



PRESS RELEASE



ROTARY BROACHING AND GEAR CUTTING HIGH-QUALITY AND EFFICIENT COMPONENT PRODUCTION

Precise engineering often significantly optimises production processes

Companies in the machining industry are facing major challenges in times of difficult framework conditions and are looking for solutions to make production even more efficient. This is often only possible in close cooperation with innovative technology suppliers, such as modern tool manufacturers. They support machining companies so that they can manufacture their products profitably in the highest quality while conserving resources. One example is Hommel+Keller Präzisionswerkzeuge GmbH from Aldingen: With its

standard tools and customized solutions, for example for rotary broaching and gear cutting, component manufacturers can achieve an optimised process."

Knurling, marking, burnishing, gear cutting and rotary broaching - whether standard tools or customized solutions precisely customized to requirements - in the industry, Hommel+Keller stands for high-quality precision tools for use on machining centres as well as turning and gear cutting machines.

Sigmund Grimm, CEO of Hommel+Keller Präzisionswerkzeuge GmbH: „Innovative solutions for demanding machining processes? We have the tools for it“.

ROTARY BROACHING TECHNOLOGY:

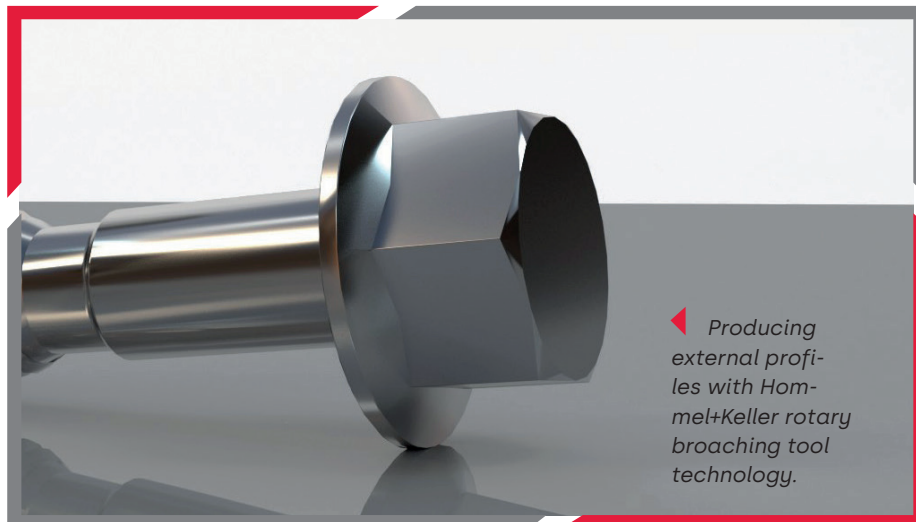
PRECISE PROFILE AND PERFECT CHIP REMOVAL - IN SECONDS

Rotary broaching is often used in fine machining or for the production of precise moulds and profiles, especially with difficult materials or complex contours.

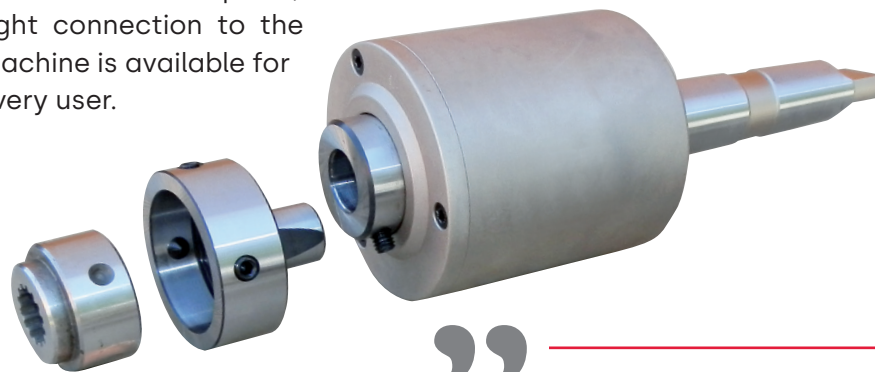


As a lot of material can be removed very efficiently during rotary broaching, it is ideal for applications where fast and precise cuts are required. Hommel+Keller rotary broaching tools with or without internal cooling are true „precision sprinters“. Thanks to the rotary broaching holder and the insert for the respective profile, the user can reliably produce internal profiles such as square, hexagonal, torx and torx plus, triangle, pentagon or octagonal in components made of materials up to 35 HRC in a single operation in a matter of seconds. The components of the rotary broaching tools are hardened and ground for high precision in bearing seats and wobble spindles. The special Hommel+Keller INOX Plus coating for plungers also guarantees a long service life and extreme wear resistance.

Hommel+Keller rotary broaching tools are true „quotation marks“. Efficiency and quality are also the focus when creating external profiles: with the rotary broaching holder, an adapter and a rotary broaching insert (a wide variety of profiles are available on request), the respective profile is created quickly and reliably in a single work step due to the concentric movement.



Thanks to the concentric design of the Hommel+Keller rotary broaching tools, they can be used on CNC lathes and milling machines as well as on conventional machines - an invaluable advantage in terms of quality, process reliability and costs. This is because there is no need to retool the workpieces on special machines such as rotary broaching or shaping machines or to outsource cost-intensive production processes such as wire erosion. With numerous variants of shank connections and adapters, the right connection to the machine is available for every user.



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The 2.0 degree bevelling of our products reduces the cutting force by 20 - 30 %, depending on the application.

This means that our rotary broaching tools score points not only for versatility and precision, but also for efficiency.

CUSTOMIZED HOBS WITH GRIT AND STAYING POWER

Pulleys, serrations, gears, etc. - gear cutting tools are required in countless manufacturing processes for a wide variety of components. The QUICK gear cutting tools from Hommel+Keller have exactly the right grit for the high industrial demands and reliably ensure high precision and cost efficiency in production.

Whether standard size, individual customer requirements or different areas of application - QUICK hobs and tandem hobs, shaper cutters and skiving tools with bore and shank as well as form and disc cutters retain their grit for a long time thanks to special Hommel+Keller high-performance coatings such as nACo®, nACo3®, nACRo® - for machining with cooling lubrication, under dry machining and also for hard milling.



Hommel+Keller's process optimisation engineering is in particularly high demand. Based on a joint process analysis with the user, it aims to achieve significant improvements in production by optimising the gearing processes.

Sigmund Grimm: „The results speak for themselves and often surprise "old hands" in production: our hobs and form cutters can achieve machining results with time savings of up to 60 % compared to conventional tools or other processes. In another example, our hob cutter reduced the production costs per good part from 4.83 € to just 0.32 €! With 250,000 units per year, that's an incredible saving!"

„When manufacturing of gears, the geometries must be manufactured precisely so that the components mesh perfectly. No mistakes are allowed! That's why we only use state-of-the-art technology and optimise through customer-supported engineering. Geometry and coating are thus optimally matched to each other and to the application and process. And it's not just the product that counts. We also offer a comprehensive after-sales service such as decoating, resharpener or cutting edge preparation 'all from a single source'. This creates additional added value without major logistical effort for the customer and protects the environment“.



▲ Range examples



Imagefilm / YouTube

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