

PRECISION TOOLS PRODUCT OVERVIEW





A wide range of tools and inserts, the majority of which have been developed and manufactured in-house, are the guarantee of cost-effective manufacturing of your demanding small parts.

OUR STRENGTH – YOUR PROFIT

UTILIS is bundling the expertise it has gained from over 25 years of experience in the field of micro-cutting. On this basis, our company is developing and delivering tool solutions worldwide for processing modern materials in the fields of watch and medical technology, in the automotive and electrical industries and also in aviation.

We are continuously striving to expand and improve the existing range of our "multidec®" own brand to increase your productivity. In this respect, we are driven by the following concepts:

- **Innovative power** in tool design and in our company's production.
- Customer service and **close collaboration with our customers** to develop the right or best solutions.
- **Highly cohesive** relationships with our technical and commercial partners.
- A **large autonomy** in our activities, from construction to production right up to marketing and selling our own products.



We wish you every success with our products and services.



Ludger IGNASZAK, CEO

Our wide-ranging expertise in micro-cutting is presented in this overview.

You will find detailed information about our products in our **General catalogue 2022/23** or in our online shop at **www.utilis.com**



General catalogue 2022/23

Item order number

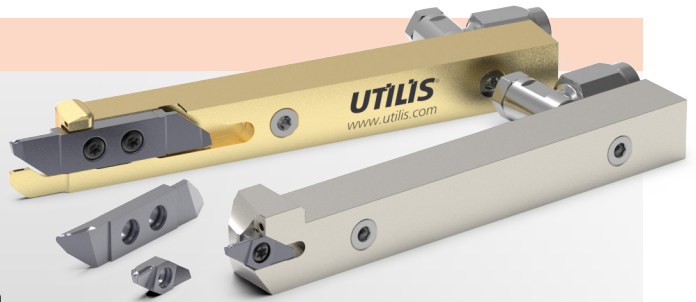
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INDEXABLE INSERT TOOLS

multidec®-CUT

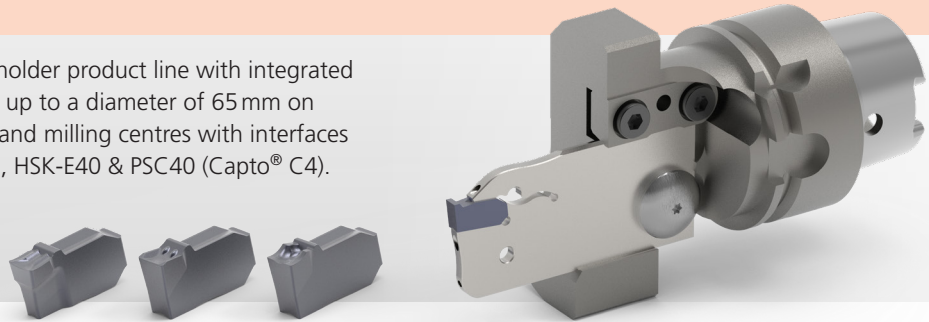
The turn and cut-off system in multidec®-CUT sizes 500, 1600, 1700, 3000 and 3600 for Swiss type machining with a bar diameter of up to 32 mm.

Standard inserts in different type of carbide and coordinated coatings and high quality holders of shank cross sections from 6 to 25 mm.



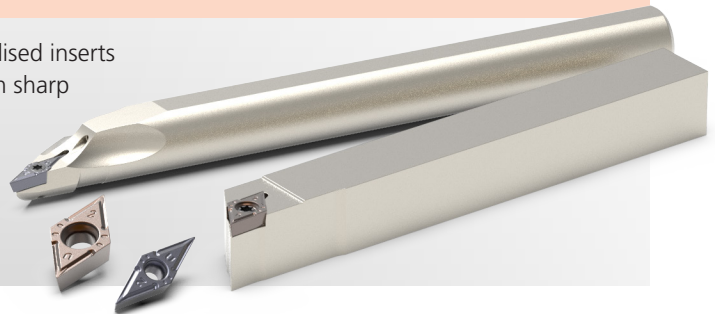
multidec®-4000

Parting insert and holder product line with integrated cooling for parting up to a diameter of 65 mm on multi-task turning and milling centres with interfaces HSK-A40, HSK-T40, HSK-E40 & PSC40 (Capto® C4).



