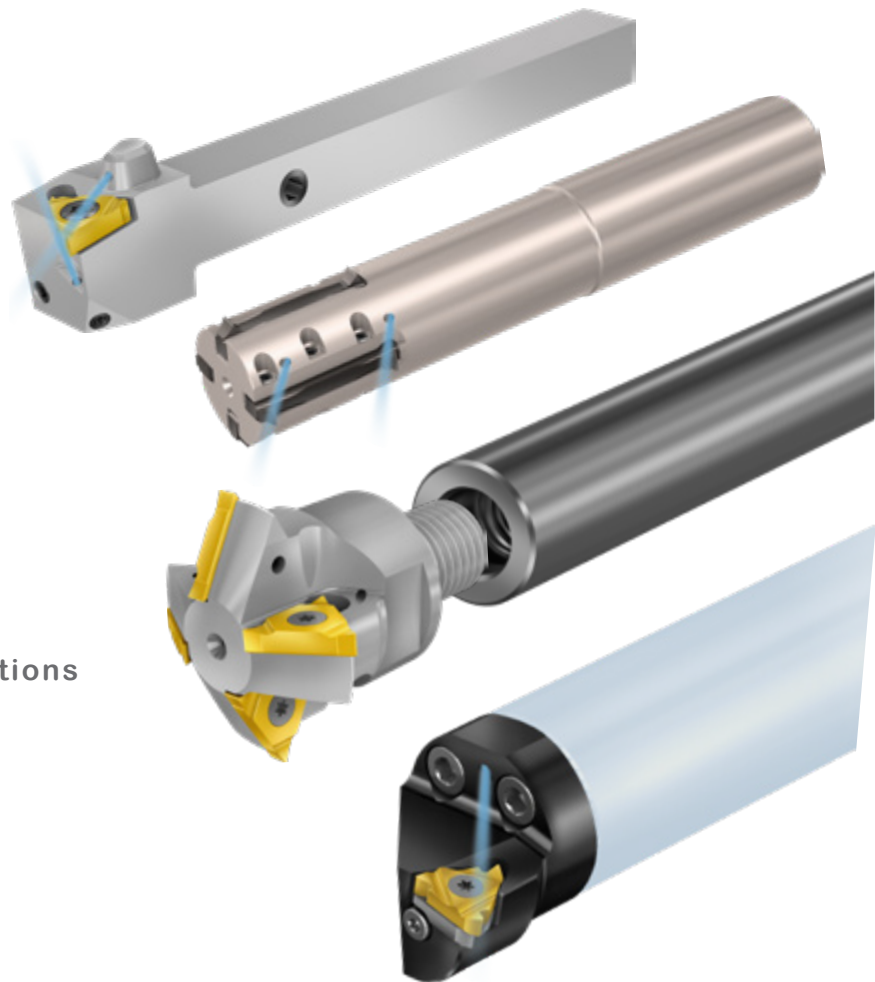
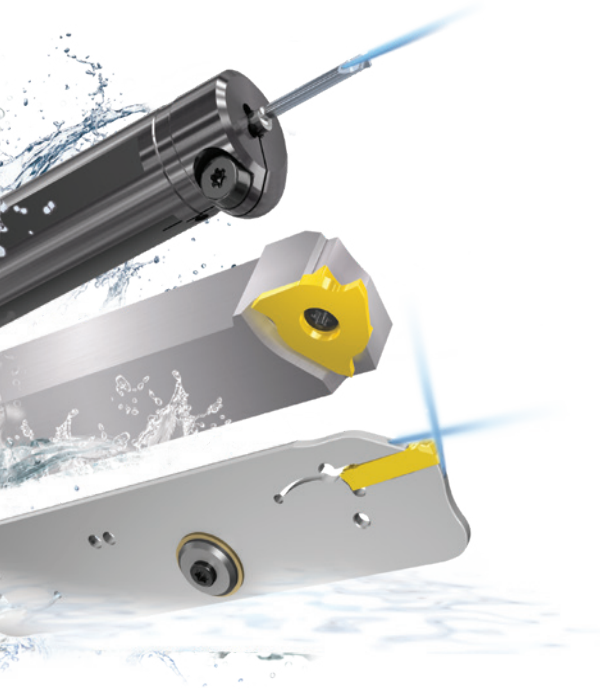


