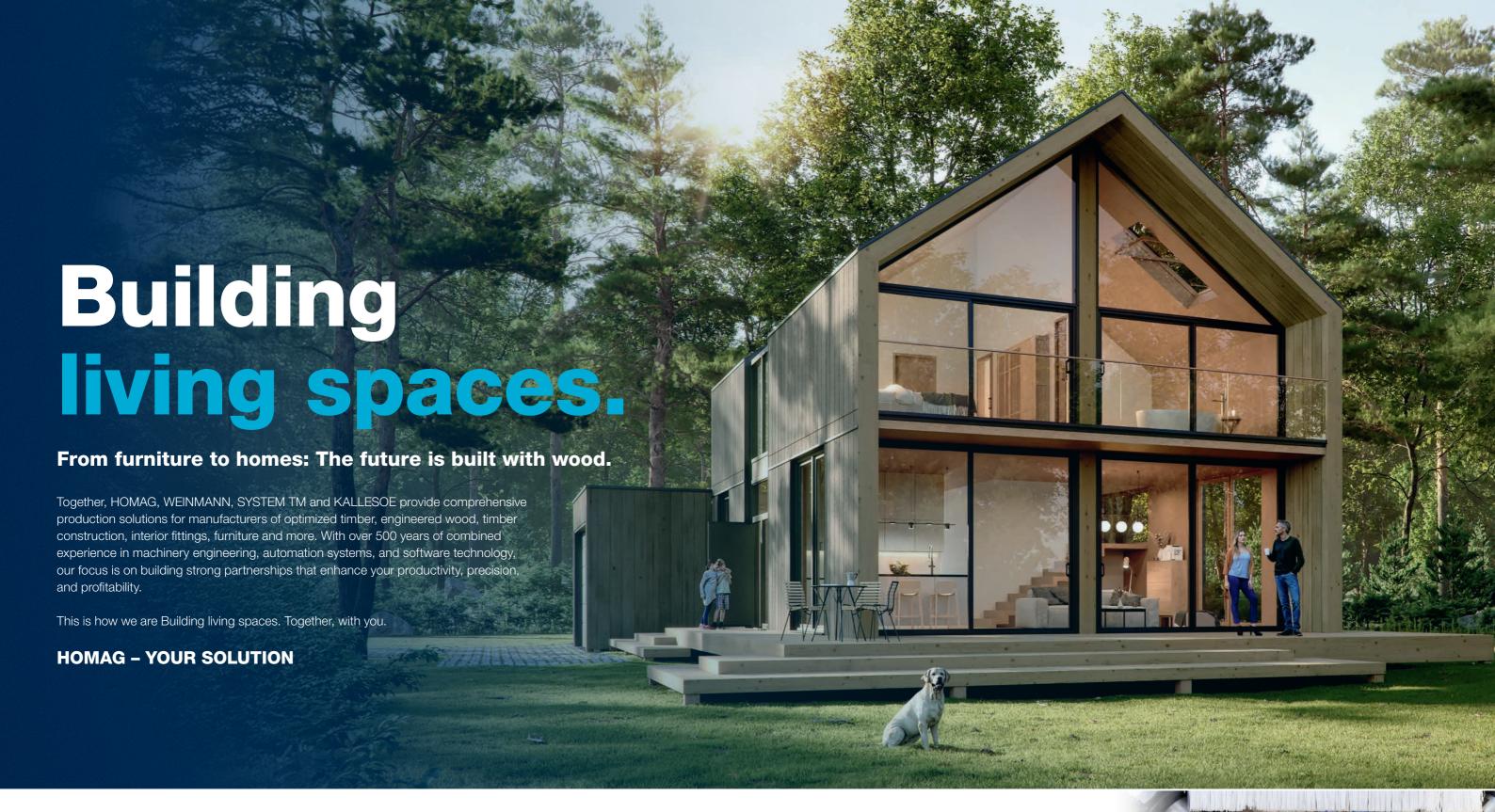
DRILLTEQ D-510

Complete processing in the edge area.

The clever combination of drilling, doweling and routing.





High-precision CNC solutions.

Dimensional accuracy, repeat accuracy, fits – precision is the top priority in CNC machining. That's why we offer superior technology and individual equipment for the high-precision production of furniture, interior fittings and construction elements – with three, four or five axes.

