

Drilling. Doweling. Routing. Ready.

Our CNC-Drilling and Dowel Inserting Machine
DRILLTEQ D-510





Complete processing in the edge area

Whether as individual machine or complementary product in connection with a CNC processing center – the DRILLTEQ D-510 allows complete and precise processing in the edge area by the clever combination of drilling, doweling and routing.

YOUR SOLUTION

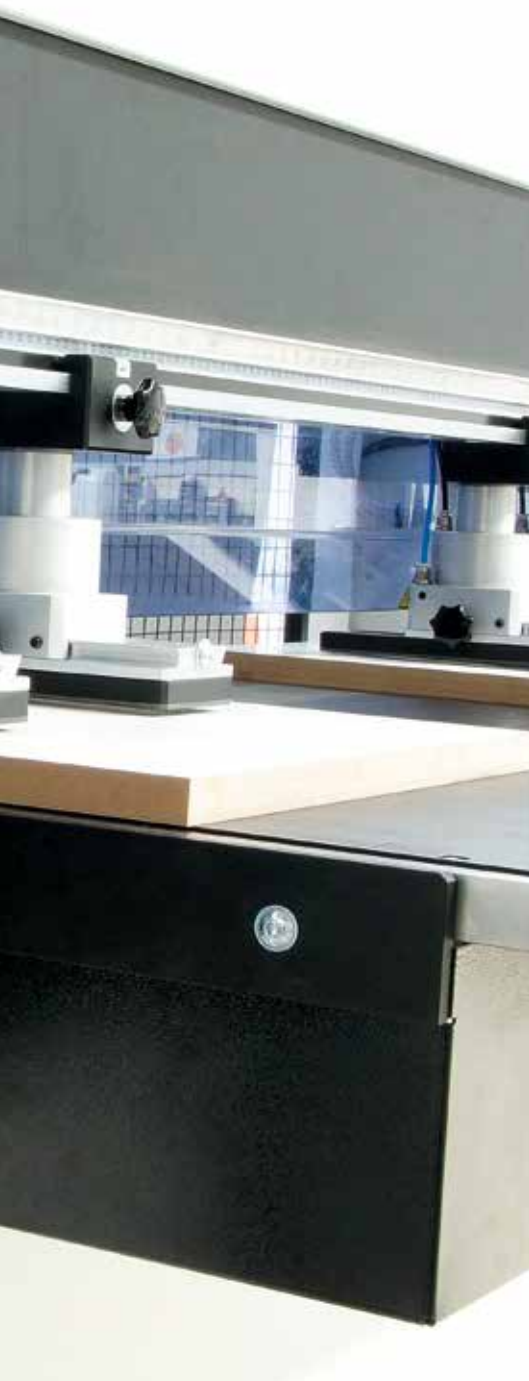
MORE: HOMAG.COM



DRILLTEQ D-510

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The highlights at a glance



Space-saving

- Sliding door allows easy access for maintenance or cleaning



Solid & sturdy

- Stable frame construction for highest quality demands



Precise

- Closed linear guides and gear racks in X for maximum precision during processing



DRILLTEQ D-510 with a working field of 1,250 mm



Practical

- Quick tool change at the front of the machine thanks to adjustable Makrolon panes

Intuitive

- Intuitive thanks to powerTouch2



DRILLTEQ D-510 with a working field of 2,500 mm

Configurations at a glance



1 Horizontal drilling

- For precise processing by using proven components from our industrial sector
- Up to 5 individually selectable drilling spindles with 32 mm pitch

2 Vertical drilling

- For precise processing by using proven components from our industrial sector
- Up to 5 individually selectable drilling spindles with 32 mm pitch
- Travel range in Y-direction: 0 – 50 mm (at drill diameter up to 20 mm)
- Through holes possible

3 Dowel insertion

- Glue injector with adjustable glue amount and glue flow control
- The installation can be used with pre-glued dowels and water
- 32 mm distance from the drilling spindle