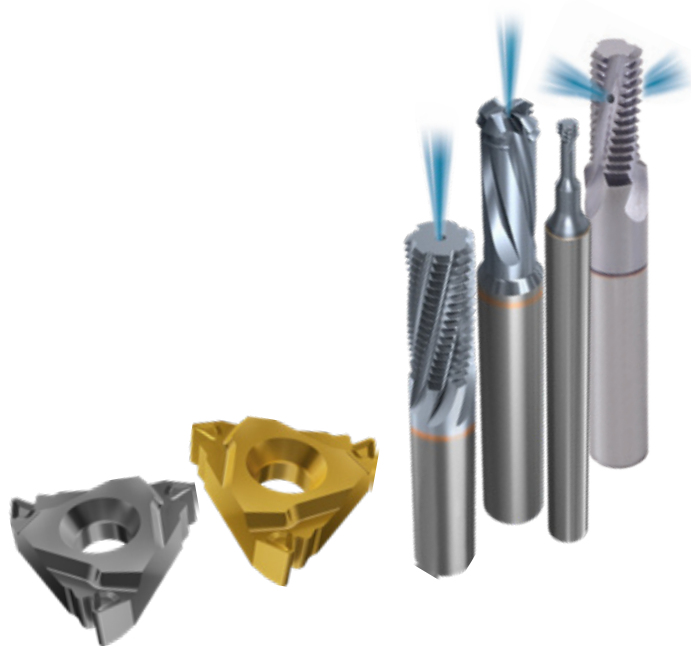


# GROOVEX

Innovative Grooving & Turning Solutions



**van maele**  
GEREEDSCHAPPEN - OUTILLAGE

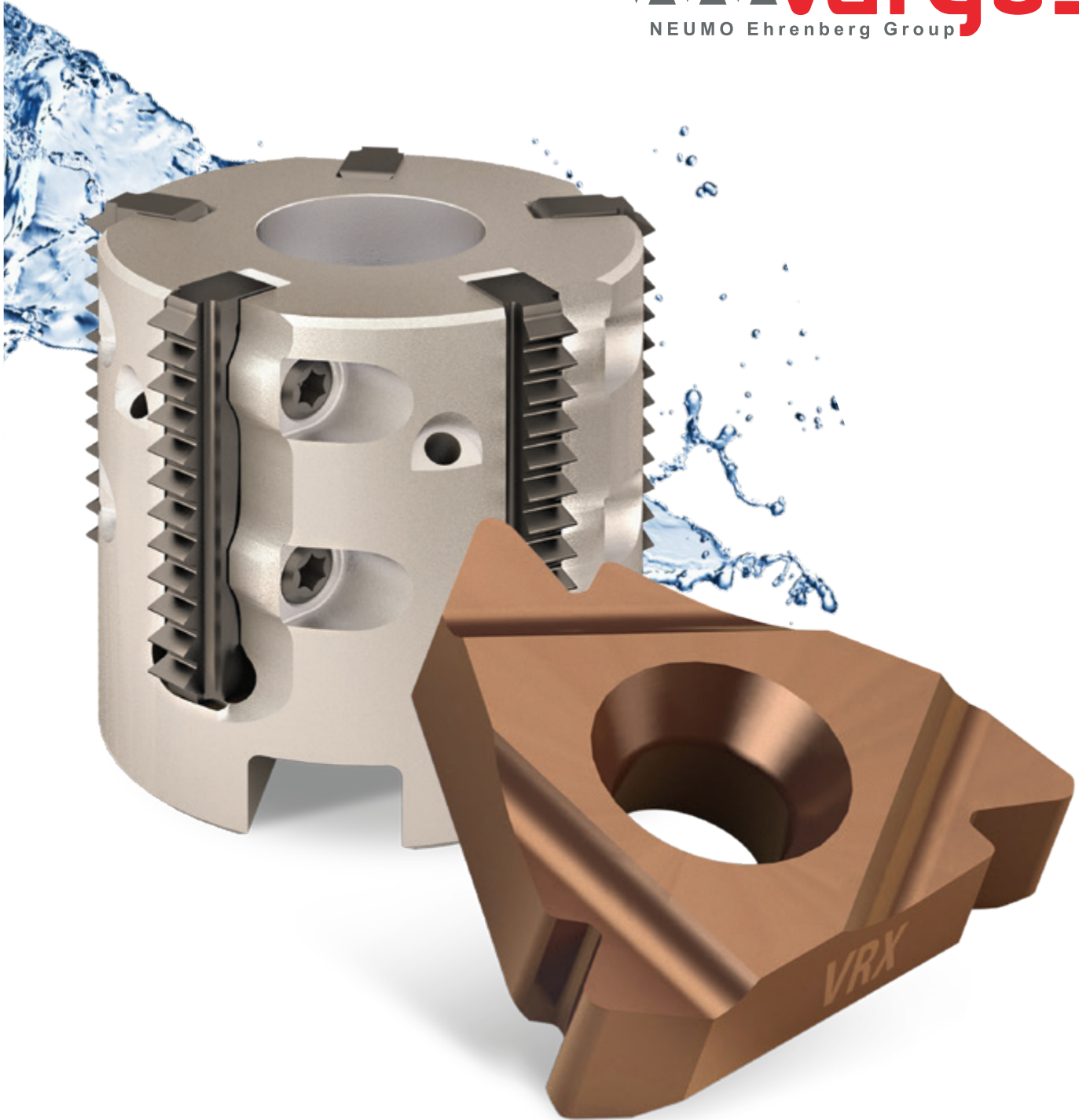


**SHAVIV**

**VARDEX**

Advanced Threading Solutions

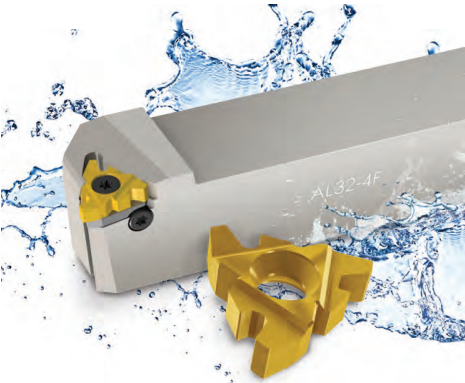
SPOTLIGHT | VARGUS | 2021



**VARDEX**  
Advanced Threading Solutions

# The most complete range of threading solutions

**FLINE**  
Fixed Clamping System



**Multi**plus



**MEGALINE**  
For Extra Large Pitches

**REDLINE**



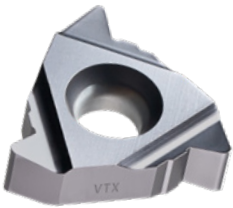
**U Style**



**V Style**



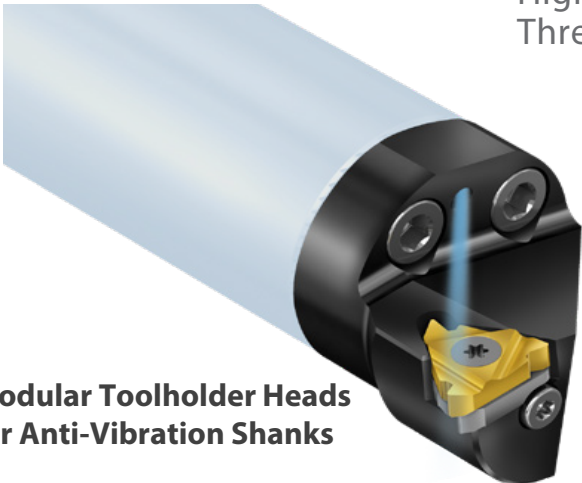
**D-Line**  
Deep Rake Internal Inserts



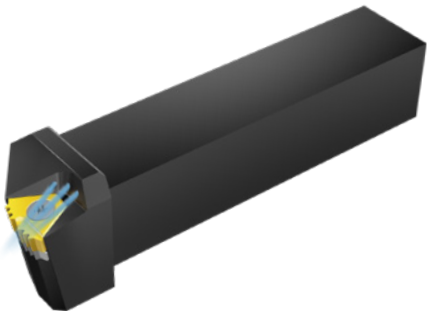
**HPLINE**  
High Performance  
Thread Turning Inserts



**Modular Toolholder Heads  
for Anti-Vibration Shanks**



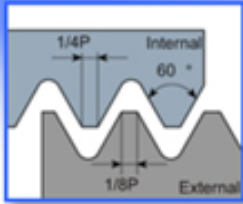
**External Thread Turning Holders  
for Oil&Gas** With High  
Pressure Coolant



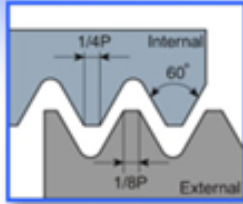


# Standard Threads

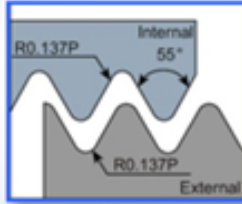
ISO



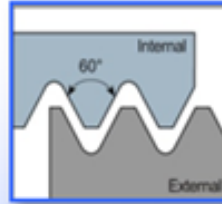
UN



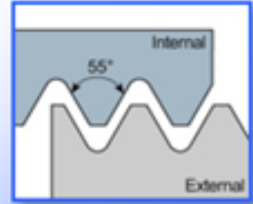
BSW



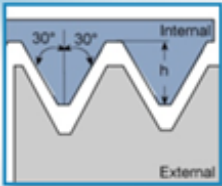
Partial 60°



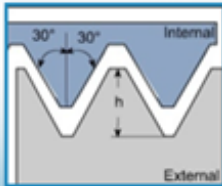
Partial 55°



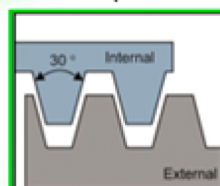
NPS



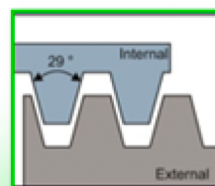
NPSM



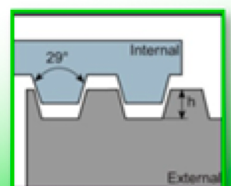
Trapez



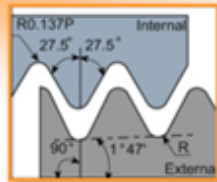
Acme



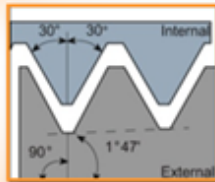
Stub Acme



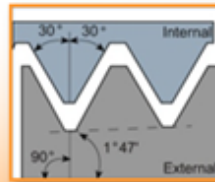
BSPT



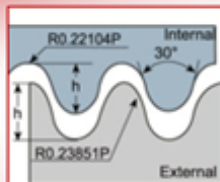
NPT



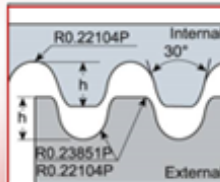
NPTF



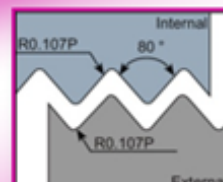
Round 405



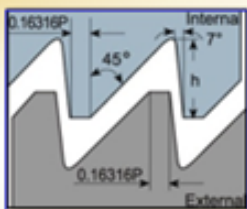
Round 20400



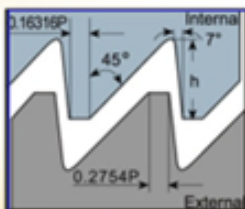
PG



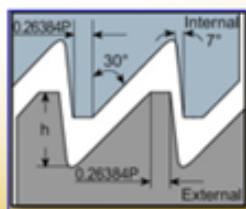
American Butt.



