



PRESS RELEASE



PROCESS-RELIABLE COMPONENT MARKING WITH HIGH COST EFFICIENCY EVEN WITH „BRUTAL“ CYCLE TIMES

Only one tool with font segments required, even with a large variety of items

With the spring-back zeus tool systems with marking segments 431 and 432, the precision tool manufacturer Hommel+Keller from Aldingen makes the marking of components on multi-spindle automatic lathes extremely cost-efficient. Even with very high turning and cycle times, the tool solutions with interchangeable marking segments reliably produce perfect marking patterns - and are flexible and independent of diameter, even with a large variety of items.

Whether marking safety-relevant batches of assemblies in a traceable manner, numbering products, labeling them with the production date or adding data matrix codes or the company logo - consistent component labeling or marking is essential, to ensure clear identification, traceability and quality assurance of components. It also enables efficient logistics processes,

error-free assembly and compliance with legal regulations and standards in many industries. With its zeus marking technology, Hommel+Keller Präzisionswerkzeuge GmbH from Aldingen offers high-performance solutions for the efficient, fast and precise marking of components and workpieces in series production. Both standardized tool systems and those individually tailored to customer and component requirements can be integrated directly into the production processes. They ensure maximum process reliability and master even complex marking requirements in the shortest possible time.

For example, the marking of components on multi-spindle automatic lathes, which are used specifically for the series production of rotationally symmetrical workpieces at high cycle times. They are an important component in metal processing, particularly in the automotive, electrical and mechanical engineering industries.



Cost-effective text modification through exchangeable font segments

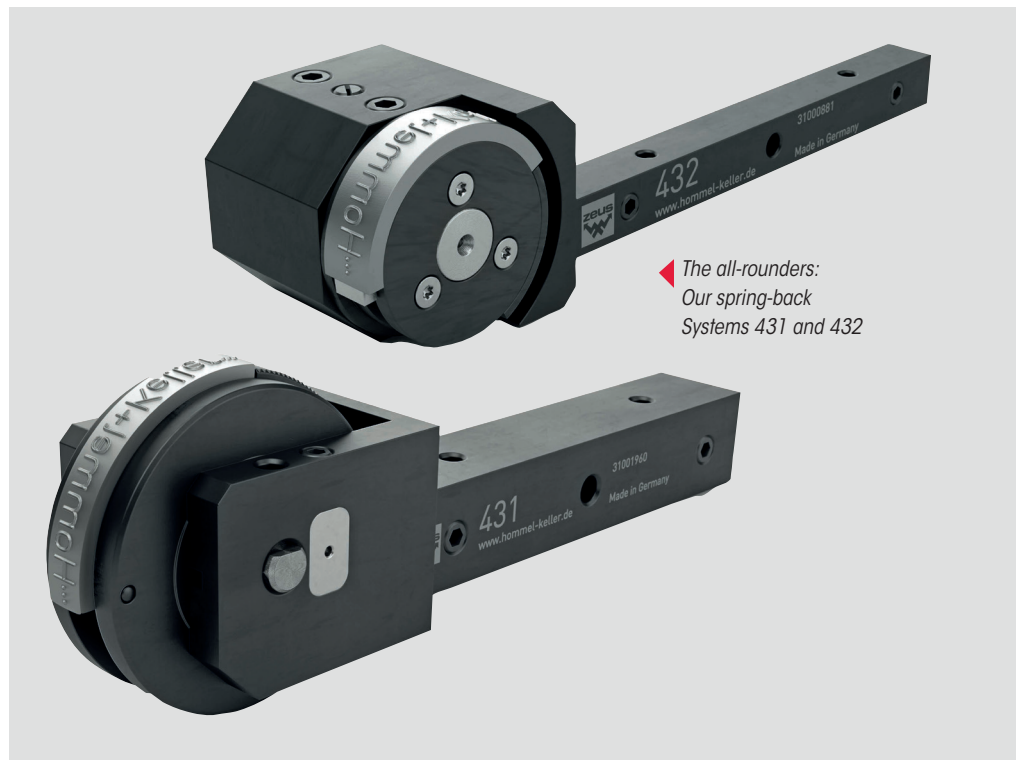
Sigmund Grimm, CEO of Hommel+Keller Präzisionswerkzeuge GmbH: „Multi-spindle automatic lathes are designed for large quantities at extreme speeds. For the marking process, it is therefore not intended to take out cycle time or there are machine types where the speed cannot be regulated at all. This means that precise marking quickly becomes time-consuming and tool-intensive, especially if a separate marking roll is required for each component if there is a large variety of items. Marking is carried out on the entire circumference of the component.

Tool systems with interchangeable writing segments are more flexible and significantly more cost-efficient.

However, they must be designed in such a way that the speed does not have to be lowered for the marking process or that the marking process must be carried out via the C-axis. Sigmund Grimm: „This is where the wheat is quickly separated from the chaff on the market. Our zeus spring-back systems 431 and 432 are designed to work reliably even at high speeds. As a result, they not only offer the user unlimited freedom for marking, but also extreme cost efficiency with high cycle times!”

With the spring-return zeus tool systems with writing segments, embossing is carried out by a single partial rotation of the scroll. Once the text is complete, the roll stops and is returned precisely to its starting position by a return spring. This technology enables to mark workpieces with different diameters without any problems and saves a lot of time in the marking process compared to a marking roll, which requires a full rotation for large quantities.

One example is the zeus segment tool 432: It can be used to mark workpieces up to on the collar. The user also has the choice between a fixed scroll and flexibly exchangeable letter segments - ideal for consecutive serial numbers, for example. By simply replacing the segments, texts can be adapted quickly and cost-effectively. The text



content and reading direction can be freely configured, meaning that one and the same tool can be used for a variety of marking tasks. Not only text characters (letters, numbers and special characters) and logos are possible, but also data matrix codes.

A practical example: An established manufacturer of fasteners previously used a scroll when marking a steel cutting ring, Ø 10 mm, on a conventional multi-spindle machine at speeds of 3600 rpm. Due to the variety of articles, a separate marking roll was required for each component. The marking was carried out on the entire circumference of the component. By using the zeus spring-back tool system with writing segments, the manufacturer is fully exploiting the optimization potential:

It now realizes diameter-independent and flexible marking with individual writing segments at the same speed as when processing with scrolls. In addition, the marking is only done once on the component and not all the way around.

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The ability to use our zeus spring-back tool systems with marking segments on multi-spindle machines, even at 'brutal' speeds, opens up a very wide range of applications for these extremely cost-efficient tool solutions.

-Sigmund Grimm-

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Image film / YouTube

Hommel+Keller Präzisionswerkzeuge GmbH

Nagelsee 6

78554 Aldingen

Phone +49 7424 9705-0

verkauf@hommel-keller.de

www.hommel-keller.de