To ensure that your individual furniture transforms rooms into living spaces in the future, too.

Building precision.

A millimeter off is a world apart.



HOMAG DRILLTEQ D-510 | Contents



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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HOMAG DRILLTEQ D-510 | Highlights 07

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



Practica

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



Intuitive

Intuitive thanks to powerTouch2







Configurations at a glance



Horizontal drilling

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

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

Dowel insertion

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

Horizontal routing

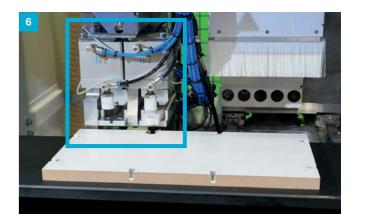
- A provisioning stroke of up to 80 mm allows routing at depth (e.g. Tiomos H, Salice Air, lock case etc.)
- Powerful, robust and proven routing spindle with 3.6 kW routing capacity

Vertical routing

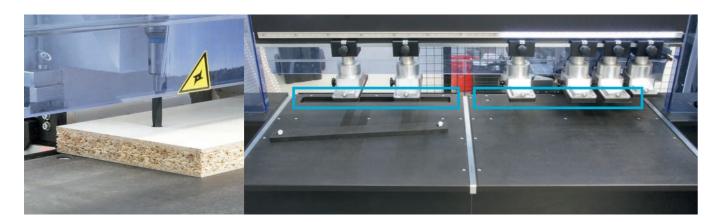
- A provisioning stroke of up to 50 mm allows routing operations into the front side of the workpiece (e.g. Clamex)
- Efficient, solid and proven routing spindles 3,6 kW routing capacity

Setting fixtures

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



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

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

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

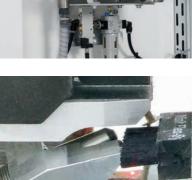


Vibrating conveyor

- with the following dimensions:
- Ø 6 mm → L=30 mm, 35 mm, 40 mm
- Ø 8 mm → L= 30 mm, 35 mm, 40 mm
- Ø 10 mm → L= 30 mm, 35 mm, 40 mm, 50 mm, 60 mm
- Ø 12 mm → L= 40 mm, 50 mm, 60 mm

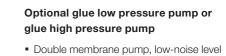


- For automatic and reliable feed of dowels

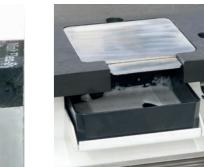


Cleaning device for glue injector

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



- Incl. sensor for monitoring the glue supply and evaluating the results
- Option: High pressure pump for processing with high viscosity glue

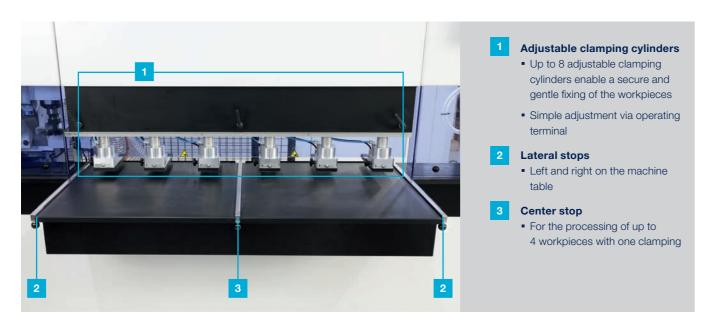


Glue collection tray

and compact

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

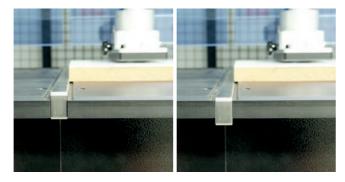
Stops and workpiece handling





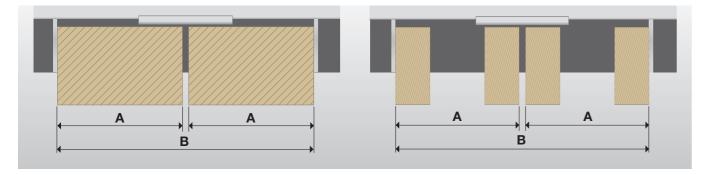
Manual adjustment of the stops

■ 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



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.

