

Machining Solutions for Medical Technology



www.dieterle-tools.com

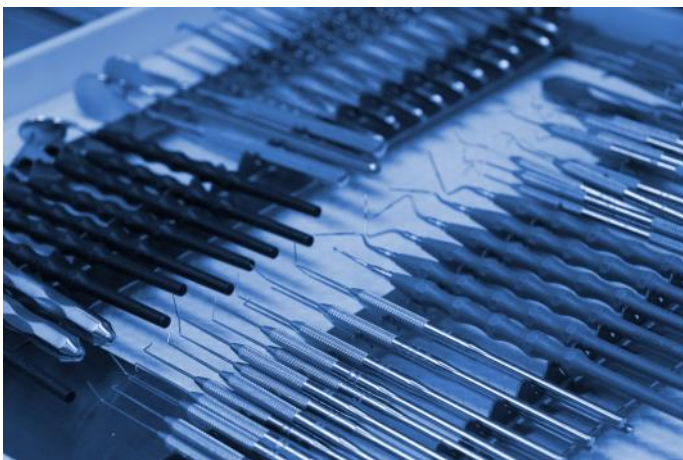




Machining Solutions for Medical Technology

The requirements related to the production of medical components are progressing continuously. Thus, the demands regarding precision and profitability in the medical industry are increasing constantly.

Since decades we, at Dieterle, have been designing and producing precision tools for machining medical components. In close cooperation with our customers we have developed permanently new solutions for the special demands of medical technology.





We offer comprehensive machining solutions for the special requirements of medical technology:

- Thread whirling tools
- Thread chasing tools
- Turning tools for Swiss type machines
- Plastic machining tools
- Form drills
- Broaches / punches
- Micro mills
- Form grooving tools
- Knurling tools



Thread Whirling Tools for External Machining

For the precise production of external threads by means of the whirling technology we recommend our **system ROTOWIBEX**.

We offer a wide range of external thread whirling tools for all common machine types and thread whirling units.

Leading producers of bone screws rely on the precision of ROTOWIBEX.



Thread Whirling Tools for Internal Machining

For the precise production of internal threads by means of the whirling technology we recommend our **system MINIWIBEX**.

Internal threads in the Ø-range M0.7 and smaller can be realized with MINIWIBEX. Our internal thread whirling tools are manufactured with single and multi-tooth profiles according to your specifications.

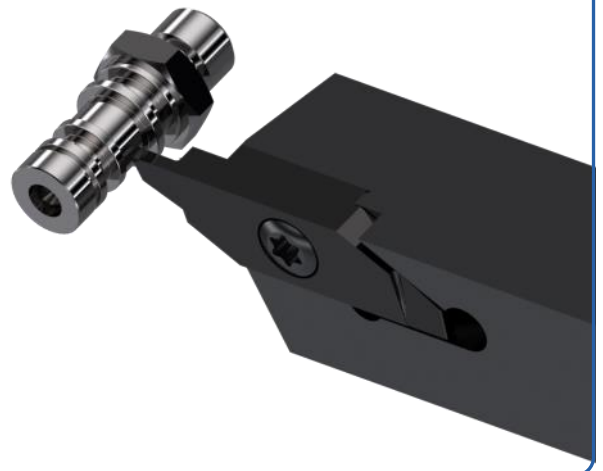
With MWE-VT tools of the MINIWIBEX system, internal thread whirling without predrilling is possible. MWE-VT tools can create a drill hole and a thread in only one operation and thus save a tool place in the machine.



Turning Tools for Swiss Type Machines

For the stable production of small workpieces on Swiss type machines, we recommend our **system SSXA**.

For decades, our customers have relied on the stability and precision of our versatile tools for Swiss type machines. SSXA is the first choice for small diameters with a cutting width starting from 0.8 mm in the standard program from stock. We can quickly realize special tools based on the SSXA system with even narrower cutting widths and geometries according to your individual specifications.



Thread Chasing Tools for External Machining

For the flexible production of external threads, we recommend our **thread chasing tools**.

