	2,300 mm	2,300 mm	2,300 mm	2,300 mm
Length [L] with bumper	-	6,588 mm	6,588mm	8,573 mm
Width [W] with bumper	-	3,493 mm	3,642 mm	3,642 mm
Length [L] with light barrier	5,838 mm	6,323 mm	6,338 mm	8,323 mm
Width [W] with light barrier	4,290 mm	4,290 mm	4,440 mm	4,440 mm
Length [L] with safety mats	-	6,323 mm	6,338 mm	8,323 mm
Width [W] with safety mats	-	4,235 mm	4,385 mm	4,385 mm
Length [L] with safeSpace	-	5,598 mm	5,598 mm	-
Width [B] with safeSpace	-	4,081 mm	4,522 mm	-
Weight (depending on equipment, without packaging)	3,650 kg	3,650 kg	3,900 kg	4,300 kg

\*Special equipment



**1** 12 position linear tool changer on the left hand side of the machine including one pick up place for aggregates



**3** 18 position rotary tool changer mounted to the outrigger  
The rotary tool changer with 18 tool positions is mounted to the back of the gantry and moves together with the gantry along the X-axis. The 18 position rotating tool changer, keeps tool changing times to the bare minimum.



**2** 4 position linear tool changer moving in the X-axis direction  
Tool changer for 4 tools or aggregates, mounted to the gantry. Ensures quick tool changes even when working in pendulum operation.



**4** 12 position linear tool changer mounted to the machine chassis  
The tool changer with 12 tooling positions improves productivity and creates more space for additional tools on the machine.

## Application examples



Steps/staircase production



Solid wood manufacturing



Frame processing



Template milling



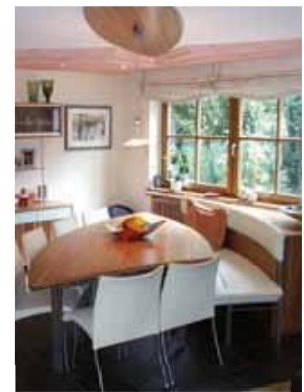
Cabinet production



Working with veneer fences

Unlimited processing possibilities, for a variety of shapes and uses. The high flexibility and quick operational readiness of the profit H200 and H300 CNC machining centres are supported by Format-4 programming software. They ensure, that every individual workpiece, whether easy or difficult to produce, can be produced quickly, economically and profitably. The Format-4 programming software with numerous functions is particularly efficient, multifunctional and self-explanatory.

## Workpiece examples



Various materials: Plastics, Alucobond, mineralised substances, packing material

The variable speed control (max. 24,000 rpm) and the variable feed rate in combination with the right tool, guarantee outstanding results, even when processing plastic. Regardless of whether it is thin workpieces on a template or heavy workpieces, Format-4 covers everything.





# profit H350

## One machine, five axes, limitless possibilities

It is universal workshops in particular, where the individual processing of various materials is becoming increasingly important. The most up-to-date 5 axes CNC technology guarantees limitless creativity, and at the same time reduces the initial investment cost and subsequent costs for special aggregates and tools. Individual tooling configurations and fully automatic production at a manageable investment level - the Format-4 profit H350 makes the future of component manufacturing profitable.



Hose free dual circuit vacuum pod system



Visual display of the status using changing coloured lights



Variable position controlled extraction hood



5 axes - no restrictions



Unlimited processing possibilities



safeSpace





# profit H500 profit H500 MT

## 1000 options, put simply

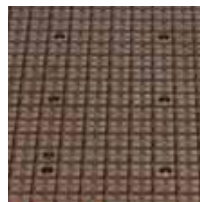
Modern CNC woodworking with individual flexibility as efficient and simple as possible - the new profit H500 MT CNC machining centre puts industrial use at the centre of an innovative operating concept. 34 tool positions included in the standard equipment offer a wide range of processing options. The large dimensioned matrix table made from phenolic resin guarantees optimal vacuum distribution secure processing and as such secure processing of workpieces of any material and size. The machine is equipped with an aluminium table as standard, which allows individual mechanical clamping systems allowing any type of workpiece or template to be fixed to the machine. The in-house developed software with clear menu guidance and intuitive operating concept makes programming simple.



5 axes - no restrictions



Automatic consoles and vacuum positioning



Phenol resin table with optimised vacuum distribution for limitless workpiece variation



Visual display of the status using changing coloured lights



Unlimited processing possibilities



Aggregate carrier with two Z-axes



[fg.am/ph500mt-eng](http://fg.am/ph500mt-eng)

profit H500 MT

## Working area

### Position display of the consoles and vacuum pods

The workpiece, consoles and vacuum pods are all displayed in the CNC board at the same time. This guarantees, that the workpiece is securely positioned and that there can be no collision between the tool and vacuum pod. The exact position of the vacuum pods on the consoles is shown accurately using a laser.



### Hose-free FORMAT-4 dual circuit system with vacuum pod height of 100 mm

The dual circuit vacuum console table with manual pod positioning prevents any unintentional movement of the pods whilst loading the workpiece. Various different Format-4 vacuum pods can be used to hold in place all conceivable workpiece shapes and sizes quickly and securely.



### Frame processing

Continuous fence in the Y direction for an exact positioning of frame components.

## Rows of stops



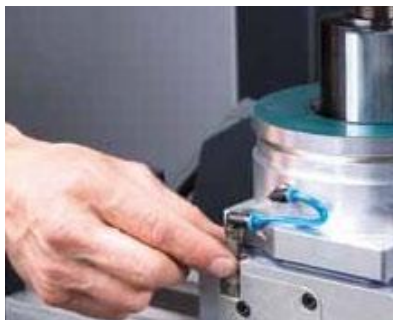
### Workpiece cylinder stops at the "double zero point" (second fence row)

In addition to the workpiece cylinder stops at the "standard zero point", a second row of stops is available on each console as an option, to be able to process narrow workpieces on the front working field.

