

VARGUS

A cég & termékek bemutatása

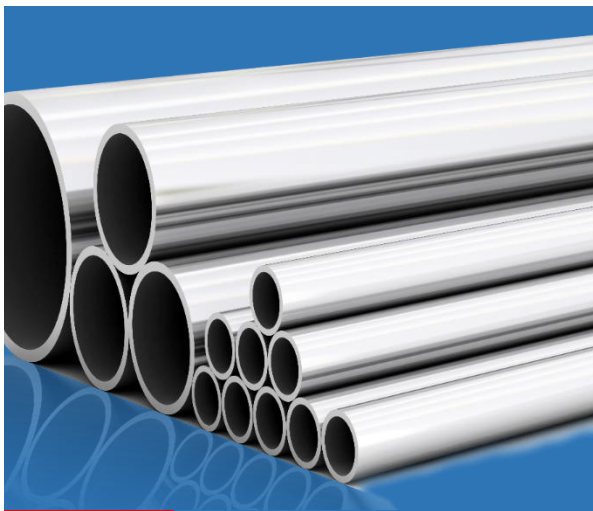
Elekes Marcell

Értékesítési vezető



Alapítás éve 1960

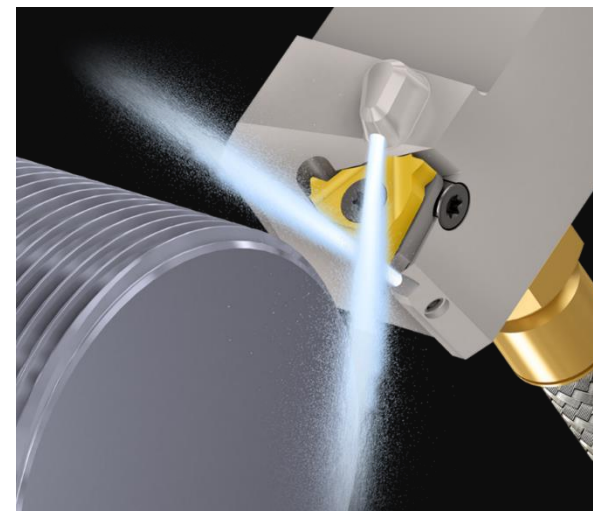




ISO M alapanyag nagykereskedő



Áramlás technológiai gyártó



Precíziós forgácsoló szerszámok

VARGUS Globális Kirendeltségei

14 Leányvállalat

Több száz viszonteladó



Leányvállalat

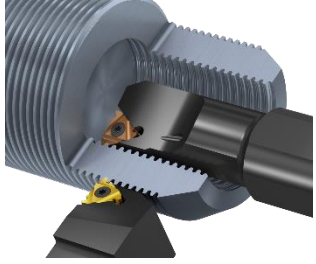
	Kína
	Dánia
	Franciaország
	Németország
	India
	Izrael
	Olaszország
	Dél-Korea
	Lengyelország
	Spanyolország
	Svájc
	Törökország
	Egyesült Királyság
	USA

VARGUS Termékvonal

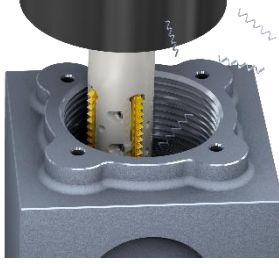
VARDEX

Advanced Threading Solutions

Menetesztergálás



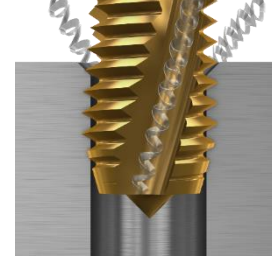
Menetmarás



Fogaskerék marás



Menetfúrás



Örvénylő menetmarás



Idomszer



GROOVEX

Innovative Grooving & Turning Solutions

VG-Cut



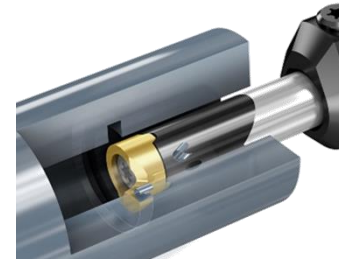
ST-Cut



GrooVical



Mini-V

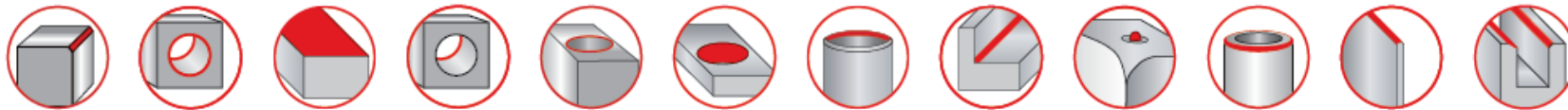


microScope



SHAVIV

Leading Deburring Solutions



SV-Burr
Premium Carbide Burrs

V-MILL

Superior Milling Solutions

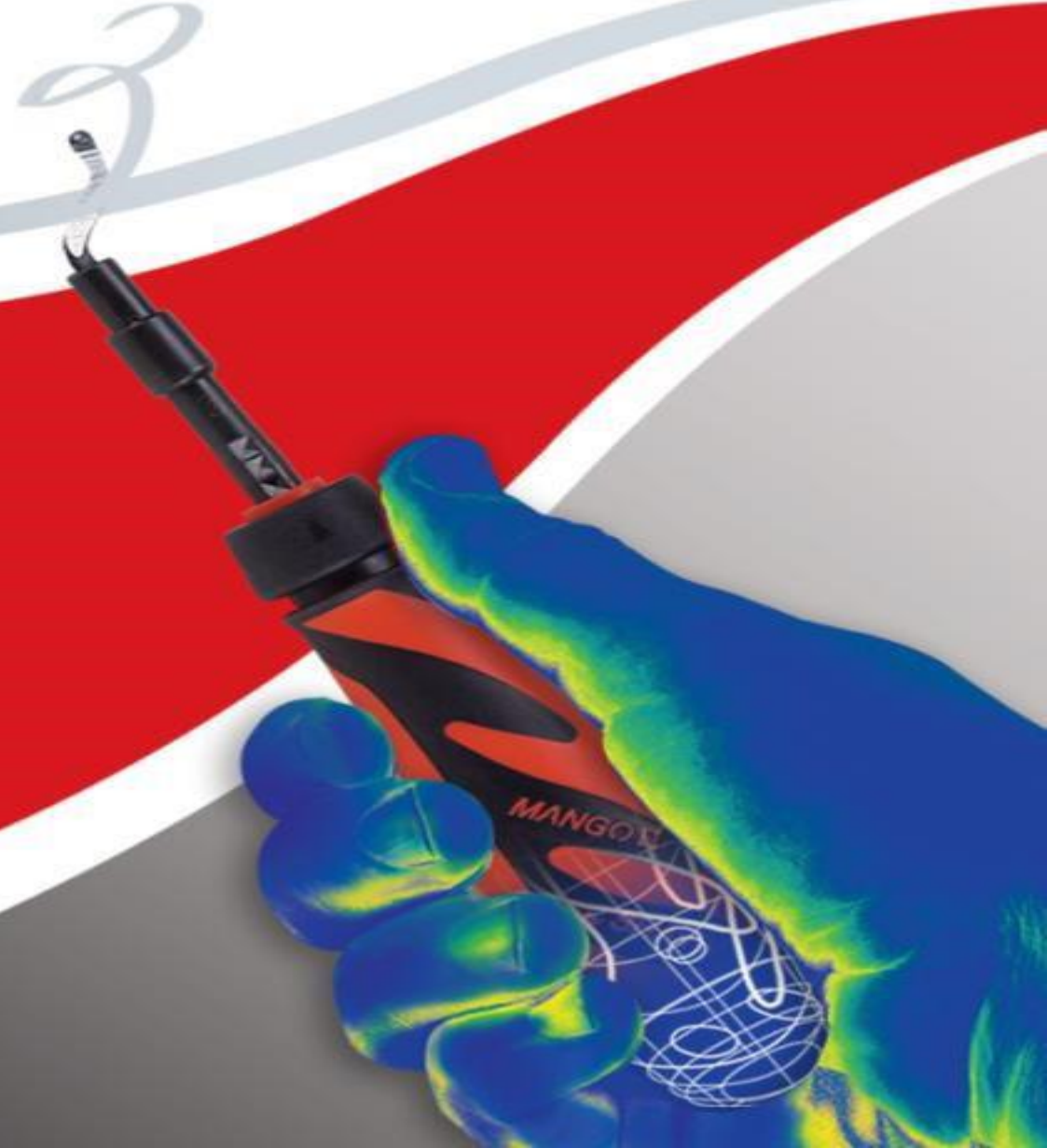
+

V-DRILL

Accurate Drilling Solutions

SHAVIV
Leading Deburring Solutions

The **Finishing**
Touch



Blades and Applications



Swivel Blades

(E,B)



