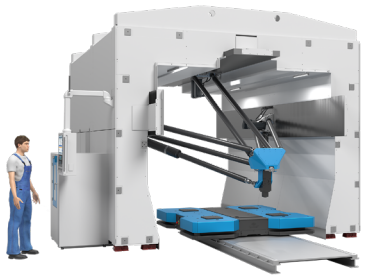

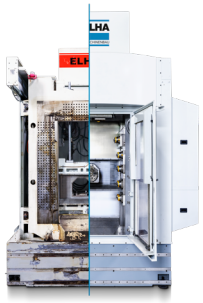

ELHA RETROFIT

Parallel Kinematic Module (PKM)

Closes the gap between machining centre and industrial robot when machining large components.

- Low moving mass
- Particularly energy efficient
- Fast and dynamic
- Flexible design
- Large working space: width = 3m, height = 2m, length = not limited

- Up to 20x less moving mass
- Acceleration up to 2.5g
- Repeatability up to 5 µm
- Tool path accuracy up to 50 µm

Together with our customers and partners, we offer turnkey solutions:

- Process and tooling development
- Solutions for partially or fully automated processes

After Sales

Worldwide service for

- Maintenance, inspection, repair
- Spare parts sales & dispatch
- Training & Education
- Remote support & service
- Machine relocations & commissioning
- Conversion/reuse, retooling & retrofit of single machines to complete product lines
  - manufacturer-independent
  - as general contractor

For more information on our services, scan the QR code!

https://www.elha.de/en/after-sales-en/

ELHA-MASCHINENBAU Liemke GmbH & Co. KG

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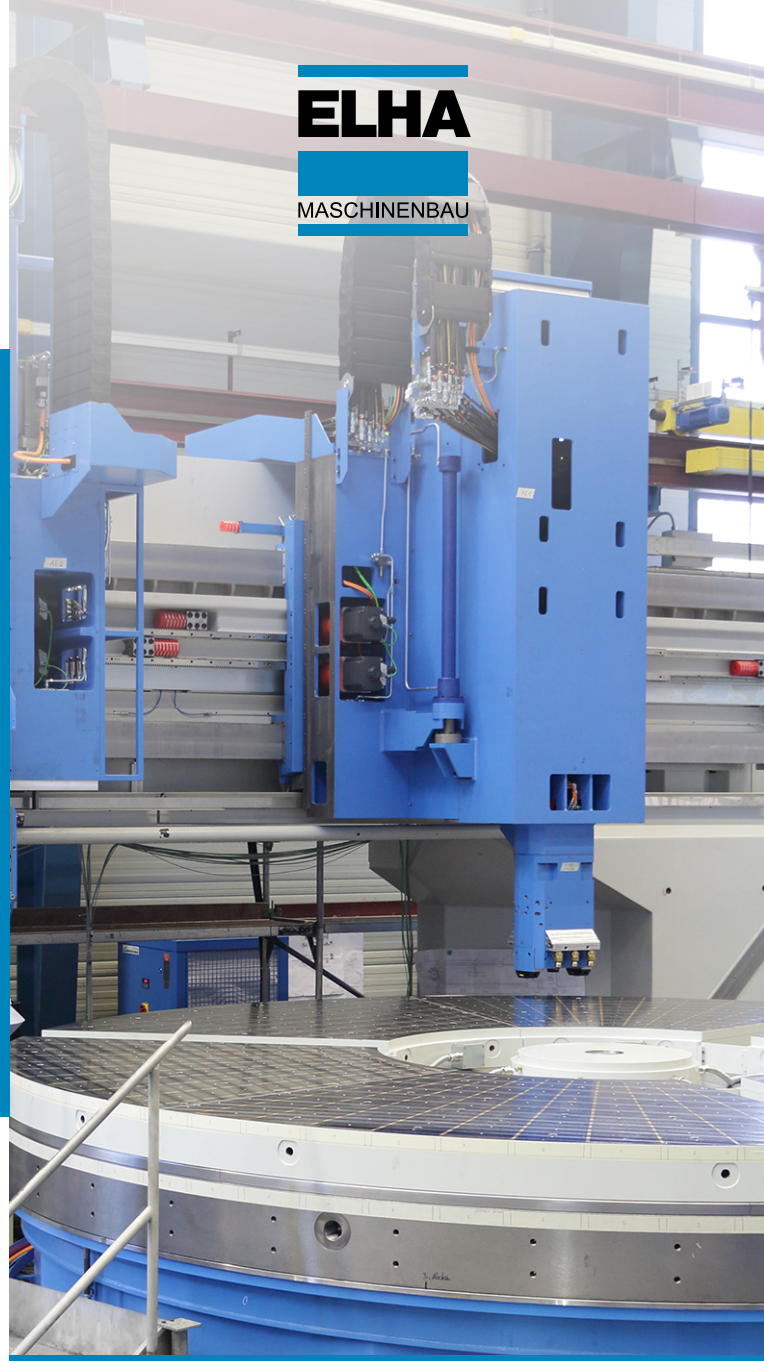
Otto-Hahn-Straße 27
33161 Hövelhof

Do you have questions? Contact us!

