



ME

MULTI END MACHINING CENTERS

END MACHINING OF RAILWAY COMPONENTS



ME MULTI END SERIES

The ME-100-X end machining centers are designed for double-sided machining of heavy workpieces. Optimized machine modules and customized clamping stations ensure pure flexibility and great precision.



Machining individual workpieces requires reliable technology.

- flexible spindle concepts with superior quality
- short setup times and easy tool accessibility
- extensive integration of additional operations

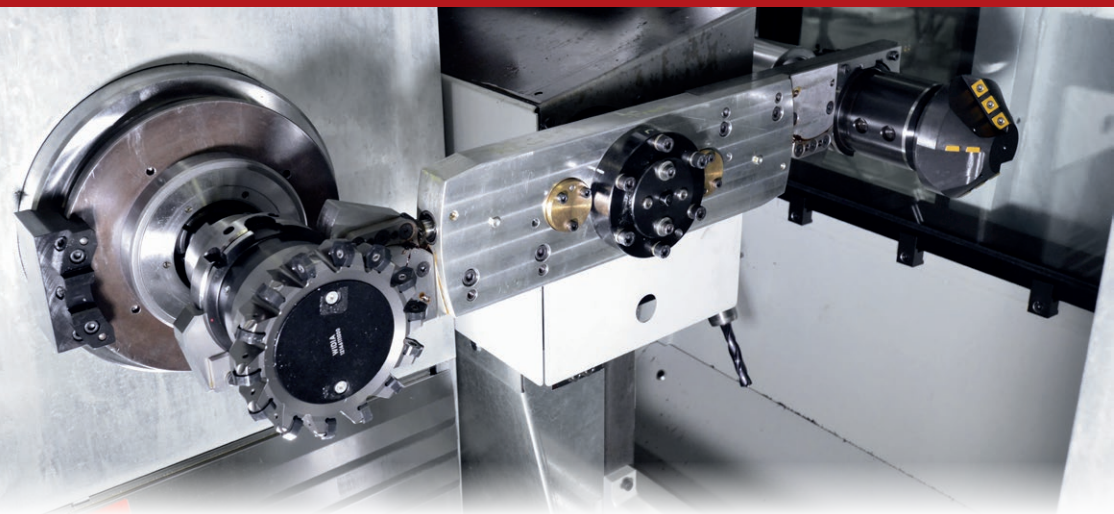


DRILLING



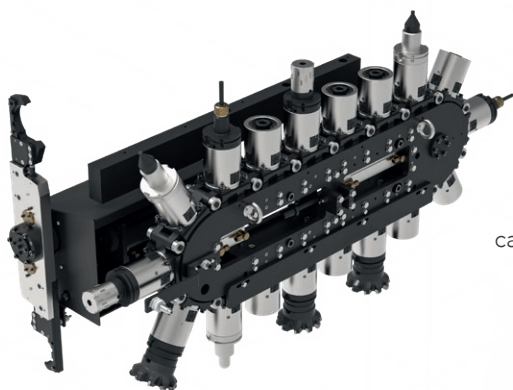
MILLING





Automatic Tool Changer (ATC)

tool length: max. 350 mm
 tool weight: max. 11 kg
 tool diameter: max. 280 mm
 tool holder: HSK100 A

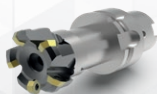


Tool Magazine

capacity for min. 18 tools with HSK 100-A

Retooling for maintenance is easy and fast.

manual tool change (per tool): ~ 1 min
 automatic length adjustment: ~ 3 min
 manual change of clamping jaw inserts: ~ 30 min



