

Nesting. Made in HOMAG.

HC | HOMAG

Special for your requirements in:
Asia & Australia

CNC-Processing Center
CENTATEQ N-500

YOUR SOLUTION







Nesting. Made in HOMAG.

THE TYPICAL APPLICATIONS OF NESTING are creation of carcass furniture, dividing and refining of furniture fronts and construction of frame furniture.

CARCASS FURNITURE

- Routing of all components required for a carcass
- Drilling and grooving in just one cycle

FURNITURE FRONTS

- Fast dividing and refining of furniture fronts from one workpiece – everything in one cycle!
- The application of units provides high flexibility for the further processing

FRAME FURNITURE

- High degree of utilization due to easy handling of “free” formed parts

ALL FROM ONE SOURCE FOR THE AUSTRALIAN MARKET



For all sales enquiries ring **1800 355 635**.
If you have any questions or you are uncertain as to who you should contact, please email us.

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Advantages of nesting concepts Made in HOMAG

- Very flexible production method suitable for processing of fronts with profile, pure cutting, molded parts or small parts in batch size 1 production with one nesting machine.
- Drilling, routing, cutting up to the finished part with one nesting machine increases profit production.
- Customized processing of complete raw boards in the best use of the entire material.
- Real-time transmission of processing coordinates from the machine control to the machining tools.
- Easy combination with handling solutions up to fully automatic material feeding.





CENTATEQ N-500 – Highlights as standard



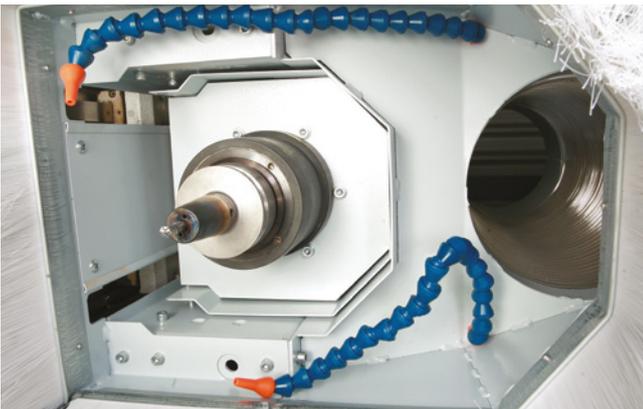
Tool length control

- Following the tool change a tool length control is carried out and compared with the integrated tool data file