Increased efficiency by faster operating procedures

- Error prevention by continuous visual control
- Improved ease of use





A camera system recognizes and checks the position of the connectors

Transfer of the connectors to the hardware



The vibrating plate rotates the connectors into the correct position





Pressing the Cam Connectors into the

The robot separates the connectors and fills the magazines on the machine



More application examples



- Rebate; e.g. for a back panel
- Planar drilling operations



- Continuous rebate
- 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 rebate
- 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

Apps and digital assistants.

Quick and easy support in your machine environment.

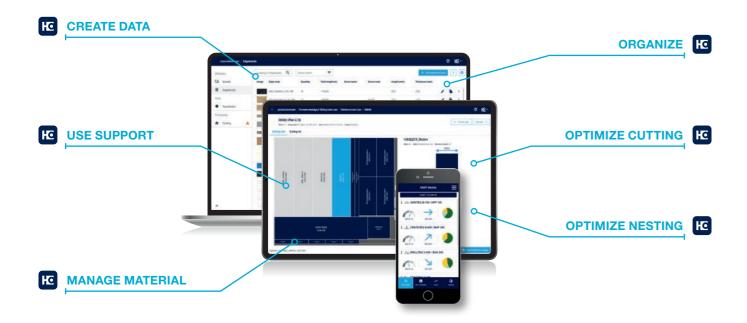
Some people still use pen and paper to create their cutting patterns. But they look at their smartphone if they want to know what the weather is like - instead of looking out of the window. We asked ourselves: why not combine the best of both? Our apps and digital solutions make your everyday work easier: machines, material, tools, cutting patterns, components - you always have everything in your pocket or on your desk.

EXCERPTS FROM YOUR FEEDBACK:

- Are there simple solutions that can eliminate various obstacles in my day-to-day work (e.g. when organizing materials or sorting parts)?
- Is there a way to slowly approach using digital assistants?
- Which tools can you try out simply and easily without having to invest huge sums of money straight away?

OUR ANSWER? SMART AND POWERFUL SOLUTIONS:

- √ Always low investment
- √ Always up to date (no updates necessary)
- √ Always easy to use (no complex software)
- √ Always helpful





Jobs completed more quickly, more safely and in higher quality



Hardware - Software

WITH THIS SOFTWARE PACKAGE YOU ARE "READY TO START", 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

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 excactly identified for the further workpiece flow