4 Horizontal routing

- A provisioning stroke of up to 80 mm allows routing at depth (e.g. Tiomos H, Salice Air, lock case etc.)
- Powerful, robust and proven routing spindle with 3.6 kW routing capacity

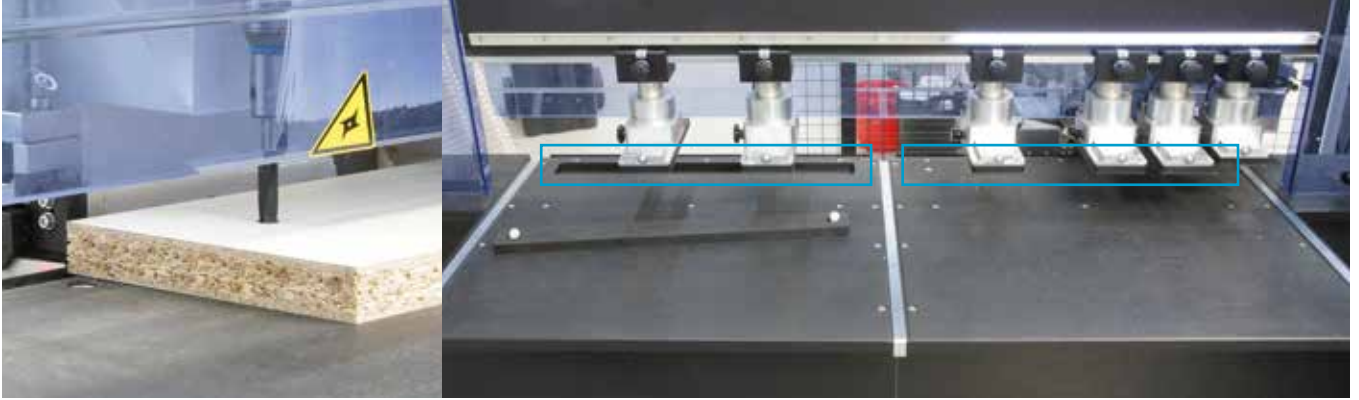
5 Vertical routing

- A provisioning stroke of up to 50 mm allows routing operations into the front side of the workpiece (e.g. Clamex)
- Efficient, solid and proven routing spindles 3,6 kW routing capacity

6 Setting fixtures

- Installation space for individual solutions for setting fittings and hinges (e.g. sleeves, eccentrics, Cabineo etc.)

Option drilling – Pure passion



Horizontal and vertical drilling

- 2 exchangeable wear strips in the machine table make through holes possible without damaging the machine table
- Proven technology that is also used in industrial lines
- Optionally 3 or 5 drilling spindles

Option routing – Precise processing



Example equipment:

Clamex processing, horizontal and vertical



Example equipment:

Pocket routing and Clamex processing, horizontal

Horizontal and vertical routing

- Proven routing spindle with 3.6 kW routing capacity
- 24.000 min⁻¹
- Router change with SolidFix tool holder

Option dowel insertion – Well joined



Doweling unit

- Precise insertion of dowels with or without glue
- Choose your solution from 15 dowel dimensions
- Up to 2 fixed units per machine



Vibrating conveyor

- For automatic and reliable feed of standard dowels with the dimensions of 8x30 mm or 8x35 mm
- Other dowel dimensions on request



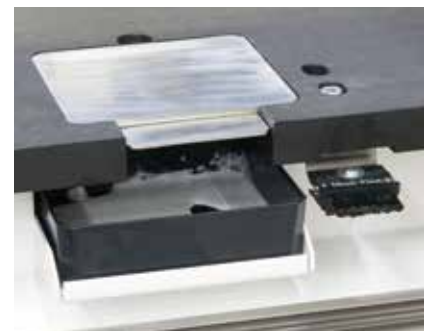
Optional glue low pressure pump or glue high pressure pump

- Double membrane pump, low-noise level and compact
- Incl. sensor for monitoring the glue supply and evaluating the results
- Option: High pressure pump for processing with high viscosity glue



Cleaning device for glue injector

- For lasting quality without glue rests an automatic cleaning of the glue nozzle is carried out after adjustable intervals.