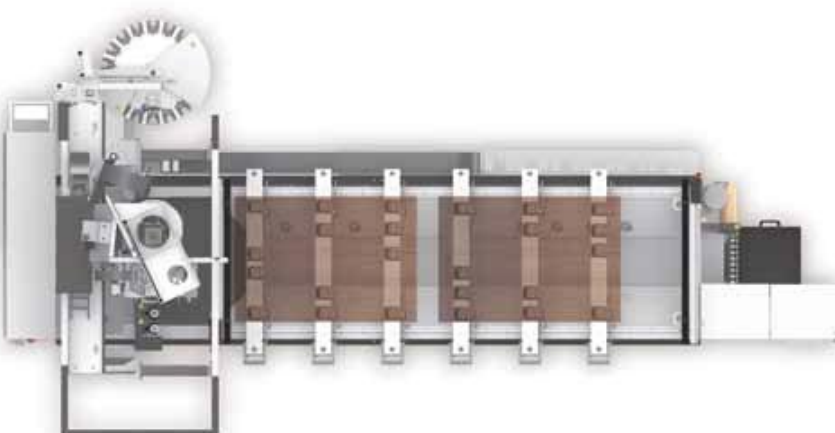


### The "s-motion" consoles

The fully automatic "s-motion consoles" enable you to completely process door and window components extremely quickly and with first class quality.



Quick, hose-free change from frame to panel processing without any additional changeover work required.



"s-motion" table for the automatic positioning of the vacuum pods and frame clamps in less than 30 seconds. As the workpiece is being processed on the right hand side of the machine, the table on the left will already be automatically preparing everything for the next stage of production. The productive "s-motion" table guarantees real time savings when working in pendulum operation.





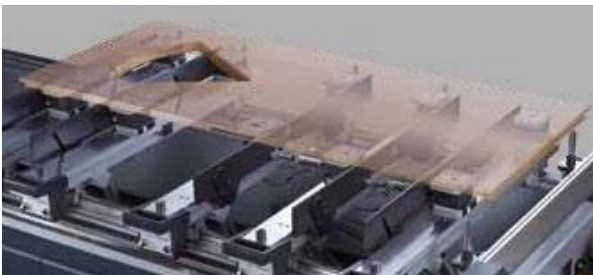
## Linear positioning laser

Linear laser for virtual 0-position in the Y direction for precise positioning of segmental arch frames.



## Double line laser

When positioning workpieces on split working fields, the optionally available double line laser which is positioned on the middle of the working field in X can be of assistance.



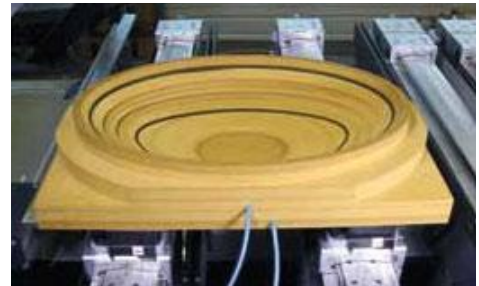
## Loading support

Loading supports assist in the simple loading and unloading of large or heavy workpieces. A major advantage is that they enable you to operate the machining centre with one person.



## 2 level loading supports for frame processing when working alone

Loading supports at level 2: Glued frames are brought into position using the frame clamps for the outer profiling. Loading supports then drop to level 1, the frame clamps hold the glued frame in place.



## Template routing

There are 4 separate connections per working field available for template routing. Using templates makes it possible to fix complex components in place, that cannot be processed using vacuum pods.



## Workpiece stop for veneered panels

Additional to the workpiece fence cylinders there are also separate fences available for the processing of veneered surfaces with a projecting edge or laminated panels.



## Console activation

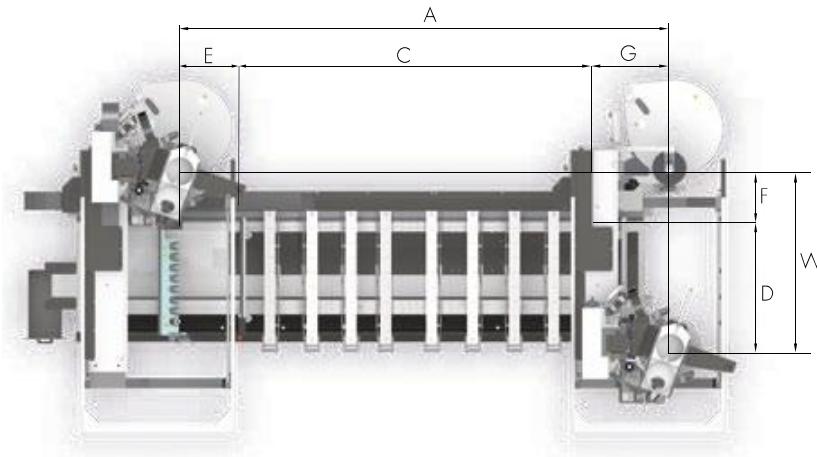
Specially designed for use with compressed air controlled frame clamp systems, this function offers new possibilities and enormous clamping strength when it comes to the processing of solid wood. The ability to be able to deactivate the consoles individually makes it possible to remove offcuts without having to release the vacuum that is holding the workpiece. This ensures that the workpiece stays in exactly the right position for the next working process (inner profiles etc.).



## Perfect nesting with the Format-4 matrix table

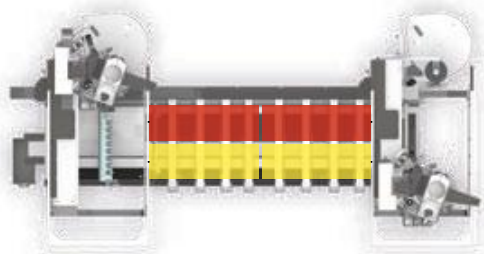
The nesting table with optimal matrix geometry can be placed directly on the consoles and enables the full panel support of workpieces of any size and design, guaranteeing exact positioning.