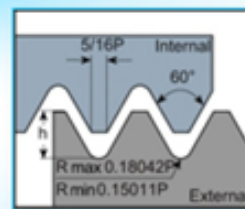
British Butt.



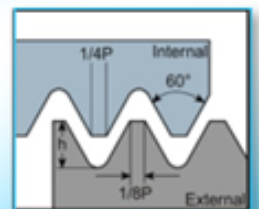
Metric Butt.



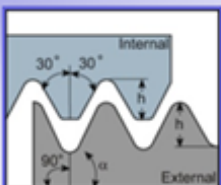
UNJ



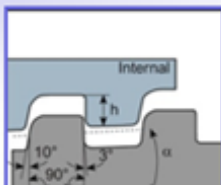
MJ



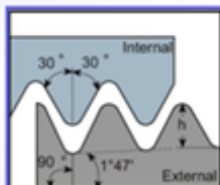
API



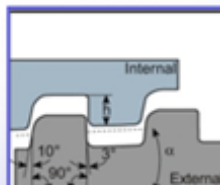
API Butt.Casing



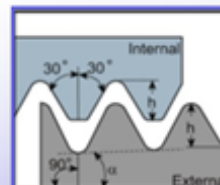
API Round



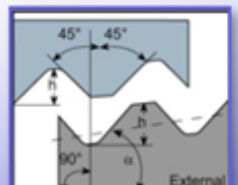
VAM



EL










H90



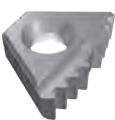





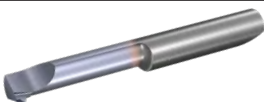


# GRADES AND THEIR APPLICATIONS

General Use		
VRX	VTX	VKX
 <p>Premium multipurpose submicron grade for stronger wear resistance and improved productivity. AlTiN alloyed PVD coated.</p>	 <p>General purpose grade with tough submicron substrate. Provides good fracture toughness in non-rigid cutting conditions. TiAlN coated.</p>	 <p>General purpose grade, excellent in steel and stainless steel, recommended for rigid cutting conditions. Ground or sintered chipbreaker styles. TiN coated.</p>

General Use	Stainless Steel	Non Ferrous, High Temperature Alloys and Titanium	
VCB	VM7	VK2	VK2P
 <p>Sintered chipbreaker with ground profile for machining materials with long chips. TiAlN coated</p>	 <p>Specialty grade for threading stainless steel. Multi-layer PVD coated.</p>	 <p>Uncoated grade for non-ferrous, aluminum, high temperature and titanium alloys.</p>	 <p>Highly-polished version of the VK2 uncoated grade for high quality surface finish in aluminum.</p>

VG-Cut	Oil&Gas General Use for Oil & Gas Materials		
VPG	VRXP	VTXP	VKXP
 <p>Sub-micron substrate for a wide range of applications. Excellent anti-fracture resistance. Highly recommended for medium to high cutting speeds. TiAlN coated.</p>	 <p>Premium submicron grade with reinforced cutting edge for the oil &amp; gas industry. Ideal for steel and stainless steel in unstable cutting conditions. AlTiN alloyed PVD coated.</p>	 <p>Excellent all-purpose grade, tailor-made to the oil &amp; gas industry with reinforced cutting edge. Recommended for non-rigid cutting conditions. TiAlN coated.</p>	 <p>General purpose grade, excellent in steel and stainless steel, and highly recommended for rigid cutting conditions. Special design with reinforced cutting edge for the oil gas industry. TiN coated.</p>

Micro Line	MINIPRO	For all Mini Inserts
VMX		VTX
 <p>General purpose carbide grade for Micro double-ended inserts. TiN coated.</p>		 <p>Sub-micron grade for general machining in low and medium cutting speeds. Highly recommended for stainless steel. TiAlN coated</p>

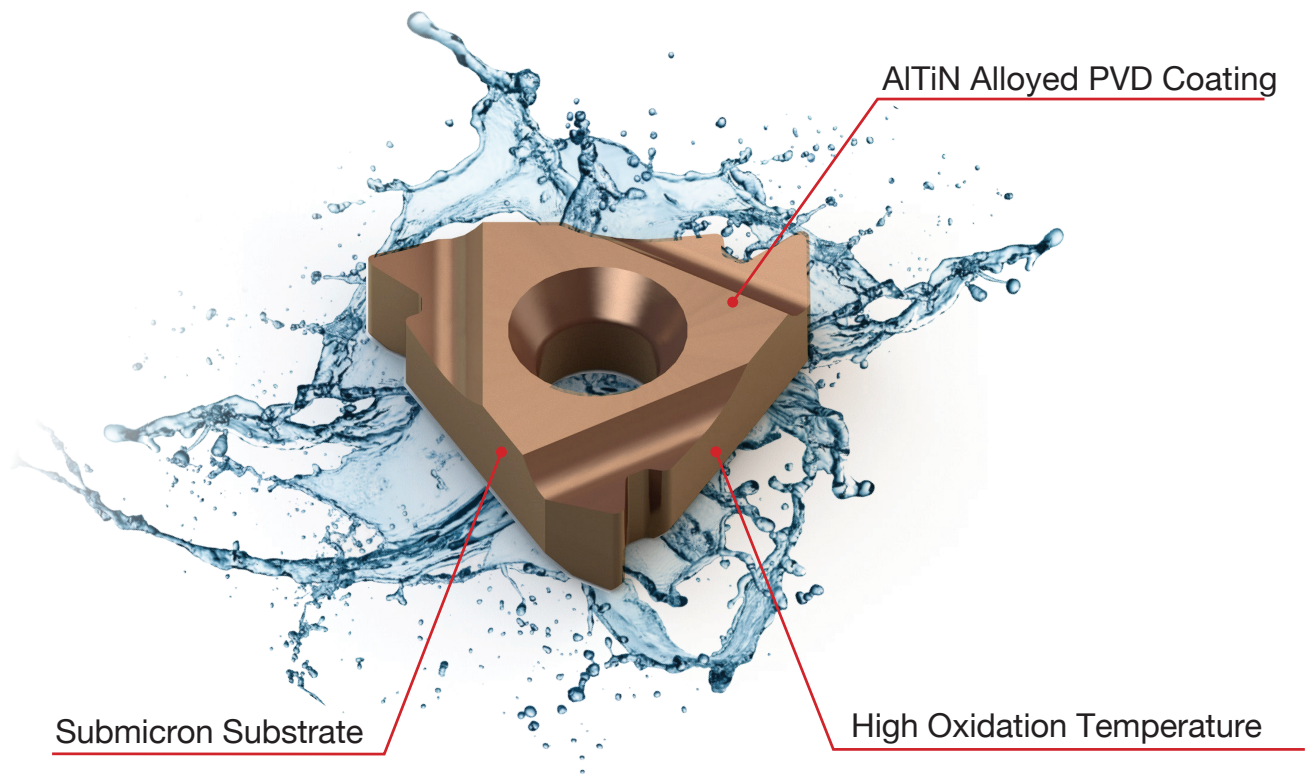
microscope	Mini 5L & Mini IC 6.0	Mini IC4.0, IC5.0 & Mini-V
VBX, VTX	VKX	VBX
 <p>General purpose carbide grade for micrOscope threading inserts. TiCN coated.</p>	 <p>General purpose carbide grade for the Mini 5L and Mini 6.0 inserts. TiN coated.</p>	 <p>Sub-micron grade for general machining in low and medium cutting speeds for Mini 4.0K, 5.0K and Mini-V lines. Highly recommended for steel. TiCN coated</p>

# VRX

## Redefining the **Threading** Benchmark

### Multipurpose Premium Grade

New Multipurpose Thread Turning Grade for Stronger  
Wear Resistance and Improved Productivity