Glue collection tray

- The feeding device can be cleaned by air blowing. The collection tray is easily accessible and very low maintenance.

Stops and workpiece handling



1 Adjustable clamping cylinders

- Up to 8 adjustable clamping cylinders enable a secure and gentle fixing of the workpieces
- Simple adjustment via operating terminal

2 Lateral stops

- Left and right on the machine table

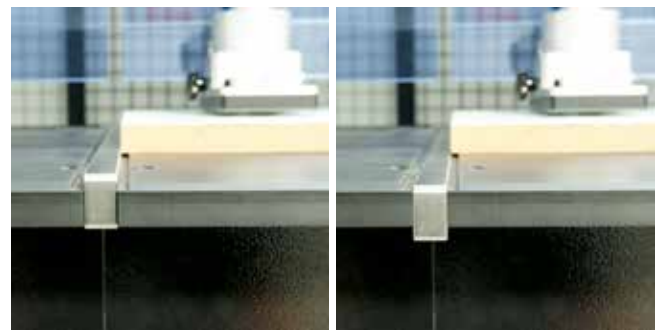
3 Center stop

- For the processing of up to 4 workpieces with one clamping



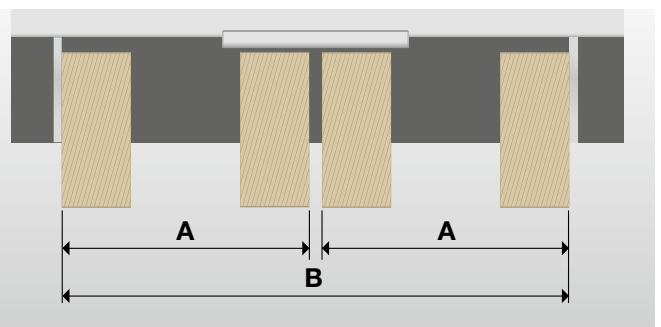
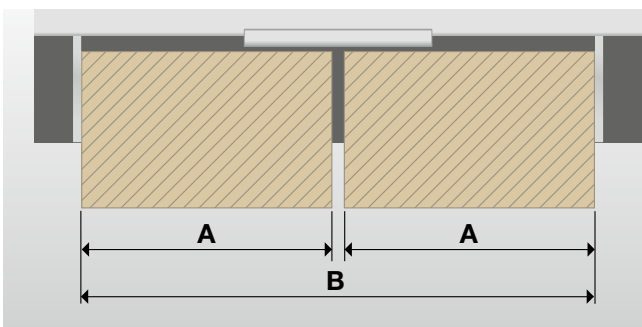
Manual adjustment of the stops

- Adjustable to 3.5 – 8 mm above table level



Automatic adjustment of the stops

- Adjustable to 3.5 – 8 mm above table level



Alternating field assignment | 4-fold workpiece processing

- Depending on the workpiece dimensions the DRILLTEQ D-510 machines can be fed with up to 4 workpieces
- For machine length 1,250 mm: **A:** 620 mm | **B:** 1,250 mm
- For machine length 2,500 mm: **A:** 1,240 mm | **B:** 2,500 mm