Machine Data Recording

 Collecting and evaluating machine states via time meter and event meter

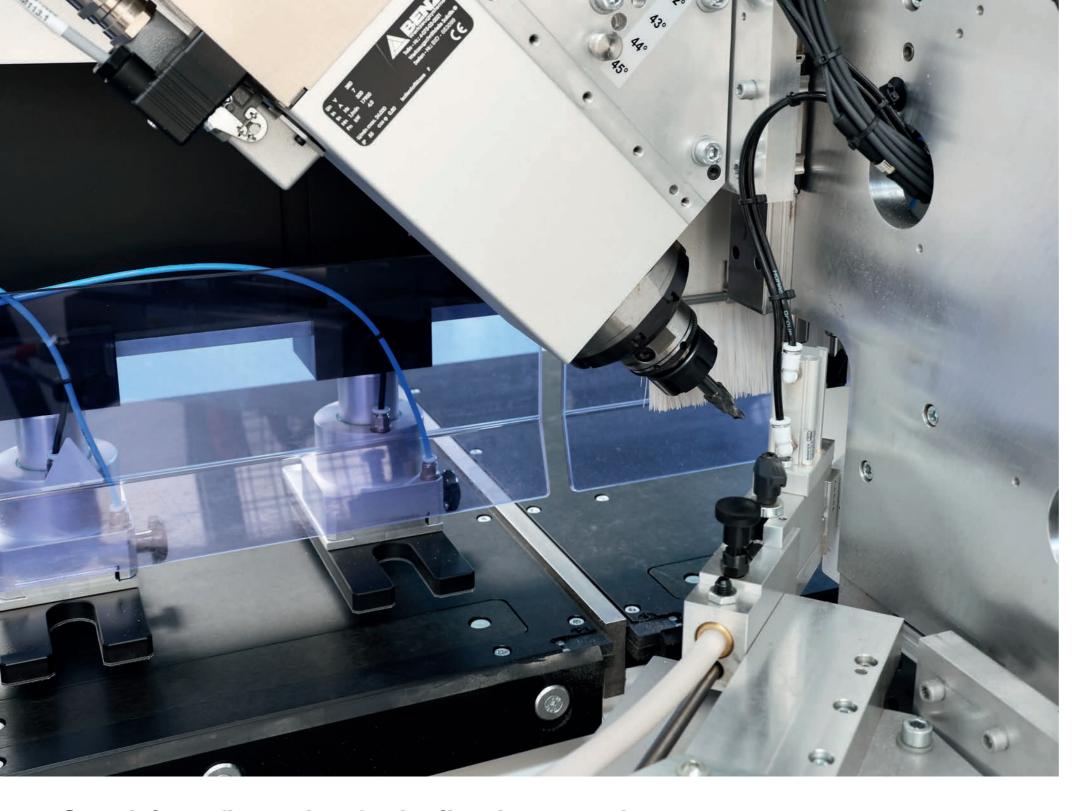


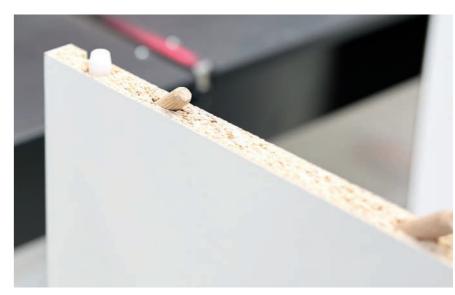
tapio-ready

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

Everything at a glance...









