
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.
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

Practical

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

Precise

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

Intuitive

- Intuitive thanks to powerTouch2
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)

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
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

Vertical routing
- The routing unit enables routing operations into the front side of the workpiece (e.g. Clamex)
- Efficient, solid and proven routing spindles 3.6 kW routing capacity

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

**Low-pressure glue pump**
- Double membrane pump, low-noise level and compact
- Incl. sensor for monitoring the glue supply and evaluating the results

**Cleaning device for glue injector**
- For lasting quality without glue rests an automatic cleaning of the glue nozzle is carried out after adjustable intervals.
Option routing – Precise processing

Horizontal and vertical routing
- Proven routing spindle with 3.6 kW routing capacity
- 24,000 min⁻¹
- Router change with SolidFix tool holder

Application examples

Processing of a classic carcass in the workpiece edge area

Depth processing with a provisioning stroke of up to 80 mm

Processing in the workpiece edge area for a wide range of individual connection variations, e.g., for Clamex P connectors
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
   - Manually lowerable

3. **Center stop**
   - For flexible handling of workpieces
   - Manual lowerable

**Adjustment of the stops**
- Manually lowerable
- Picture right: Active center stop

**Alternate operation**
- Depending on the workpiece dimensions the DRILLTEQ D-510 machines can be fed with up to 4 workpieces
- A: 600 mm | B: 1,250 mm
NEW!

Option intelliGuide Basic

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
Easy to get.
And easy to use.

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.

Just have a try:

Free use of the MachineBoard app! Just register under tapio and “connect” the machine www.tapio.one. The complimentary usage is limited in time.
Apps that make working life easier.

**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.

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

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.

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).

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. NC Center in the PC87 control system on CNC machines or woodCommander 4 on throughfeed machines)
- Fresh, attractive design, based on the new HOMAG machine design
Hardware – Software

**WHY THIS SOFTWARE PACKAGE YOU ARE „READY TO RACE“.** You will receive one of the most established CNC programming systems, the woodWOP software, which has proven itself by more than 40,000 installations worldwide.

**Machine operation**
- Modern and simple control of the machine functions
- TFT-Display
- Provision of teleservice capability
- Front USB-Schnittstelle
- Ethernet connection 10/100 Mbit

**woodWOP**
- Worldwide established CNC programming system – already more than 40,000 installations
- More safety and control in programming by 3D-presentations of all relevant elements

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**Everything at a glance...**

<table>
<thead>
<tr>
<th>Length of the processing field</th>
<th>Drilling gear</th>
<th>Routing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,250 mm</td>
<td>Horizontal with 3 spindles</td>
<td>Horizontal</td>
</tr>
<tr>
<td></td>
<td>Horizontal with 5 spindles</td>
<td>Vertical</td>
</tr>
<tr>
<td></td>
<td>Vertical with 3 spindles</td>
<td>Vertical with 5 spindles</td>
</tr>
<tr>
<td></td>
<td>Vertical with 5 spindles</td>
<td>Vertical</td>
</tr>
<tr>
<td><strong>DRILLTEQ D-510</strong></td>
<td>✓</td>
<td></td>
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</tbody>
</table>
Please use our website!
Worldwide largest forum for woodWOP: forum.homag.com

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

Further software options
- woodWOP for external PC
- woodAssembler

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

<table>
<thead>
<tr>
<th>Vibrating conveyor</th>
<th>Special dimension of the dowels</th>
<th>Add. doweling aggregate</th>
<th>Add. doweling chamber</th>
<th>Add. vibrations conveyor</th>
<th>Low-pressure glue pump</th>
<th>High-pressure glue pump</th>
<th>tapio-ready</th>
<th>powerTouch2</th>
<th>Barcode reading system</th>
<th>X-measuring system</th>
<th>Air-conditioning</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
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<tr>
<td>Option:</td>
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</tbody>
</table>

Standard: ✓
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.

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.

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 economical production – over the entire life cycle of your machine.

For you more than...
- 1,350 service employees worldwide
- 90 % 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
**Technical Data**

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>DRILLTEQ D-510</th>
<th>mm</th>
<th>20–1,250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workpiece length*</td>
<td>mm</td>
<td>20–800</td>
</tr>
<tr>
<td>Workpiece thickness</td>
<td>mm</td>
<td>10–80</td>
</tr>
<tr>
<td>Compressed air connection</td>
<td>inch</td>
<td>R 1/2”</td>
</tr>
<tr>
<td>Compressed air</td>
<td>bar</td>
<td>min. 7</td>
</tr>
<tr>
<td>Total connected voltage</td>
<td>kW</td>
<td>ca. 11</td>
</tr>
<tr>
<td>Extraction connection</td>
<td>mm</td>
<td>1 x Ø 120</td>
</tr>
<tr>
<td>Extraction speed</td>
<td>m/sec.</td>
<td>min. 30</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>A</td>
<td>25</td>
</tr>
<tr>
<td>Total machine weight</td>
<td>kg</td>
<td>approx. 1,600</td>
</tr>
<tr>
<td>Installation dimensions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>mm</td>
<td>3,260</td>
</tr>
<tr>
<td>W</td>
<td>mm</td>
<td>1,525</td>
</tr>
<tr>
<td>H</td>
<td>mm</td>
<td>2,060</td>
</tr>
</tbody>
</table>

* in the workingfield. Longer workpieces can be placed on the machine.