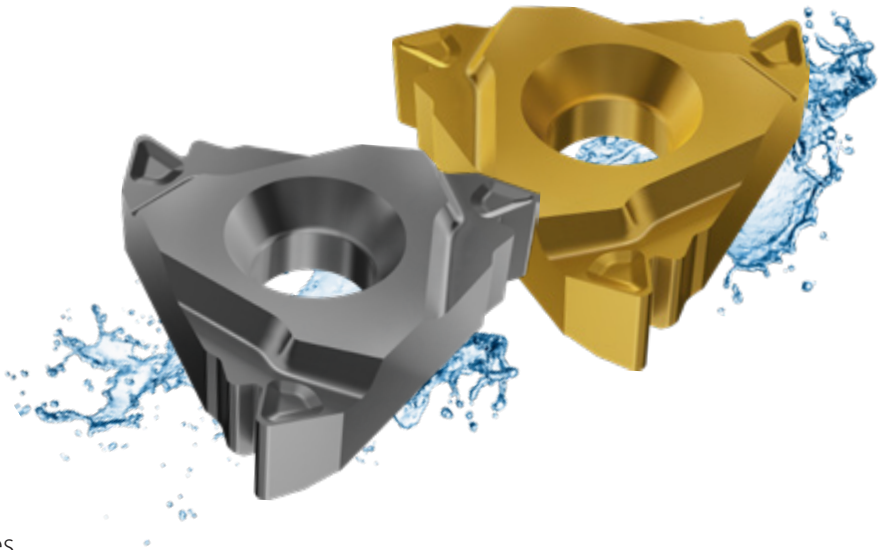


### Features and Benefits

- **AITiN Alloyed PVD Coating** - Improves wear resistance
- **Higher Oxidation Temperature** - Enables machining at higher cutting speeds without coolant
- **Improved Adhesion to Substrate** - Extends tool life
- **Improved Resistance to Plastic Deformation** - Provides better and longer lasting accuracy
- **Multipurpose Grade** - Suitable for steel, hardened steel up to 55 HRc, stainless steel, high temperature alloys and non-ferrous metals at low and high cutting speeds.

# FS LINE

## Fully Sintered Inserts



### Features and Benefits:

- Economical solutions 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)
- Threading standards: Partial Profile 60°, Partial Profile 55°, ISO Metric, American UN, Whitworth, NPT & API Round
- FS Line inserts are suitable with all standard Thread Turning Holders

## ALCN

### External Thread Turning Toolholders WITH TWO HIGH PRESSURE COOLANT OUTLETS



## TORQUE WRENCH





# Thread Milling Systems

## TMSD Thread Milling for Deep Holes

### U Style For Large Pitches



Weldon Shank



Carbide Cylindrical Shank



Steel Cylindrical Shank



Shell Mill

### L Style (Mini L) For Small Bores and Short L2



Weldon Shank



Carbide Cylindrical Shank

### Vertical Style (7V, 9V, 11V)



Weldon Shank



Carbide Cylindrical Shank

### L Style (3/8" L) For Large Trapezoid Profiles and ABUT



Weldon Shank



Carbide Cylindrical Shank



Shell Mill

### A Style For Shorter L2



Steel Cylindrical Shank

## TM Solid Solid Carbide Thread Milling Tools

### Helical Flutes with Coolant



Helicool (HC)



Helicool (HCN)



Helicool-R (HCR)



Helicool-C (HCC)

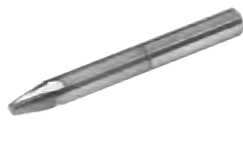


HTC (Thriller)

### Helical Flutes



Helical (H)



Taper

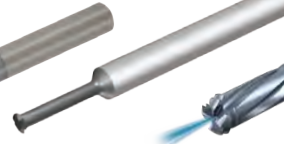
### Miniature Tools



MilliPro



MilliPro HD



MilliPro Dental



TMDR

### Straight Flutes

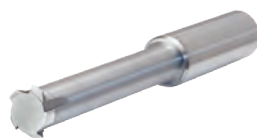


Straight



Taper

### Long Tools



Deep Threading Full Profile



Deep Threading Partial Profile

# TM Solid TMDR

Drilling, Thread Milling & Chamfering

**EXPANDED LINE**

Now Available in Full Profiles BSP (G),  
NPT & Additional ISO Metric Standards

## Features and Benefits

- TMDR tools drill, thread & chamfer all in one tooling operation
- Pre-drilled holes are no longer required!
- Expansion Includes: BSP (G), NPT, ISO Metric
- VTS Grade: General purpose, TiAlN coated



# Helicool-R (HCR)

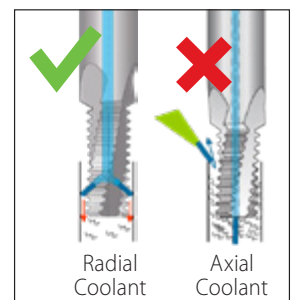
Helical Thread Mill Flutes with Radial Cooling

**EXPANDED LINE**

ISO Metric, American UN, BSP (G),  
NPT, BSPT, UNJ

## Features and Benefits

- Effective coolant in thru holes
- Delivering coolant directly to the cutting area
- Metric Shanks:
  - ISO Metric
  - American UN
  - BSP (G)
  - NPT
  - BSPT
  - UNJ



Chip Evacuation in Thru Holes  
using Axial & Radial Coolant

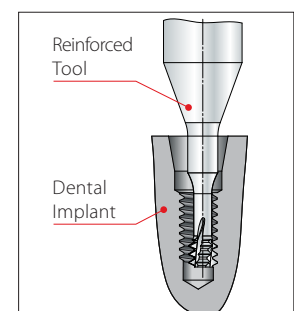
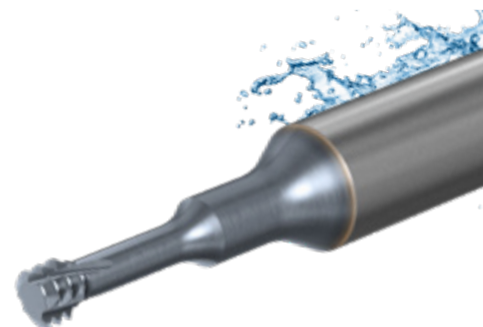
# MilliPro Dental

Reinforced Miniature Thread Mills for  
Dental Implants

**NEW**

## Features and Benefits

- Reinforced overhang for better stability
- Specifically designed for the dental implant industry
- Available in ISO Metric and American UN
- VTH Grade



Reinforced Overhang

## TMSD

### Modular Toolholder Heads



#### Features and Benefits

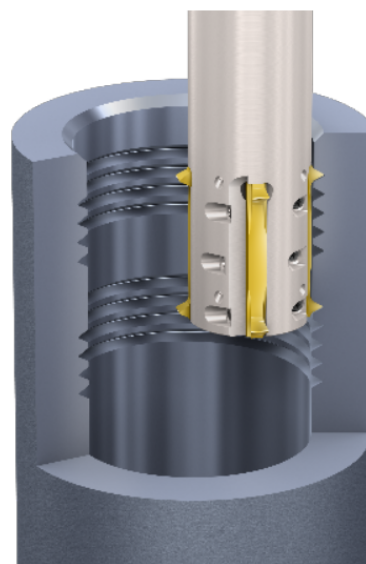
- One modular toolholder head fits an assortment of shank lengths
- Compatible with the most common steel and carbide shanks in the market
- Tools include high pressure coolant thru for extended tool life
- Multi-flute tools for fast machining
- Suitable for TMSD U Style inserts
- Specially suited for deep holes
- Reduced load on cutting edges due to single point insert design



## MiTM



## MiTM Offset





# MiTM

## New Family of Thread Milling Tools

The VARDEX Multi-flute Indexable Thread Milling (MiTM) system for fast machining, reduces cycle times when machining threads with long inserts. New nickel coating for all MiTM toolholders provides better anti-rust protection.