Straight Edge

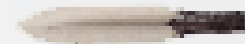


Hole Edge



Scrapers

(C)



Flat Surface



Hole Inner Surface



Countersinks

(F)



Hole Edge

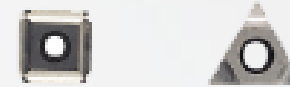


Outer Edge



Special Blades

(G)

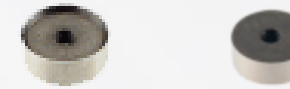


Slot/Keyway



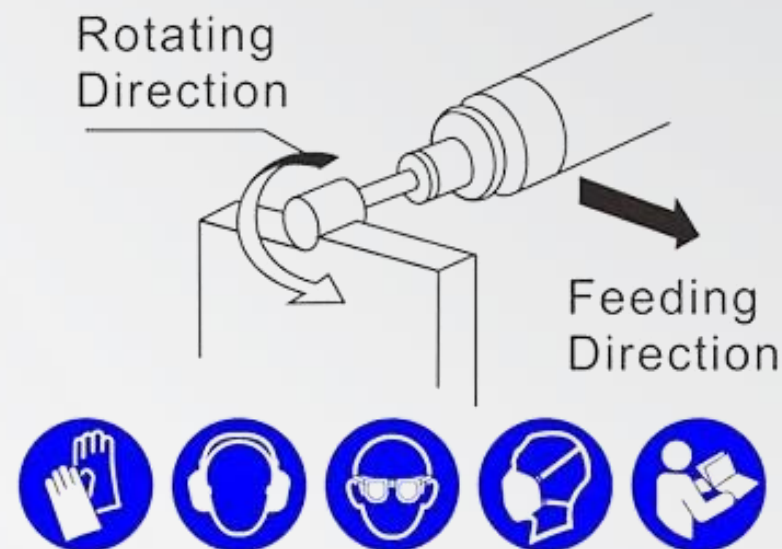
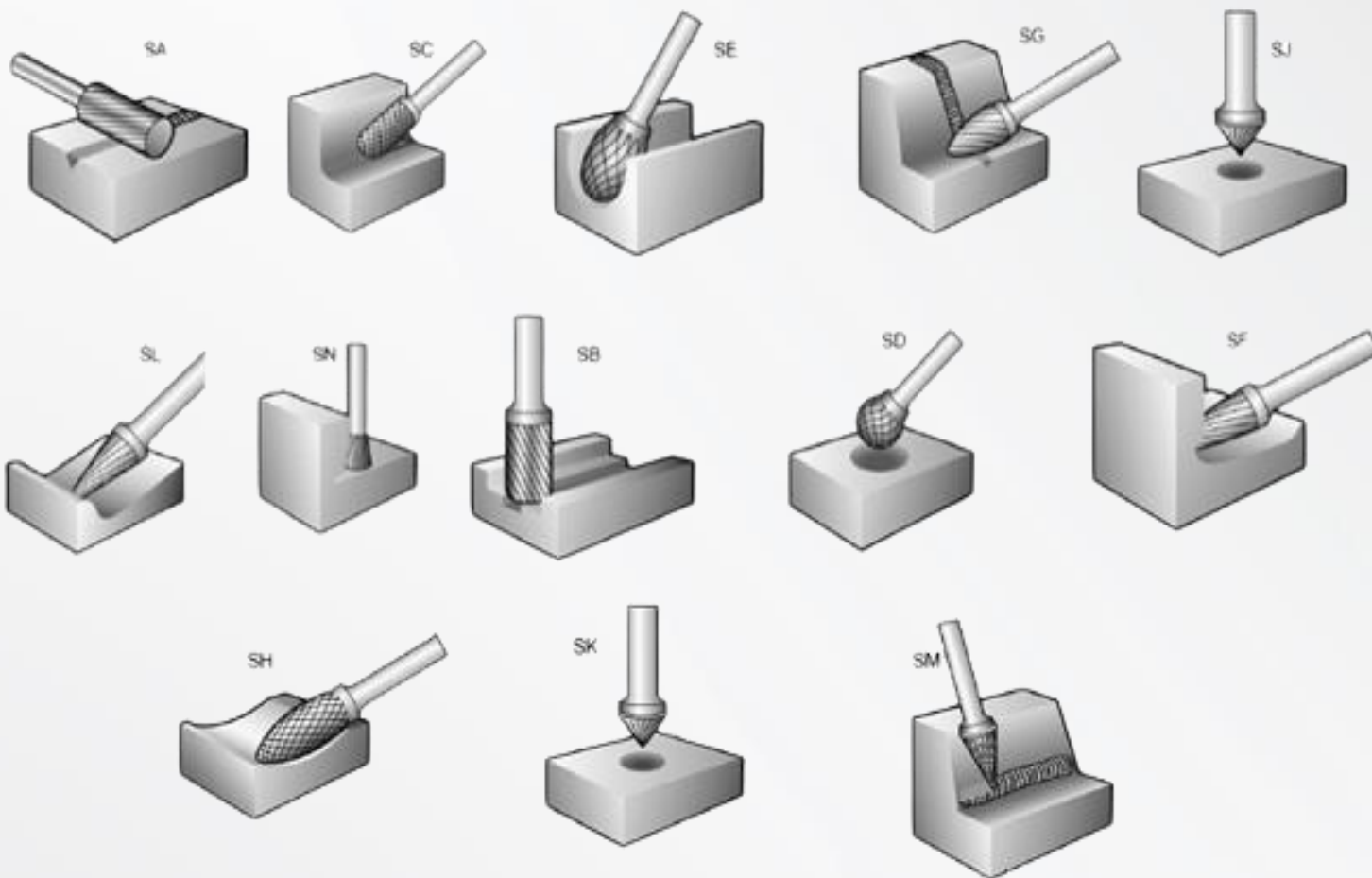
Sheet Edge Cleaner

(D)



