

Vertical Machining Centers LabCenter 350 Advanced

SKU : 181605

The LabCenter 350 Advanced is a reliable, compact machining centre for CNC training, but also for production. This modern CNC machining centre has the functional scope of a large production machine, but is designed for lighter machining. The Siemens 808 control system offers simple, intuitive operation, making it ideal for those new to CNC applications. With its large tool changer, the LabCenter 350 Advanced enables practical training and efficient production of small series.

- Compact design with little space requirement
- High-quality components and complete equipment
- Powerful Siemens 808 control system
- Robust 12-position tool changer



TECHNICAL SPECS

WORKING AREA

Table dimensions	600 mm x 240 mm
Table load capacity	100 kg
Spindle nose-to-table surface distance	100 mm - 420 mm
Number of T-slots	3 positions

TRAVELS

Travel X-axis	350 mm
Travel Y-axis	240 mm
Travel Z-axis	400 mm

HEADSTOCK

Spindle speed	6000 1/min
Spindle mount	SK 30

FEED

Rapid feed	6000 mm/min
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TOOLING

Number of tool stations	12 positions
Tool Ø	60 (200) mm
Tool weight max.	5 kg
Tool-change time tool/tool	12 sec

ACCURACIES

Repeatability	0.015 mm
Positioning accuracy	0.01 mm

DRIVE CAPACITY

Main drive, continuous load	2.2 kW
Total power consumption	6 kVA
Motor rating X-axis	1 kW
Motor rating Z-axis	1.75 kW
Motor rating Y-axis	1 kW

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	1.75 m x 1.35 m x 2.2 m
Weight	1260 kg



PRODUCT DETAILS

Machine Design

- The cast iron machine frame forms the rigid and vibration-damping foundation of this compact machining centre
- The use of high-quality, generously dimensioned components guarantees permanently precise and reliable machining processes
- All axes move in precise linear guides that are reliably protected by solid covers
- Together with the ball screws, these guarantee the precision, dynamics and durability of a production machine
- In the Z-axis, weight equalisation ensures that fine and fast-reacting movements of the milling head are implemented precisely
- The machine table offers a large clamping surface and is designed for a table load of 100 kg
- The closed enclosure is easily accessible thanks to the sliding door at the front and windows on both sides



12-station tool changer for increased productivity and flexibility

Main spindle and drives

- The SK 30 spindle holder enables a compact design and offers a large selection of tools
- The multiple bearing, belt-driven spindle unit enables spindle speeds of up to 6,000 rpm

Automatic Tool Changer

- The 12-position tool changer increases productivity, flexibility and safety during machining
- The horizontal design does not require additional grippers and is very robust



With its uniform control and programming logic the SINUMERIK provides great advantages for both professionals and entry-level users

Equipment

- An electronic hand-wheel simplifies machine set-up
- An automatic central lubrication system reliably supplies all lubrication points and simplifies maintenance
- Electronics are protected within a fully enclosed control cabinet, and a powerful heat exchanger manages the temperature
- During set-up work a compressed air gun is immediately to hand for the operator

Control

- With the standardised SINUMERIK operating and programming philosophy, the SINUMERIK 808D ADVANCED is also a good choice for demanding milling operations
- This control system can also be used particularly effectively for training purposes
- The programming instructions are designed in such a way that the basics of CNC technology can also be taught in an easily understandable way



STANDARD EQUIPMENT

- Siemens 808D Control
- Carousel-type 12-station tool changer
- Electronic handwheel
- Enclosed workspace (without top cover)
- Automatic central lubrication
- Coolant device
- Air gun
- Heat exchanger for electric control cabinet
- Work lamp
- 3-color signal lamp
- Operating tools
- Operator instructions



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