See it in action

### MiTM 19 (A)

For Small Bores

#### Standard



No. of Flutes (Z) 1  
Cutting Dia. (D2) 10.0-11.75  
Tool Overhang (L1) 20.0-25.2

#### Conical



No. of Flutes (Z) 1  
Cutting Dia. (D2) 10.2  
Tool Overhang (L1) 19.0

### MiTM 24 (M)

For Medium Bores

#### Standard



No. of Flutes (Z) 1-2  
Cutting Dia. (D2) 13.6-16  
Tool Overhang (L1) 26-36

#### Conical



No. of Flutes (Z) 1  
Cutting Dia. (D2) 13.9  
Tool Overhang (L1) 26

### MiTM 25 (S)

For Standard Applications

#### Standard



No. of Flutes (Z) 2-5  
Cutting Dia. (D2) 17-30  
Tool Overhang (L1) 26-80

#### Conical



No. of Flutes (Z) 2-4  
Cutting Dia. (D2) 17-28  
Tool Overhang (L1) 26-43

#### Shell Mill



No. of Flutes (Z) 5-8  
Cutting Dia. (D2) 36-52  
Tool Overhang (L1) max.200

#### Shell Mill Conical



No. of Flutes (Z) 5  
Cutting Dia. (D2) 36  
Tool Overhang (L1) max.200

### MiTM 40 (L)

For Long Threads

#### Standard



No. of Flutes (Z) 3-4  
Cutting Dia. (D2) 22-30  
Tool Overhang (L1) 43-80

#### Shell Mill



No. of Flutes (Z) 6-8  
Cutting Dia. (D2) 44-52  
Tool Overhang (L1) max.200

#### Shell Mill Conical



No. of Flutes (Z) 6  
Cutting Dia. (D2) 45  
Tool Overhang (L1) max.200

### MiTM 41 (B)

For Large Pitches

#### Standard



No. of Flutes (Z) 1-5  
Cutting Dia. (D2) 24.5-36  
Tool Overhang (L1) 43-65

#### Shell Mill



No. of Flutes (Z) 5-6  
Cutting Dia. (D2) 48-58  
Tool Overhang (L1) max.200



# THREAD TURNING KITS



TT External + Internal Kit



TT External Kit



TT Internal Kit

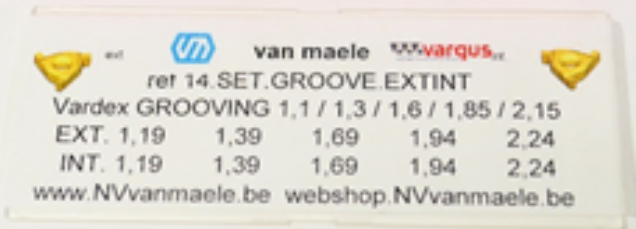


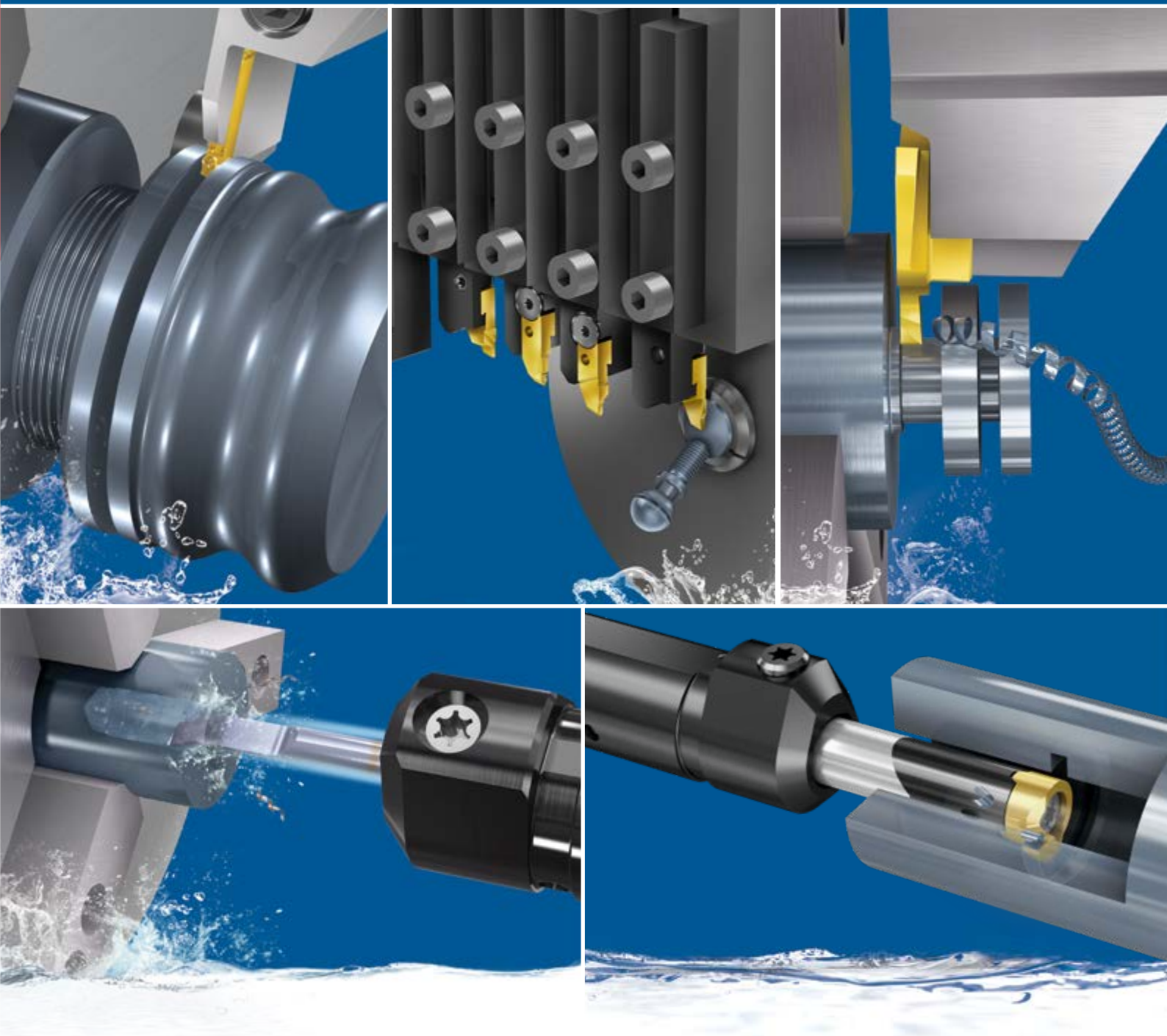
TT Inserts Kit



VARDEX  
Anvil Kit

## GROOVING SET





**GROOVEX**  
Innovative Grooving & Turning Solutions

EXTERNAL GROOVE TURNING

INTERNAL GROOVE TURNING

GROOVE MILLING



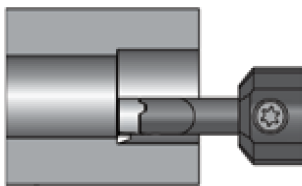


# Mini-V

Precise Turning, Grooving, Threading & Face Grooving

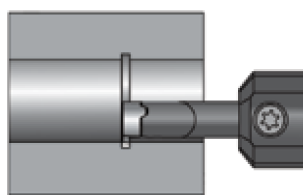
## Applications

### Boring



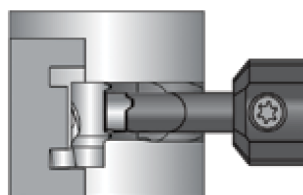
- Boring
- Boring with Chip Former
- Profiling
- Back Boring
- Chamfering

### Grooving



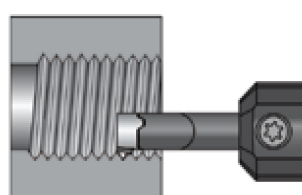
- Square Grooving D472
- Square Grooving
- Round Grooving