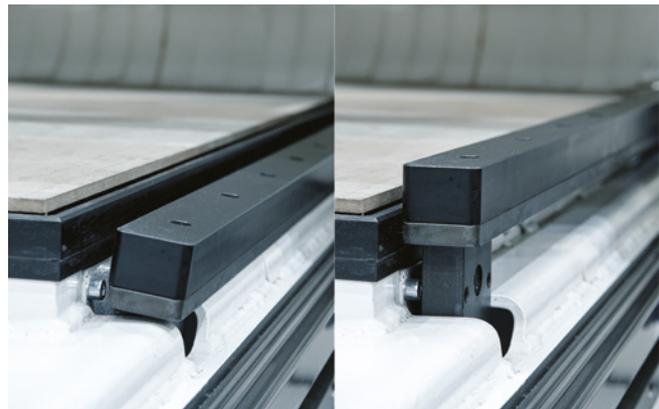
High-Speed 7500

- Spindles with 1500 - 7500 RPM incl. the patented quick change system



Configuration

- Standard: 11 kW/ S6 HSK routing spindle liquid cooled



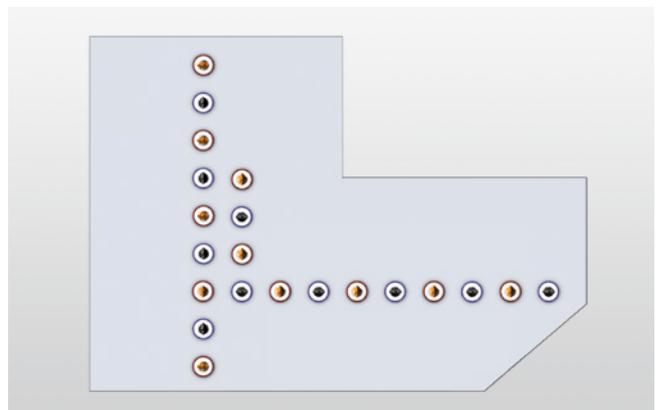
Lowerable fence guide

- Suitable for safe outfeed of workpieces



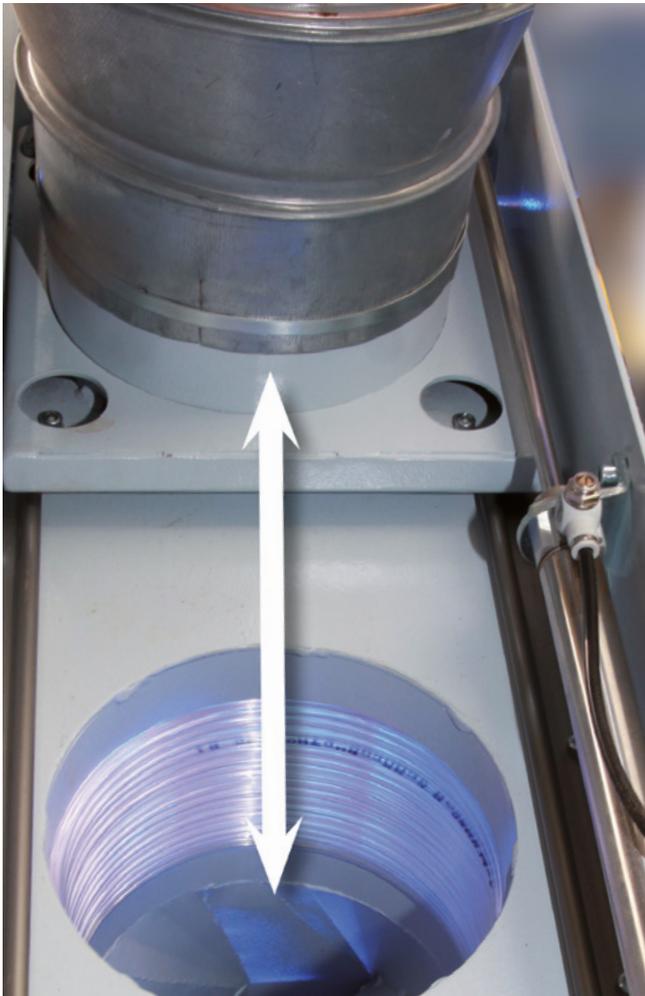
Vacuum lever for raw panel positioning

- For automatic positioning of the raw panels against the fence guide



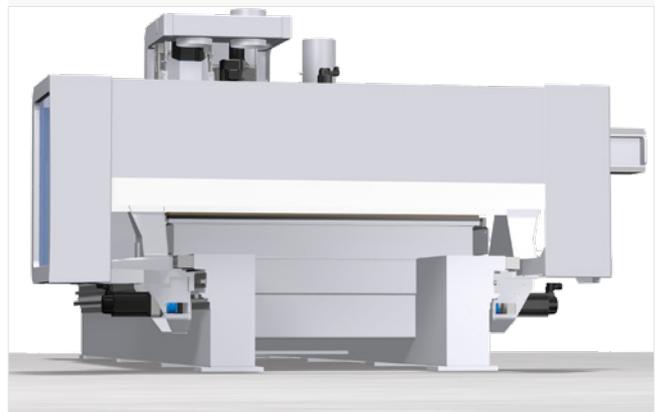
High-Speed 7500 Drilling block | 21 spindles

- 21 vertical drilling spindles



Program-controlled extraction connection

- For an optimum dust extraction and economic use of extraction energy (ecoPlus)



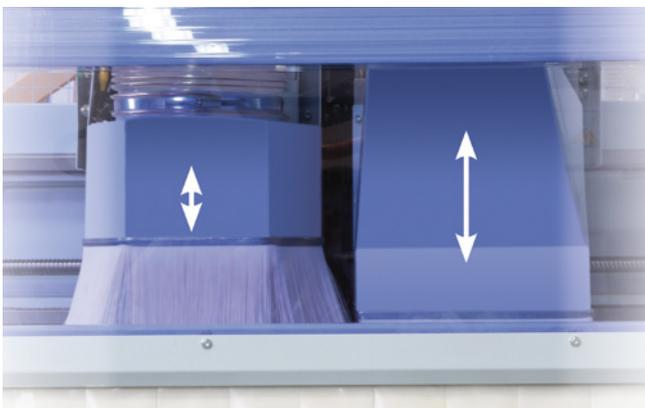
Synchronous drive

- 2 synchronized digital servo-drives in X-direction guarantee highest processing quality



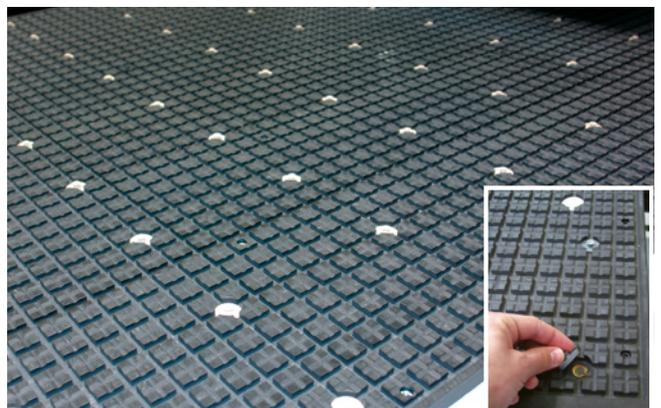
Tool box »STARTER KIT«

- Top equipment – from the very start



2 CNC-controlled Z-axes in combination with drilling block

- Optimal dust extraction and bigger operative range for processing units
- Weight distribution of the mass (processing units) to the two Z-axes = more stability, higher processing quality



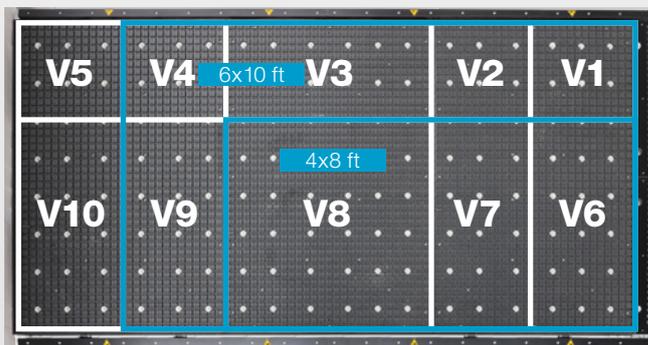
MATRIX table Pro Plus

- High flexibility
- With grid grooves for clamping of templates or workpieces. Grid grooves for inlaying of a rubber sealing.

