

Heckert

Heckert H40/H50/H55

Four-axis universal machining Maximum productivity, minimum footprint

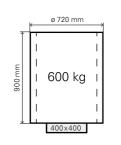




4 Basic machine

Large workspace, small footprint

These four-axis horizontal machining centres are space-saving miracles, but they remain true to our stringent quality standards in every respect. They guarantee maximum precision for your work processes thanks to our guiding values of accuracy and rigidity. These are values embodied by Heckert machining centres throughout their decades-long history on the market.

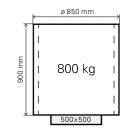


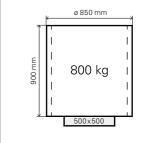
Heckert H40

X/Y/Z travel	mm	560/650/680
Machine length	mm	6,750
Machine width	mm	2,670
Toolholder		HSK-A63



X/Y/Z travel	mm	700/750/780
Machine length	mm	6,750
Machine width	mm	2,760
Toolholder		HZK-V83





Heckert H55

X/Y/Z travel	mm	700/750/780
Machine length	mm	6,750
Machine width	mm	2,960
Toolholder		HSK-A100



6 Customer needs

We safeguard your future

Our machines meet tomorrow's needs today. Protect your company's progress.

Profitability

Cost reduction

We want to reduce costs! w

We help you comprehensively. With our machines you optimize your investment and maintenance costs. What's more, you can sustainably reduce your unit costs thanks to the low space requirement and high energy efficiency.

Productivity

How can we increase ou productivity? w

Two decisive approaches:

The high rigidity of our machines allows you to increase chip removal, which reduces your cutting time.

We keep the non-productive time – such as tool change, spindle speed-up, pallet changing and B-axis positioning – to a minimum, resulting in faster turnaround times and increased productivity.

Growth

Development

We want to think about the future today! w

Whatever the future holds: As a global corporation, Starrag bundles state-of-the-art know-how and thus develops future technologies for upcoming challenges.

Competitiveness

We will henceforth be able to flexibly continue to grow? #

Absolutely.

Thanks to modular machine groups, modules can be redesigned and replaced even after many years.

They remain state-of-the-art and above all: competitive.

Reliability

Safety

Partnership

Our aim is not only to equip you with

the most precise machine tools on

the market, but also to ensure this

and project realization.

in time.

precision in the phases of consulting

This guarantees tailor-made solutions

we save both? w

stable processes without nasty surprises – is this possible? w

Of course. Even after years our machines work with high precision and thus minimize downtime.

This ensures the highest quality and productivity over decades.

8 Features of Heckert H40/H50

Designed to your benefit

The basic modular concept of the new Heckert machining centres offers maximum efficiency even with a standard configuration. And that's no coincidence, since a consistent increase in added value for the customer was essential for the development of each individual assembly.

Tool magazine

Less non-

- Individually configurable
- Ergonomic loading and unloading
- Also with tool identification



Column

Maximum productivity

- Thermo-symmetrical design
- → High level of rigidity
- Direct chip disposal, even for dry machining
- Optimised for dynamic machining



productive time

- Up to 320 tools



Work spindle

A clear competitive edge

- Up to 350 Nm torque
- Up to 20,000 rpm
- Extremely short speed-up time with HSK-A63

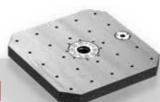
Basic machine Increased process reliability

- Maintenance-free cover concept with fixed sheet steel panels
- High level of rigidity and damping
- Direct chip disposal, even for dry machining

Pallet changer

More flexibility

- → 8.5-second pallet change time
- Set-up during machining time
- Automatic loading doors (option)



Workpiece carrier

Safe loading and unloading

- → 13-channel hydraulic clamping unit
- Maximum precision for machine pallets
- Individually adaptable