### Face Grooving

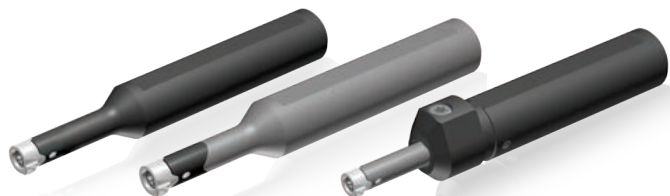
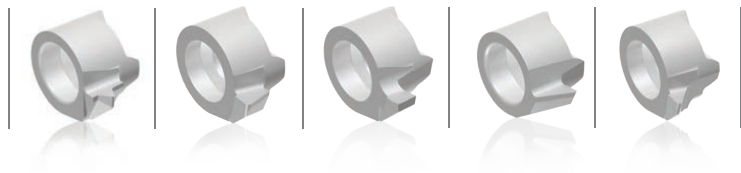


- Square Face Grooving Internal
- Square Face Grooving External
- Round Face Grooving Internal
- Round Face Grooving External

### Threading



- Partial 60°
- Partial 55°
- ISO Metric
- American UN
- Whitworth
- BSPT
- NPT
- NPTF
- Trapez



With Mini-V you can use steel or carbide toolholders, either directly mounted or by the Microscope system.



# microscope

Precise Turning, Grooving, Threading & Face Grooving



**Improved Coolant Thru**

Two coolant holes for effective chip removal and cooling of cutting edge

**Slanted Insert Design**

Provides exact radial insert location for high repeatability

**Simple Clamping System**

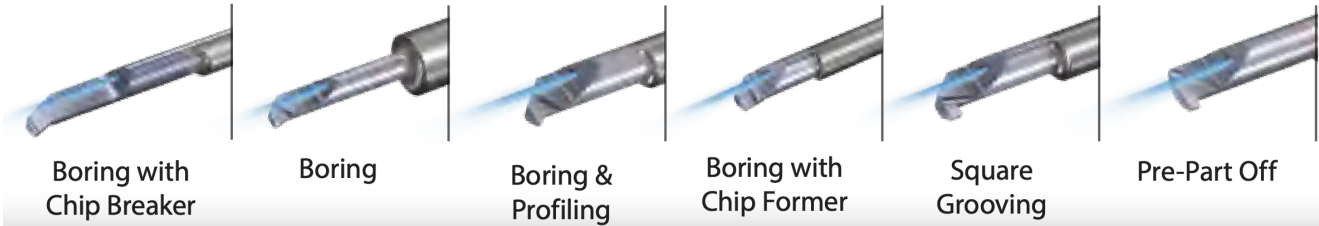
Simple and fool-proof. The new clamping system uses one large screw to secure the insert in the holder

**Stopper Pin**

Provides precise cutting edge height and perfect axial location

Internal Tools with High Pressure Coolant Thru

NEW



Boring with  
Chip Breaker

Boring

Boring &  
Profiling

Boring with  
Chip Former

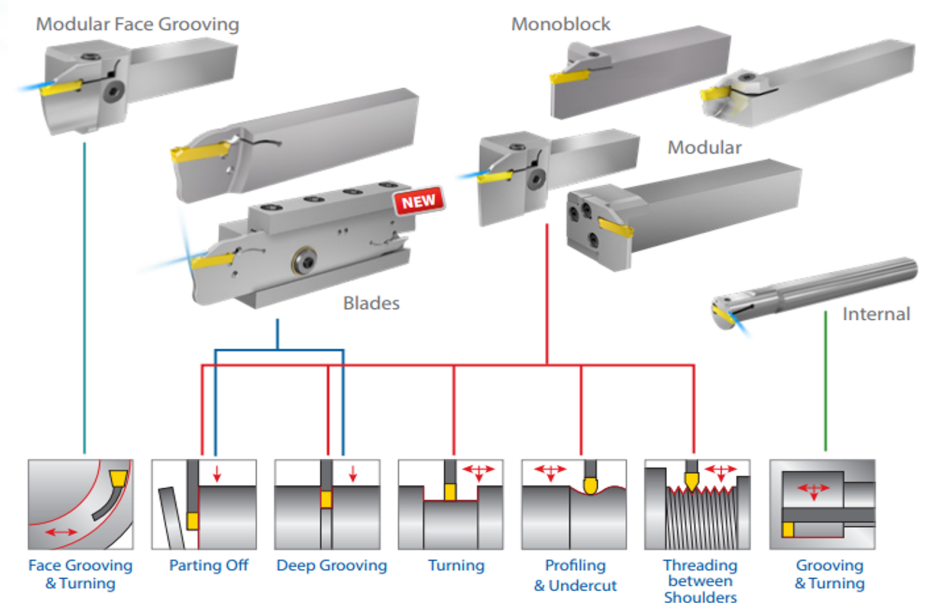
Square  
Grooving

Pre-Part Off

GROOVEX

## VG-Cut

Complete Range of  
Turning Solutions



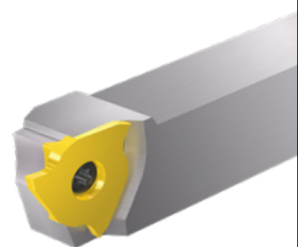
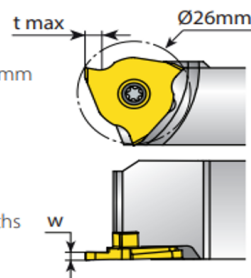
## GrooVical

Precise Grooving &  
Turning Applications

G VN26

$t_{max}$  = Groove  
Depths up to 5.5mm

$W$  = Groove Widths  
from 0.5-2.5mm

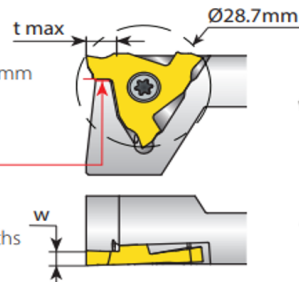


G VN29

$t_{max}$  = Groove  
Depths up to 6.5mm

**Additional  
Corner Support**

$W$  = Groove Widths  
from 2-6.35mm





# ST-Cut

## Precise Tools for Small Parts Machining

NEW

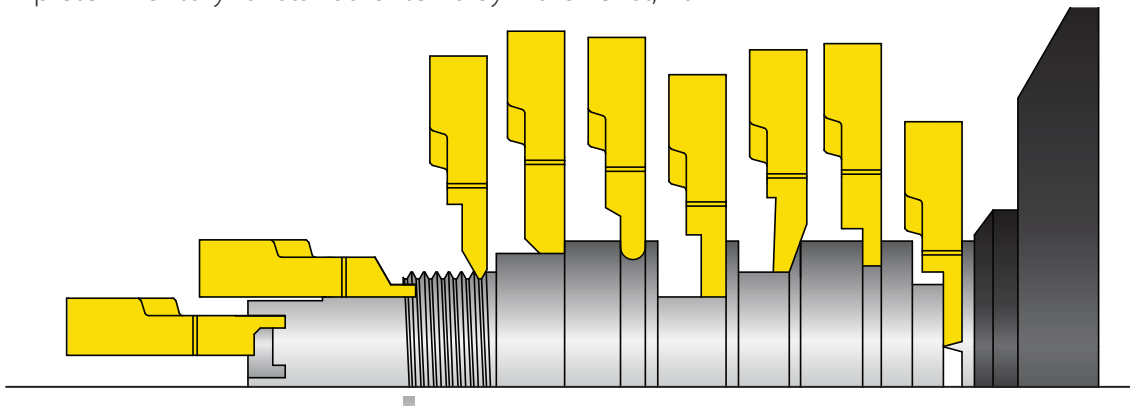
Vargus is pleased to introduce the New **ST-Cut** an innovative solution for machining small parts on Swiss type machines.