CENTATEQ N-500 – Efficient table field occupation by MATRIX Pro Plus

By automatically selecting and deselecting the table field occupation, the vacuum is activated in the required area and is effective where it is needed. The areas are optimally matched to the established range of boards.





**Segmentation of vacuum zones on the example of table size
1.850 x 3.700 mm | 6 x 12 ft**

- Segmentation in 10 fields
- 4 x 8 ft, 4 x 10 ft, 4 x 12 ft
- 6 x 8 ft, 6 x 10 ft, 6 x 12 ft



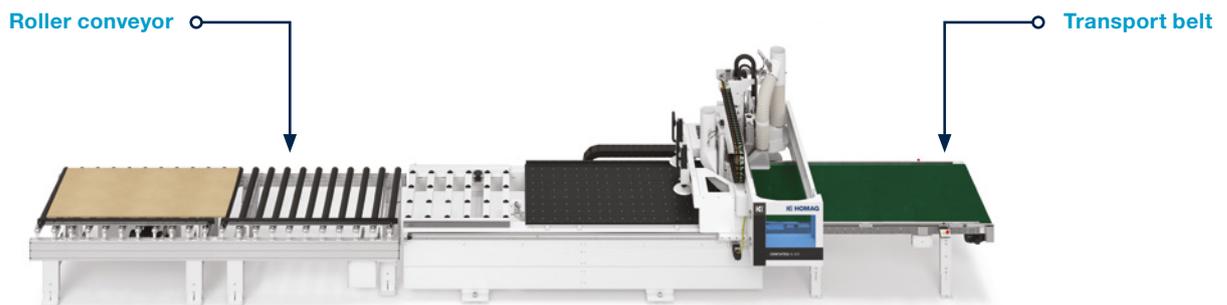
We have the solution for your nesting requirements

With the HOMAG nesting solutions you are always well-advised. Whether the workpieces should be fed by hand, by lifting carriage or by storage – we have always the proper concept for your application. You wish to identify, for example, the workpiece flow exactly by barcode? No problem! With our plug & play features, we enable the successive expansion of the machine from concept 1 onwards concept 2 onwards concept 3.