## Field configuration of consoles, clamping options

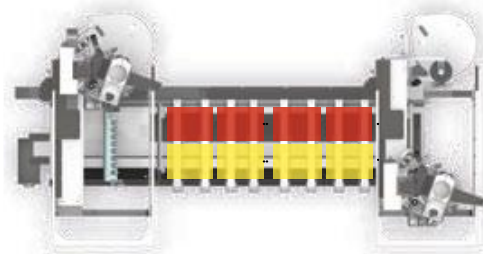


### Working areas, traverse distances

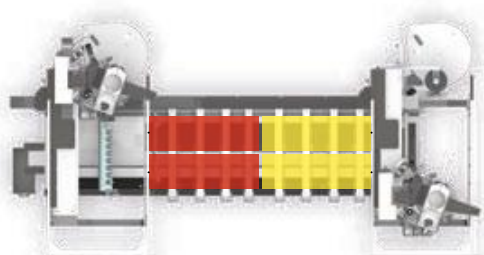
<b>profit H350 16.30</b>	<b>profit H350 16.50</b>	<b>profit H500 16.38</b>	<b>profit H500 16.58</b>
A 4,000 mm	A 6,010 mm	A 4,930 mm	A 6,730 mm
B 1,970 mm	B 1,970 mm	B 1,925 mm	B 1,925 mm
C 3,000 mm	C 5,000 mm	C 3,740 mm	C 5,540 mm
D 1,550 mm	D 1,550 mm	D 1,570 mm	D 1,570 mm
E 540 mm	E 540 mm	E 690 mm	E 690 mm
F 420 mm	F 420 mm	F 420 mm	F 420 mm
G 460 mm	G 460 mm	G 500 mm	G 500 mm



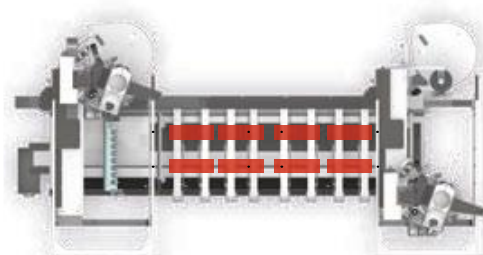
2 working fields in the X direction for pendulum operation; with front and rear fences



profit H500 16.58: 4 working fields in the X direction with a central row in X for pendulum operation using a laser; with front and rear fences



2 working areas in X, 2 in Y for pendulum operation



profit H500 16.58: One working area for 8 workpieces for frame production



Limitless machining diversity with the FORMAT-4 drilling group and the powerful 5-axes spindle

### Highlight

The complete working field can be covered by the drilling head for vertical and horizontal drilling.

## Drilling head

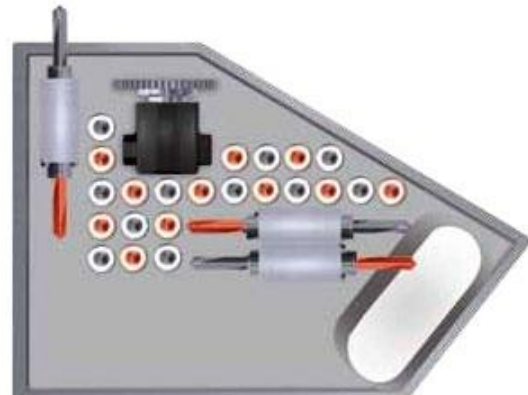
The drilling head with 18 drilling spindles

- 12 vertical drilling spindles, 32 mm distance between spindles: each can be used individually
- 6 horizontal drilling spindles, spaced at 32 mm: 4 in the X and 2 in the Y axis, each can be used individually
- Integrated slot cutter in the X-axis
- Inverter driven motor up to 7,500 rpm



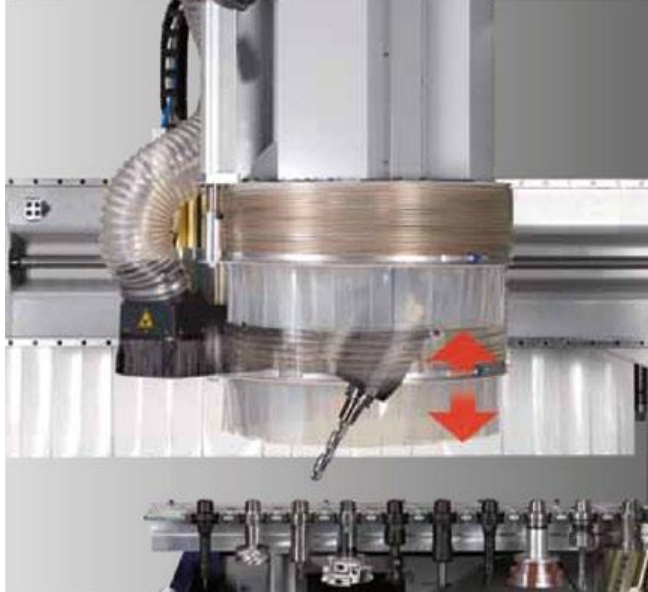
The drilling head with 28 drilling spindles

- 22 vertical drilling spindles, 32 mm distance between spindles: each can be used individually
- 6 horizontal drill spindles, spaced at 32 mm: 4 in the X and 2 in the Y axis, each can be used individually
- Integrated slot cutter in the X-axis
- Inverter driven motor up to 7,500 rpm