Sheets

SHAPE SELECTION



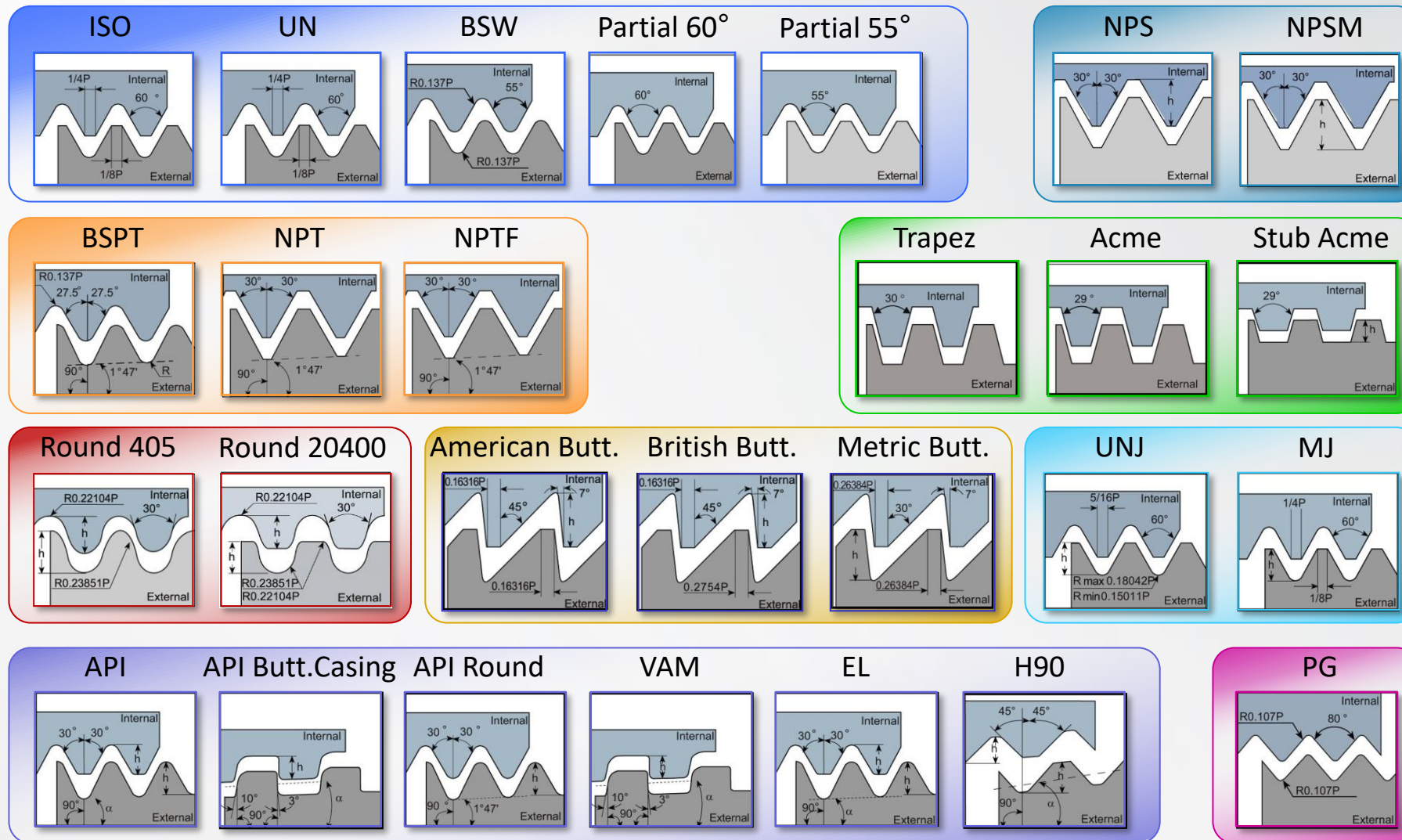


VARDEX

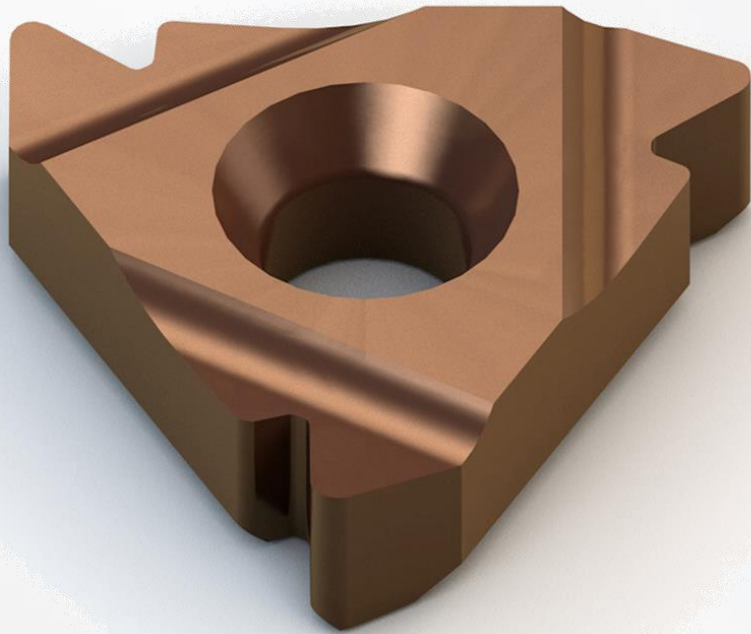
Advanced Threading Solutions

Thread Turning

Thread Standards

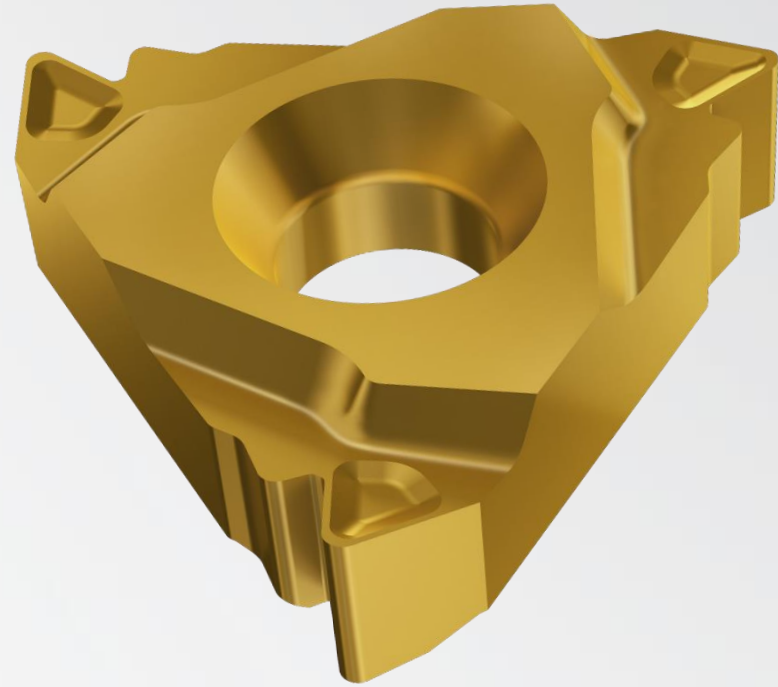


Standard Insert



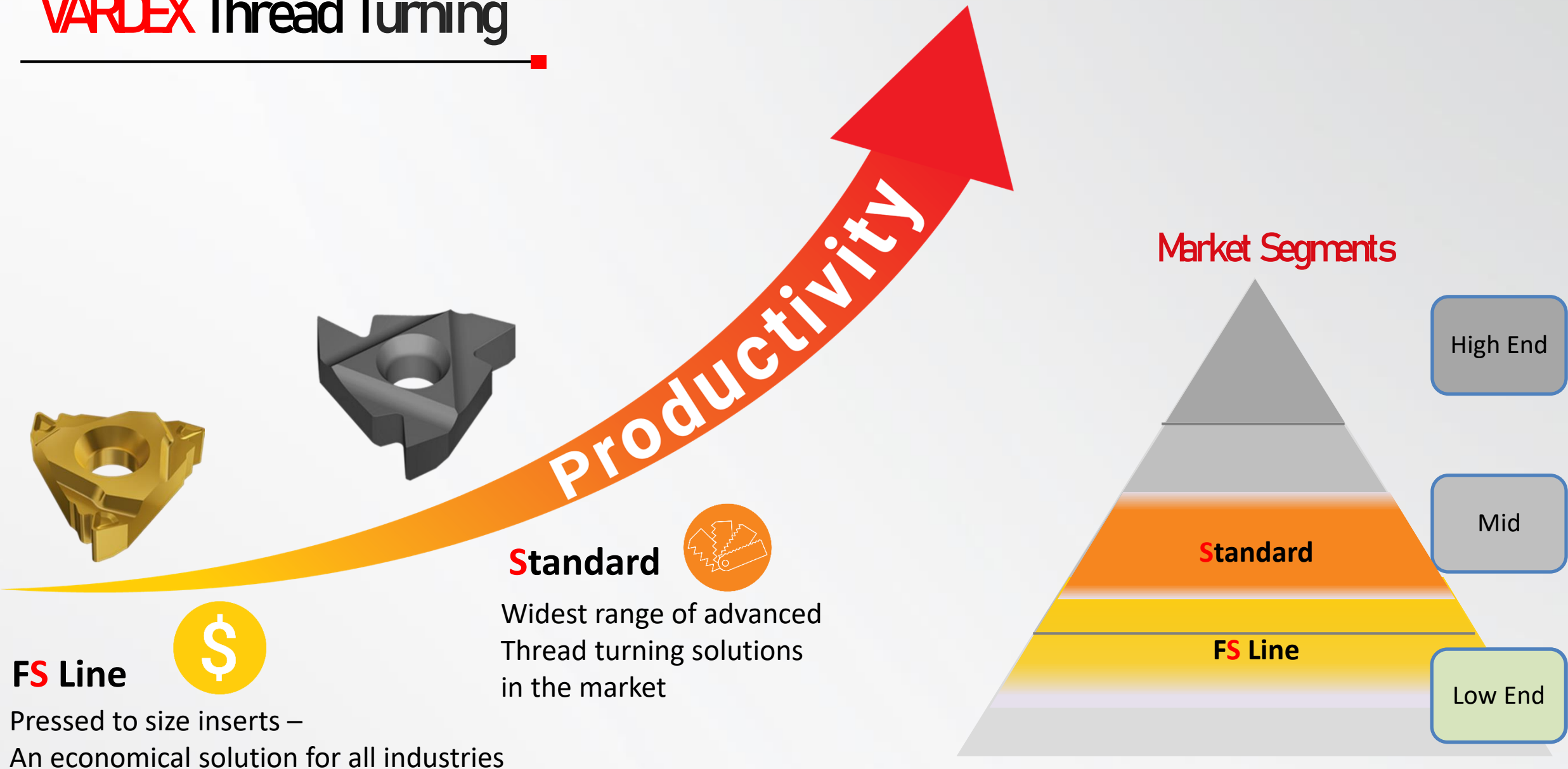
Chipbreaker (rake) and profile are ground

Fully Sintered