Application examples



- Back panel groove
- Planar drilling operations



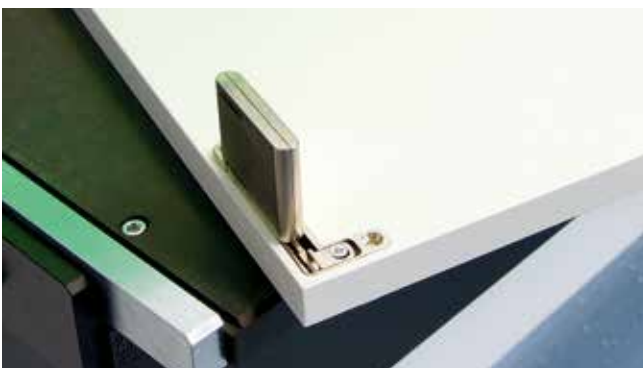
- Continuous back panel groove
- Planar drilling operations for eccentric connecting fitting
- Classical dowel holes in the front
- Illustration shows the Minifix connector from Häfele



- Drilling processing to complement a nesting machine
- Illustration shows the Cabineo nesting connector from Lamello



- Continuous back panel groove
- Front side routing with T-slot routing cutter
- Illustration shows the removable Clamex P-connector from Lamello



- Planar routing for integrated and high-quality hinges or fittings
- Illustration shows the Tiomos H-hinge from GRASS



- Front side routing for integrated and high-quality hinges or fittings
- Planar routing with T-slot routing cutter
- Illustration shows the removable Clamex P-connector from Lamello and the Tiomos H-hinge from GRASS



NEW!

Option IntelliGuide Classic

OPTICAL LED ASSISTANCE SYSTEM to assist the machine operator in the processing of workpieces. The LED bar lights in the areas where the workpieces are to be positioned. The length of the illuminated areas corresponds to the length of the workpieces to be positioned. Once the positioning is correct, the color of the LED bar changes.

Your benefit

- Increased efficiency by faster operating procedures
- Error prevention by continuous visual control
- Improved ease of use



Apps that make working life easier.

tapio

Partner

DataSave

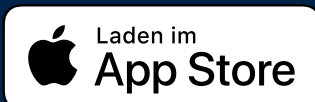
- Protects machine and configuration expertise
- Faster service for machine breakdowns
- Saves time when restarting production
- Saves on maintenance costs
- Automatic backups of several machines

ServiceBoard

- Create service cases quickly and easily and send them to the correct service partner
- Live video diagnostics to solve service cases with image support
- Video reduces the language and distance barriers
- Also works without a machine connection to tapio (and is therefore ideal for older machines)

MachineBoard

- Push notifications
- Machine data and status can be viewed from anywhere in real time
- Lists of errors, warnings, maintenance tasks and actions
- Displays the remaining time until the next intervention by the machine operator