### Features and Benefits:

- 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 (.669") maximum parting off diameter, with up to 3mm (.118") notch width
- Excellent rigidity
- Insert edge treatment for increased tool life

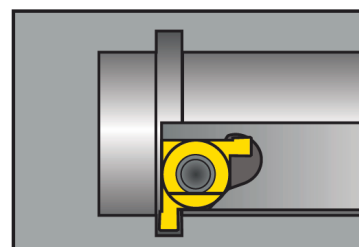
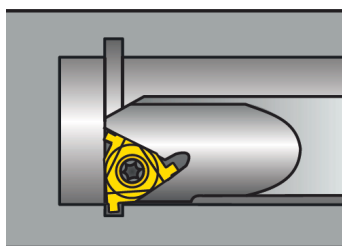
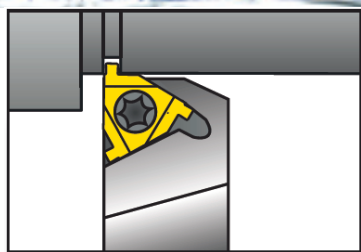
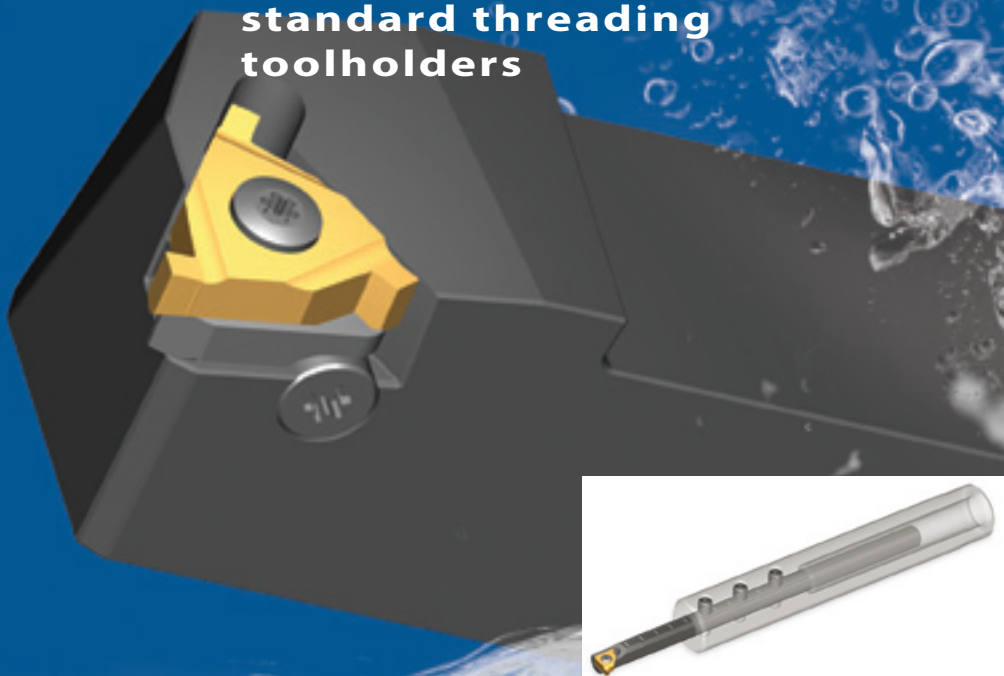
### Features and Benefits:

- Complete inventory for standard items by March 31st, 2021



# SMALL GROOVING

The inserts go on standard threading toolholders



## V-CAP GROOVEX



**VG-Cut**

**GrooVical**

**microScope & Mini-V**



GVN26

GVN29

**SHAVIV**  
Leading Deburring Solutions

**vargus**  
NEUMO Ehrenberg Group



The **Finishing**  
Touch



[www.shaviv.com](http://www.shaviv.com)





## COMPLETE HAND DEBURRING SOLUTIONS



### Sets Glo-Burr



**CHAMFER KIT**



**Manuel Chuck**

HAND TOOL for deburring, drilling, reaming, tapping,...

## **mango II Long-Reach**

The most recommended handle for comfort and control in deburring

Mango II - Works with all SHAVIV blade holders.

Simple holder mechanism. Comfortable, ergonomic handle for standard-sized hands.



**Mango II Handle** Ordering No.: 152-00019

## **mango II B/E Extra-Close**

The most recommended handle for comfort and control in deburring

Mango II B/E - Works with all B or E blades.

Permanent safety locks for simple blade replacement.

Comfortable, ergonomic handle for standard-sized hands.

B10



**Mango II B Handle** Ordering No.: 152-00009

E100



**Mango II E Handle** Ordering No.: 152-00016



**Mango IIB Extra-Close**



**Mango IIE Extra-Close**



**Mango II Long-Reach**

The **Finishing**  
Touch



**VARGUS is a world leading developer, manufacturer and supplier of high-quality, precision threading, grooving, turning and hand deburring tools.**

Established in 1960, VARGUS is the cutting tools division of the NEUMO Ehrenberg Group, a multinational organization headquartered in Germany.

With 13 international subsidiaries, and a network of distributors, warehouses and certified ISO 9001 manufacturing facilities, VARGUS Ltd. serves customers in more than 100 countries around the globe. A customer-focused organization, VARGUS Ltd. is committed to providing products and solutions of the highest quality and excellent value, and is renowned for its technical expertise and uncompromising service.

#### **COMPANY PRODUCTS:**

##### **VARDEX**

Advanced Threading Solutions

is the company's prominent product line for Thread Turning, Thread Milling, and Gear Milling Solutions.

**Thread Turning:** The VARDEX TT tools offer an extensive collection of pitches and standards in different grades, IC ranges and types of insert styles, as well as customized methods for the oil and gas industry.

**Thread Milling:** The VARDEX TM line provides a wide range of applications and solutions in multi-tooth, single-tooth for deep holes, and solid carbide tools.

**Gear Milling:** The VARDEX Gear Milling line is a revolutionary concept for gear, rack and spline applications, offered in indexable inserts and solid carbide tools.

**VARGUS GENius™:** VARGUS' industry-leading Thread Turning and Thread Milling solutions are seamlessly complimented by the VARGUS GENius™ software – The most powerful tool selector, cutting data and CNC program generating software.

##### **GROOVEX**

Innovative Grooving & Turning Solutions

, the newest product line by VARGUS, provides innovative solutions for grooving, boring and turning, in a wide range of applications.

##### **SHAVIV**

Leading Deburring Solutions

, manufactures world leading hand-deburring solutions for metals and plastics.





# GEAR MILLING

For Gear, Spline & Rack Manufacturing

## EXPANDED LINE

- Standard Spline Inserts for DIN 5480
- Standard Toolholders for the COMPLETE Gear Milling Line

**NEW**



### Spline Inserts – DIN 5480

- Standard Spline Inserts for DIN 5480 (See table on pages 2-3)
- Modules 1-6
- IC Range: 1/4"U, 3/8"U, 5/8"U, 1/2"UT, 5/8"UT

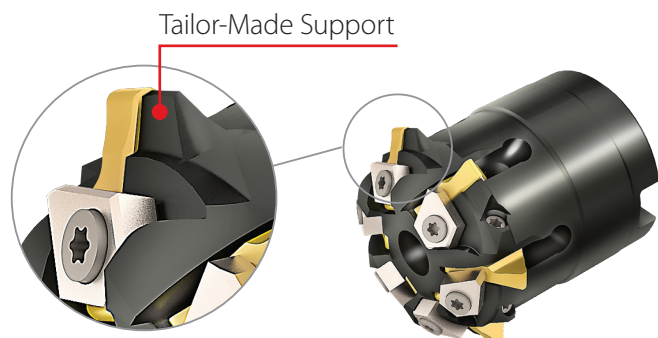
### Standard Toolholders

- Standard Gear Milling Holders (End Mill, Shell Mill, Disc Mill) are now suitable for all standard inserts (DIN 3972, DIN 5480) and tailor-made inserts\*
- The standard toolholder enables the use of the same toolholder for the same IC type inserts
- No need for special toolholders for each individual profile!