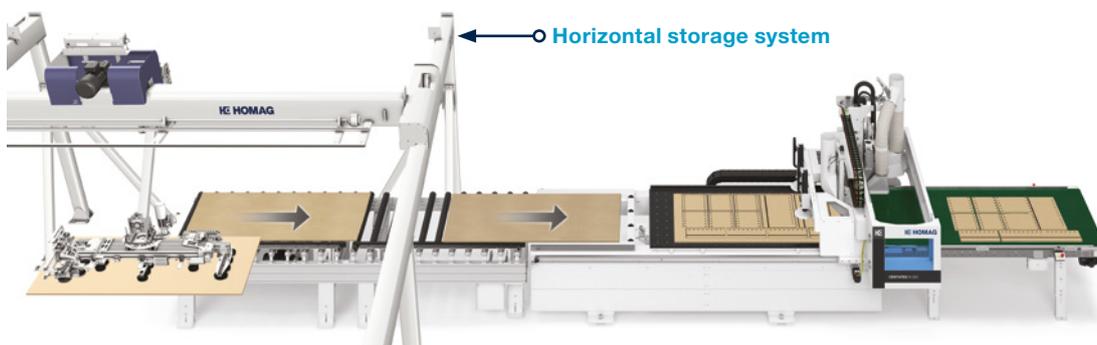
Handling concept 2



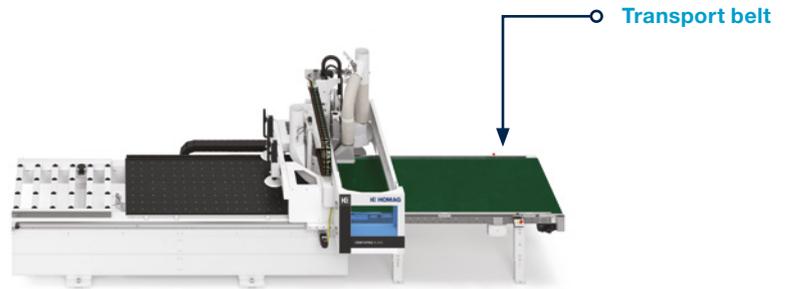
Handling concept 2R



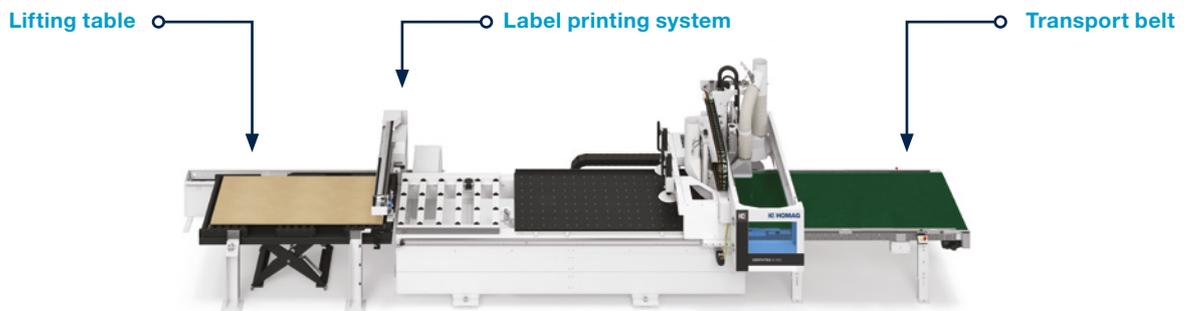
Handling concept 2R with storage



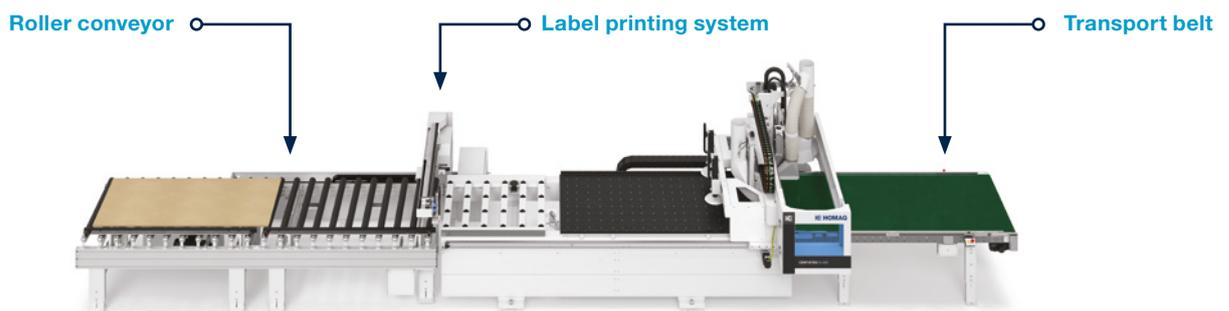
Handling concept 1



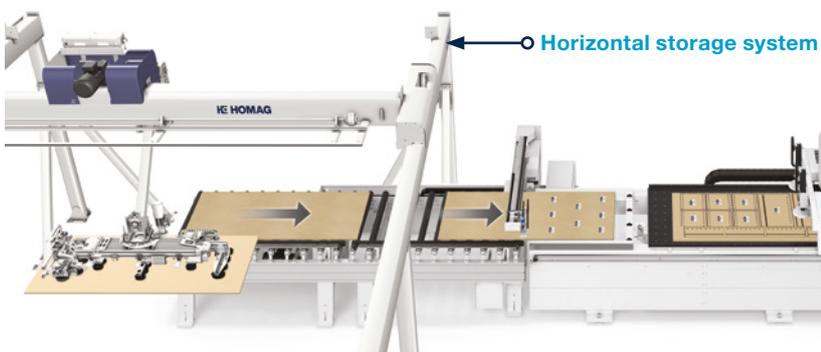
Handling concept 3



Handling concept 3R



Handling concept 3R with storage



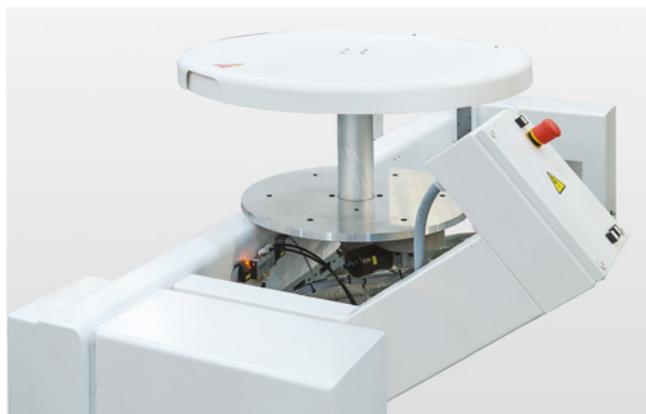
Would you like something extra?

Our options provide all opportunities for a perfect adjustment of your nesting machine to your requirements.



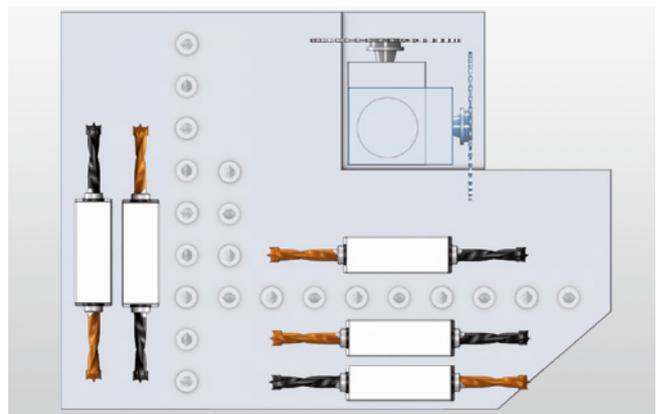
Barcode connection

- Barcodescanner / -software
- Supported barcodes:
 - 1D – Barcode
 - 2D – Data Matrix Code
- Every workpiece is exactly identified for the further workpiece flow