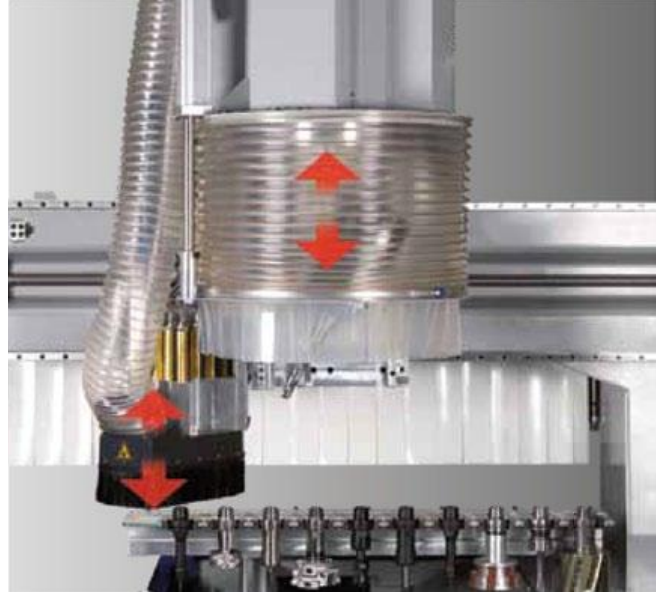
## The main spindle: 5 axes - no restrictions

The high performance 5 axes spindle with 12 or optionally 15 kW motor guarantees excellent results when routing, drilling and cutting at every angle. The special liquid cooling and high quality ceramic bearings ensure durable precision and processing smoothness of every material. An inverter regulates the speed up to 24,000 rpm.



### Variable position controlled extraction hood

The extraction hood adjusts itself fully automatically to the workpiece height which significantly reduces the dust and noise emissions.



### 2 CNC controlled Z axes

The aggregate carrier with two Z axes enables the quick, varying use of drilling head and main spindle. The travel distance of the Z axis is 500 mm, ensuring that long tools can be used even on high workpieces.



### Controlled extraction connections

With the automatic control of the extraction connection, the full extraction capacity is moved between the drilling head and main spindle, depending on what is being used at the time. Efficient extraction results guaranteed.



### Chip conveyor

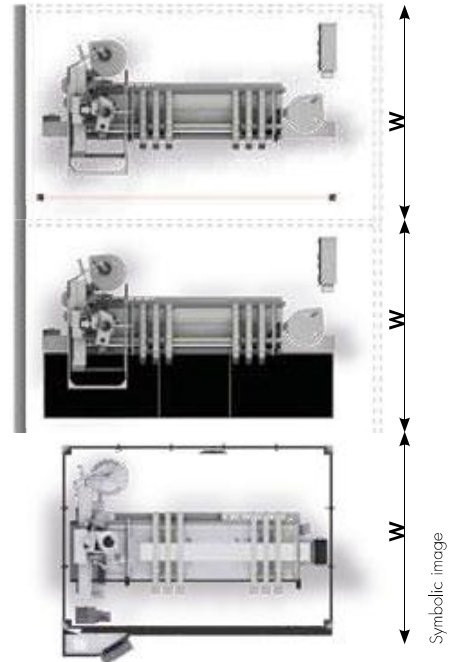
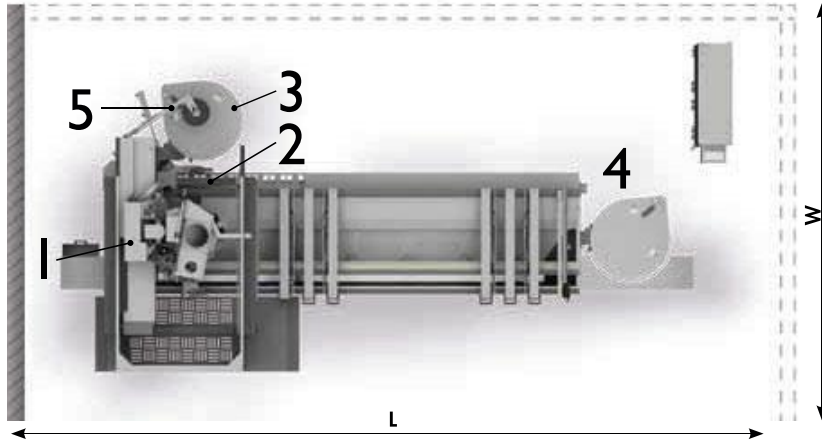
Chip conveyor for waste pieces and residual chips and dust: For the removal of offcuts and chips from the machine chassis (right hand side). At the end of the conveyor belt they are separated using a separating slide and then extracted. The offcuts are collected in a container.



### Chip deflector

A chip deflector mounted to the spindle controlled by the C-axis enables the unrestricted use of existing tools. When processing workpiece edges the dust and chips are directed towards the extraction canal.

## Tooling positions and space requirements



	profit H350 16.30	profit H350 16.50	profit H500 16.38	profit H500 16.56	profit H500 16.38 MT	profit H500 16.56 MT
Height [H]	2,600 mm	2,600 mm	2,640 mm	2,640 mm	2,640 mm	2,640 mm
Length [L] with bumper	6,838 mm	8,838 mm	8,110 mm	9,948 mm	8,435 mm	10,235 mm
Width [W] with bumper	3,706 mm	3,706 mm	4,154 mm	4,154 mm	4,154 mm	4,154 mm
Length [L] with light barrier	6,588 mm	8,590 mm	8,110 mm	-	8,110 mm	9,869 mm
Width [W] with light barrier	4,538 mm	4,538 mm	5,015 mm	-	5,015 mm	5,015 mm
Length [L] with safety mats	6,588 mm	8,590 mm	8,110 mm	9,848 mm	-	-
Width [W] with safety mats	4,484 mm	4,484 mm	4,975 mm	4,975 mm	-	-
Length [L] with safeSpace	5,808 mm	-	-	-	-	-
Width [W] with safeSpace	4,520 mm	-	-	-	-	-
Weight (depending on equipment, without packaging)	4.100 kg	4,300 kg	4,500 kg	5,000 kg	4.500 kg	5.000 kg



- 1** **Linear changer, mounted to the machine chassis**  
The tool changer with 10/12 tooling positions improves productivity and creates more space for additional tools on the machine.



