



Innovative Tool Solutions for Micro-Machining

Requirements towards microtools are increasing. The tools must become smaller, more precise, while costs must be reduced by longer life cycles. Furthermore, the problem arises, that these materials are getting harder to machine.

WOLF, the customer orientated technology partner, offers single-hand high-tech machining solutions to address these manufacturing specific issues. Our deep understanding of machining process technology and our networking with development and application technology, allows us to meet the high requirements toward component quality and growing cost pressure using adapted machining concepts.

Our long term and intensive cooperation with numerous customers and leading universities has made WOLF a well recognized technology partner in manufacturing.

The combination of high grinding and machining knowledge leads to technologically sensible and economical machining solutions.

Besides the production of drawing based VHM special tools, WOLF also offers specialized and individualized solutions. The tool specific and high-quality regrinding services also belong to WOLF's comprehensive services.

Your Advantages

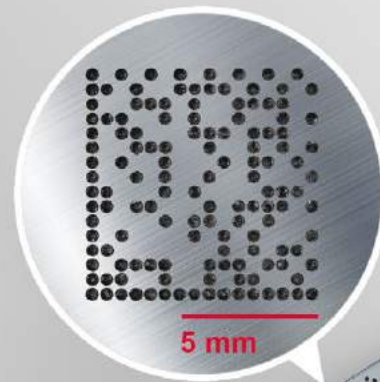
- + High performance and high precision tool solutions
- + High reproducibility of tool quality
- + Technology partner for your machining needs
- + Customer close application technology
- + Economic machining processes
- + Highly precise elements
- + Worldwide regrinding services

Drilling a Data Matrix Code

The drilling area of a data matrix code is very small. Just measuring 8,75 x 8,75mm, 135 holes with a diameter of $\varnothing 0,5\text{mm}$ must be placed. Such small tools have the problem, that their coating cannot be reworked in any way.

Here WOLF offers a solution:

Especially smooth coatings guarantee an almost frictionless chip transport, not requiring further treatment. The coatings come from our very own coating systems and are tailored to customer specifications.



Drilling Data Matrix Code in 100Cr6

+ Diameter: 5,0 mm

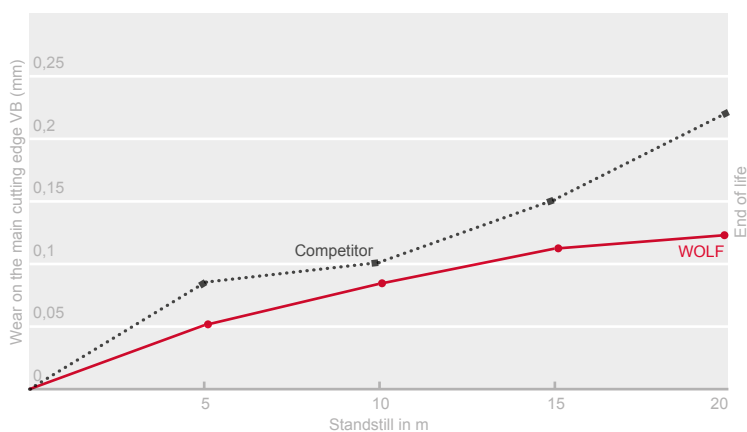
+ Cutting speed V_c : ca. 80 m/min

+ Feed f_u : 0,011 mm/U

+ Drilling depth: 0,8 mm

+ Cooling: Emulsion

+ Clamping situation: Stabil



Competitor at the end of the service life



WOLF at the end of the service life

VHM Microtools by WOLF

Grand in really small. Machining with microtools poses high demands to the machining apparatus. Few concentricity errors and high rotational speeds are prerequisites for work with filigree tools.

WOLF can support you with its knowhow and application specific tools. Starting at a diameter of 0,5mm (even less upon special agreement) we provide microtools for your special applications and coat them in our own inhouse coating center.

+ Application specific tool designs

+ Nanolayer coatings

+ Highest cutting edge quality

+ Application specific hard metal materials



Dental crown mill

This mill was especially developed for milling of tooth crowns made of titanium and zirconium oxide.

Its specific geometry guarantees long life cycles and a safe process.





**Customer specific tools
and services**

Thanks to our air-conditioned production area with modern CNC tool grinding machines and our own in-house coating we are able to deliver to our customers quickly, individually and at highest quality.

Customer specific tool development and application consulting belong to our services.



Management System
ISO 9001:2015

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