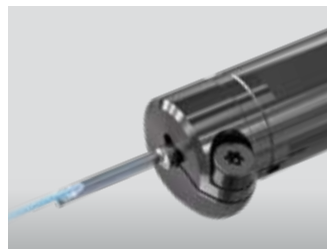
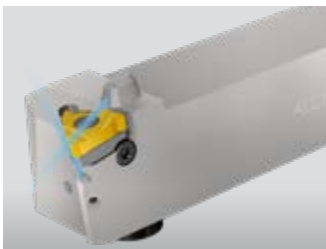


Introducing

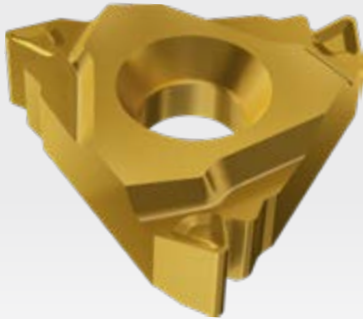
**MACH**  
Supersonic  
Threading

**UNMATCHED  
PRODUCTIVITY**



## FS LINE

Fully Sintered Inserts



- Economical solution for all industries
- The program offers 62 of the most popular profiles for external and internal inserts
- IC range: 1/4" (11), 3/8" (16), 1/2" (22)

## ALCN

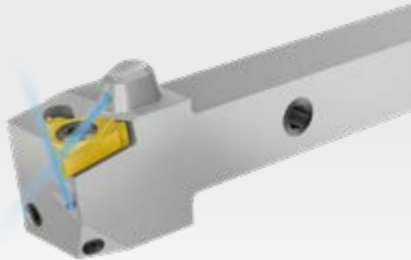
External TT Toolholders with Two High Pressure Coolant Outlets



- Two precise high pressure coolant outlets, designed to cool the top and bottom of the insert for longer tool life and chip evacuation
- Up to 70 bar
- Three different coolant inlets available
- Bottom inlet, specially designed for VDI DIN 69880 / ISO 10889

## ALCS

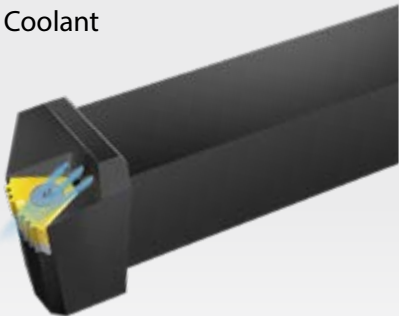
External TT Toolholders FOR SWISS TYPE MACHINES with High Pressure Coolant (HPC)



- Two dedicated inlets for Swiss type machines, accessible from both sides of the holder
- Back and bottom coolant inlets also available for conventional machines

## ALC

External TT Holders for Oil&Gas with High Pressure Coolant

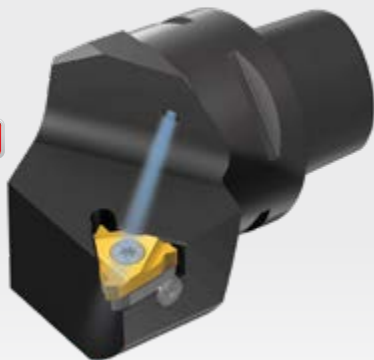


- Precise coolant thru, designed to efficiently cool down the cutting edge
- Suitable for high pressure coolant up to 70 bar
- Better chip evacuation and improved chip control and flow

## V-CAP

Internal & External Toolholders for IC1/2" (22)

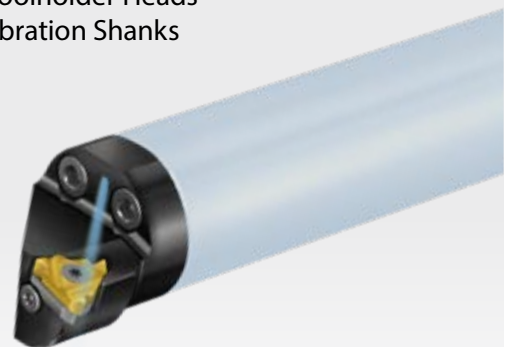
**EXPANDED LINE**



- Suitable for IC1/2" (22) insert size
- Polygon shaped shank, complies with standard ISO 26623
- High Pressure Coolant up to 70 bar for better chip evacuation and increased tool life

## SMOOTH CUT SYSTEM

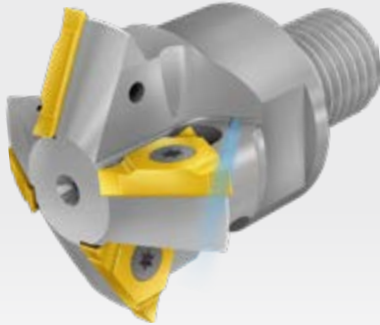
Modular Toolholder Heads for Anti-Vibration Shanks



- Modular head for anti-vibration system
- Same head can be used with wide range of shanks of different lengths
- Maximum overhang 5xDa (Da - shank diameter)