Chipbreaker (rake) and profile are pressed

VARDEX Thread Turning

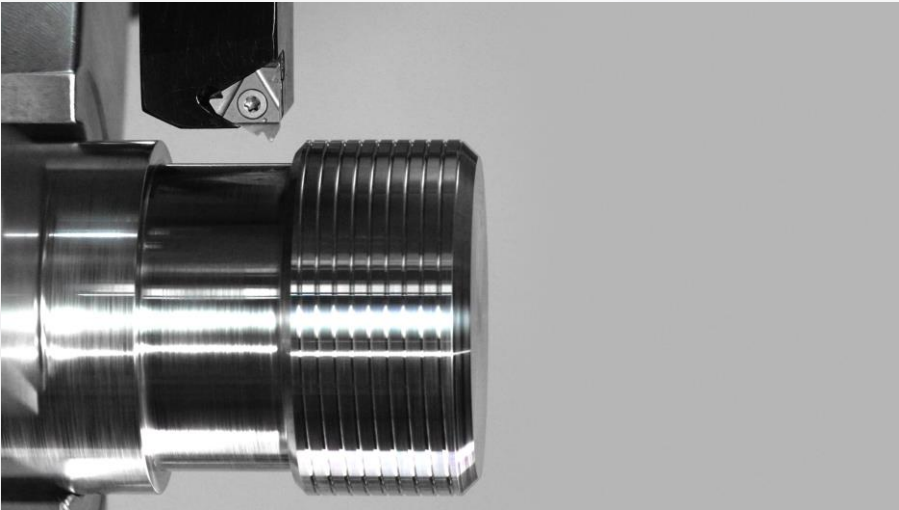


Introducing:

New TT Grade VT10

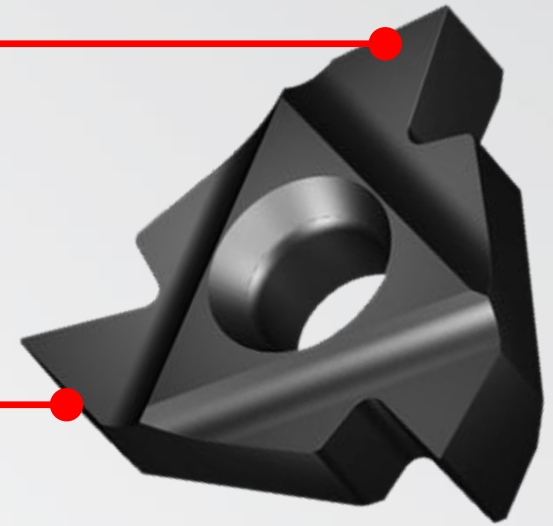
Features:

- General Purpose grade
- Longer tool life (up to 30%)
- High consistency



New Innovative
Surface Treatment

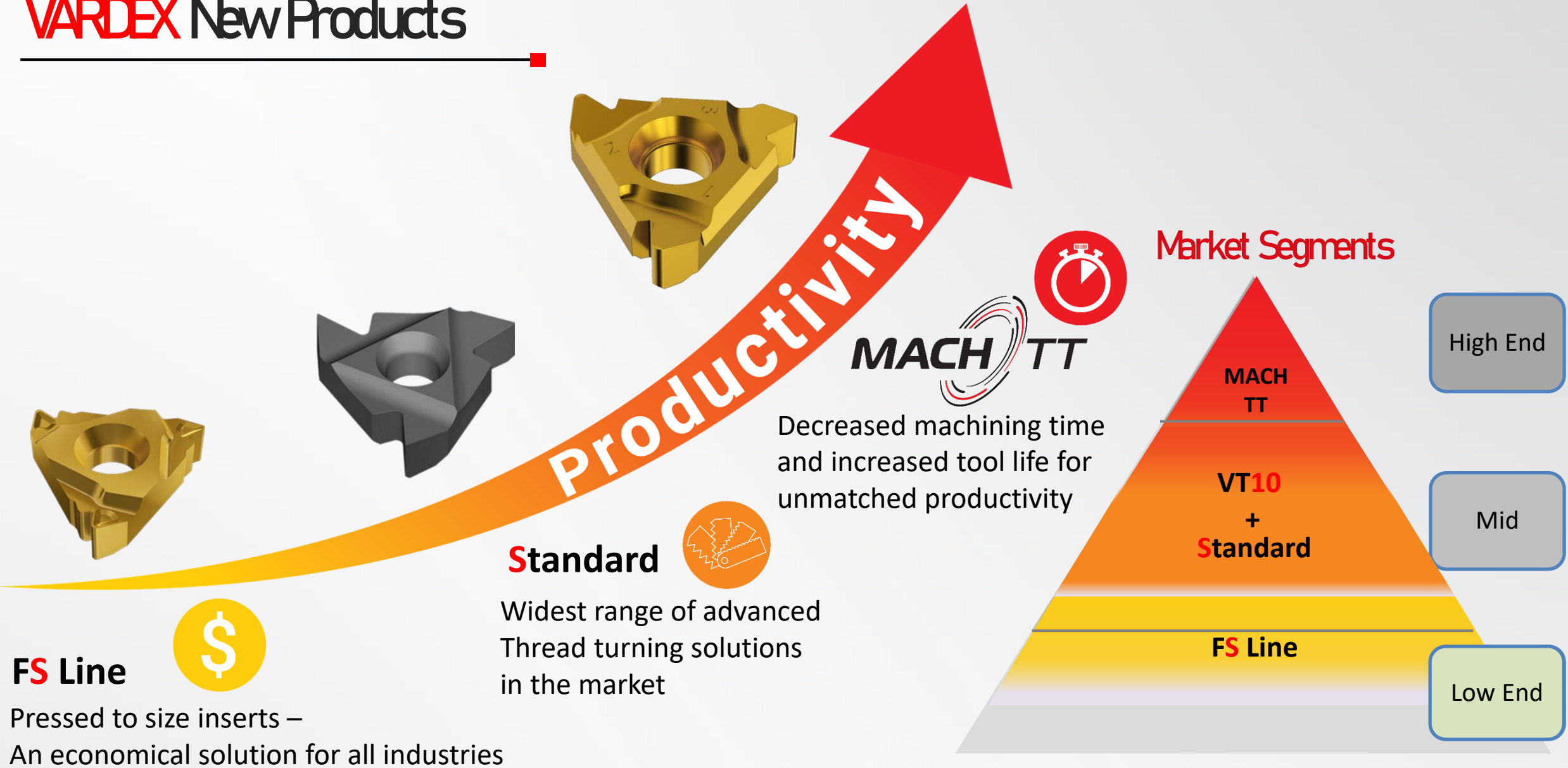
New Grade



Initial Offering:

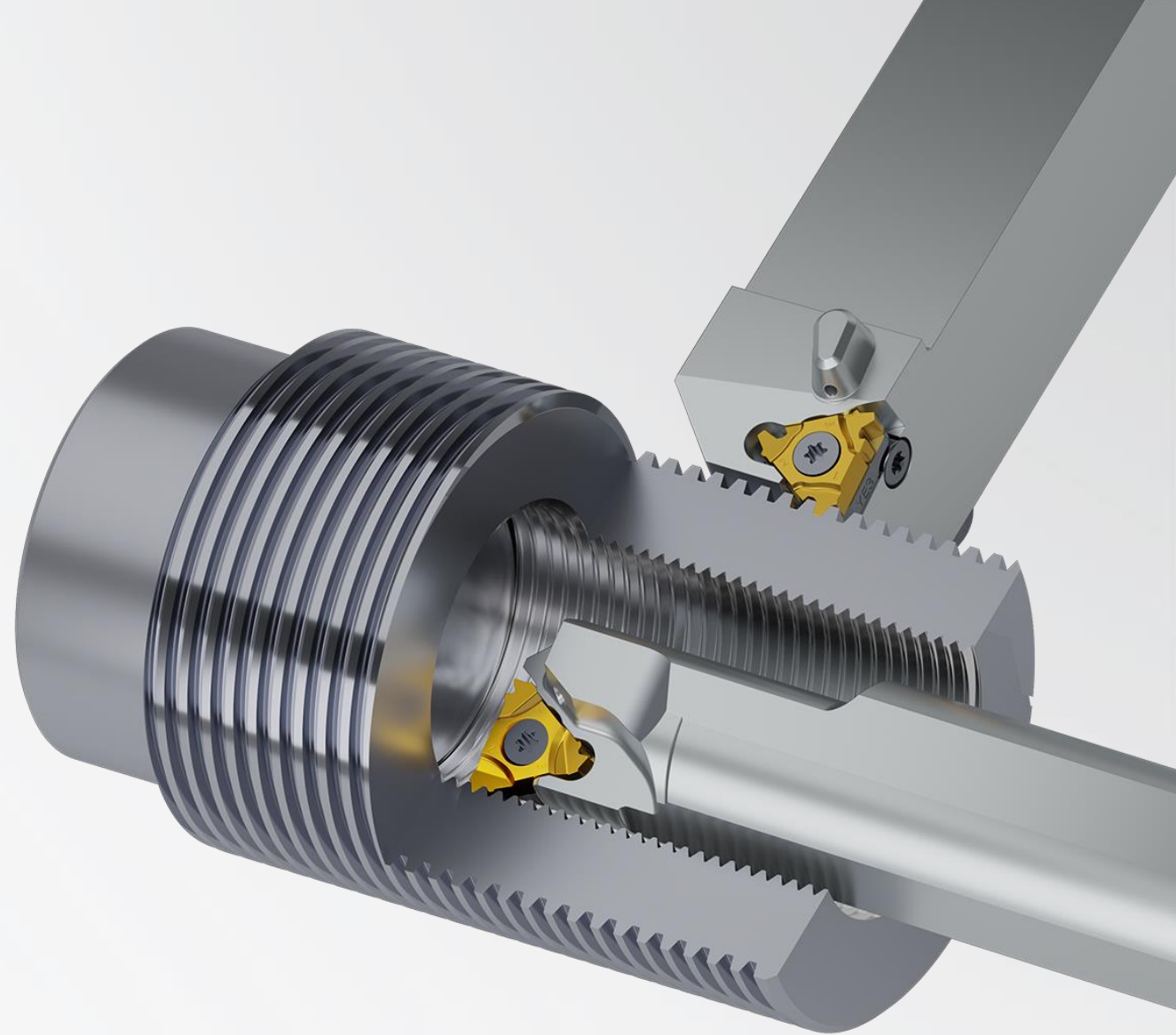
- 46 of the most popular IC 3/8" profiles
- External and Internal applications
- Additional profiles according to demand