- 2** **4 position linear tool changer moving in the X-axis direction (H350)**  
Tool changer for 4 tools or aggregates, mounted to the gantry. Ensures quick tool changes even when working in pendulum operation.



- 3** **Rotary tool changer, mounted to the outrigger**  
The rotary tool changer with 18/24 tool positions is mounted at the back of the outrigger and moves with the outrigger along the X axis. The 18/24 position rotating tool changer, keeps tooling changing times to the bare minimum. This makes the Format-4 even more productive!

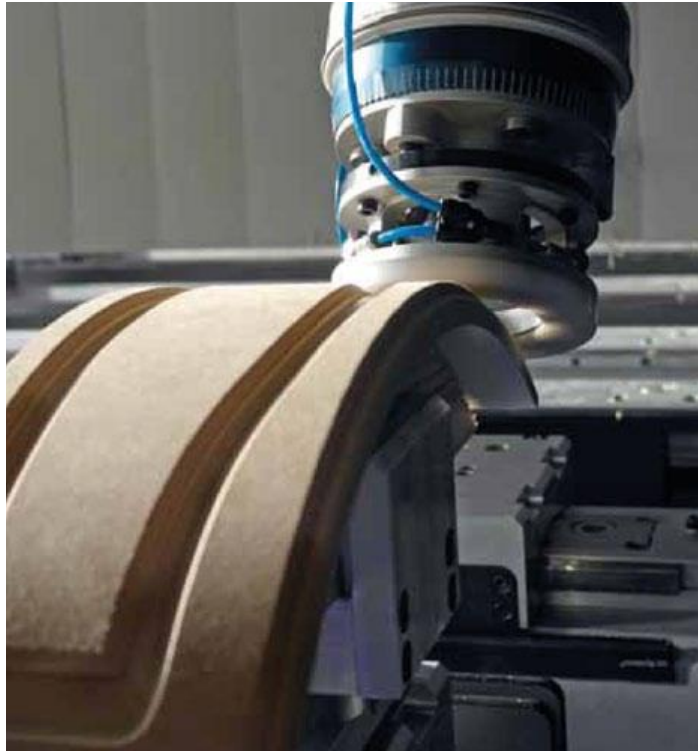


- 4** **An additional 24 position rotary tool changer (H500)**  
Positioned on the side of the machine chassis, it offers an additional 24 tooling positions for even quicker production cycles.



- 5** **Saw blade changer**  
Travels with the outrigger for saw blades with a max. Ø 350 mm.

# Application examples



Standard aggregate use incl. controlled compressed air



Door processing



Tilts upwards up to 10°



Door frame manufacturing



Sharpening of corners



Lock recess



Staircases



CNC processing in every format



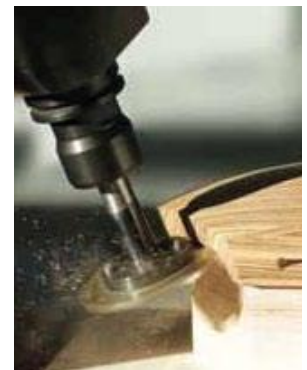
Cabinet production



Clamex-P



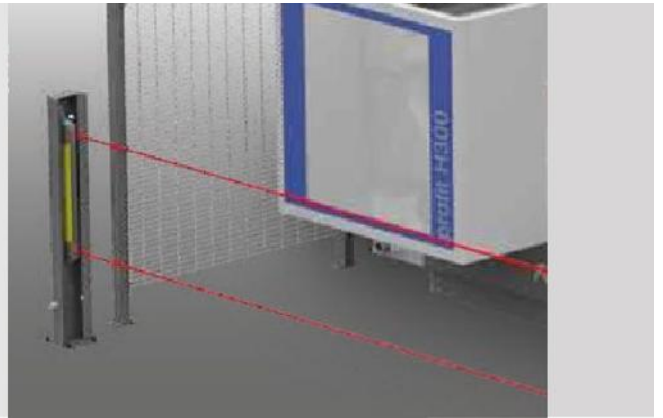
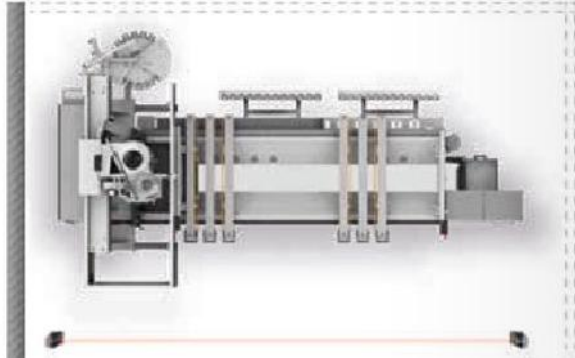
Simultaneous 5 axes processing 3D applications