## TMSD Modular

Modular Toolholder Heads for the TMSD Line



- One modular toolholder head fits an assortment of shank lengths
- Compatible with the most common steel and carbide shanks in the market

## MiTM Offset

Fast Machining for Large Pitches in Deep Holes



- Reduced machining time: Two cutting rows, with each row machining half the thread simultaneously
- Cylindrical steel holders and shell mills are available
- Up to 2.5xDo (thread diameter)

## TM Solid MultiFlute

Increased Number of Flutes for Faster Machining



- Reduced machining times: Up to 40%!
- Large number of flutes (max 7)
- Available in 2xDo and 3xDo (thread diameter)
- Thread Standards:  
ISO Metric (mm shank): M3x0.5 to M16x2.0

## TM Solid TMDR

Drilling, Thread Milling & Chamfering -  
Expansion: ISO, BSP (G), NPT, BSPT

**EXPANDED LINE**



- TMDR tools drill, thread and chamfer all in one tooling operation
- Pre-drilled holes are no longer required!
- Drilling and thread milling is done simultaneously, while chamfering is produced at the end of the operation

## TM Solid HCR

Helical Flutes with Radial Coolant Thru  
Expansion: ISO, UN, BSP (G), NPT, BSPT, UNJ

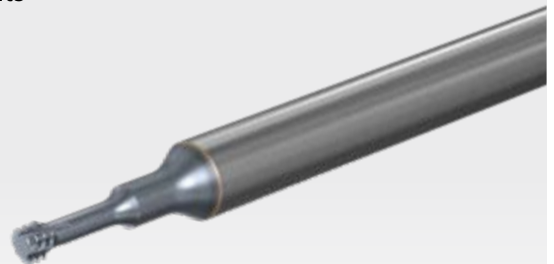
**EXPANDED LINE**



- Effective coolant in thru holes
- Delivers coolant directly to the cutting area
- Good solution when external cooling is not available or ineffective

## TM Solid Millipro Dental

Reinforced Miniature Thread Mills for Dental Implants



- Reinforced overhang for better stability
- Specifically designed for the dental implant industry
- Increased tool life
- Now with 3 flutes and 3 teeth

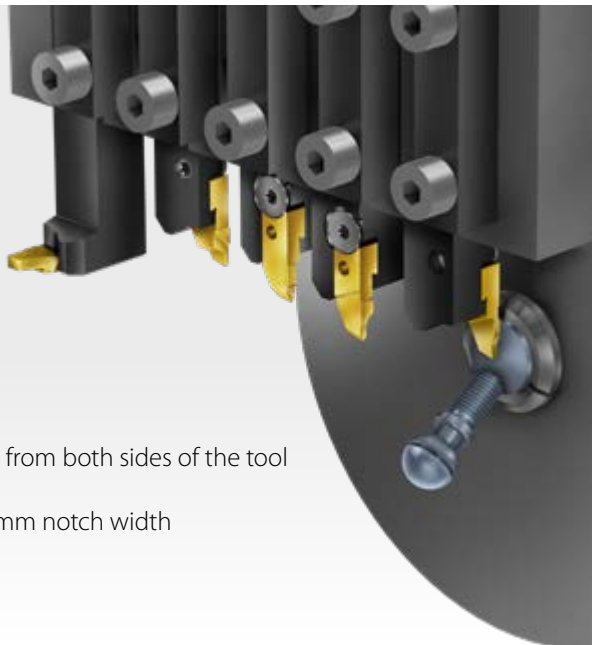
GROOVEX

## MINIATURE MACHINING

### ST-Cut

Precise Tools for Small Parts Machining

- Unique insert replacement system
- Quick and easy change of insert inside the machine from both sides of the tool
- High repeatability of the cutting edge on all axes
- 17mm maximum parting off diameter, with up to 3mm notch width
- Excellent rigidity
- Insert edge treatment for increased tool life



GROOVEX

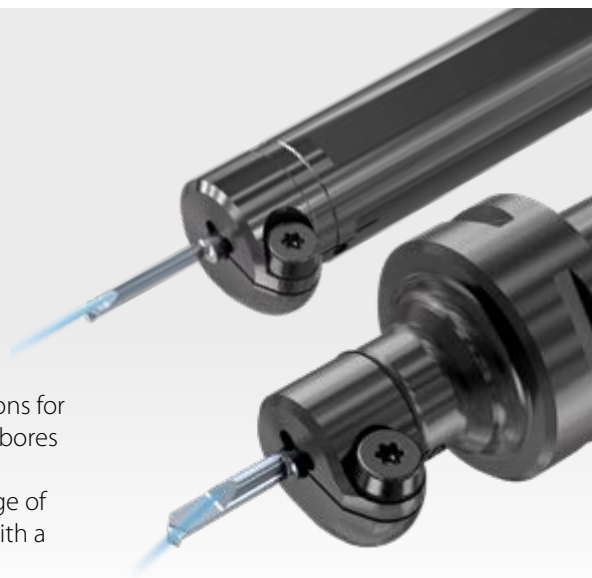
## MINIATURE MACHINING

### microScope

Micro Tools for Small Bores

The **Microscope** line offers new and improved solutions for micro boring, grooving, chamfering and threading in bores as small as 0.7 mm.

