



HELLER
Machines

HELLER Machines. Made to work.

www.heller-machinetools.com

HELLER
Automotive

Inside Competence.
Our extensive know-how allows us to offer innovative and comprehensive production solutions for powertrain, drivetrain and chassis components. Highly productive. For minimal piece-part costs.

HELLER
Machines

Made to work.
Application know-how and technological competence to cater for all production requirements. With a new generation of machining centres offering a wide range of options in our proven quality.

HELLER
Services

Just closer to you.
Individual services and custom-made service packages ensure optimum productivity and highest availability of your machines. Anywhere in the world, on site and around the clock.

Some of the options shown are not included in the basic scope of supply. Design and scope of supply are subject to technical changes. © Gehr. Heller Maschinenfabrik GmbH © conceived, written and designed by: SK+P, München-Unterföhring, May 2009.



HELLER
Machines

HELLER Machining Centres

MCH-C series
For 5-axis heavy-duty cutting

MCH-C series: Our flexible range.



Heavy-duty cutting the smart way.

The MCH-C series provides intelligent solutions for heavy-duty cutting: robust swivel head + C axis + powerful spindle = robust heavy-duty cutting in five axes. Three different sizes are available and together with versatile automation components make the MCH-C a powerful all-rounder.

High performance with rigid head

The extremely rigid C swivel head axis, combined with a high-torque main spindle, forms the centrepiece of the MCH-C series. Being developed and designed by HELLER, it has much to offer: from heavy-duty cutting at 822 Nm, through to finish machining at a maximum of 8000 rpm, the MCH-C always provides highest precision and outstanding machining quality.

Flexible combination

The MCH-C series is based on a wide range of system modules which can be combined according to production requirements allowing you to choose exactly the type of workpiece and tool loading solution that will guarantee highest productivity. Mixed production is easily accommodated by the 5-axis machine, since each pallet location can be loaded with a different workpiece. The optional out-facing slide provides even greater flexibility.

Winner on points

For its November edition 2008, trade journal „fertigung“ put the MCH-C to the test. Reviewing commissioning, maintainability, automation, control, ease of set up, service support, total cost of ownership and contract design the machine scored almost full marks on all checkpoints. Come and see for yourself!

HELLER's MCH-C series – 5-axis machining designed to maximise your earnings!

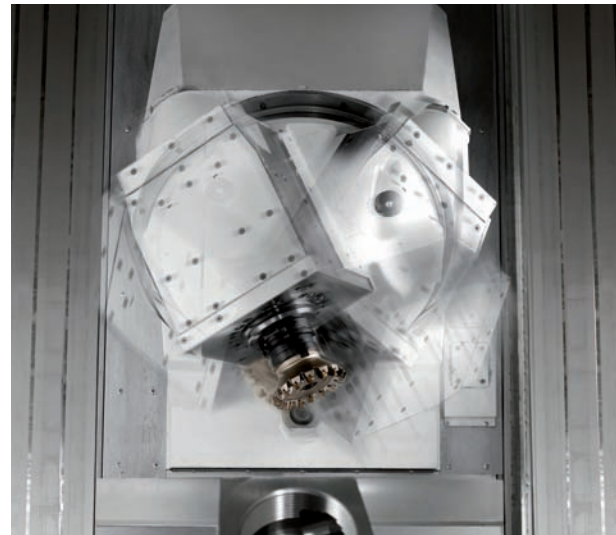


Machine concept MCH-C



Working range MCH-C series

- MCH 280 C: 1.000 mm x 1.000 mm x 1.100 mm
- MCH 350 C: 1.250 mm x 1.000 mm x 1.300 mm
- MCH 450 C: 1.600 mm x 1.200 mm x 1.700 mm



Machining unit with C axis

Highest precision with powerful heavy-duty cutting

- Compact machining unit with C axis
- Simultaneous 5-axis machining at any selectable angle
- C axis swivel range: 360,000 x 0.001°
- Spindle speed range: 45-6,000 rpm, option: 8,000 rpm
- Spindle torque (40 % ED): 822 Nm
- Spindle power (40 % ED): 43 kW
- Option: wireless measuring probe for continuous process monitoring, out-facing slide

The benefits to you:

- Optimum rigidity of head and spindle guarantee highest precision and cutting performance
- Vibration-resistant and powerful during roughing operations
- Integration of spindle mounted attachments



Workpiece and tool concept

Flexible mix for any requirement

- Wide range of system modules for workpiece and tool loading
- Chain-type magazine for 50 or 100 tools
- Option: up to 590 tools with rack-type magazine
- Up to 6 pallets with rotary pallet pool / linear pallet pool
- Spindle tapers: SK 50, HSK-A 100
- Automation: loading using all HELLER automation systems (pallet pool, pallet magazines, robot solutions) for optimum productivity

The benefits to you:

- Trouble-free part mix operation: each pallet location can be loaded with a different
- Future-proof: flexible adaptation of the MCH-C to changing production requirements



Control

High-end technology with functional features developed by HELLER

- Siemens 840 D
- Additional HELLER developments: graphic support, tool management for handling of tool data, pallet management for NC programme assignment to pallets with up to 16 setups, setup functions, cycles for clear traversing of workpiece
- Option: integrated tool monitoring, preventative maintenance, spindle power and feed force display

The benefits to you:

- Wide range of functionalities based on decades of experience in 5-axis machining
- Higher flexibility and functionality through special in-house developments such as efficient workpiece and tool management
- Early identification of errors in the machining process to prevent consequential costs

We are here for you. Worldwide.

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