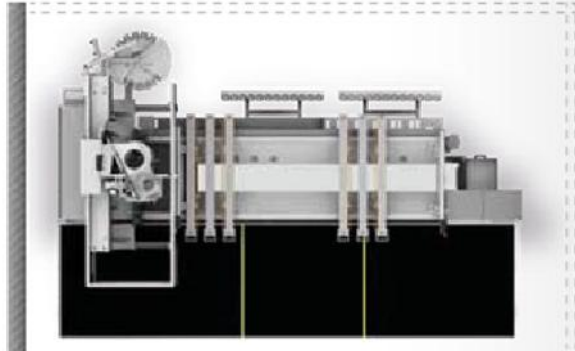


## Safety systems

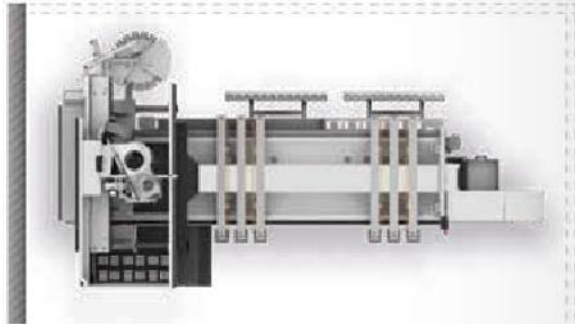
### Light barrier



### Safety mats



### Bumper



### safeSpace

Immediate status overview - the status display informs you about the current machine status



Everything at a glance - large monitor and the wide view panel always offer the best view of all processing steps

3300 mm door opening makes it easy and comfortable to load and unload

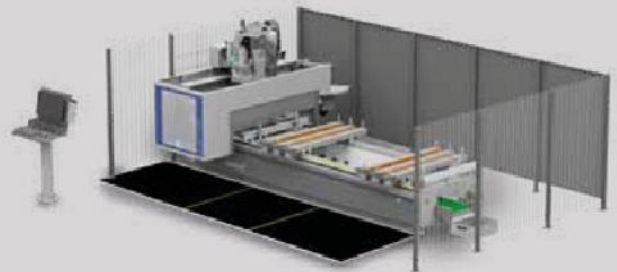
With this equipment variant the CNC machining centre can only be accessed by crossing a light barrier. If the beam is interrupted, the process stops immediately.

Maximum axis travel speed guarantees the best process times with this cost-effective safety solution. Loading with a forklift from the front of the machine is possible as there are no sensitive pressure sensors. Two workpieces can be machined in the parallel working mode on the two machining fields.



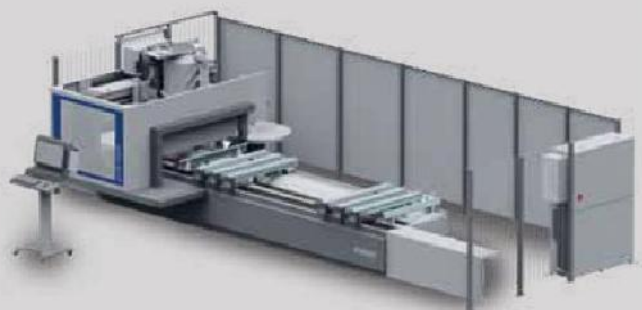
The three section, pressure sensitive mat ensures the safety distance from the protective hood. When the operator enters the safety zone, the processing process stops.

Due to the three way split of the mat, the machine can be loaded in pendulum operation and allows maximum processing speeds with shortest processing times.



The bumper safety technology allows you to have direct access to the CNC machining centre, without compromising work safety. Numerous sensors on the console register every touch and reliably protect you from potentially dangerous situations.

Without safety mats or light barriers it is possible to place the material right next to the machine or to prepare workpieces next to the machine for further processing. Ideal for smaller workshops: the installation size of the machine in the Y direction can be significantly reduced by using the new bumper technology.



The profit H350, H300 and H200 CNC machining centres, enclosed on all sides by the Format 4 safeSpace, bring the most modern of CNC technology even to smaller workshops. Up to 7.5 m<sup>2</sup> less installation space required, but with massively increased working safety - that is the CNC advantage of machines from Format-4.



[fg.am/sasp-eng](http://fg.am/sasp-eng)

## Vacuum pods and clamping systems

Types of vacuum pods for hose free 2 circuit hose system



## Schmalz vacuum block pod 2 circuit console system height 100 mm

POS	Name	L x W	X/Y
1	Vacuum pods	140 x 115	-
2	Vacuum pods	125 x 75	X
3	Vacuum pods	125 x 75	Y
4	Vacuum pods	125 x 75 (rotatable by 360°)	-
5	Vacuum pods	125 x 50	X
6	Vacuum pods	125 x 50	Y
7	Vacuum pods	125 x 50 (rotatable by 360°)	-
8	Vacuum pods	130 x 30	X
9	Vacuum pods	130 x 30	Y

Version with height of 125 mm, 50 mm  
and 75 mm ("s-motion" on the H500) on request



## Perfect nesting with the FORMAT-4 matrix table

The nesting table with optimal matrix geometry can be placed directly on the consoles and enables the full panel support of workpieces of any size and design, guaranteeing exact positioning.