\* Tailor made holders are still available upon request.

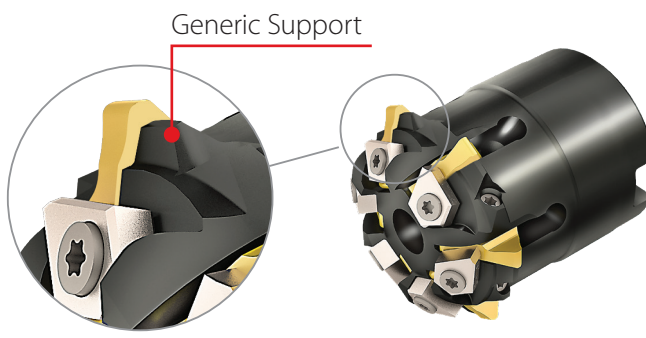
### Tailor-Made Toolholders According to the Specific Insert Profile

**BEFORE**



### Standard Toolholders For All Inserts with the Same IC Type

**NEW**



Whether you require a non-standard size, a complex shape or a special design, the Vargus Custom Made Solutions team has the experience and know-how for essentially any tooling solution.

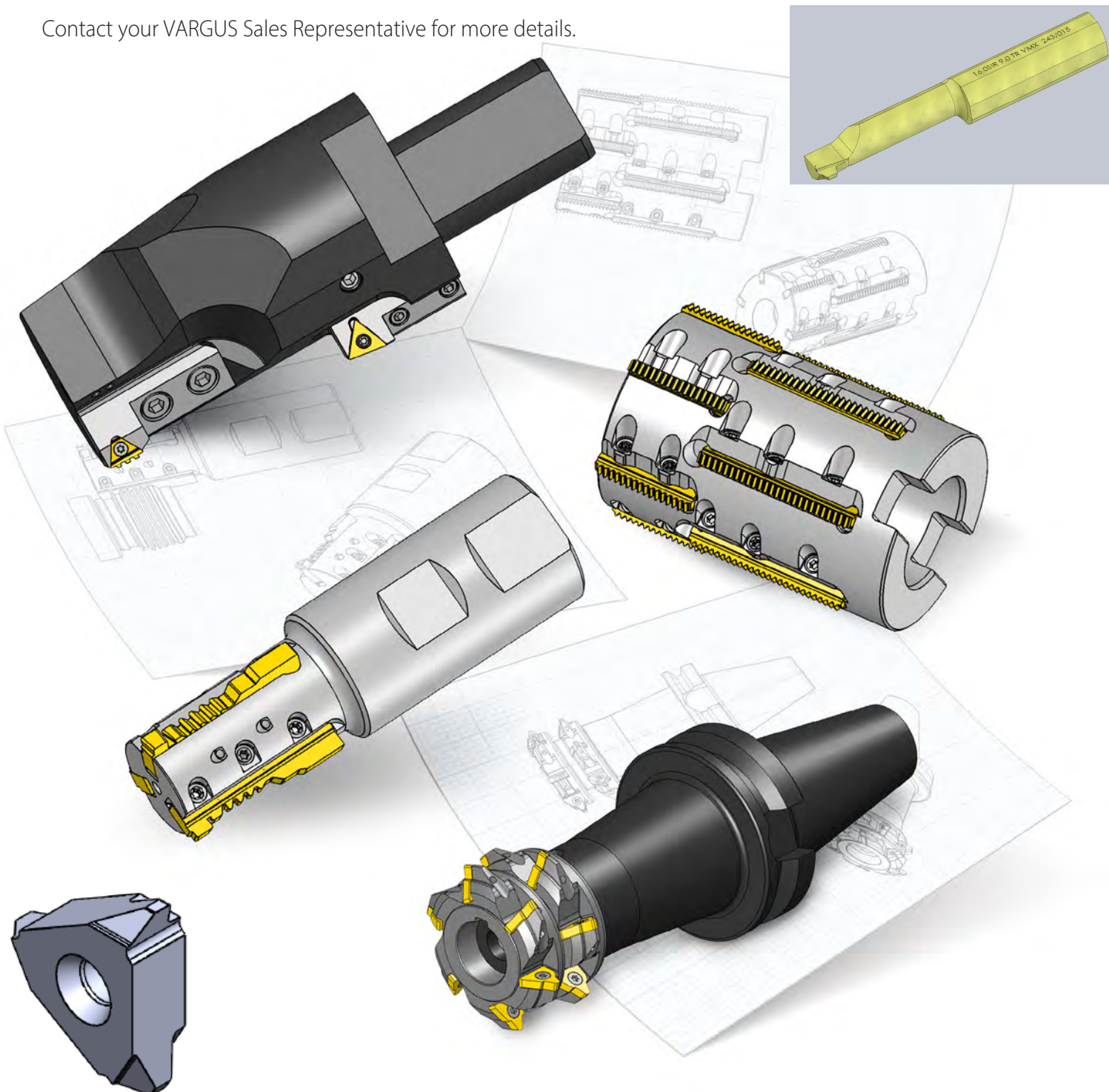
Working closely with the customer, VARGUS engineers provide the best solution for your operation, as well as guide and advise in the implementation of the customized machining process.

The Custom Made Solutions team has all of the know-how to design the right cutting tool, using the latest techniques and top-of-the-line technology.

Contact your VARGUS Sales Representative for more details.



**Qualité | Innovation | Service**





## VARGUS Medical

### Introducing VARGUS Solutions for the Medical Industry

The VARDEX and GROOVEX lines have provided standard and customized tools for the strict requirements in the medical field for years. For the first-time, tooling solutions for common medical applications, including NEW families for custom-made tools, are all conveniently accessible in one leaflet.



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Program Generator

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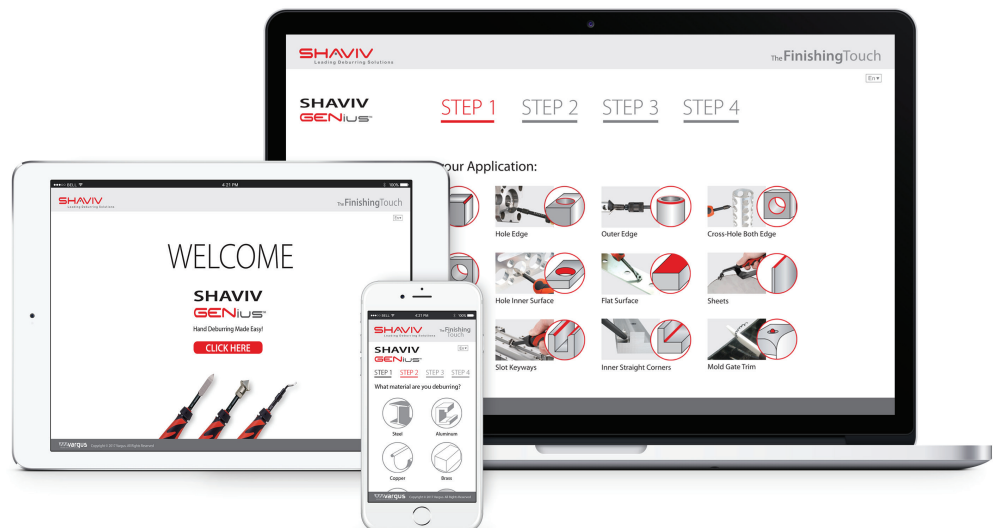


APP

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## SHAVIV GENiUS™





With a network of 13 international companies and hundreds of distributors, warehouses and certified ISO 9001 manufacturing facilities, VARGUS Ltd. serves customers in more than 100 countries around the globe. A customer-focused organization, VARGUS Ltd. is committed to providing innovative products and solutions of the highest quality and excellent value, and is renowned for its technical expertise and uncompromising service.




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