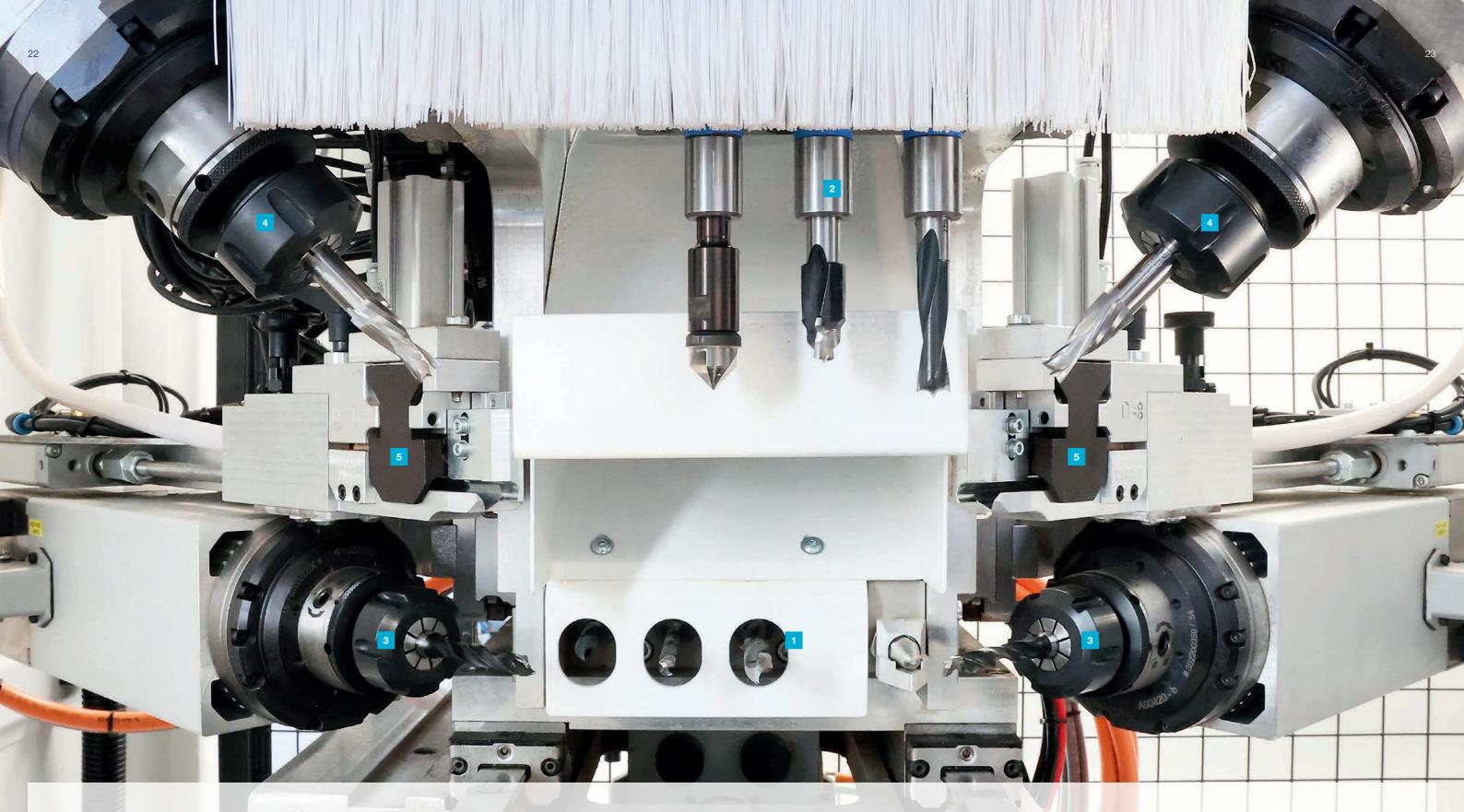


Special configuration for inclined processing

Drilling and dowelling at angles from 42° to 45° $\,$

In this model of DRILLTEQ D-510, the basic machine comes in a fixed configuration straight from the factory. Here, both the horizontal processing in the front side and the vertical pro-cessing in the edge area are inclined at an angle between 42° and 45°. In addition to the drilling of holes, the gluing and insertion of dowels is al-so possible.

This characteristic offers new possibilities in the design of furniture and opens up access to innovative connection solutions.



Special configuration for inclined processing -

1 Horizontal drilling

- For precise processing by using proven components from our industrial sector
- Up to 3 individually selectable drilling spindles with 32 mm pitch

2 Vertical drilling

- For precise processing by using proven components from our industrial sector
- Up to 3 individually selectable drilling spindles with 32 mm pitch
- Travel range in Y-direction: 0 70 mm (at drill diameter up to 20 mm)
- Through holes possible

at a glance:

3 Horizontal drilling 42° – 45°

- A provisioning stroke of up to 50 mm allows drilling at depth
- Powerful, robust and proven spindle with 3.6 kW capacity

4 Vertical drilling 42° – 45°

- A provisioning stroke of up to 50 mm allows drilling operations into the front side of the workpiece
- Powerful, robust and proven spindle with 3.6 kW capacity

5 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



Our Mission, Your Performance.

Fast support:

94% resolution rate via our hotline

Close to you:

1,350 service experts worldwide

We get things moving:

Over 1,000 worldwide spare parts shipments each day

No one else has that:

Electronic documentation on over 150,000 machines, available in 28 languages

LIFE CYCLE SERVICES

Improved performance, more efficient processes, faster help, assurance of availability and smarter working

TEAM & COVERAGE

Largest global service network in the industry with over 1,350 personnel.

INSTALLATION & COMMISSIONING

For a smooth start, we only let proven experts manage your setup.

OPERATION & CONTROL

After teaching your personnel the intuitive control system, our clever apps help to make the operator's life much easier.

MAINTENANCE & SERVICING

To keep things running, we're happy to take a preventative approach. You decide how often and how intensively you want the support to be. As we all know, prevention is better than the cure.

eSHOP & ONLINE ADVANTAGE

A few clicks and it's fixed. Receive exclusive advantages by ordering spare parts online, depending on market availability. shop.homag.com

HOTLINE & READINESS

When there's an emergency, we're here. Direct by phone, digitally via app or video, or with on-site support. We are close to you with over 90 regional service organizations worldwide. With more than 35,000 spare parts immediately available, we can deliver 85% of your orders fast.

TRAINING & EDUCATION

With classroom, live online or eLearning training, we offer flexible options to help you get knowledge. We conduct over 4,000 customer training courses every year, and we even have our own training centers in 19 countries

MODERNIZATION & IMPROVEMENT

Our modernization program is tailored to your machines and processes. We can evaluate your data and situation and advise you on the next step.

ANALYSIS & SUSTAINABILITY

On request, we analyze all your processes with proven tools and procedures (LeanSixSigma). We have a large, certified team of experts for this purpose.

FINANCING & CONSULTING

We offer you tailor-made financing concepts worldwide. With more than 60 years of experience and a close partner network of prominent banks and insurance companies to help us to find the right solution for you, we're always transparent and reliable in processing.

26 HOMAG DRILLTEQ D-510 Technical Data

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	А	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.





Impressions of the **DRILLTEQ D-510**









