

INNOVATION



multidec®-CUT







multidec swiss type tools The WATCH-LINE range of turning inserts is designed for the efficient machining of very small parts in the watchmaking industry.

This range of inserts is characterized by:

- Very high grinding quality for very sharp cutting edges
- High positioning accuracy of the insert in all three axes
- Very wear-resistant grades and extra-fine PVD coatings



Legend

Dimensions

All dimensions are in millimeter (mm).

Recommended usage

- Preferred application
- O Possible application
- Application not recommended

Availability

- Standard articles
- Standard articles, new in this catalogue

Categorization of materials

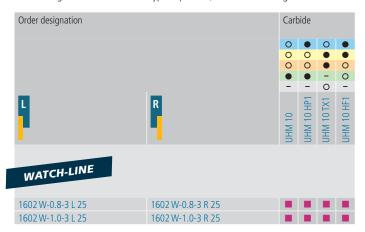
The information on using multidec® tools refers to certain materials.

The materials to be machined are categorized in the same color throughout the entire catalog:



Order designation

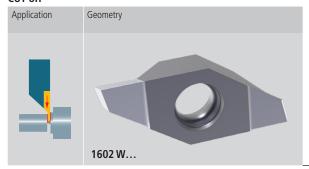
To the designation of the selected type of product, the desired cutting material code must be added.



Example: 1602 W-0.8-3 L 25 UHM 10

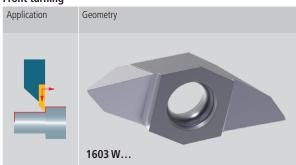


CUT off



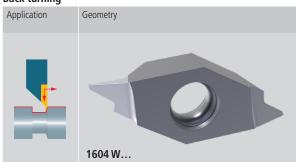
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Front turning



5

Back turning



6

Grades and fields of application

Grade		Coating	Description
UHM10	0 0 0	uncoated	Wear-resistant fine grain grade without coating with extremely sharp cutting edge. Suitable for easy-to-machine materials such as brass or leaded free-cutting steels.
UHM10 HP1	0	AlTiN extra-fine <1µm	Wear-resistant micro-grain grade with thin all-round coating for an optimally sharp cutting edge. Suitable for machining almost all materials, especially free-cutting steel.
UHM10 TX1	0 • • - 0	TiSiN extra-fine <1µm	Wear-resistant micro-grain grade with thin TiSiN coating for very sharp cutting edges. Particularly suitable for machining titanium, stainless steels and high-alloy materials.
UHM10 HF1	0	AlCrN extra-fine <1µm	Wear-resistant micro-grain grade with thin AlCrN coating for very sharp cutting edges. Particularly suitable for fine finishing operations in steel and stainless steel.



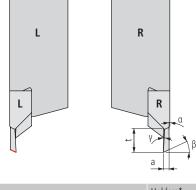


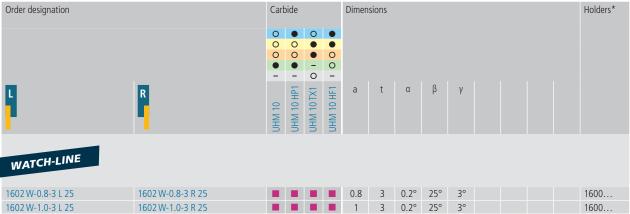
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1602 W...







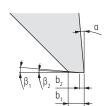


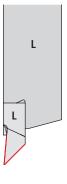


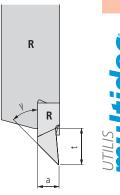


Front turning



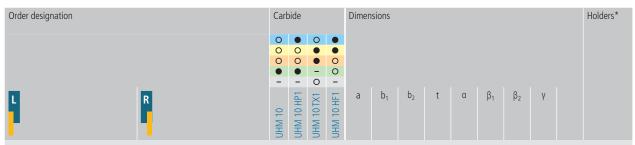








1603 W...



WATCH-LINE

1603 W-3.0-5 L 010-3/0/45	1603 W-3.0-5 R 010-3/0/45			3	0.1	-	5	3°	0°	_	45°	1600
1603 W-3.0-5 L 010-1/0/45	1603 W-3.0-5 R 010-1/0/45			3	0.1	-	5	1°	0°	-	45°	1600
1603 W-3.0-5 L 010/003-5/5/45	1603 W-3.0-5 R 010/003-5/5/45			3	0.1	0.03	5	5°	5°	0°	45°	1600



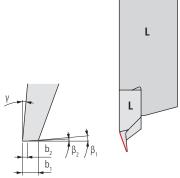


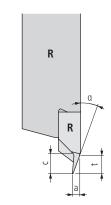


Back turning



1604 W...





$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Order designation	Carbide Dimensions H	Holders*
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	R		

WATCH-LINE

1604 W-1.0-1.0 L 003-45/0/5	1604 W-1.0-1.0 R 003-45/0/5			1	0.03	_	2.8	1	45°	0°	-	5°	1600
1604 W-1.0-0.9 L 010-45/0/5	1604 W-1.0-0.9 R 010-45/0/5			1	0.1	-	2.8	0.9	45°	0°	-	5°	1600
1604 W-1.0-2.5 L 010/003-20/5/5	1604 W-1.0-2.5 R 010/003-20/5/5			1	0.1	0.03	2.8	2.5	20°	5°	0°	5°	1600



multidec® General catalog 2022/23

With the slogan "The reference in micro machining", UTILIS presents the multidec® general catalogue 2022/23. The general catalogue contains a wide product range with efficient tools for your needs.



multidec®-CUT - G-LINE inserts

The performance boost in machining. New technology for creation of any three-dimensional chipbreaker shapes.



Article 400870

multidec®-MICRO TOOLS - Solid carbide micro tools

multidec®-MICRO TOOLS are performance solid carbide micro tools for drilling, milling and milling TORX® forms. Economical, process-safe and precise, even for materials which are difficult to machine.





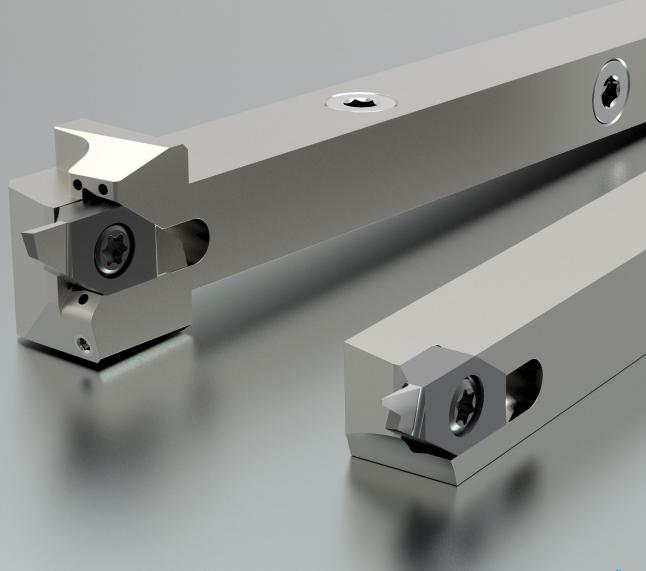
Article 4008

multidec®-CARE - From the idea to the machine

You have an order or an idea, and you want to know how to implement it?
Together, we can realise a cost-effective solution for you.



Article 400885





■ Utilis AG, Precision Tools

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