

# Technical data

## Heckert T45

Rapid traverse	m/min	80
X/Y/Z travel	mm	700/750/750
X/Y/Z acceleration	m/s <sup>2</sup>	8/11/8
Chip-to-chip time	s	3.8
Toolholder		HSK-T100
Max. tool length	mm	430
Max. tool width	mm	220
Pallet dimension	mm	400x400 (400x500, ø400)
Time required to change pallets	s	12.5
Workpiece core contour	ø in mm	600
Max. swing	mm	400
Loading mass	kg	400
Machine length/width	mm	6,750/2,960



Engineering precisely what you value

Heckert



Engineering precisely what you value

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## Heckert T45

Five-axis complete machining with multitasking  
Maximum productivity, minimum footprint



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# Five-axis complete machining with maximum productivity in minimum space

This five-axis horizontal machining centre with fast-rotating trunnion table is designed for the complete production of complex workpieces in a single clamping position. The trunnion table is positioned and driven on both sides, enabling highly dynamic simultaneous machining that achieves excellent surface quality on workpieces with free-form surfaces and multi angle operations. You will receive a machine that is unique on the market in terms of dynamics, stability and precision.

You will also benefit from the minimized footprint. The modular design allows for flexible configuration of your machines so you can meet your specific technology requirements. The fast-rotating table expands your machining capabilities compared to a conventional five-axis machine with rotationally symmetrical methods such as turning, turn-milling and hobbing. This process density in one machine saves you investment and production costs and increases your process reliability.

## Your benefit

### Tool magazine

- Less non-productive time**
- Up to 240 tools
  - Individual configuration
  - Ergonomic loading and unloading

### Work spindle

- Your competitive advantage**
- 292 Nm torque
  - 15,000 rpm
  - Extremely short speed-up time with HSK-T100

### Pallet changer

- Maximum productivity**
- 12.5s pallet change time
  - Set-up during the machining time

### Workpiece carrier

- Safe loading and unloading**
- 13-channel hydraulic clamping unit
  - Maximum precision for machine pallets
  - Automatic loading doors (option)

### Turning

- Saving a lathe**
- NC rotary table with 900 rpm
  - Ready for standard collet chucks
  - Unbalance detection

### Productivity

- Shorter machining times**
- 80m/min axis speed
  - 3.8 s chip-to-chip time
  - NC rotary table with 900 rpm

### Condition monitoring

- Maximum machine availability**
- Work spindle diagnostics
  - Collision detection
  - Chip detection

### Control system

- Simple operation**
- Siemens 840D sl
  - Fanuc 31i
  - Profinet

### Operation

- Ergonomic and reliable**
- 24" screen
  - Three frames and full-screen mode
  - Intuitive user interface with gesture recognition

### Automation capacity

- Cost reduction**
- Workpiece loading via robots or via pallet storage
  - Unmanned production
  - Optimised for central media supply and disposal