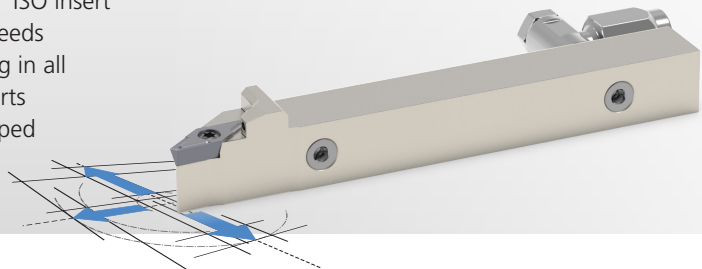
multidec®-ISO

Wide product line in the ISO area with standardised inserts with different carbide grades and coatings, with sharp cutting edges, precisely ground radii from 0 to 0.8 mm. The product line is rounded off with cermet types, inserts tipped with diamond and holders and boring bars which are specially designed for Swiss type machining.



multidec®-TOP

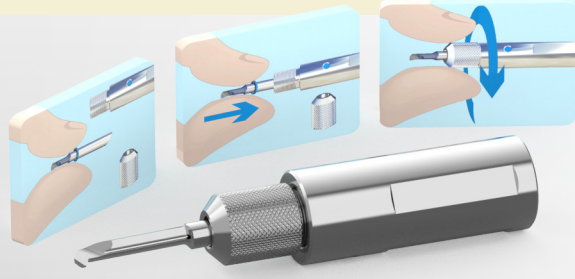
Further development of the rhombic 35° ISO insert with TOP edge for up to 100% higher feeds and surrounding chip breaker for turning in all directions characterise this range of inserts and holders, which was specially developed for automatic lathes.



SOLID CARBIDE TOOLS

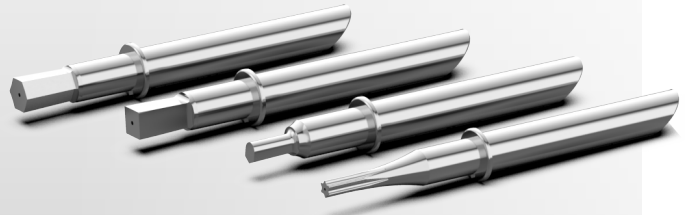
multidec®-BORE MICRO

Tool product line in the three sizes SD-4, SD-6 and SD-8. Standardised micro-tools for high-precision machining of holes from a diameter of 0.5 mm and system tool holders with an internal coolant supply for manual tool changes with repeat accuracy of ± 0.005 mm.



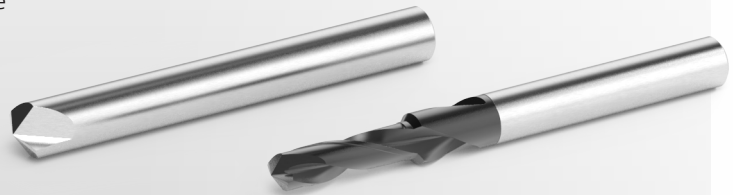
multidec®-BROACH

Standardised and customer-specific multi-edge profiles for rapid manufacture of square, hexagonal and TORX profiles in the miniature range. Usable in the same tool holder system in which the BORE MICRO tools are also clamped.



multidec®-DRILL

Standardised centre drills and drills for the production of core holes for threading, multi-edge profiles and thread milling.



multidec®-THREADMILL

Standardised multi-tooth thread milling tool with full and partial profile for cost-effective manufacturing of metric threads from M1 to M5 and UN threads with 80 to 32 threads per inch.



multidec®-MICRO-TOOLS

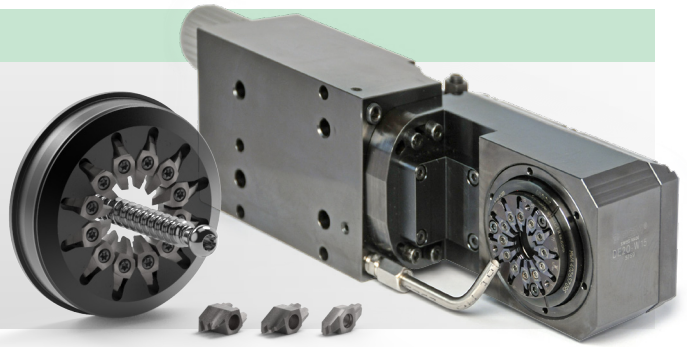
Carbide high performance tools for the drilling and milling of micro-parts. u-drill: Spot drills and twist drills from 0.1 to 3 mm diameter, 2 to 8xD. u-mill: Shank and twist drills from 0.2 to 3 mm diameter, 2 to 5xD. u-mill: End mills for manufacturing TORX contours from 0.2 to 1 mm diameter, 3.5 to 5xD.