The **Microscope** line offers a large and extended range of single-ended inserts and a full range of toolholders with a simple clamping system.

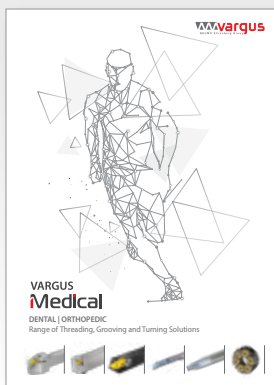


VARDEX

GROOVEX

Introducing  
VARGUS Solutions  
for the Medical  
Industry

VARGUS  
Medical



The VARDEX and GROOVEX lines provide standard and customized tools for common medical applications such as: Parting Off, Turning, Grooving, Thread Milling, Thread Turning, Whirling, Boring and Broaching.

VARDEX

## V-WHIRLING

High precision whirling system for medical and micromachining applications

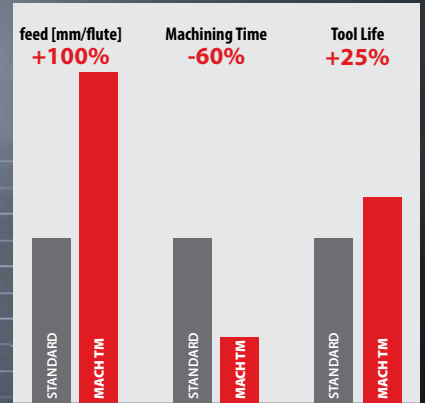




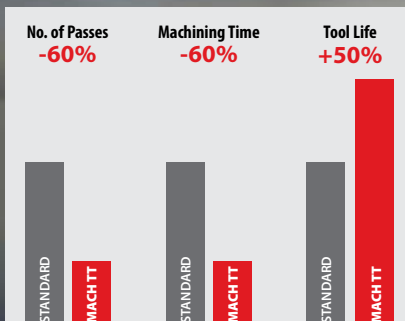


### ADVANTAGES

- ✓ High feed mm/flute
- ✓ Dramatically decreases machining time
- ✓ Extended tool life
- ✓ Excellent surface finish



## UNMATCHED PRODUCTIVITY



### ADVANTAGES

- ✓ Significantly reduces the number of passes
- ✓ Dramatically decreases machining time
- ✓ Extended tool life
- ✓ Excellent surface finish

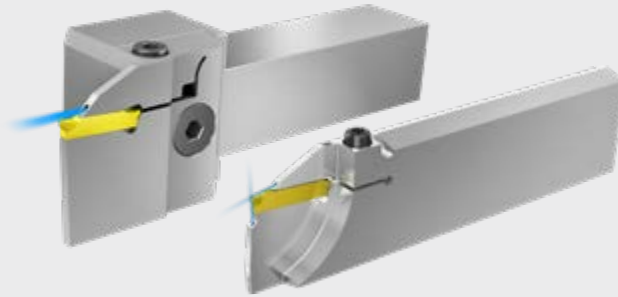


**PATENT PENDING**

# GROOVEX

## VG-Cut

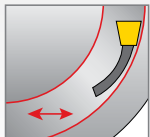
Complete Range  
of Turning Solutions



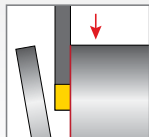
**VG-Cut** tools provide a wide range of applications and options within the same insert pocket. **VG-Cut** inserts also offer a variety of chip formers and carbide grades, and are designed with a unique multifunctional and diverse geometry, to minimize inventory for the end-user.



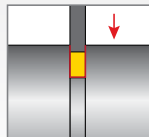
The updated and  
expanded **GROOVEX**  
Main Catalog is now  
available.



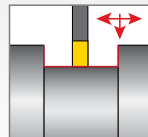
Face Grooving  
& Turning



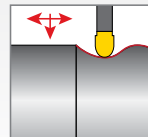
Parting Off



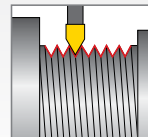
Deep Grooving



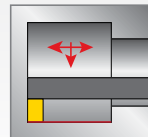
Turning



Profiling  
& Undercut



Threading  
between Shoulders



Internal Grooving  
& Turning

# VARDEX

## GEAR MILLING

Advanced Technologies for Gear, Spline and  
Rack Manufacturing

### Standard (Generic) Tools

Suitable for all standard and tailor-made inserts



End Mill



Shell Mill



Disc Mill

### Tailor-Made Tools

- Toolholders (End Mill, Shell Mill, Disc Mill)  
with indexable inserts
- Solid Carbide

# VARDEX

## V-TAPS

Advanced  
Tapping Solutions

- Four different geometries  
in an assortment of  
grades
- Suitable for blind hole  
and through hole  
operations
- Tools are designed to  
work on a wide range of  
materials



# VARGUS

## GENius™

## Tool Selector and CNC Program Generator

The most popular and advanced thread turning and  
thread milling software on the market today.

Available in 4 versions at [www.vargus.com](http://www.vargus.com)

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