### Fifth axis

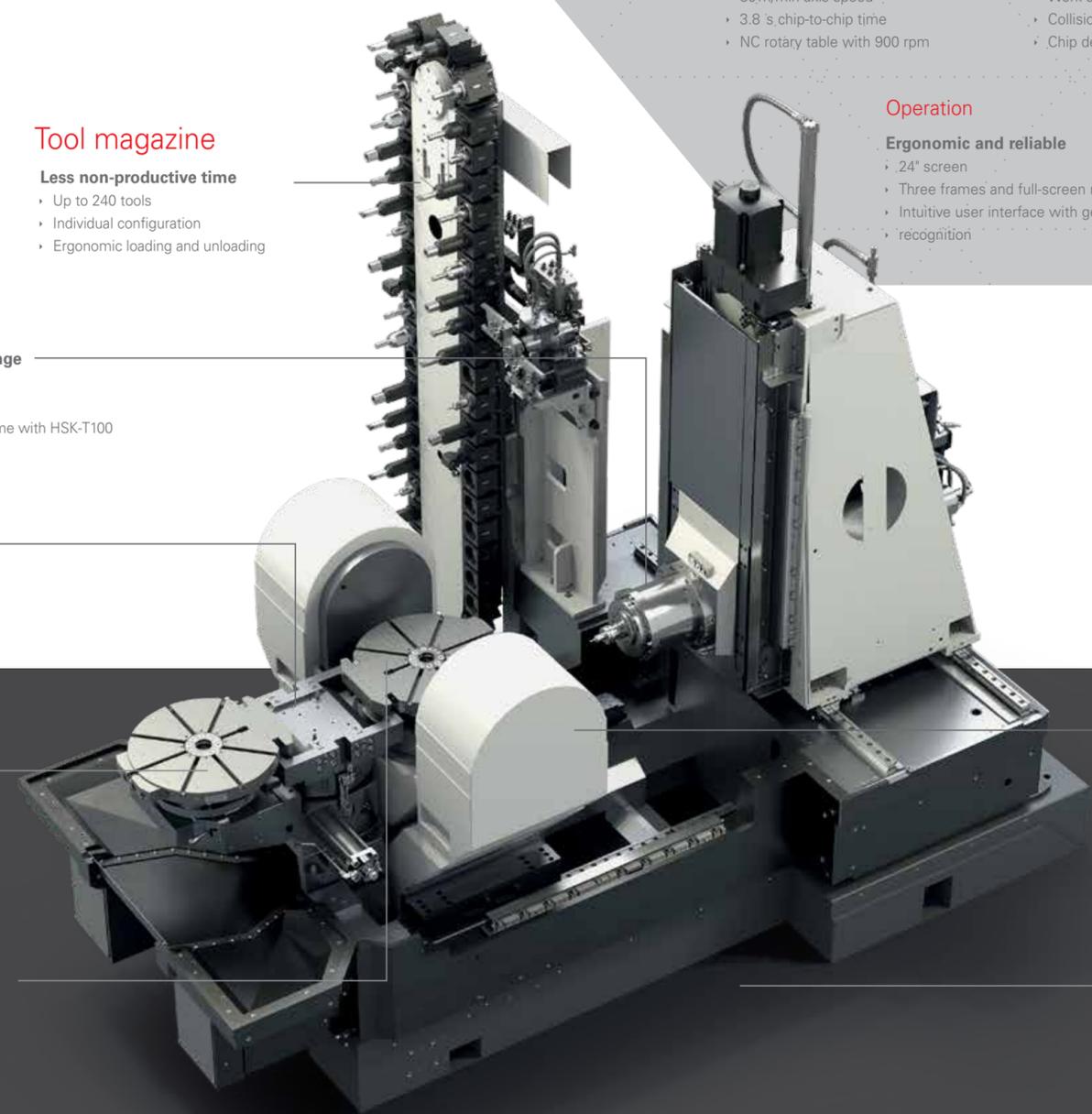
- Reliability in the manufacturing process**
- Unique level of stability thanks to bearings on both sides
  - Maximum accuracy thanks to thermal symmetric design
  - Maximum dynamics in positioning mode and simultaneous operation
  - Excellent chip disposal

### Installation space

- Reduced investment costs**
- 38 % reduced footprint
  - Peripheral units are fully integrated

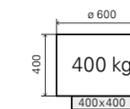
### Basic machine

- Increased process reliability**
- Thermo-symmetrical design
  - High level of rigidity and damping
  - Direct chip disposal, also for dry machining

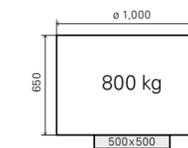


## Heckert MT solutions

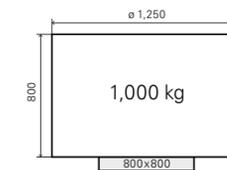
The new Heckert T45 rounds off our range of multi-tasking machining centers with a trunnion table for pallet size 400x400 mm.



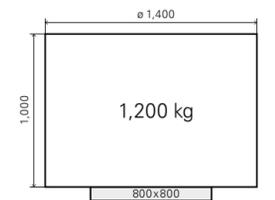
Heckert T45



Heckert HEC 500 X5



Heckert HEC 630 X5



Heckert HEC 800 X5