VARDEX New Products

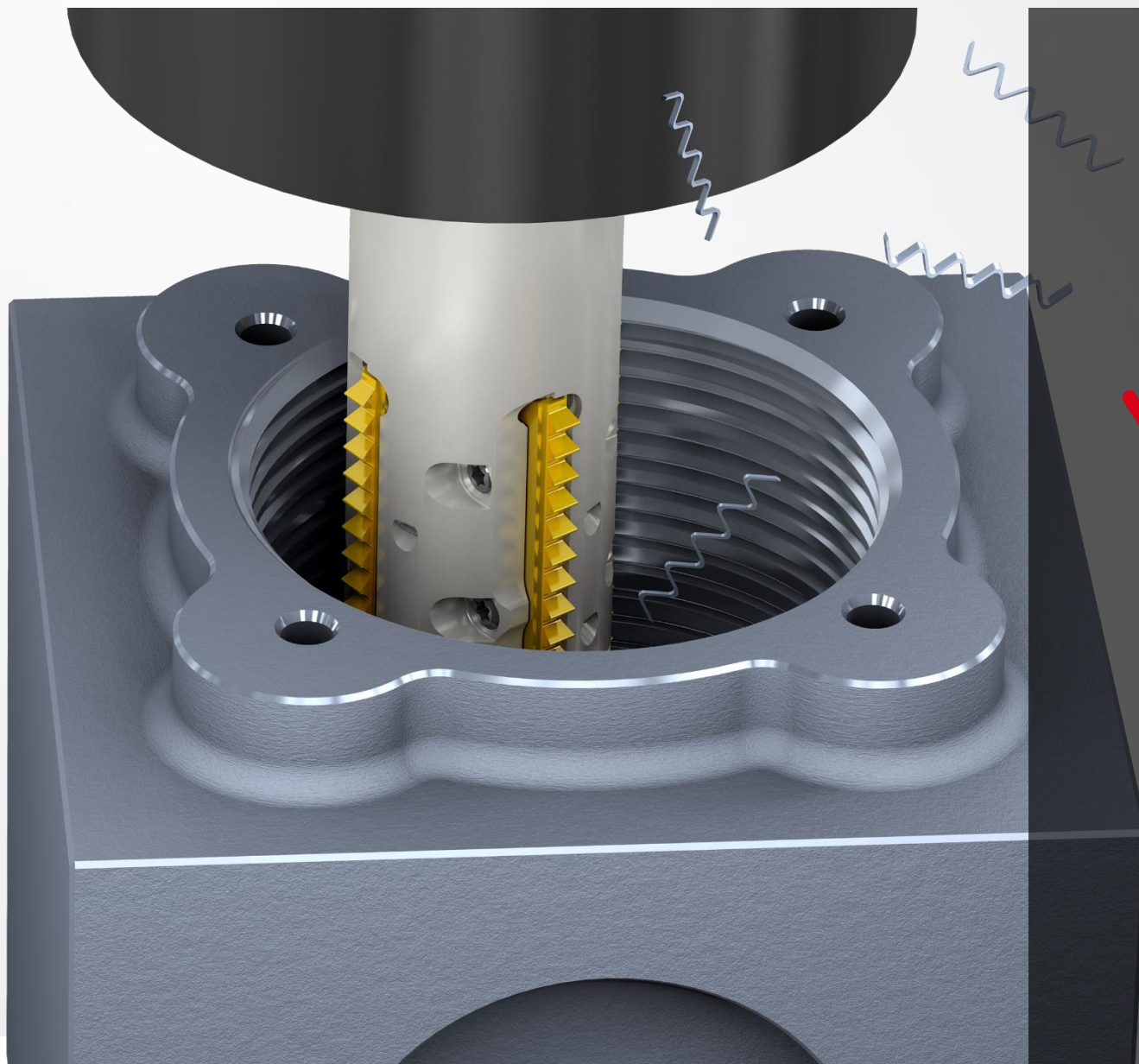




External & Internal





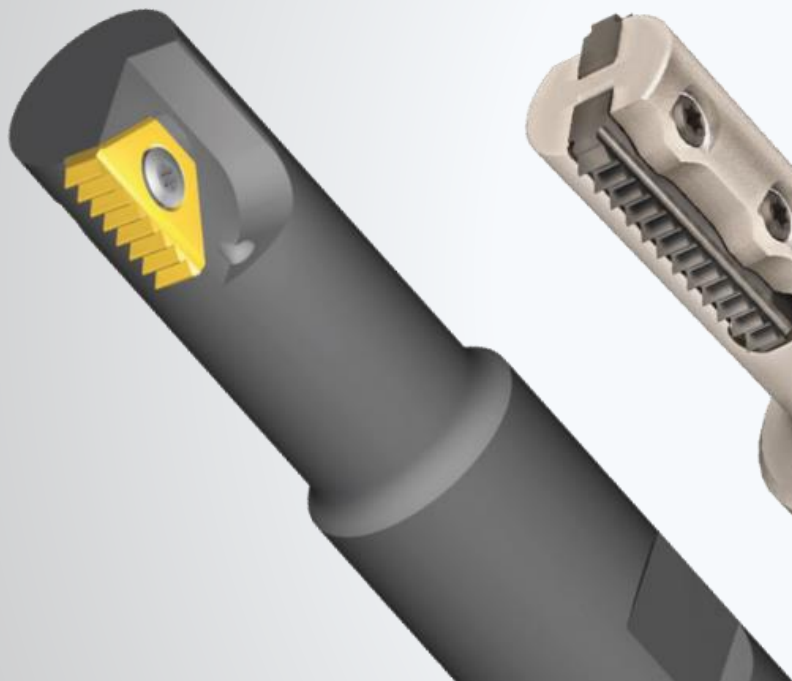


VARDEX

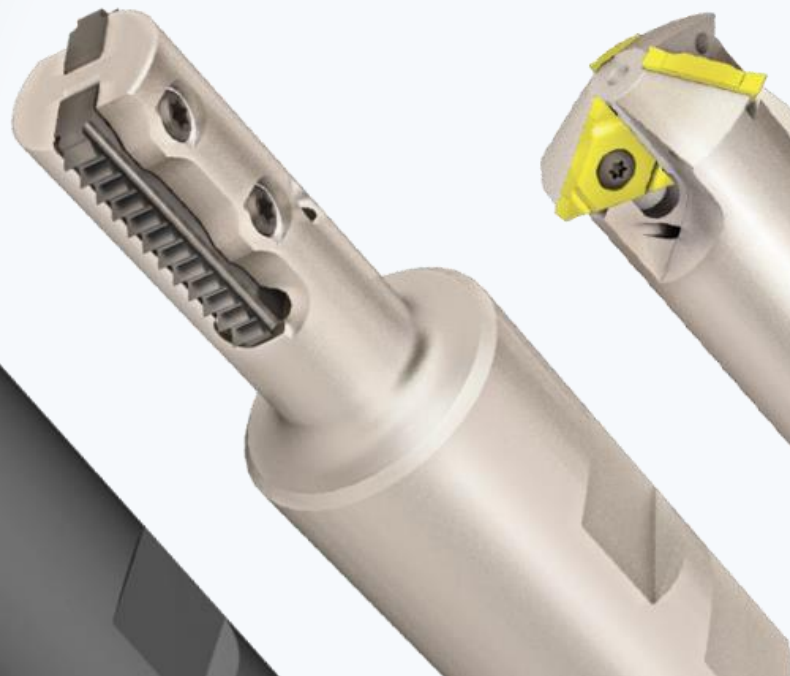
Advanced Threading Solutions

Thread Milling

Standard



MITM



TMSD



TM Solid

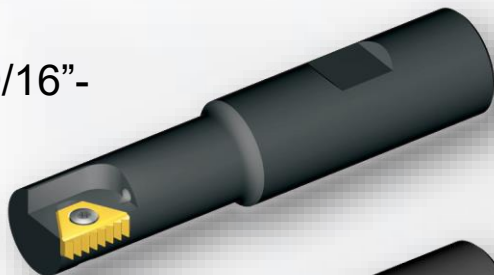


VARDEX TM
System

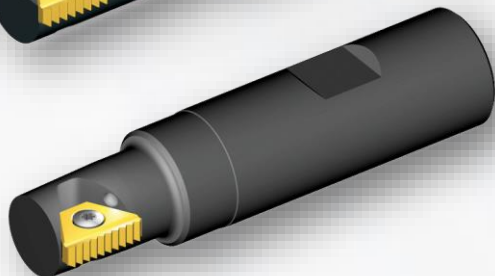
TM Standard | FAMILIES



TMC-Standard
From M15x1.0 (9/16"-32UN)



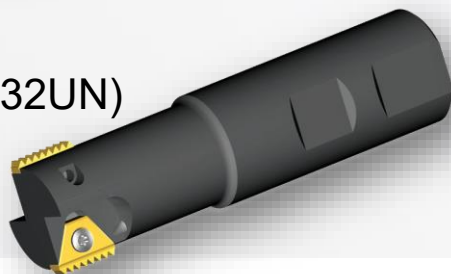
TMNC-Conical
From 1/4x18NPT



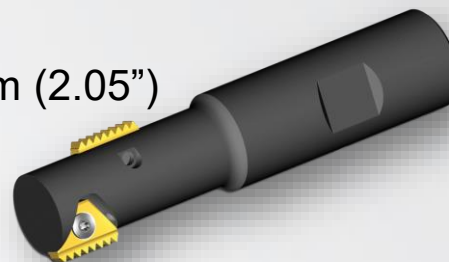
TMLC-Long 98mm (3.86")Max.
From M15x1.0 (9/16"-32UN)



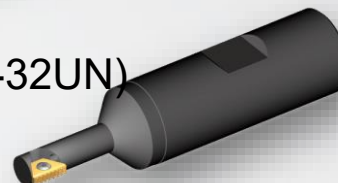
TM2C-Fast
From M22x1.5 (3/4"-32UN)



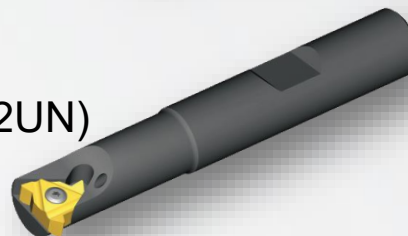
TMOC-Offset
ECL max. 50.8mm (2.05")