## Frame clamps

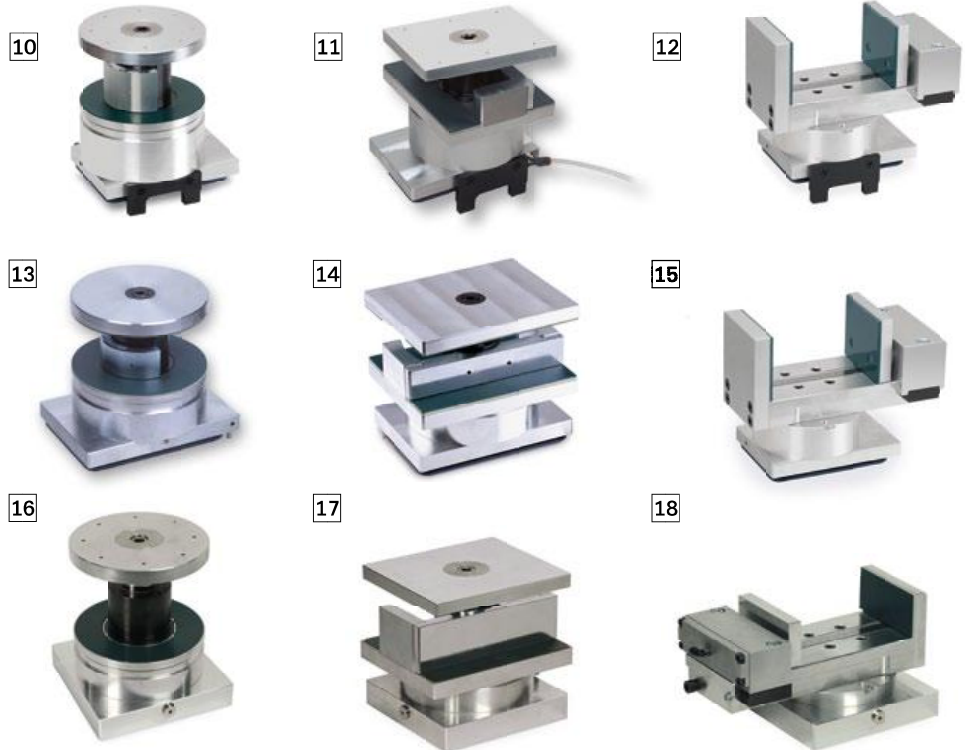


For all clamping ranges and every shape of frame

2 vacuum circuits holds the frame clamp to the console and locating pins ensure maximum repeatability. Clamping requires 6 bar compressed air. The ability to lower the base plate by 3 mm (excluding positions 12+15) guarantees simple re-clamping when moving from inner to outer profiles. There are various different plate shapes available, depending on the amount of clamping force required.



New: Increased grip with the use of pads



## Frame clamps profit H200/H350/H500

POS	Name	Clamping range
10	Frame clamps (with locking flaps using via compressed air)	55–105
11	Single piece frame clamp (with locking flaps using compressed air)	55–105
12	Frame clamp with horizontal clamps (with locking flaps using compressed air)	0–135
13	Frame clamps for s-motion consoles (using compressed air)	55–105
14	Single piece frame clamp s-motion consoles (using compressed air)	55–105
15	s-motion console frame clamp with horizontal clamps (using compressed air)	0–135
16	Frame clamp for the profit H500 MT (using compressed air)	55–105
17	Single component frame clamp for the profit H500 MT (using compressed air)	55–105
18	Frame clamp for the profit H500 MT with horizontal clamps (using compressed air)	0–135



## Frame clamp accessories profit H200/H300/H350/H500

POS	Name	Clamping range
19	Clamping plate	15–65
20	Clamping plate	55–105
21	Teardrop shaped clamping plate	55–105
22	Rectangular clamping plate	55–105

## Control

### Status indicator

The changing colours of the innovative lighting system display the various machine statuses. This makes it possible to keep up-to-date on the current status of your profit CNC Machining Centre.



### Fixed or mobile control terminal

Large 24" LED colour screen for the clear display of the control software.  
Depending on the safety system chosen, the control terminal can be fixed or mobile.

### Green Line

The Green Line Package reduces the energy consumption when the machine is not being used or only running at partial capacity.





HSK F63 single angle head,  
for use with a drill bit or a  
router with 1 connection  
**Order no. 300-24-001**

HSK F63 single angle head,  
for use with a screw mounted  
saw blade with one WELDON connection,  
max. Ø 180 mm **order no. 300-24-002**  
max. Ø 240 mm **order no. 300-24-003**  
max. Ø 300 mm **order no. 300-24-007**

HSK F63 single angle cutter, for use  
with a saw blade with 1 connection  
(ATLOCK lock),  
max. Ø 240 mm **order no. 300-24-009**  
max. Ø 300 mm **order no. 300-24-008**



HSK F63 door lock aggregate  
with 1 ER 32 connection for drill bits  
or router tools with two compressed air  
jets and 1 ER 16 connection at the rear  
for drill bits or router tools  
**Order no. 300-24-017**  
**Order no. 300-24-038 (H08 21-31P)**

HSK F63 floating unit for  
vertical copying of the exact  
routing depth HSK F63  
**Order no. 300-24-041**

HSK F63 dual angle head with  
2 connections, ER 25 drill bit  
and router tools  
**Order no. 300-24-011**



HSK F63 belt sanding aggregate  
for sanding lateral surfaces  
**Order no. 300-24-039**

HSK F63 knife aggregate,  
pneumatic, for cutting soft  
materials  
**Order no. 300-24-042**

HSK F63 dual-sided angle head  
with 2 WELDON connections  
for drilling tools  
**Order no. 300-24-033**

HSK F63 hollow mortise  
aggregate for the chiseling  
out of square holes  
**Order no. 300-24-040**



HSK F63 dual-sided angle head with 1 ER 25 connection for drill bits and router tools and 1 WELDON connection with screw mounted saw blade, max. Ø 180 mm  
**Order no. 300-24-012**

HSK F63 four-sided angle head with 2x ER 25 connections for drill bits and routing tools and 2x ER 32 connections 4 ER 25 connections  
**Order no. 300-24-014**  
**Order no. 300-24-015**

HSK F63 3+1 angle head with Ø 10 mm connection, spaced at 22 mm  
**Order no. 300-24-016**



HSK F63 tilting aggregate with 1 ER 25 connection for drilling, routing or sawing tools max. Ø 180 mm  
**Order no. 300-24-005**

HSK F63 single WELDON connection tilting head for saw blades with max. Ø 180 mm  
**Order no. 300-24-006**

HSK F63 tilting aggregate with ET interface for drilling, routing or sawing tools, max Ø 180 mm  
**Order no. 300-24-037**



HSK F63 tilting aggregate with 1 ER 25 connection for drilling, routing or sawing tools, digital, max. Ø 240 mm angle adjustment and quick connection  
**Order no. 300-24-026**

