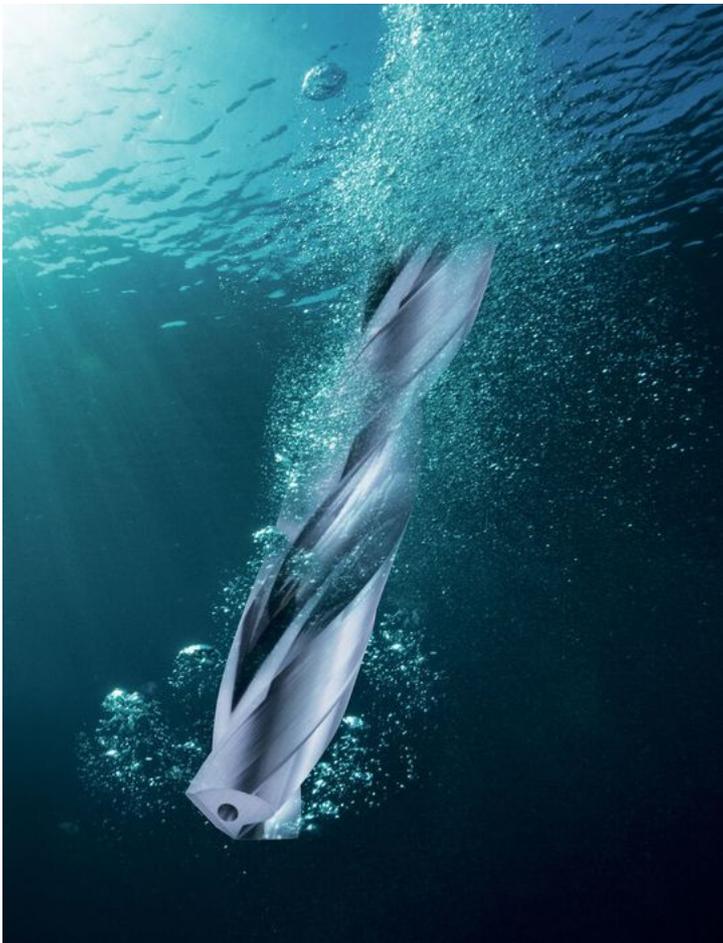


VHM Cutting Solutions

Comprehensive product portfolio for state-of-the-art cutting applications

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Germany — In its new “VHM Tools 2021” catalog, the tool manufacturer Inovatools from Kinding-Haunstetten presents a comprehensive portfolio of innovative cutting solutions for a broad range of applications in a variety of industries.

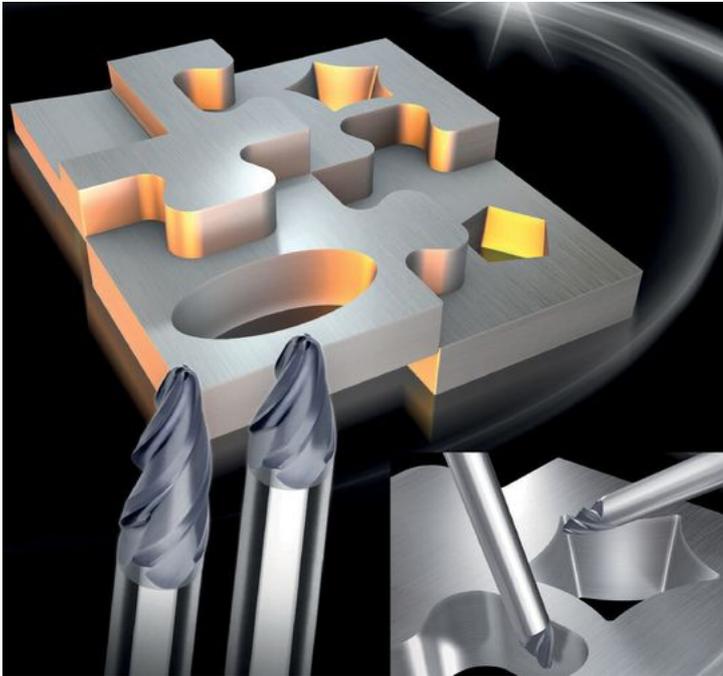


Thanks to a whole host of design benefits, the new VHM-Deep Max deep-hole drills guarantee effective guidance, fast and reliable removal of chips, a long service life for the tool, and ultimately first-class hole quality even at great drilling depths.

(Source: Inovatools)

In its new catalog, Inovatools presents a range of **market-oriented tool solutions for a diverse range of applications** such as tool and mould construction (Mould & Die), the automotive industry, aviation and aerospace industry (Inospace) and medical sector (Inomed). Whether mills, drills, reamers and counterbores, the modular cutting system Inoscrew or saw blades of all different kinds — from mini, diamond-coated and XL through to special versions, users can always find exactly the tools they need for their specific cutting operations. Inovatools has significantly expanded its product range in a number of different areas, with numerous new tools designed to ensure maximum quality and cost-effective performance for manufacturers — even in the case of high-tech materials that are difficult to cut.

