



CENTRONIC

Machining center for 6-sided drilling

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Machines of the CENTRONIC series are equipped for horizontal and vertical drilling on up to six sides of a workpiece. The workpieces are transported through the machine in a longitudinal throughfeed. In the first part of the machine, the workpieces are fed into the working stations via an NC-controlled vertical gripper. There they are taken over by a second (horizontal) NC gripper. It moves the workpieces out of the working station, while the first gripper already takes the next workpiece. This allows the workpieces to be continuously processed regardless of their width and length. A sophisticated technology, convincing performance parameters and easy usability distinguish our CENTRONIC series. Our machines guarantee fast and reliable production processes at all times.

- ✓ Fastest concept of its kind
- ✓ Flexible production
- ✓ No or minimum downtimes for program changes and setups
- ✓ Innovative gripper system - Continuous feeding of a wide variety of workpieces
- ✓ Powerful for small and large batch sizes (also batch size 1)
- ✓ Modular principle



THE K-SYSTEM

Product lines to optimize productivity and success

You can rely on KOCH to answer all your needs with expertise, precision and passion. With KOCH as your partner, you are offered the full range of possibilities, where transparency and consistency are guaranteed. From our clearly structured range of products, we provide you with the perfect solution to match your requirements.

Whether gearing up for a profitable launch, optimizing production to increase flexibility or configuring a unique system for maximum performance – no matter how you decide, each option is designed with the core competencies of the industry's leader and results in top quality. We call it the K-SYSTEM.

At its manufacturing facilities in Germany, KOCH produces cutting-edge technology for wood processing. Our product lines, consulting expertise and services are available around the world at any time through our extensive network of branch offices and business partners.



base.line

effective planning. efficient production.

- ✓ Pure function and top quality combined in concentrated form
- ✓ Convenient handling and reliable performance guaranteed
- ✓ High-quality equipment at an attractive package price



pro.line

flexibly featured. designed for growth.

- ✓ Enhanced functionality for targeted optimization
- ✓ Boost in flexibility thanks to additional features
- ✓ Select machines at an attractive package price



select.line

customizable configuration. smart optimization.

- ✓ Tailored configuration to maximize performance
- ✓ Utmost flexibility through perfectly customized functionalities
- ✓ Seamless integration into production processes



CENTRONIC base.line

6-sided drilling for batch size 1 production

With the CENTRONIC base.line, KOCH offers a powerful machine for flexible drilling on six sides of a workpiece. Already with the basic version, the machine is well equipped for a wide range of requirements. In addition, it is ideally suited for batch size 1 production thanks to its NC-controlled workpiece gripper system.

The basic equipment includes:

- ✓ Support with 1 drilling station from above and 1 drilling station from below, with 4 NC-axis
- ✓ NC-controlled stock transport system as X-axis
- ✓ NC-controlled width adjustment
- ✓ Vertical drilling from above and below with 14 individually controlled spindles
- ✓ Max. 3 horizontal drilling spindles with 2 outlets, arranged in Y-direction for drilling into stock edges
- ✓ Max. 3 horizontal drilling spindles with 2 outlets, arranged in X-direction for drilling into stock ends
- ✓ Lateral stock pushing device with rolls for a gentle stock transport
- ✓ With manual feed



Vertical drilling from above and below with 14 individually controlled drilling spindles