Footprint

- Footprint reduced by 38 %
- Periferical units are fully integrated



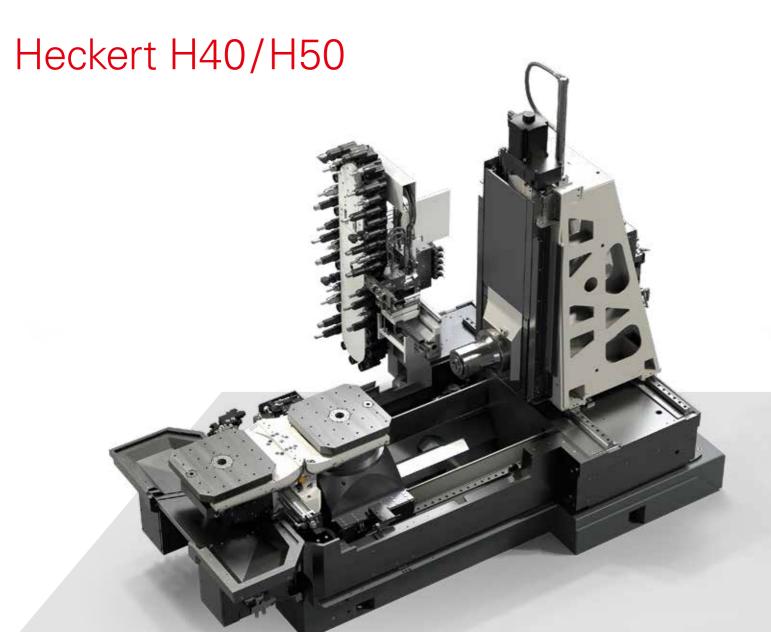








10 Technical data



Technical data

		Heckert H40	Heckert H50
Rapid traverse	m/min	80	80
X/Y/Z acceleration	m/s²	9/12/10	9/12/10
Chip-to-chip time	S	2.7	2.8
Toolholder		HSK-A63 (SK, BT, CAT)	HSK-A63 (SK, BT, CAT)
Max. tool length	mm	350	450
Max. tool diameter	mm	160	160
Time required to change pallets	S	8.5	9.5
Workpiece core contour	ø in mm	650	750
Extended workpiece contour	ø in mm	720	850
Loading mass	kg	600	800
Pallet dimension	mm	400×400 (400×500)	500×500 (500×630)
Machine length/width	mm	6,750/2,670	6,750/2,760



12 Features of Heckert H55

Our machines grow with your tasks

You can benefit from the small footprint of our compact machining centres even at more demanding jobs. We have designed the relevant components for heavy-duty machining.



Column

Increased process reliability

- Thermo-symmetrical design
- High level of rigidity
- Optimised damping properties



Work spindle and

toolholde

Maximum productivity

- → Up to 452 Nm torque
- → Up to 15,000 rpm
- Extremely short speed-up time with HSK-A100