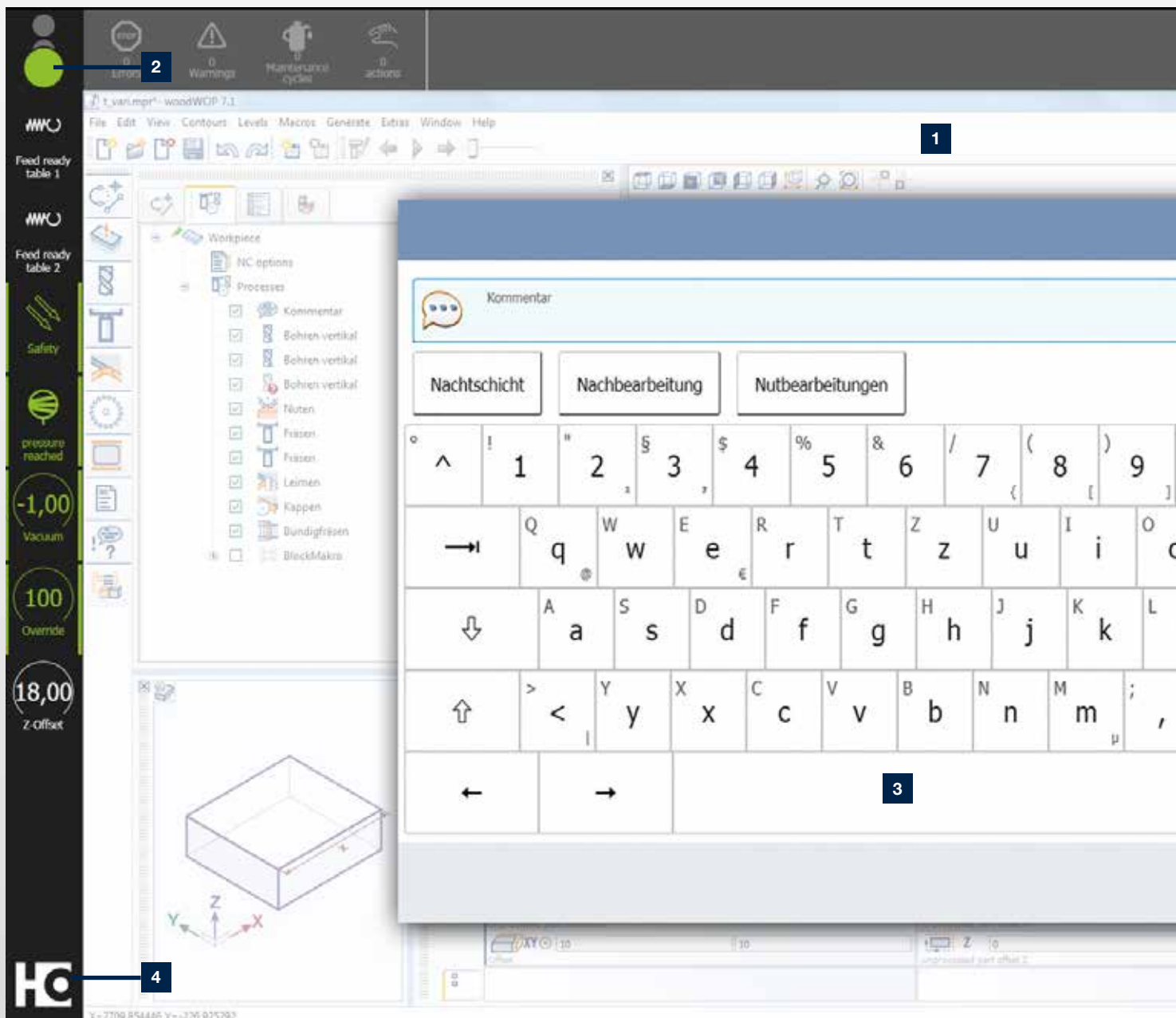
Free demo for all tapio apps, no registration required. Simply download and test.

tapio is the open wood industry ecosystem

This means that everyone involved in the wood industry can participate.
Because together with our business partners, we develop digital solutions for everyone.

Currently available in the EU and Switzerland.

(Due to the fast pace of the IT-landscape, the compatibility to the tapio platform is warranted for five years.)