TURNING



THREADING

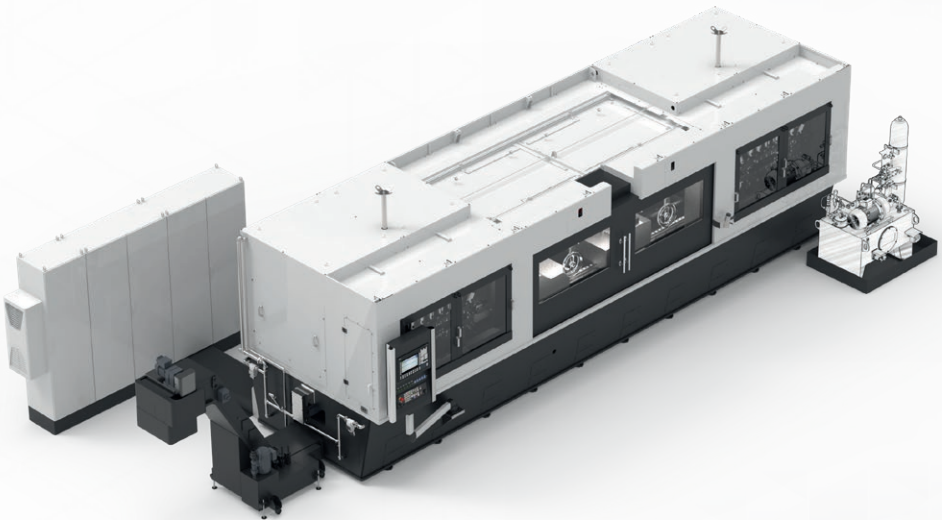


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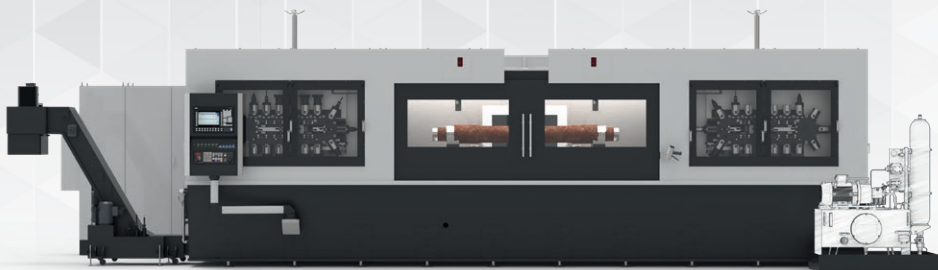
FLEXIBLE MODULAR DESIGN

Standardized machine components and advanced modules allow for versatile configurations, making them adaptable to a wide range of requirements.



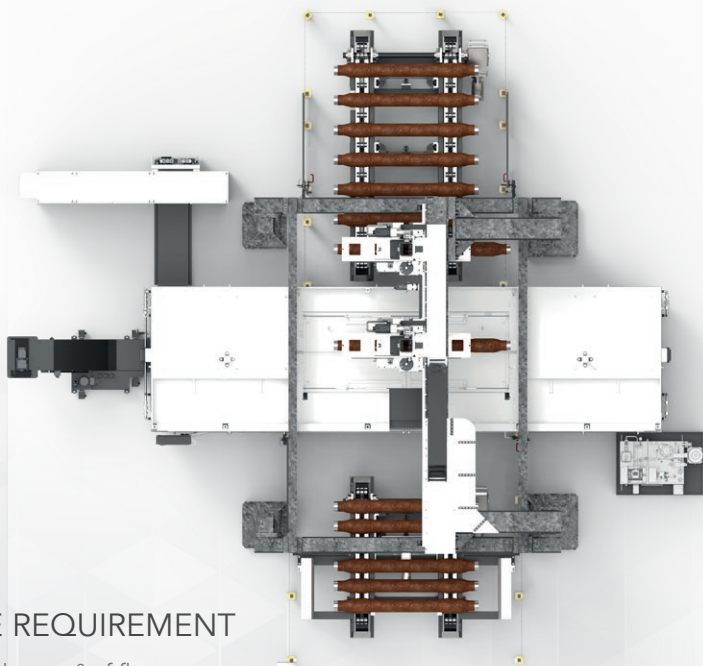
GOOD ACCESSIBILITY + MAINTENANCE

Well-organized operating and maintenance components enhance the system's ergonomic handling, while the control panel provides a clear view of the machining operations.