Tool magazine

Less nonproductive time

- Up to 240 tools
- Individually configurable
- Ergonomic loading and unloading







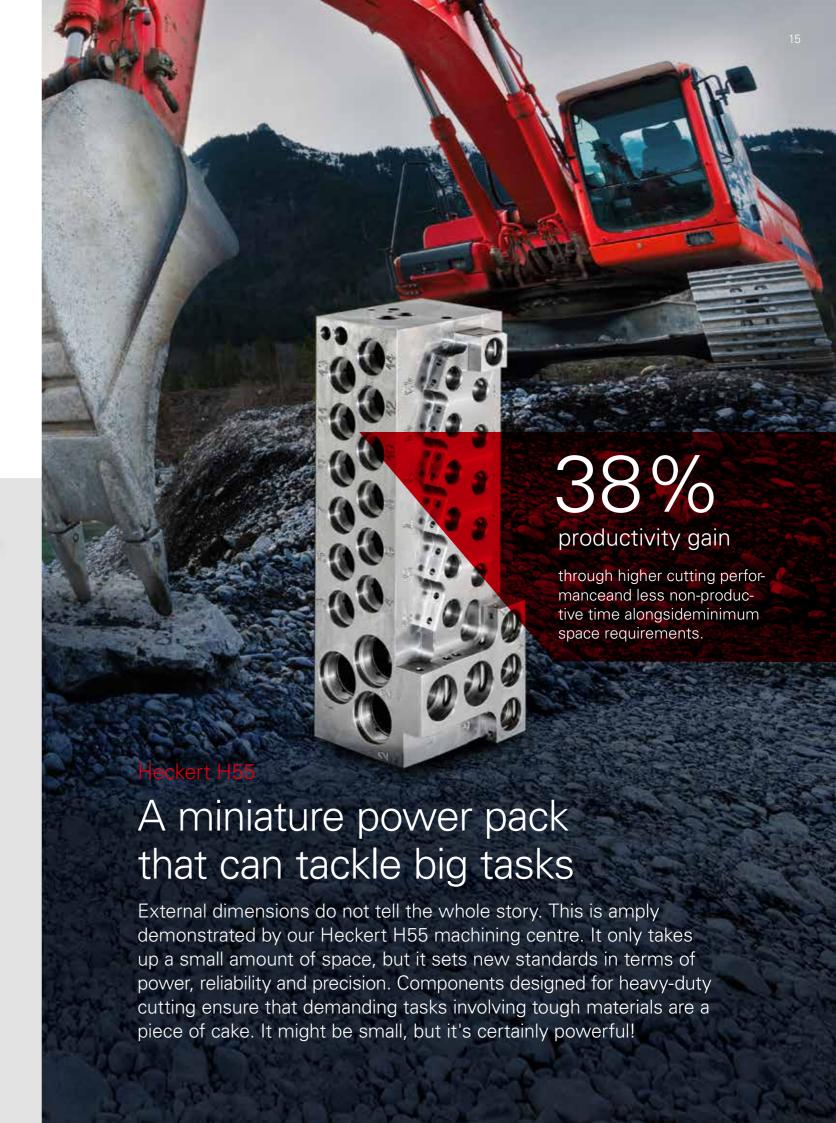




Technical data

Heckert H55

Rapid traverse	m/min	80
X/Y/Z acceleration	m/s²	8/11/10
Chip-to-chip time	S	3.4
Toolholder		HSK-A100
Max. tool length	mm	430
Max. tool diameter	mm	220
Time required to change pallets	S	9.5
Workpiece core contour	ø in mm	750
Extended workpiece contour	ø in mm	850
Loading mass	kg	800
Pallet dimension	mm	500×500 (500×630)
Machine length/width	mm	6,750/2,960



Productivity meets flexibility

Our diverse range of spindle and magazine options can be tailored to your individual requirements, for production processes that can handle whatever the future holds.

The new Heckert machining centres use a modular basic concept that can be extended to include a wide range of different assemblies. Each and every component has been redesigned and redeveloped to bring it into line with the state of the art.

This means you can configure machining solutions that are tailored exactly to your needs, meeting the highest possible quality standards without sacrificing productivity.

When we design and integrate each of our assemblies, we draw on over 100 years of experience in machine tool construction. There can be no doubt in anyone's mind about our familiarity with the market and its demands. The same can be said about our reliability and standard of customer service, since these too are values that underpin our R&D work with a view to delivering consistent added value to our customers.