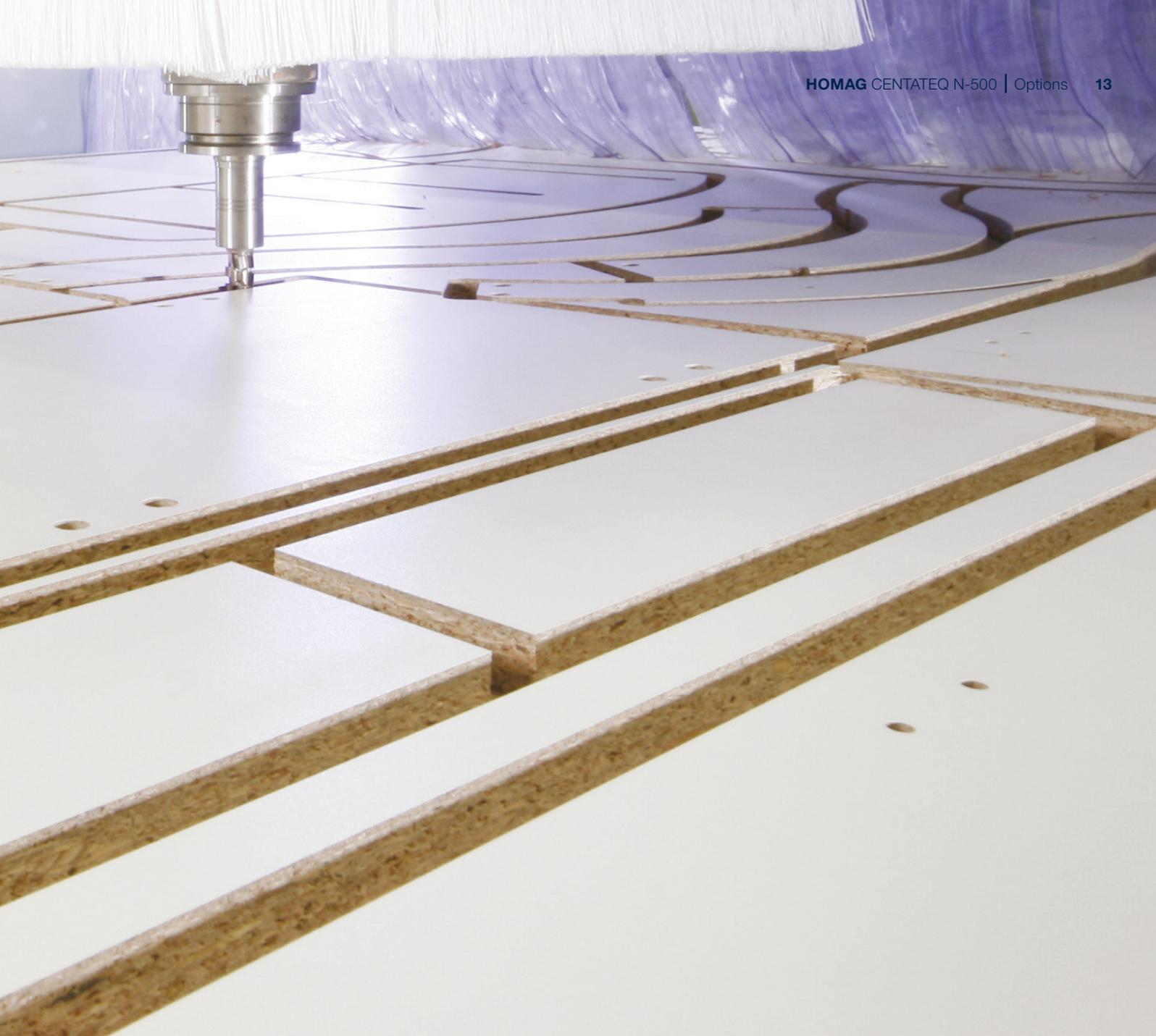
Tool changer

- Tool changing system, fixed behind the machine, 14 places



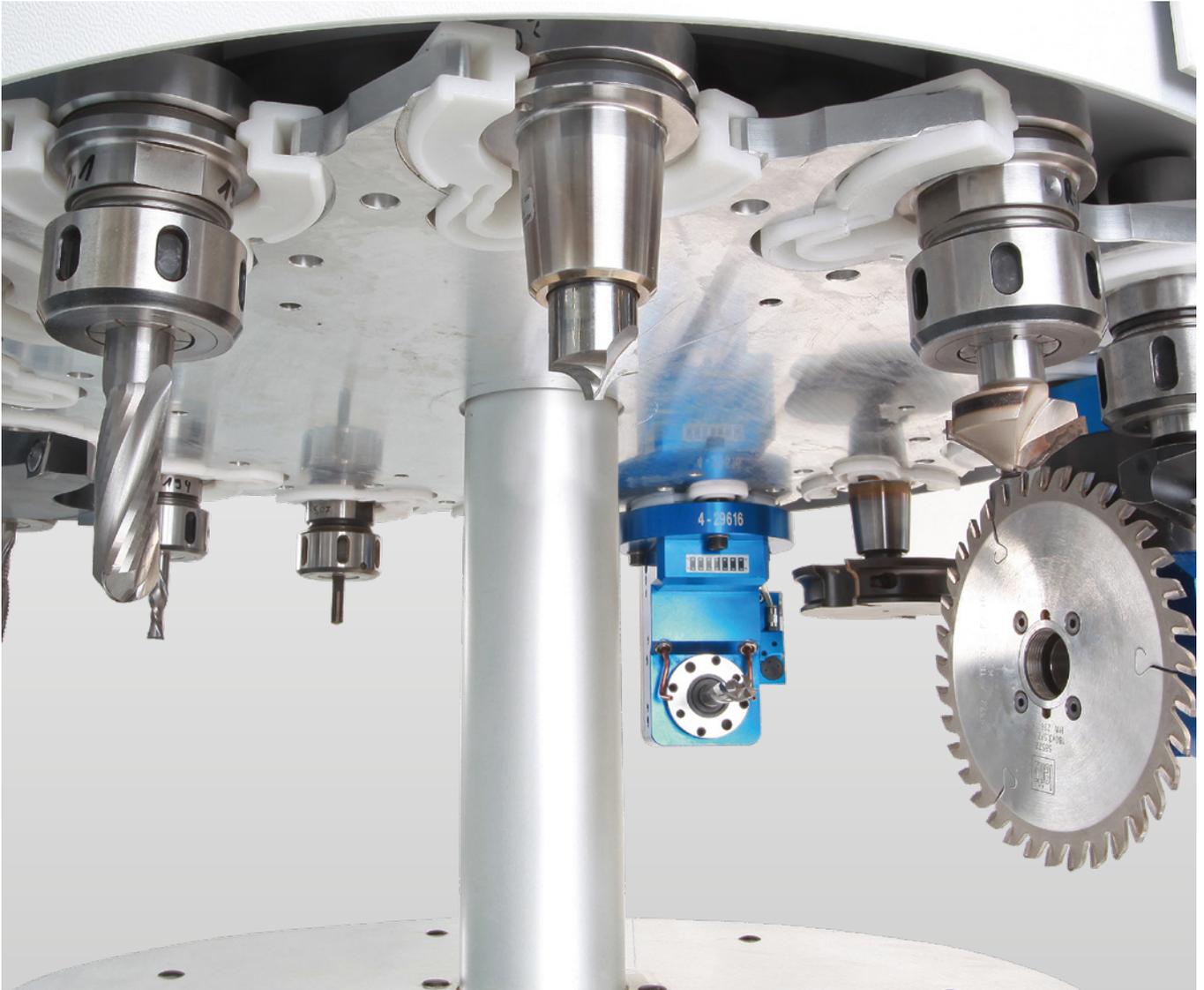
Horizontal spindles and grooving saw

- 6 horizontal drilling spindles in X
- 4 horizontal drilling spindles in Y
- 1 grooving saw Ø 125 mm (0° / 90°)



The compact nesting machine CENTATEQ N-500. Made in HOMAG

Our nesting machines enable cutting-optimized processing and dividing of plate-shaped materials. The typical applications of nesting are creation of carcass furniture, dividing and refining of furniture fronts and construction of frame furniture. Various possibilities for the automation of the material handling ensure a high time saving and an even more effective work.



High Performance units

ensure optimum lubrication of gear components for prolonged operations.



C-axis (0-360°) for the use of units



Extension to FLEX5 consisting of FLEX5 interface and FLEX5 unit