COMPLEX PROCESSING

Advanced machining processes such as face milling, circular milling, pocket milling, center drilling, drilling, thread cutting, thread milling, countersinking, chamfering and facing are all performed within a single, specialized machining center.



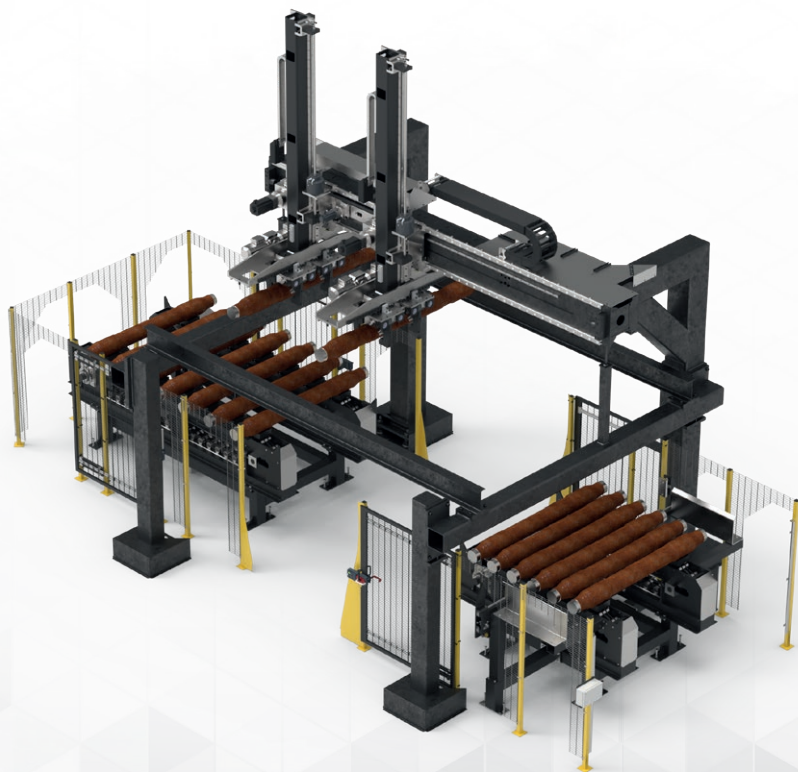
LOW SPACE REQUIREMENT

Higher output achieved per m² of floor space thanks to the modern, compact system design.



EASY TO AUTOMATE

Handling systems such as gantries, robots, and heavy-duty workpiece conveyors can fully automate individual machines or entire production lines.



ME-100-X

Basic Data	ME-100-X
number of stations (2-sided machining)	2
base machine dimensions (L/W/H)	8,200 / 2,500 / 2,600 mm
connected load	180 kW
machine weight (approx.)	35,000 kg
control (Siemens)	SINUMERIK ONE
raw material feed	forged axles, steel shafts
loading / unloading	automatic or manual / front or top

Performance Data	ME-100-X
gear box switch 1:1 – drilling: spindle speed at 2,000 rpm	220 Nm
gear box switch 1:1 – drilling: spindle speed at 3,000 rpm	150 Nm
gear box switch 1:1 – drilling: spindle speed at 4,000 rpm	80 Nm
gear box switch 1:4 – milling: spindle speed at 500 rpm	880 Nm
gear box switch 1:4 – milling: spindle speed at 750 rpm	600 Nm
gear box switch 1:4 – milling: spindle speed at 1,000 rpm	320 Nm
positional precision feed axes	≤ 0.005 mm
rapid traverse rate feed axes	30 m/min
clamping diameter (centric)	80-300 mm
max. travel axis (X/Y/Z axis)	550/550/700 mm
max. number of NC axes	6
tool holder	HSK100-A

For special requirements (not covered by the standardized configuration options) the machine concept can be designed as needed and realised in a custom end machining center (ME-S).



SEMA

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