HSK 100

Heckert H55

HSK 63

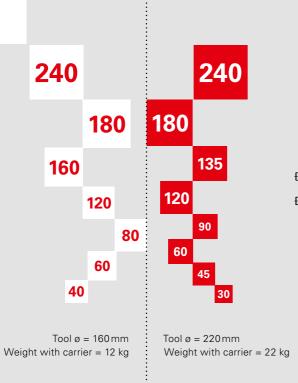
Heckert H40/H50

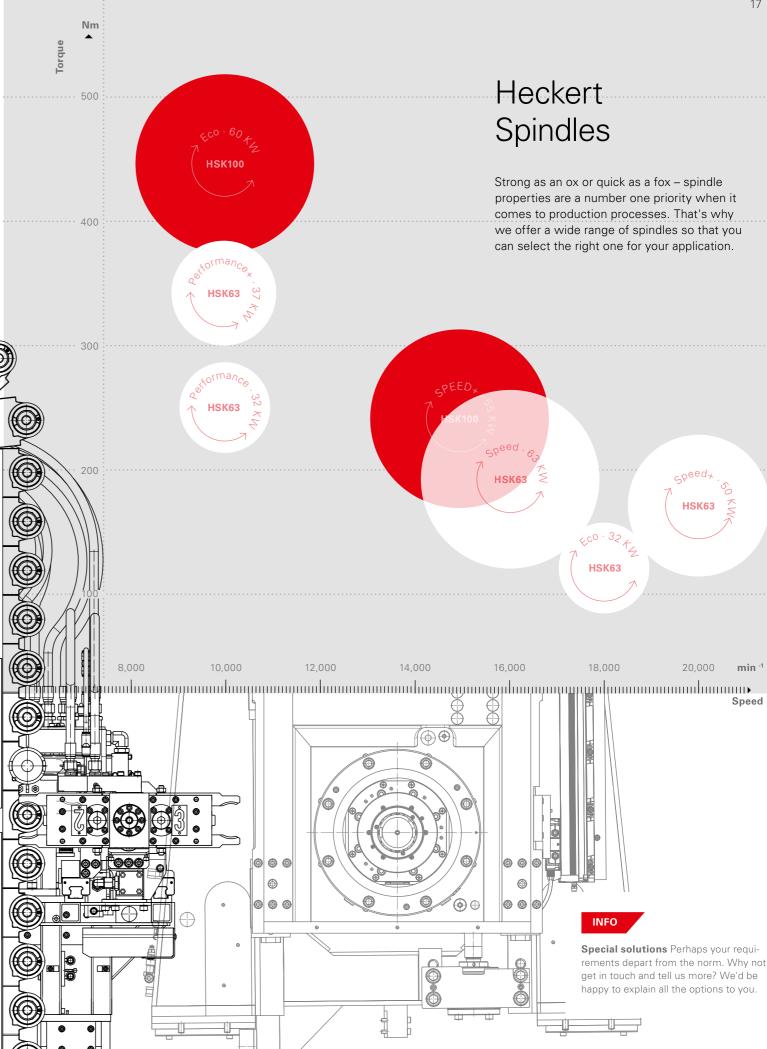


Heckert

tool magazines

Heckert machining centres can be supplied with a factory-fitted tool magazine with up to 320 tools, according to your individual requirements. We design and build all of the magazines ourselves, since this is the only way to safeguard our customary high standards of quality and reliability. Thanks to our patented concept, the linear chain magazine is guaranteed to deliver the same dynamics as an individual tool chain.







20 Human-machine interface

Always on our radar: user friendliness

Manufacturing solutions are growing increasingly complex, and it's becoming harder than ever to find operators who have the skills to handle them. With this in mind, our job is to simplify the operation of our machines and tailor it to your idea of what an operator should do.

The human-machine interface (HMI) is the point where a machine and its operator interact. Intuitive user guidance and clear communication are the keys to a secure manufacturing process. In the design of the HMI this was the basis - both in terms of ergonomics, interactivity and flexibility, as well as the user interface. We took the modern, intuitive operating concepts of smartphones and tablets as our starting point.

You can also choose to configure your machine with a premium-class Siemens or Fanuc control system. The systems from both of these manufacturers guarantee maximum productivity and process reliability. Of course, we equip our machines with cuttingedge fieldbus technologies for extensive diagnostic options, including the latest ASI generation in the Fanuc control systems and the future-proof Profi-Net technology with IO-Link capability in the Siemens control systems.

Like all Heckert control panels, the HMI is designed for ergonomics, operating efficiency and longevity in harsh industrial environments. This allows the HMI to be steplessly adjusted in terms of inclination and height and can be operated both in left-handed and right-handed mode. It can be folded against the machine to save space when it is not in use.









Human-machine interface (HMI)

HMI Touch Screen

The 24" high-resolution HMI touchscreen offers a wide range of configuration options. The operator can customise up to three windows with different functions or applications. These include a PDF viewer, web applications and camera applications. VNC implementations represent a simple way to integrate systems from your infrastructure, e.g. CAD/CAM applications.

Gloves are not a hurdle for our HMI. If the the operator needs to wear gloves while the work-piece or tool is being handled, and still have to make entries, then our scratch-resistant touch screen reliably takes the commands. For safe cleaning, the HMI touchscreen has a special cleaning mode.

22 Automation 23

Individual automation add-ons

They allow you to make optimum use of your machines and increase productivity. You can win back the valuable minutes previously lost on machine loading. This increases throughput and reduces production costs. You can also transport unmachined parts, finished parts and machine pallets reliably from A to B, making manual distribution of goods to individual machines a thing of the past.



Heckert pallet storage

From a technical and commercial point of view, the space-saving Heckert PS is the ideal solution for companies keen to dip their toes into the field of machine automation with workpiece changes for small and medium batch sizes.

INFO

Further details can be found in our flyer on automation solutions – or why not book a personal consultation?

Fully adaptable linear pallet storage system

Fully adaptable linear pallet storage systems are highly flexible and can be adapted to your exact requirements. A further advantage is the built-in master control station, which plans tasks and distributes them effectively to the integrated machines.





These automation solutions lead to drastic reductions in non-productive time, particularly when handling identical workpieces and large batches.

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