HIGH PERFORMANCE Sawing Ø 220 mm



HIGH PERFORMANCE Planing unit | Tool diameter max. 120 mm



Drilling/Routing/Sawing
2 spindles
(also available as HIGH PERFORMANCE unit)



Drilling/Sawing
swivelling (0° - 90°), Ø 180 mm
(also available as HIGH PERFORMANCE unit)



Routing
with 4-fold blowing nozzle



Tracing routing unit with tracing ring
Ø 70 mm | Ø 130 mm



Cutting unit
1 cutting blade | 10 mm cutting surface



Foil cutting unit
1 cutting wheel | Ø 75 mm



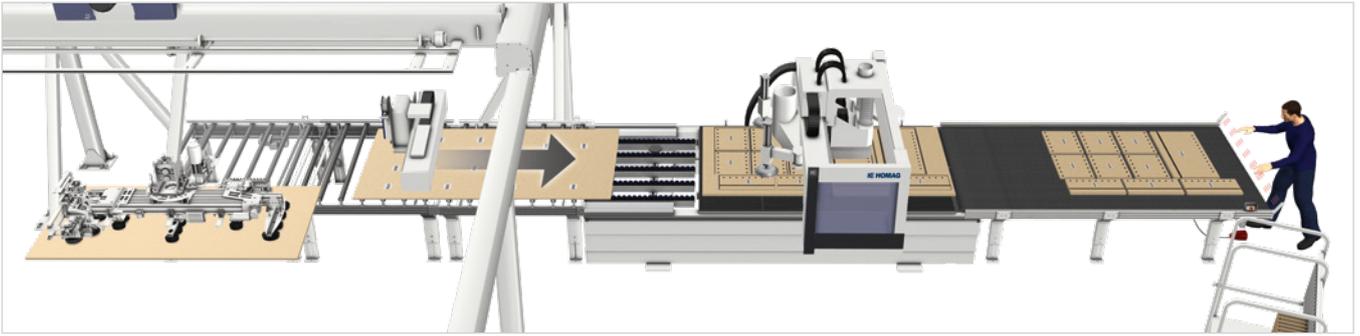
Drilling/Routing
swivelling cranked (0° - 90°),



Drilling
7 spindles, 25 mm raster



Fitting drilling head
3 spindles



Residual parts management | Basic

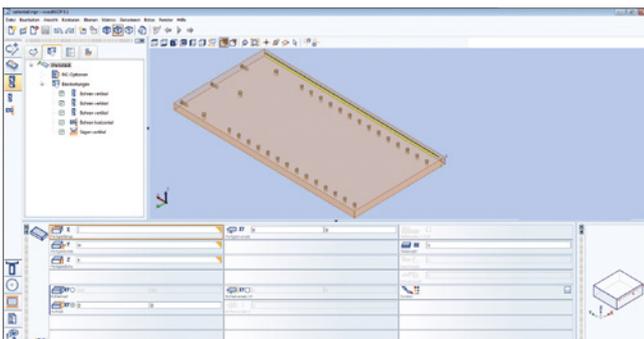
- Labels for residual parts from Cut Rite
- Manual management

Residual parts management | Advanced

- Automatic management within the storage database
- Manual positioning in automatic mode
- Labels for residual parts can be produced on the machine itself