WHIRLING TOOLS

multidec®-WHIRLING

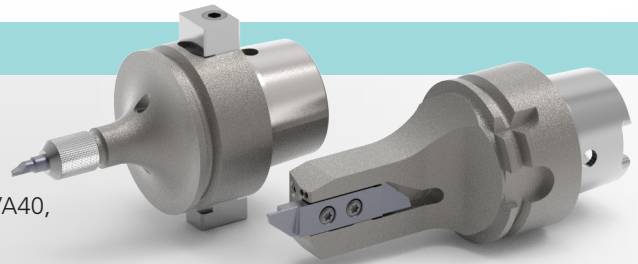
Multi-cutter tool system for manufacturing burr-free threads in a single operation with up to 12 inserts for maximum productivity.



TOOL SYSTEMS FOR LATHES AND TURNING-MILLING CENTRES

multidec®-MULTITASK

The tool product line for turning operations on multi-tasking machines. Compact monoblock tools with an integrated coolant supply for turning-milling centres with interfaces HSK-A32/A40, HSK-T32/T40, HSK-E40 and PSC40 (Capto® C4).



CHIRON Group

starrag
Starrag Group

bumotec

WILLEMIN-MACODEL

PRECISION TSUGAMI

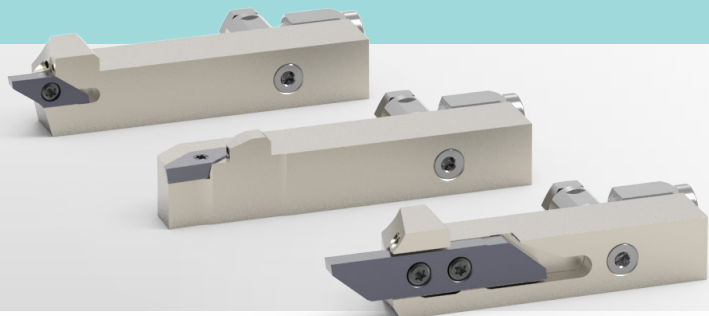
multidec®-BACKTOOLS

Modular system with tools for reverse-side machining on Swiss type machines with a counter-spindle. Stable tool product line with basic tool holders for all of the most popular machines and wide range of holders for inserts and cutting edges.



multidec®-SHORT

Holder product line with short internally-cooled holders which are also compatible with the QS quick change system from Sandvik Coromant.



multidec®-TAPER-IN

Tool holder product line, specially for standing or rotating use on Swiss type machines. Compact monoblock tools suitable for end milling cutters or side milling cutters in collet chucks with size 8, 11, 16, 20 and 25 ER cones.



MACHINE-RELATED TOOL SYSTEMS FOR LATHES

multidec®-ESCOMATIC

Product line for the use of inserts on ESCOMATIC machines.

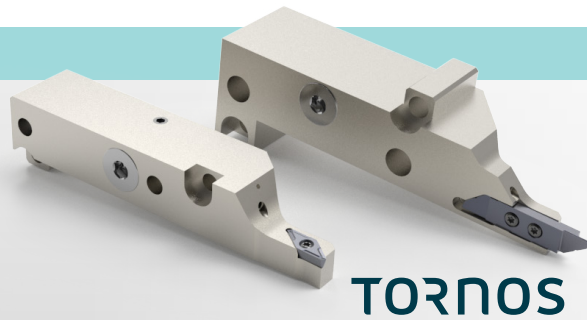
Basic tool holders and insert holders for multidec®-CUT, -ISO and -TOP are available for the rotating tool heads of machine types EC08, EC12, D2, D4, D5 and D6, and for the Newmach range.



multidec®-TORNOS-DECO

Tool product line for Tornos DECO and EvoDECO machines.

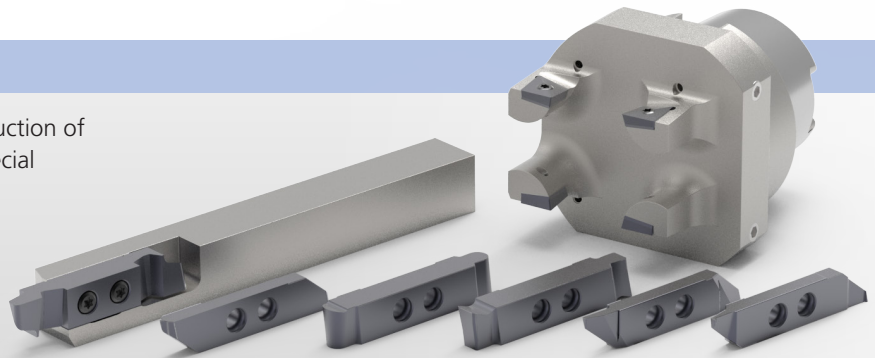
Machine-specific monoblock basic tool holders with internal cooling for holding multidec®-CUT, -ISO and -TOP inserts and direct attachment to the tool plate.