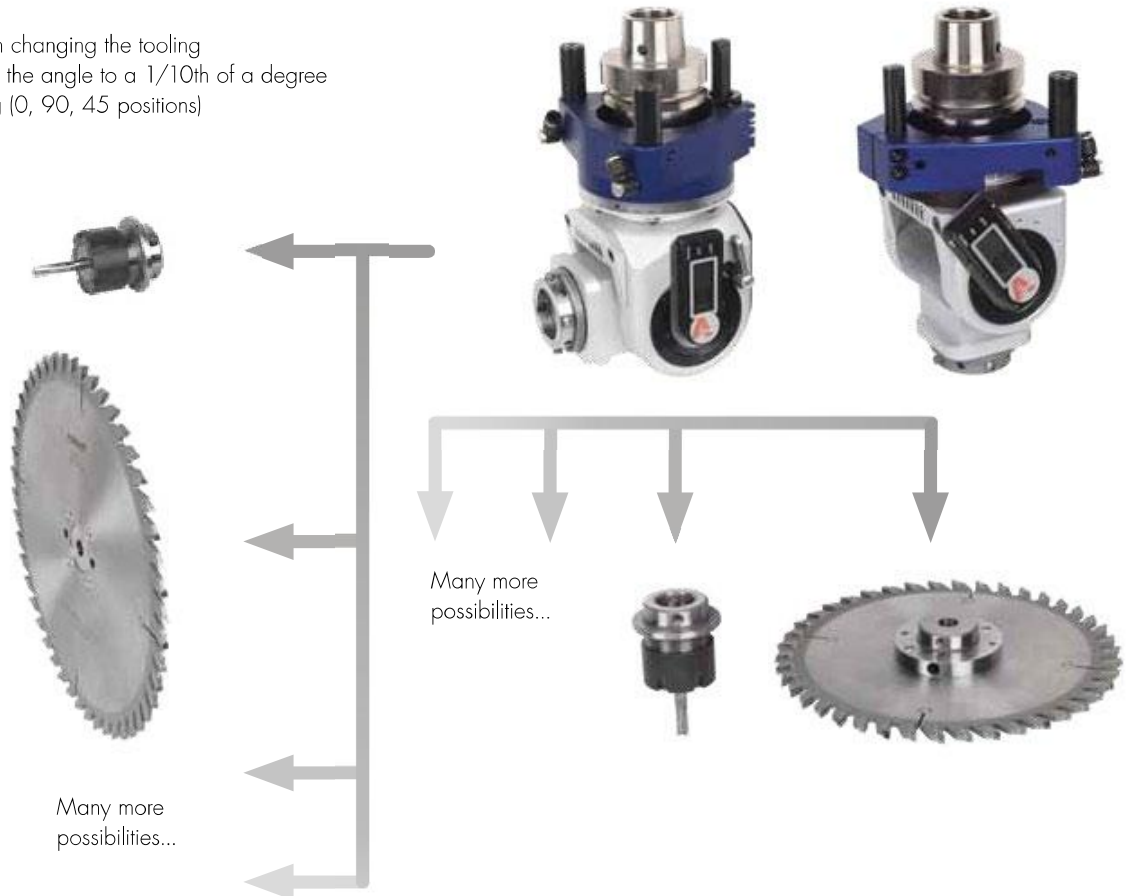
HSK F63 tilting aggregate, digital with ET interface for drilling, routing or sawing tools, max. Ø 240 mm angle adjustment and quick connector  
**Order no. 300-24-024**

HSK F63 digital tilting aggregate with 1 WELDON shank for saw blades with max. Ø 240 mm  
**Order no. 300-24-035**



## ET interface (profit H200/H300/H350/H500/H10)

- Repeatability
- Saves time when changing the tooling
- Exact reading of the angle to a 1/10th of a degree
- Fixed positioning (0, 90, 45 positions)



### Accessories for the ET interface



ET adapter for the mounting of tooling onto aggregates with an ER 25 interface mini adapter for ET interlaces  
Order no. 300-24-028



ET adapter for the mounting of tooling onto aggregates with an ET interface WELDON adapter for ET interlaces  
Order no. 300-24-030

ET adapter for the mounting of tooling onto aggregates with a Clamex ET interface adapter for ET interlaces  
Order no. 300-24-027

ET adapter for the mounting of tooling onto aggregates with an ET set (1 x WELDON/ 2 x ER 25) ET interlace  
Order no. 300-24-031

ET adapter for the mounting of tooling onto aggregates with an ET interface ET set (2 x WELDON/1 x ER 25)  
Order no. 300-24-032

## 5 motion, the special aggregate from FORMAT-4 (profit H10)

### The 5 axis unit from FORMAT-4: Automatically adjustable to any position!

The automatically adjustable "5-motion" tilting aggregate from Format-4, makes it possible to affordably upgrade every CNC machine to a 4 and 5-axis CNC machining centre.

Low investment, high savings! With the use of an automatically adjustable Format-4 "5-motion" tilting aggregate, the performance and the efficiency of every CNC machine increases significantly. The automatically adjustable Format-4 "5-motion" tilting aggregate reduces investment costs for any additional tools or aggregates required. Additional savings are achieved through the shorter processing times (less tool change cycles for each workpiece), time and therefore money. In summary, the automatically adjustable Format-4 "5-motion" tilting aggregate offers every company, not only a quick return on the investment, but also secures the future value of the existing CNC machining centre.



### 5-motion<sup>plus</sup>

#### The FORMAT-4 5-axis aggregate with tool interface

The "plus" stands for more tools, which can be used within one program. With the 5-motion<sup>plus</sup> - aggregate, saw blades, routers and drill bits can all be used within a single program and be changed automatically. The interface of the 5-motion<sup>plus</sup> - aggregates enables the tool change using the rear tool changer at the same speed as a standard tool change. The Format-4 5-motion<sup>plus</sup> aggregate convinces with limitless flexibility and variety!