One example is the **curve segment mill Curve Max**, which is deployed primarily in tool and mould construction. Dennis Marz, head of product management and R&D at Inovatools: “The Curve Segment Cutting strategy — or CSC for short — is a prime example of how the company combines state-of-the-art, high-performance CAM software with powerful processing centers and innovative tool development to create pioneering new cutting techniques.”



Compared with conventional full-radius mills, the Curve Max mills from Inovatools have special geometries allowing bigger path distances and line jumps during pre-finishing and finishing. This means that although the working radius is larger, the tool still has the same diameter (Source: Inovatools)

Thanks to their special geometry, the new **Curve Max mills permit bigger path distances and line jumps during pre-finishing and finishing**. Although the working radius is larger than that of a traditional full-radius mill, the tool still has the same diameter. The new process increases surface quality and significantly shortens processing times.

The table of contents preceding each tool group in the catalog helps you to find your way around quickly and easily. Photos of each individual tool and numerous pictograms make it much easier for users to find the tools they need. Dennis Marz: “All the product areas in the catalog are clearly structured. Handy tabs at the sides of the pages make it quick and easy to find the right product class. Usage

recommendations make it easier for users to quickly identify which tool is suitable for which material and application.”

“The CSC mills not only shorten processing times for finishing complex freeform surfaces but, in doing so, also deliver better surface quality than traditional standard, full-radius mills.”

Dennis Marz

The geometry of the special **Deep Max deep-hole drills** from the broad Inovatools VHM drill range, for example, is **specially designed to ensure optimal chip removal** for this application. To achieve this, Inovatools employs a special polishing technique that creates

extremely smooth chip grooves. Four lands ensure outstanding hole quality even with oblique outlets and cross-drilled holes. The extremely smooth Varocon high-performance coating, which was specially developed for the application, supports fast chip flow and ensures a **long tool service life**. Dennis Marz: “We are also using a newly developed process for edge preparation so that **the cutting edges can be precisely optimised in line with the machining challenges of the deep-drilling process**. This keeps cutting forces low, ensures smooth running and maximizes service life. With all these features, Deep Max deep-hole drills deliver outstanding performance in terms of service life and cutting values.”



With First Choice Inovatools, the tool specialists from Kinding are making it easy to quickly identify the tailor-made tool for each customer's specific cutting requirement.

(Source: Inovatools)

“First Choice” products

To make it even easier for users to find a tool that is optimised for their applications, Inovatools has already narrowed down your choice and flagged these special recommendations in the catalog as “First Choice” products. Among other things, this is a quick and easy way

find the advanced geometries and technologies that are most suitable for them. **“First Choice” tools help users to instantly identify tools that will help them to reduce**

production times and deliver top surface quality while benefiting from a longer service life. This helps to cut tool and machinery costs — for example, with the top products for machining stainless steel. Dennis Marz: “Depending on the microstructure and alloy content, mills and drills struggle with phenomena like built-up edges, abrasiveness, work hardening, edge zone hardening and high temperatures in the intervention zone. Inovatools products are specially **adapted in line with the requirements associated with carbide metal, cutting geometry, chip clearance and coatings**.

Thanks to their specific cutting and cooling strategy, they achieve optimal results in, for example, roughing and finishing processes. The top products from Inovatools bring the desired added value in terms of endurance and speed to HPC roughing and finishing processes. One example are the **Fight Max Inox mills featuring the Duocon high-performance coating.**”

For **machining non-ferrous metals** such as aluminum, Inovatools offers a range of options including the **new ta-C tool range**. The ta-C high-performance thin-layered coating on



these tools ensures that acute rake angles and, in turn, cutting edges are retained. The **smooth carbon surface and high coating hardness** ensure that chips do not adhere to the tool cutting edges. This minimizes cold welding, which is why the ta-C coating is especially well suited to aluminum

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For steel and Inox machining, Inovatools is sending the Fight Max series into the ring.

(Source: Inovatools)

GALLERY



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0,40	4	288 200...	00	10	242,98	244,93



In addition to the numerous new additions and special “First Choice” recommendations, the catalog features a range of practical information for cutters about Inovatools’ Inoshop (online shop), InoQR (QR code reader), Inocut (cutting data computer) and Inocam (CAM/XML interface) as well as a range of web, Android and iOS apps, providing users with instant and comprehensive information and allowing them to access the required tool and its data directly and with just a few clicks. With the QR codes, for example, you can — in just two clicks and without registering — call up an overview of current stock levels.

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