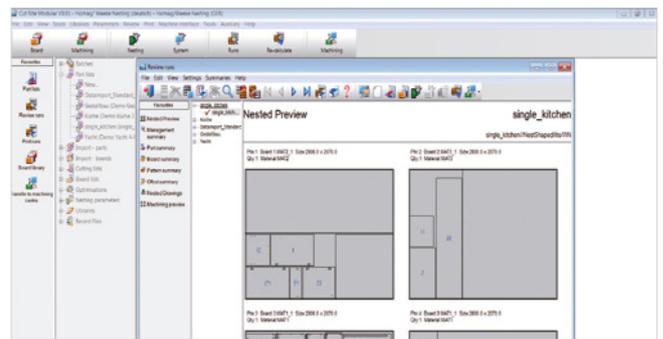
Residual parts management | Professional

- Automatic residual parts handling for nesting concepts in conjunction with storage solutions from HOMAG Automation
- Only in combination with residual parts management | Advanced



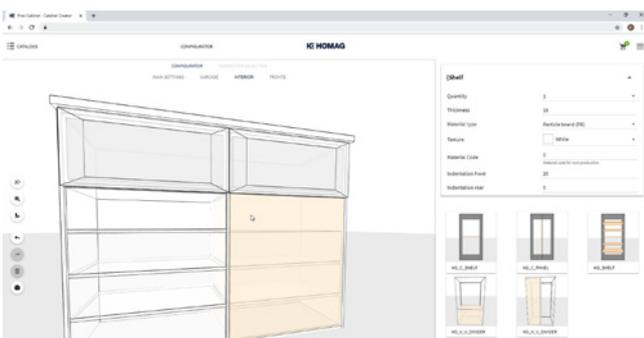
woodWOP

- Modern software based on Windows®
- Import of CAD files in DXF format
- More than 30,000 installations worldwide
- Worldwide largest forum for woodWOP



Optimization software: Cut Rite Nesting

- Optimization and generation of cutting plans for rectangular and free-formed workpieces
- Functions with Cut Rite:
 - Import of parts lists, e.g. from Excel, or direct import of woodWOP programs
 - Additional milling strategies “bars”, “common line” and “stay down”
 - Includes material management, parts sorting by material type, and label printing in the office
 - Manual editing of cutting plans



cabinetCreator

- Design furniture online and automatically receive all production data

CENTATEQ N-500 | Everything at a glance...

With these packages you are up to all tasks. The choice is yours.

	Direct extraction of the processing aggregates	Dust protected linear guiding system	Working table MATRIX-Pro	powerControl PC86 powerTouch	24" FULL-HD multitouch display	tapio-ready	Vacuum arm for positioning of raw boards	Stop guides - pneumatically retractable	Push-off device basic	Dust extraction unit for protective boards	Conveyor belt	Lifting table	Roller conveyor	Label printing system	Surcharge Push-off device NC for cell concepts	Variable conveyor belt speed	Simulations push-off and infeed for nesting	Suction device at outfeed transport from the top	Label printer with cut off device
CENTATEQ N-500 with handling concept 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	○	○	○	○	○
CENTATEQ N-500 with handling concept 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	○	○	○	○	○
CENTATEQ N-500 with handling concept 2R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	○	○	○	○	○
CENTATEQ N-500 with handling concept 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	○	○	○	○	○
CENTATEQ N-500 with handling concept 3R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	○	○	○	○	○

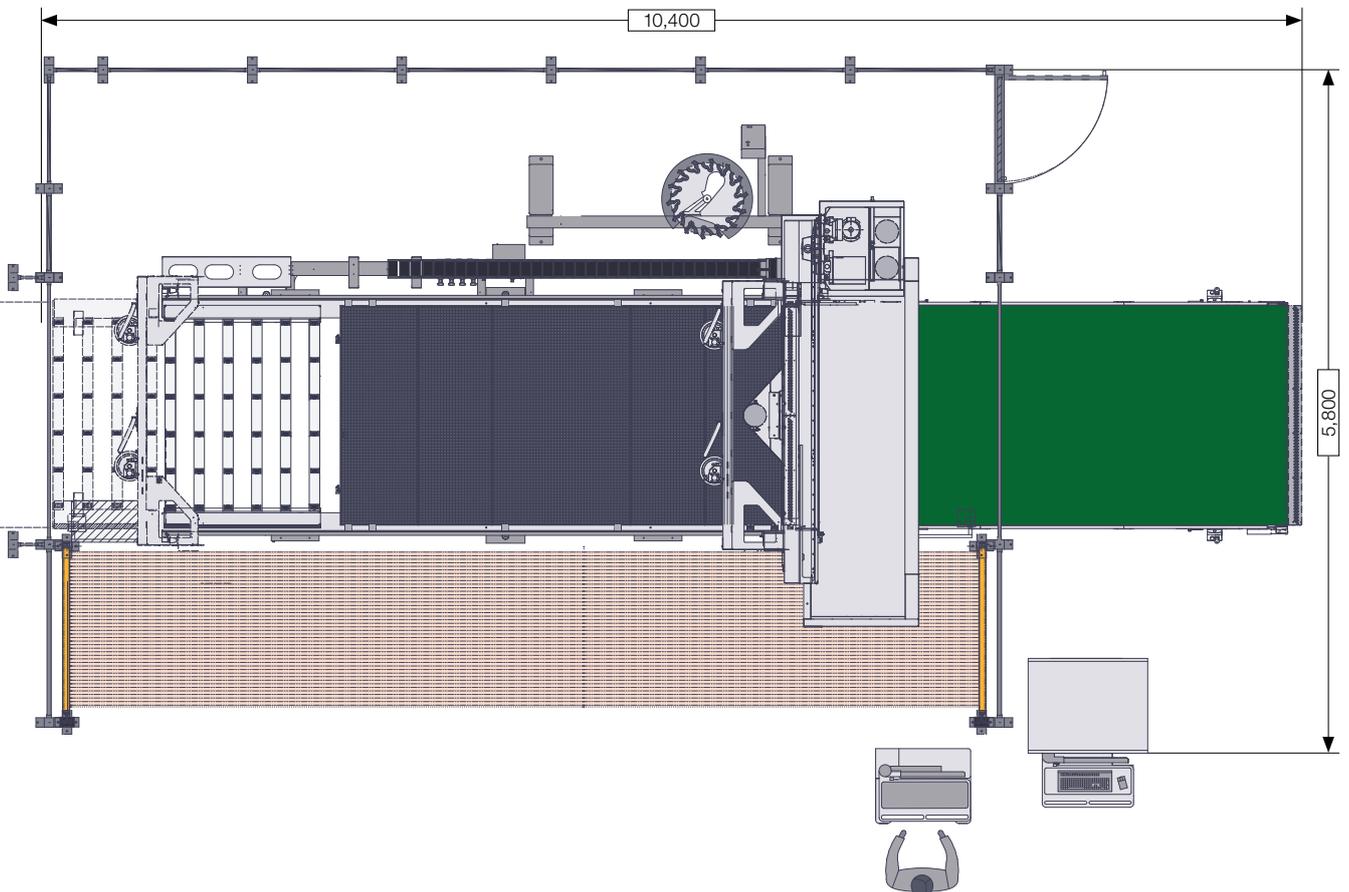
Our machines are equipped with everything needed for safe and effective operation.