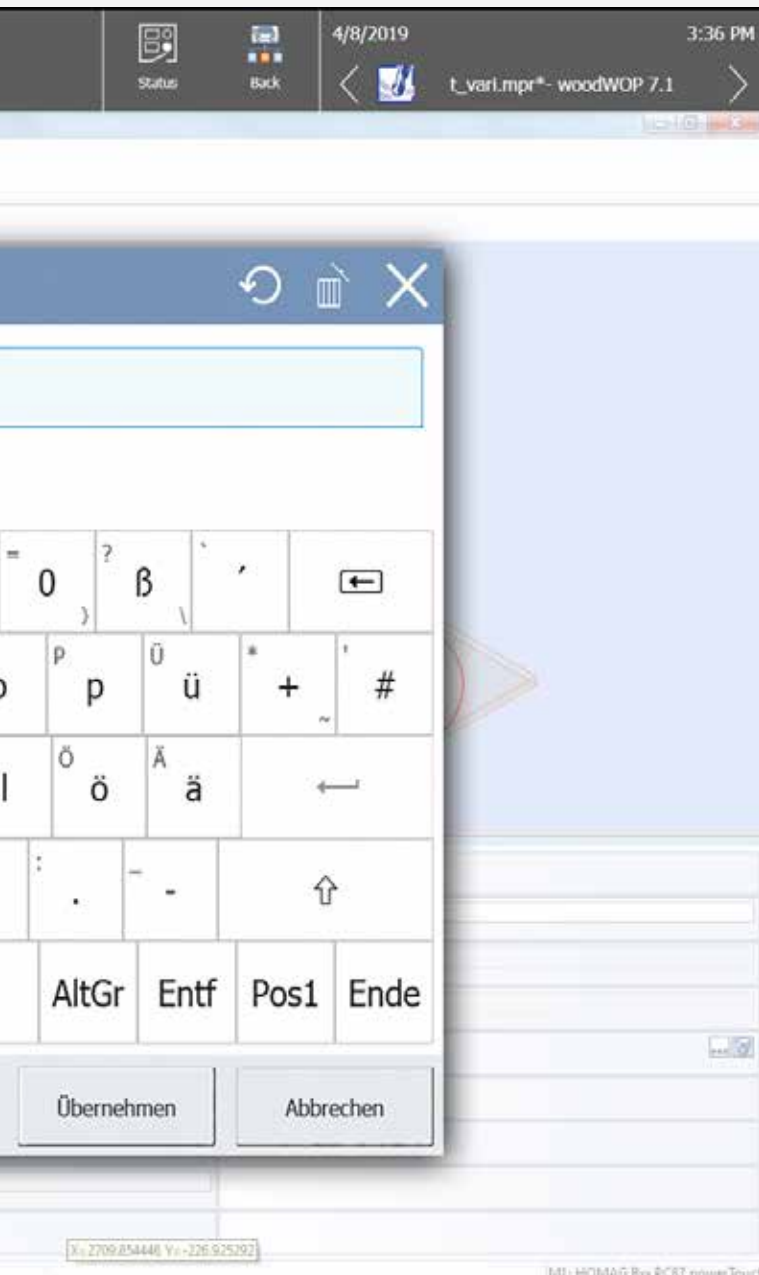


1 The powerTouch2 screen is clearly structured. You can see all the important information at a glance, but you still have all the details.

3 A functional pop-up keyboard that can be kept open, including automatic word completion for faster entries (when you enter the first letters, frequently used applications are proposed and you can select them directly).

2 We have also improved the traffic light dialog further. You can now directly influence the machine's production readiness by selecting actions via the traffic light icon.

4 Enhanced "Start" menu with additional information displayed (e.g. an indication of how many messages are currently pending or status bars that show the progress of the application) and direct access to actions (e.g. confirmation of actions without having to jump to the application).



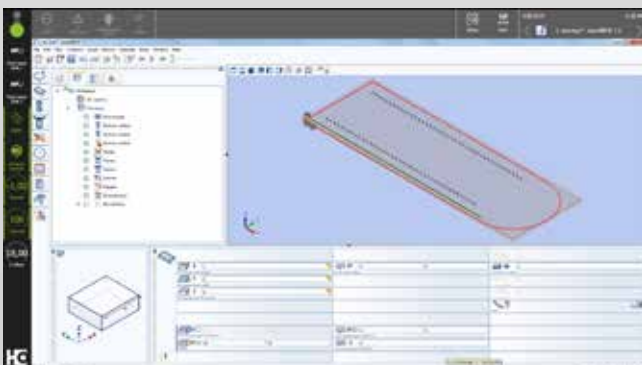
The next generation of powerTouch: **powerTouch2**

Faster, more comfortable, clearer: Enjoy the benefits of our further improved powerTouch user interface. We have optimized our standardized operating concept and further adapted it to our customers' requirements.

Controlling your HOMAG machines is now even faster and more intuitive. The new, modern design has a clear structure. The innovative touch operation allows you to achieve the desired result easily and comfortably.