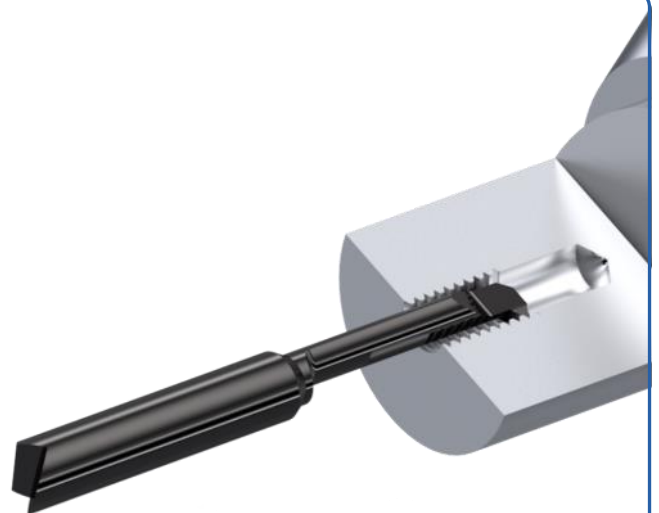
We offer a wide range of partial and full profile inserts for each of our tool holder systems. Our range does not only include external thread chasing tools for ISO standard threads, on demand we can also realize trapezoidal, round, buttress, 55°-inch, as well as further special treads.



Thread Chasing Tools for Internal Machining

For the flexible production of internal threads we recommend our **system MINIFIX**.

The brilliantly simple "V"-shaped clamping system guarantees a highly precise placement on center height as well as outstanding tool change accuracy. You can chase internal threads from Ø 1.1 mm with MFE-T standard tools.



Plastic Machining Tools

For the very special demands of machining plastics we recommend our **plastic machining tools**.

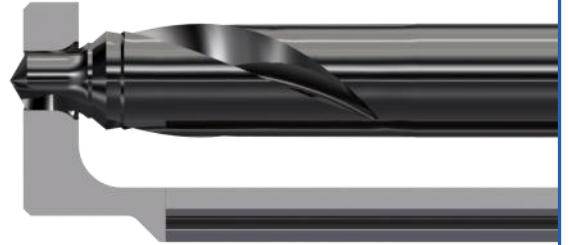
We are the only supplier on the market to offer you a special tool system for machining plastics as standard tools from stock. This unique system offers many advantages for machining plastics compared to conventional tools. Special insert profiles for plastic machining can also be flexibly manufactured according to your specifications.



Form Drills

For special drilling demands we recommend our **form drills**.

With the help of our precision tool grinding machines, we can produce tools in solid carbide as well as HSS with μ -precision. We offer, to name a few, step drills, flat and cannon drills as well as reamers, according to your individual specifications. Both large and small series can be realized in a profitable way.



Broaches / Punches

For the economical and productive broaching of your workpiece geometries, we recommend our **broaches / punches**.

In addition to Torx or hexagonal standard tools, we can manufacture any symmetrical punch shape according to your specifications.

We also offer a wide range of **broaching tool holders with corresponding push broaches** in various standard versions.



Micro Mills

For all micro milling demands we recommend our **micro mills**.

Our extensive range of high-performance solid carbide milling tools is ideally suited for all applications in the micro range. In addition to standard tools, we can also quickly supply special tools in this area according to your individual specifications.



Form Grooving Tools

For the cost-saving production of filigree turned parts we recommend our **system ANF**.

This popular form grooving system is universally applicable and, in addition to standard inserts, also available with customer-specific profiled inserts. Compact shank dimensions from 8x8 and a grooving width from 0.65 mm in the standard program ex stock characterize this system. Special tools based on the ANF system are possible even smaller according to your requirements.



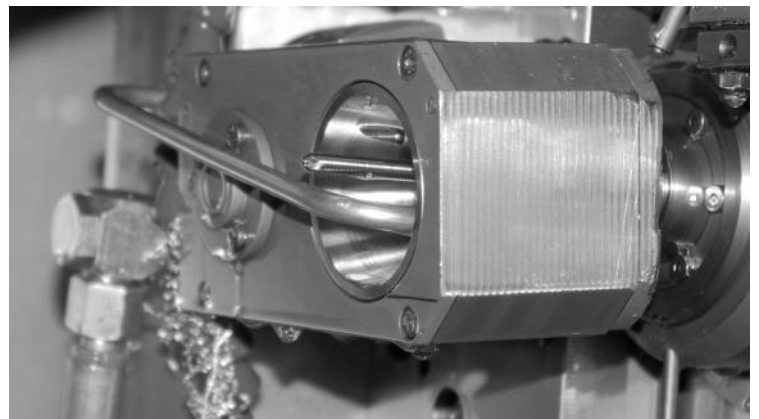
Knurling Tools

For the diverse applications of the knurling technology we recommend our **zeus® knurling tools**.

We offer cut knurling tools as well as form knurling tools, that can be used in manual machines as well as sliding head machines and CNC machines.



Benefit from our decades of experience in the development and manufacture of precision tools for medical technology.



Learn more on www.dieterle-tools.de/en/medical

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