SPECIAL TOOLS

multidec®4you







Development and production of tools and inserts for special customer requirements.



SERVICES

multidec®-CARE

Customer support by UTILIS from idea to manufacture on the machine.

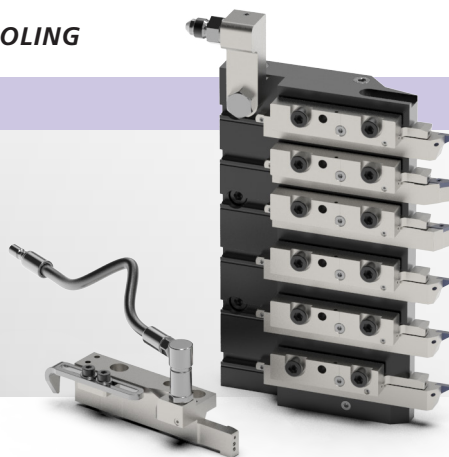
-  Time studies/Time calculations
-  Special tools (multidec4you®)
-  Feasibility studies
-  Online service
-  On-site service
-  "Turnkey" complex projects



TOOL PLATES AND CLAMPING SHIMS WITH INTEGRATED COOLING

multidec®-LUB

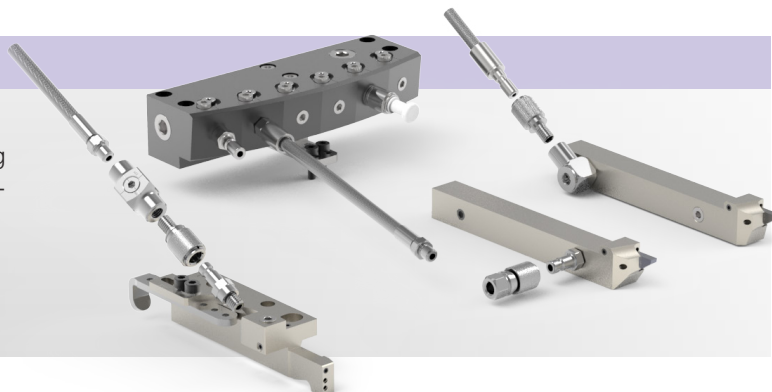
The product line with tool plates and clamping shims which transport the coolant directly to the cutting edge. Simple replacement of the original tool plates or the original clamping shims increases the process reliability of the machine through targeted and adjustable cooling. The quick change system makes quick and exact tool changes possible using adjustable stops.



ACCESSORIES

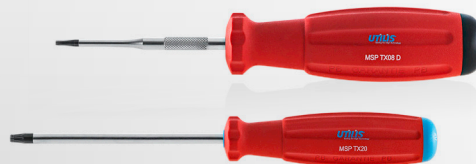
Coolant system

Extensive product line with versatile connecting facilities for transporting the coolant with high-pressure solutions up to 200 bar.



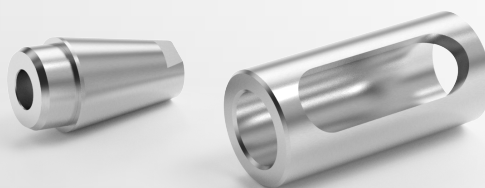
Screwdrivers

The product line for the most demanding applications. Top-quality screwdrivers and pre-set TORX and TORX-Plus torque screwdrivers, size 6 to 20 and torque screwdrivers for M4 to M6 Allen head screws.

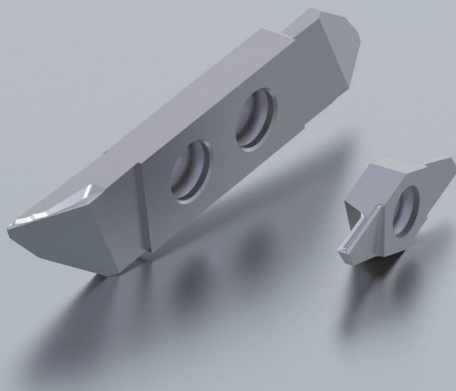


Collets / reduction sleeves

Product line with ER16, ER20, ER25 and ER32 collets for screw-in milling cutters and a wide range of reduction sleeves with high concentricity for bridging diameters.



The performance boost in machining



multidec[®]-CUT G-LINE

UTILIS[®]
Tooling for High Technology

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