Horizontal gripper system



Vertical gripper system



CENTRONIC pro.line

6-sided processing for batch size 1 production

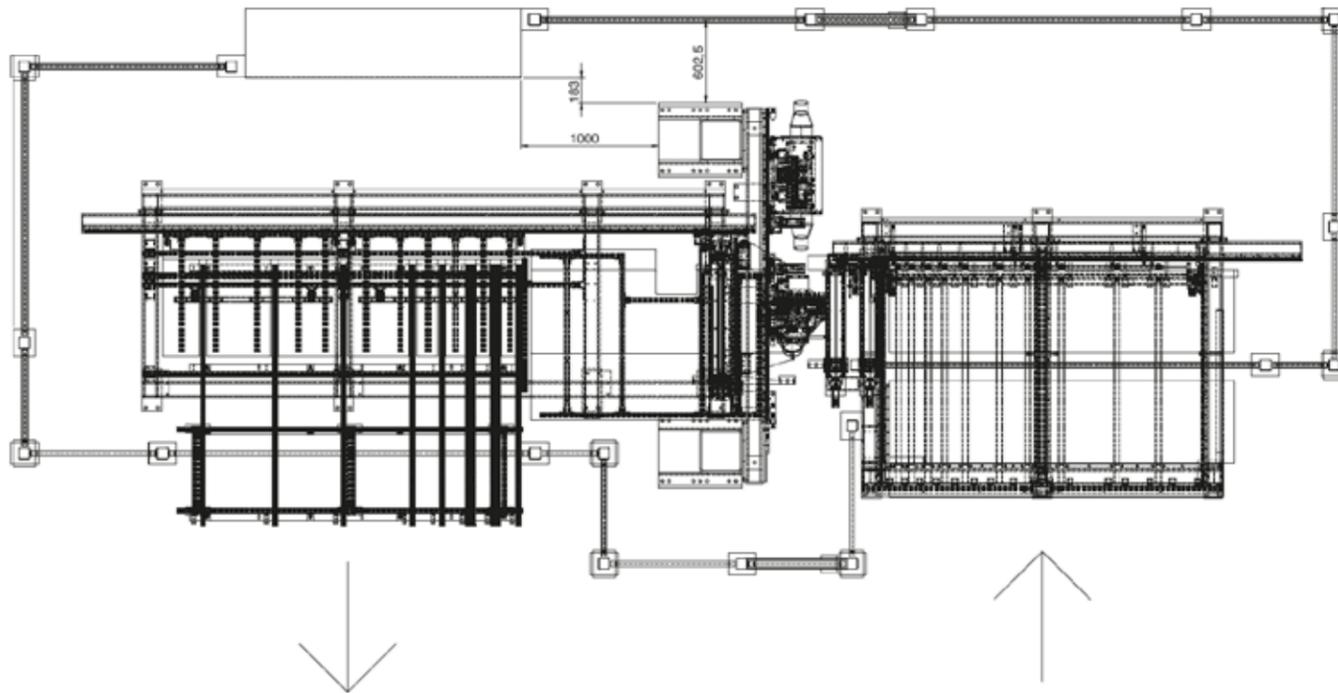
The pro.line version of the CENTRONIC combines versatility and flexibility with its plus in equipment options. The machining center convinces with a variety of optional features and thus enables extensive drilling as well as further processing steps such as milling and grooving.

In addition to the base.line equipment, the machine is available with the following options/combinations, depending on the customer's requirements:

- + Vertical drilling from above and below with 28 individually controlled drilling spindles
- + Shaping unit
- + Grooving unit
- + With manual feed



Structure of the processing stations



Drilling from above and below



Transfer to the following machine per NC-gripper



CENTRONIC select.line

Machining center with individual equipment

The machining center CENTRONIC select.line can be individually equipped with a variety of processing units and offers maximum possibilities to customize it according to your individual requirements:

- ✓ Vertical drilling from above and below with 14 or 28 individually controlled drilling spindles
- ✓ Edge drilling spindles for example for spot drillings
- ✓ Shaping unit
- ✓ Grooving unit
- ✓ Tilttable sawing station
- ✓ Automatic stock feeding

Additional processing units can be added in separate machine modules:

- + Doweling
- + Setting station for metal fittings
- + Bottom grooving unit for bottom or back panel groove
- + Integration into production lines



Bottom grooving unit for bottom or back panel grooves



Shaping unit



Tilttable sawing station



Powerful solution for processing cabinet sides and narrow parts in batch size 1

By combining the UNIFLEX drilling and dowel-driving machine with a CENTRONIC machining centre for six-sided operations, KOCH is able to offer a cutting-edge concept for machining panels and narrow parts. The machine line is specially designed for a high performance batch-size-one production. In order to create exceptional benefits that match exactly with your production requirements, KOCH will adapt each machine individually. The CENTRONIC and UNIFLEX machines can be used as an island solution, or they can be integrated into an existing line.

Workflow

While the workpieces are transported to the machine via roller conveyor, a scanning system reads the barcode on the panel and automatically uploads the information to the CENTRONIC. The workpieces are then fed individually into the CENTRONIC via an NC-controlled gripper system. Here, all the drilling is performed from above and below the workpiece, as well as all longitudinal drilling at the workpiece edge. Milling and grooving operations from above and below can also be carried out on the CENTRONIC. The processed workpieces are then transported via a gripper onto a belt conveyor and are moved into the UNIFLEX where each part is drilled horizontally and vertically at the edge, as well as doweled horizontally.



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