V3

www.elha.de



ELHA MASCHINENBAU

Product Overview

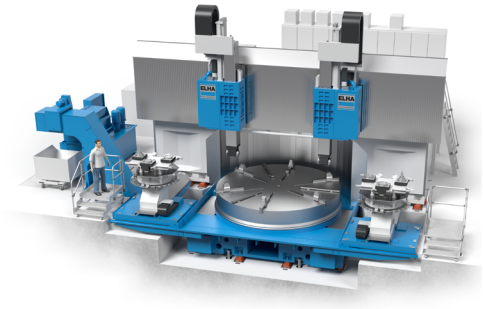
For more information scan the QR code!

https://www.elha.de/en/machines/

Production Modules (FM)

The production module turns machining on its head. The workpieces move from tool to tool.

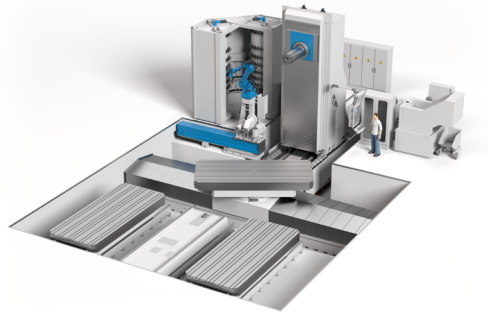
- Short chip-to-chip times
- Parallel machining of 2 to 8 workpieces
- Freely configurable workspace
- Flexible and productive



Vertical Turn-Milling Centers (VTM)

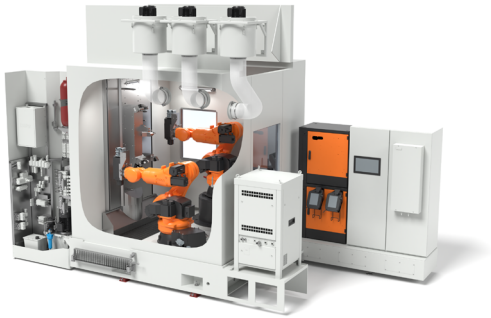
With this machine series, there is no compromise in the multitasking machining (turning, milling, drilling, grinding) of large rotary and cubic components.

- Scalable, high-precision rotary table with direct drive
- Use of attachment heads
- Hydrostatic guides / bearings



Special Machining Centers (SMX)

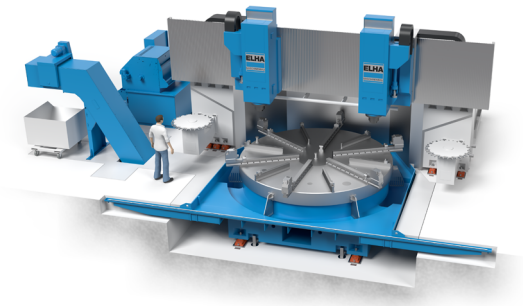
These machines have configurations that are often familiar from standard machining centres. However, in terms of dimensioning and of the functional components, however, these machines are developed individually according to the customer's wishes.



Robotic Machining Cells

The alternative for large-volume workpieces with requirements in the ±0.2mm range, programmable in G-code.

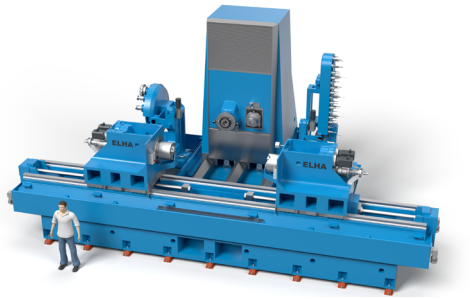
- Parallel, independent machining using several spindles on one workpiece
- Fast and productive for limited application areas



Rotary Table Machining Centers (RTX)

Rotary table machines of this type are preferably used for the drilling and threading of ring-shaped workpieces (e.g. roller bearings for the wind energy industry).

- Powerful drilling machining
- Use of angle heads
- Chucks according to customer requirements



Special Purpose Machines (SPX)

The classic special machine. Where standard concepts or systems reach their limits in terms of productivity and productivity and flexibility, our individually individually developed machines come into play.

- Machine ideally designed for customer workpieces
- Integration of various special processes possible