

Powerful and productive

New 5-axis machining centre F 6000 from HELLER

Nürtingen, 5 July 2023 – At EMO 2023, HELLER will present the new generation of its F 6000 machining centre to international trade visitors for the first time. The 5-axis machine with head kinematics has been designed from the ground up for flexible series production. Like all HELLER machines, it sets a benchmark for cutting performance and precision. Other highlights include free chip fall, short idle times, optimum automation capability and compatibility with the H and FP series for a wide range of workpieces. The F 6000 also scores with first-class equipment and expandability with technologies such as mill-turn, interpolation turning or power skiving. The team led by HELLER's Head of Development, Dr Manuel Gerst, kept a close eye on these topics, as well as consistent standardisation and the use of key components 'Made by HELLER'.

Highlights of the new generation include the completely redesigned swivel heads and the new integrated motor spindles specially developed by HELLER. The spindle units deliver the highest levels of precision, dynamics and cutting performance for 5-axis machining.

For combined milling and turning operations, the machine is equipped with the optional Mill-Turn function, in which the high-torque DDT (Direct Drive Turning) rotary table plays a key role. In line with the trend towards complete machining, this eliminates the need for reclamping on separate turning machines. The results are improved workpiece accuracy and significantly reduced cycle times, especially for series products. The pallet changer is included as standard as the first level of automation. The new 'Automation ready' option enables easy integration of the HELLER rotary pallet storage (RSP) and HELLER's standardised linear magazine solutions at a later date.

To ensure that all of the above benefits are maximised in day-to-day production, HELLER's design engineers have focused on clear and easy operation, as well as good accessibility to all work areas. The new Siemens SINUMERIK ONE control fitted as standard and the convenient control unit in panel design with 24" touch screen make operation easy. At the same time, increased access to the work area and the optional new SETUP-Assist make it easier to set up processes on the machine.

Press information

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At the heart of HELLER's trade show appearance at EMO in Hanover will be 360° Performance – a holistic view of the requirements of modern production. To achieve this, HELLER focuses on five solution areas. In addition to the F 6000, HELLER will be presenting products for the digitisation of production, a comprehensive range of services as well as innovative manufacturing processes and technologies for complete machining on a single machine at EMO.

About HELLER

HELLER was founded in Nürtingen/Germany in 1894 as a small craft business. Today, the global group of companies, employing more than 2,600 people (status: 31 December 2022) develops and produces state-of-the-art CNC machine tools and manufacturing systems for metal-cutting applications. Five production facilities in Europe, Asia and North and South America ensure a reliable supply to customers from many different sectors. In addition, HELLER is represented in all major markets with its own sales and service subsidiaries as well as qualified service partners. The HELLER product range comprises 4-axis and 5-axis machining centres, mill/turn machining centres, special-purpose and process machines, machines for crankshaft and camshaft machining as well as coating modules. The portfolio is supplemented by a modular range of services and an expanded spectrum of solutions for the digitisation and automation of production.

Images:

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At EMO 2023, HELLER will present the new generation of its F 6000 machining centre to international trade visitors for the first time. Its main characteristics are a high level of productivity, flexibility and precision.

Press information

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Dr Manuel Gerst, HELLER's Head of Development

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