Vector speed X/Y - Z-axis	96 - 25 m/min	
Compressed air connection	R ½ inch	
Compressed air required	7 bar	
Dust extraction port	min. Ø 200* mm	
Dust extraction volume	3.170* m³/h	
Electrical power – total connection load	27,5* kW	

*Basic machine

Working field	X	Y	Z
6 x 12 ft	3,700 / 145.7	1,850 / 72.8	100 / 3.9

mm/inch





Floor space incl. safety area		L	W
Nesting concepts			
Nesting concept 1	6 x 12 ft	10,400 / 409.5	5,800 / 228.3
Nesting concept 2	6 x 12 ft	13,950 / 549.2	5,800 / 228.3
Nesting concept 2R	6 x 12 ft	14,600 / 574.8	5,800 / 228.3
Nesting concept 3	6 x 12 ft	14,300 / 563.0	5,800 / 228.3
Nesting concept 3R	6 x 12 ft	15,600 / 614.2	5,800 / 228.3

mm/inch

HC LIFE CYCLE SERVICES

At HOMAG we understand the importance of making an informed decision when purchasing capital equipment. Our service department is a cornerstone of our organisation in which we have invested heavily both in highly trained staff and systems. Our team of 31 highly skilled service staff will provide you with outstanding service throughout

the complete life cycle of your equipment. There's a lot more to our service organisation and we operate an 'open door' policy where customers are welcome to visit and see themselves exactly what they get with a machinery purchase from the HOMAG.



REMOTE SERVICE

- Hotline support via remote diagnosis by our trained experts regarding control, mechanics and process technology. Thus, more than 90% less on-site service required and consequently a faster solution for you!
- The ServiceBoard App helps to solve tasks in a fast, simple and concrete way. This is achieved by mobile live video diagnosis, automatic sending of service requests or the online spare parts catalog eParts.



SPARE PARTS SERVICE

- High spare parts availability and fast delivery.
- Ensuring quality by predefined spare parts and wear parts kits, comprising original spare parts.
- Identify and inquire for spare parts online under www.eParts.de 24/7, or buy even faster and more comfortably in the new HOMAG Webshop eCommerce.



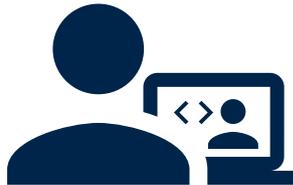
MODERNIZATION

- Keep your machinery up to date and increase your productivity as well as your product quality, This is how you can meet tomorrow's requirements today!
- We support you with upgrades, modernization as well as individual consultancy and developments.



DIGITAL SERVICES

- ISN (intelliServiceNet) – The new remote service solution of the future! Fast restart of production because the remote service employee has extensive access to relevant physical data.
- intelliAdvice App – provides help for self-help. The preventive solutions proposed in the new App are the combination of our experiences and existing machine data.



SOFTWARE

- Telephone support and consultancy through software support.
- Digitalization of your spare parts via 3D scanning saves time and money compared to new programming.
- Subsequent networking of your machinery with intelligent software solutions ranging from construction to production.



FIELD SERVICE

- Increased machine availability and product quality by certified service staff.
- Regular checks through maintenance / inspection guarantee the highest quality of your products.
- We offer you the highest availability of technicians in order to reduce downtimes in case of unpredictable troubles.

Our Services

- Technical Support
- Field Technicians trained to the highest standards
- Routine Maintenance Programs
- Gluepot Repair Service
- Spare Parts
- Upgrades
- Remote diagnostics



Any questions? We are at your service!

SERVICE CALL

For all service enquires ring
1800 146 153



SPARE PARTS CALL

For spare parts enquires ring
1800 126 163



SOFTWARE CALL

For software enquires ring
1800 355 635



SERVICE EMAIL

For all service enquires email us:
service-australia@homag.com



SPARE PARTS EMAIL

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