With the new powerTouch generation, you can enter information at your machine even more quickly. Compared to the previous version, you can achieve a time saving of up to 30%. This is possible thanks to new features, such as automatic word completion, a pop-up keyboard that can be kept open and Windows-like functions, such as the selection of common actions directly via the start button.

Our successful powerTouch philosophy –
standardized, simple, ergonomic, evolutionary – consistently further developed



THE HIGHLIGHTS AT A GLANCE:

- Direct and efficient operation, up to 30% faster
- Clearer and more informative thanks to additional information and live illustrations instead of program icons
- New applications for operating and controlling machines and systems (e.g. NCCenter in the PC87 control system on CNC machines or woodCommander 4 on throughfeed machines)
- Fresh, attractive design, based on the new HOMAG machine design

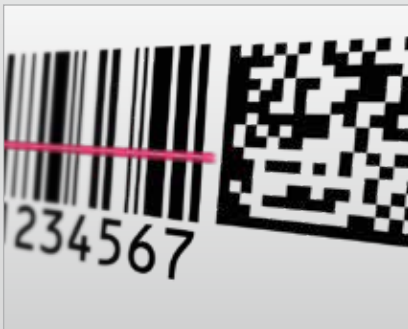
Please use our website!

Worldwide largest forum
for woodWOP:
forum.homag.com



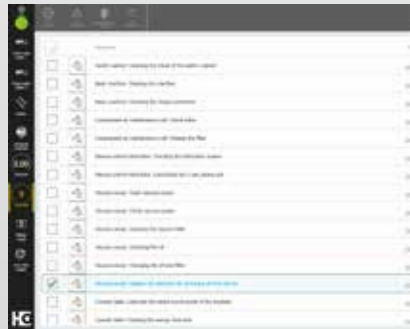
Further software options

- woodWOP for external PC
- woodAssembler



Barcode connection (optional)

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



Machine Data Recording













- Collecting and evaluating machine states via time meter and event meter



tapio-ready

- Simply “connect” the machine with tapio to use all innovative digital tapio products
- The free use of tapio MachineBoard is included in the standard

Features

| | | | | | | | | | | | |
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Standard:

Option:



For you more than...

1,350

service employees worldwide

92 %

less on-site service thanks to
successful remote diagnosis

5,000

customer in training / year

150,000

machines, all electronically documented
in 28 different languages – in eParts

HC LIFE CYCLE SERVICES

Optimal service and individual consultations are included in the purchase of our machines. We support you with service innovations and products which are especially tailored to your requirements. With short response times and fast

customer solutions we guarantee consistently high availability and economic production – over the entire life cycle of your machine.



REMOTE SERVICE

- Hotline support via remote diagnosis by our trained experts regarding control, mechanics and process technology. Thus, more than 92% 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 eShop (shop.homag.com).



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.

Technical Data



TECHNICAL DATA

| DRILLTEQ D-510 | | 1,250 | 2,500 |
|--------------------------------|--------|---------------|---------------|
| Workpiece length* | mm | 20–1,250 | 20–2,500 |
| Workpiece width | mm | 20–800 | 20–800 |
| Workpiece thickness | mm | 10–80 | 10–80 |
| Compressed air connection | inch | R 1/2" | R 1/2" |
| Compressed air | bar | min. 7 | min. 7 |
| Total connected voltage | kW | approx. 11 | approx. 11 |
| Extraction connection | mm | 1 x Ø 120 | 1 x Ø 120 |
| Extraction speed | m/sec. | min. 30 | min. 30 |
| Supply voltage | A | 25 | 25 |
| Total machine weight | kg | approx. 1,600 | approx. 2,000 |
| Installation dimensions | | | |
| L | mm | 3,200 | 4,530 |
| W | mm | 1,525 | 1,500 |
| H (without vibration conveyor) | mm | 2,060 | 1,880 |

* in the working field. Longer workpieces can be loaded.

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YOUR SOLUTION