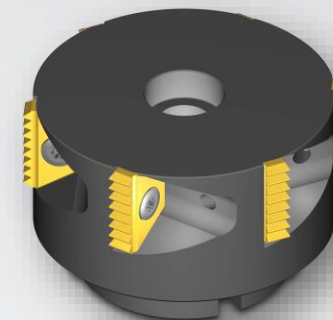
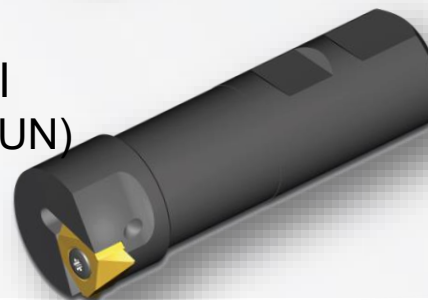
TMMC-Mini
From M10x0.75 (7/16"-32UN)



TMSC-Single
From 0.35ISO (72UN)



TMVC-Vertical
Up to 6.0ISO (4UN)



TMSH-Shell Mill
From M45x1.5
(1 11/16-20UN)

Thread Milling - MiTM



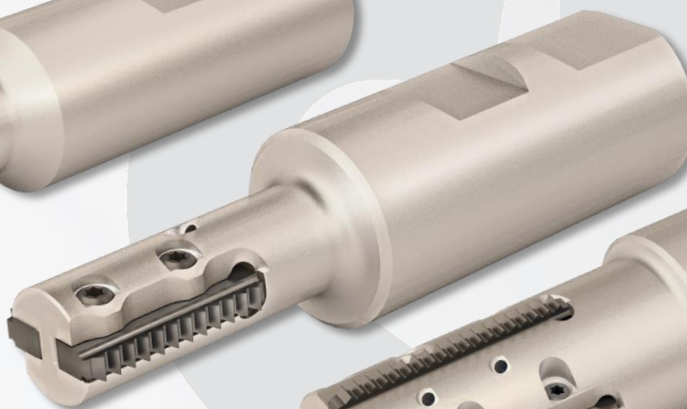
MiTM 19 (A)
For Small Bores



MiTM 24 (M)
For Medium Bores



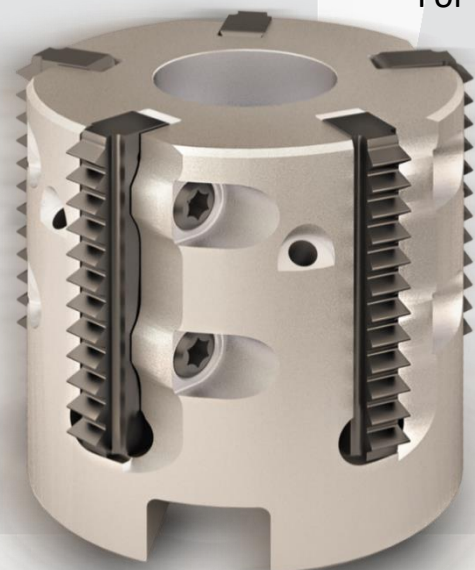
MiTM 25 (S)
For Standard Applications



MiTM 40 (L)
For Long Threads



MiTM 41 (B)
For Large Pitches



MiTM
Super Fast Thread Milling System

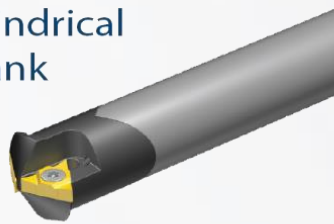
Tool Range

U Style For Large Pitches

Weldon
Shank



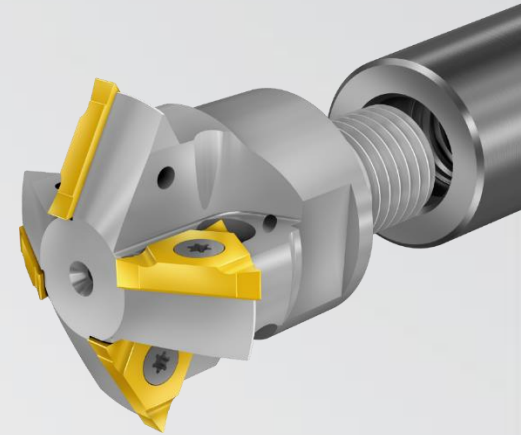
Carbide
Cylindrical
Shank



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

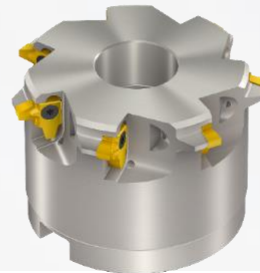
Weldon
Shank



Carbide
Cylindrical
Shank



Shell
Mill



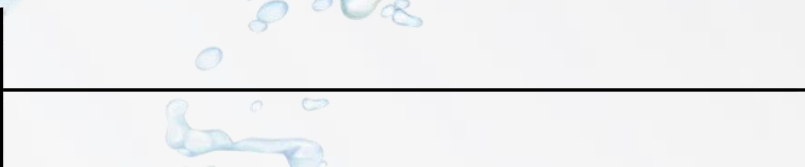
A Style For Shorter L2

Steel
Cylindrical
Shank



TM Solid

Solid Carbide Thread Milling Tools



Thread Milling – Tömörkeményfém

Teljes kínálat:

Helicool



M3x0.5-től

HC MultiFlute



HCN



Helicool - R



M6x1.0-től

Helicool - C



M6x1.0-től

HTC



M6x1.0-től

Helical



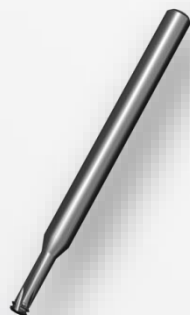
M3x0.5-től

MilliPro



M1.6x0.35-től

MilliPro HD



M2x0.40-től

MilliPro Dental



M1x0.25-től

TMDR



M3x0.5-től

Straight



M3x0.5-től

Deep Thread

M5x0.5-től részprofil

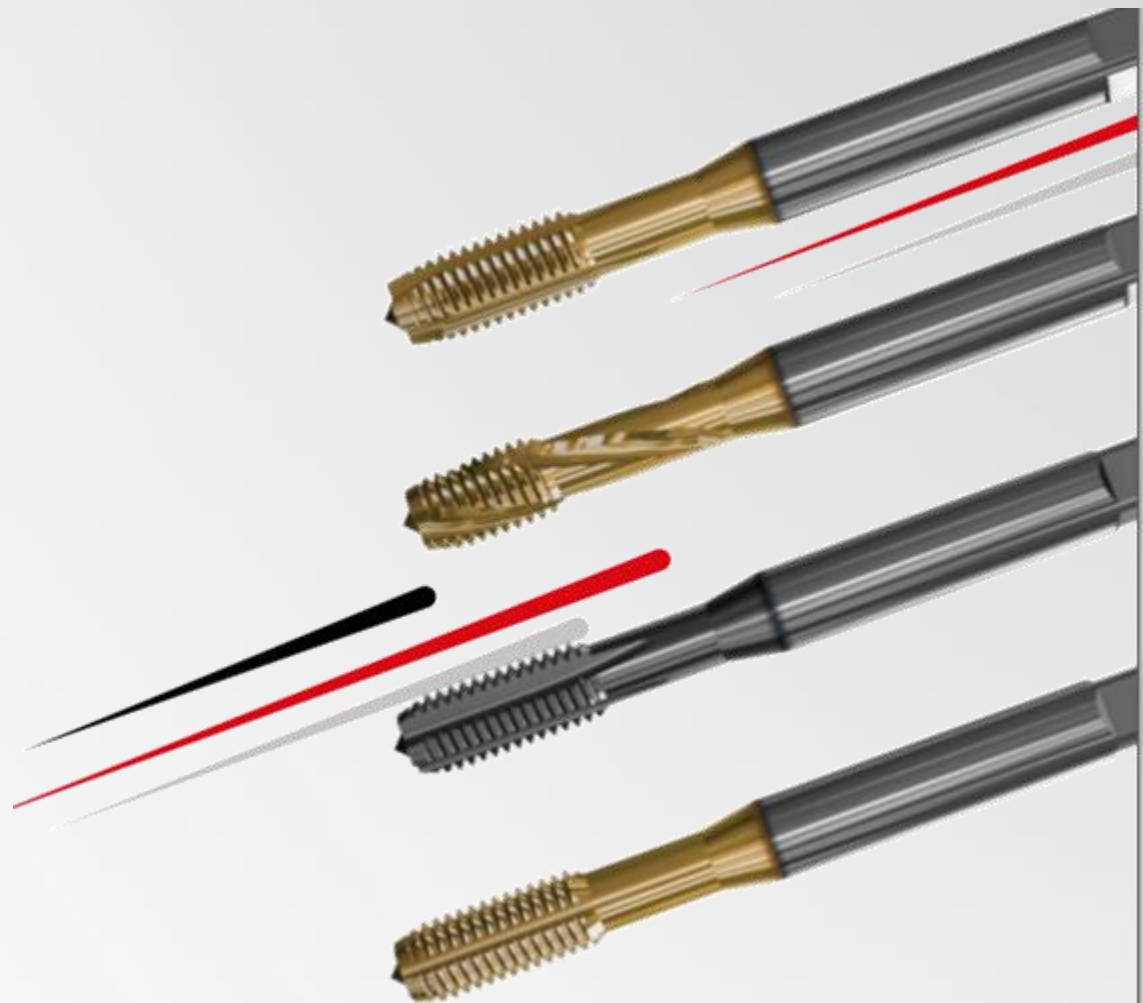


M1x0.25-től



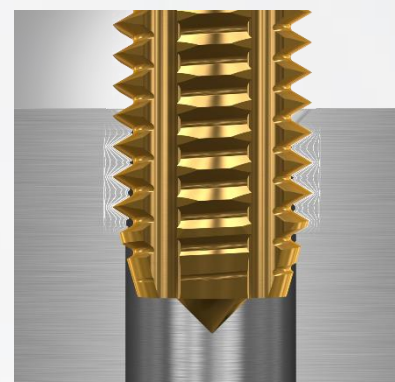
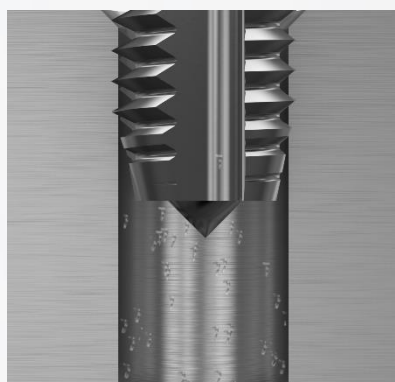
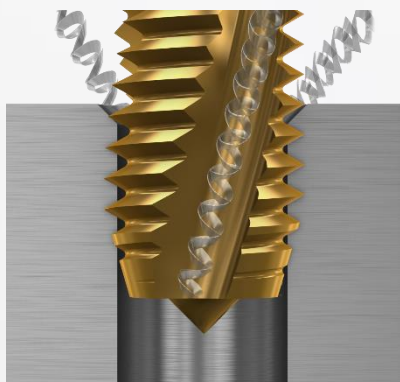
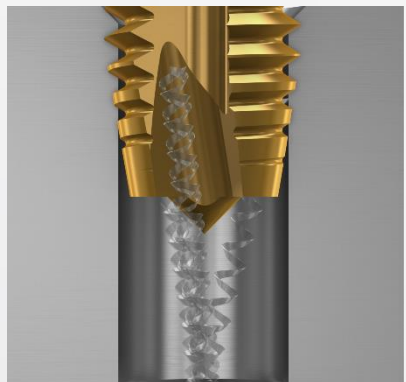
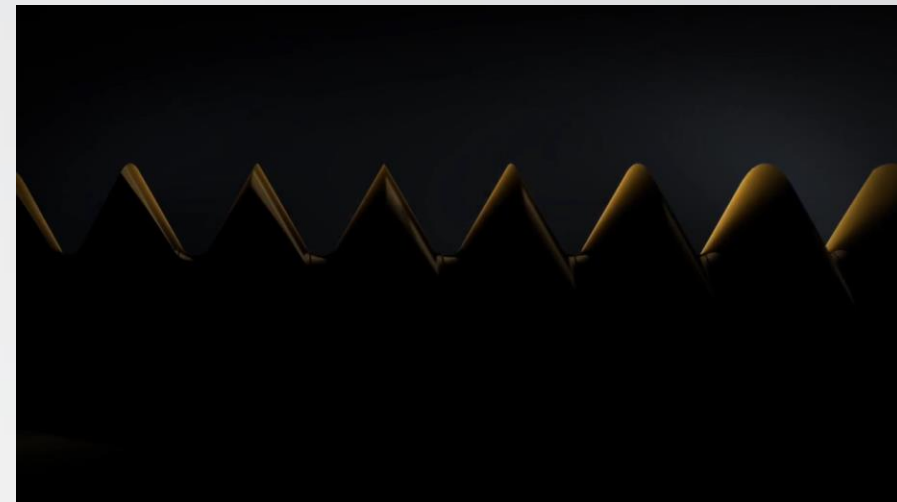


V-TAPS



V-Taps line:

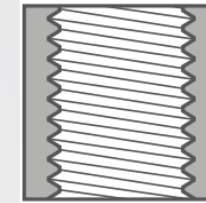
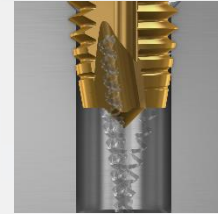
- **Straight Flutes with Spiral Point -**
ISO Metric | American UN
- **Spiral Flutes**
ISO Metric | American UN
- **Straight Flutes**
ISO Metric
- **Cold Forming**
ISO Metric



V-Taps - Range

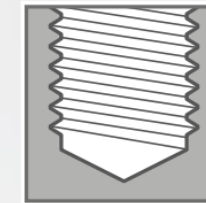
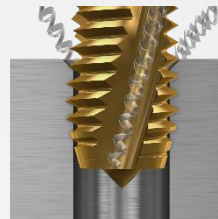
Straight Flutes with Spiral Point (HSS-E)

- ISO Metric (M) M2x0.4 - M20x2.5
- ISO Metric (MF) MF4x0.5 - MF20x1.50
- American UN (UNC) No.4 x40TPI – 1"x 8TPI
- American UN (UNF) No.4 x48TPI – 1"x 12TPI



Spiral Flutes (HSS-E)

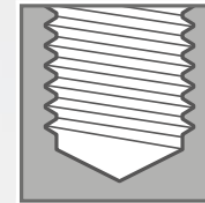
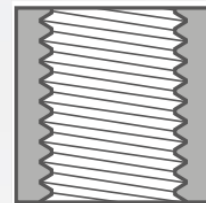
- ISO Metric (M) M2x0.4 - M20x2.5
- ISO Metric (MF) MF4x0.5 - MF20x1.50
- American UN (UNC) No.4 x40TPI – 1"x 8TPI
- American UN (UNF) No.4 x48TPI – 1"x 12TPI



Straight Flutes (HSS-E)

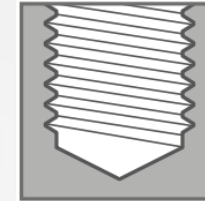
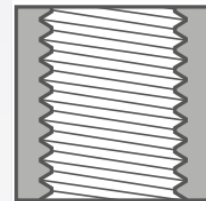
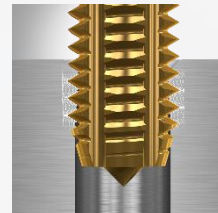
- ISO Metric (M) M3x0.5 - M20x2.5

Straight flutes for short chipping materials blind and thru holes. The chips are collected in the flute.



Cold Forming

- ISO Metric (M) M2.5x0.45 - M20x2.5 (**HSS PM**)



V-TAPS

Expanding the offering:

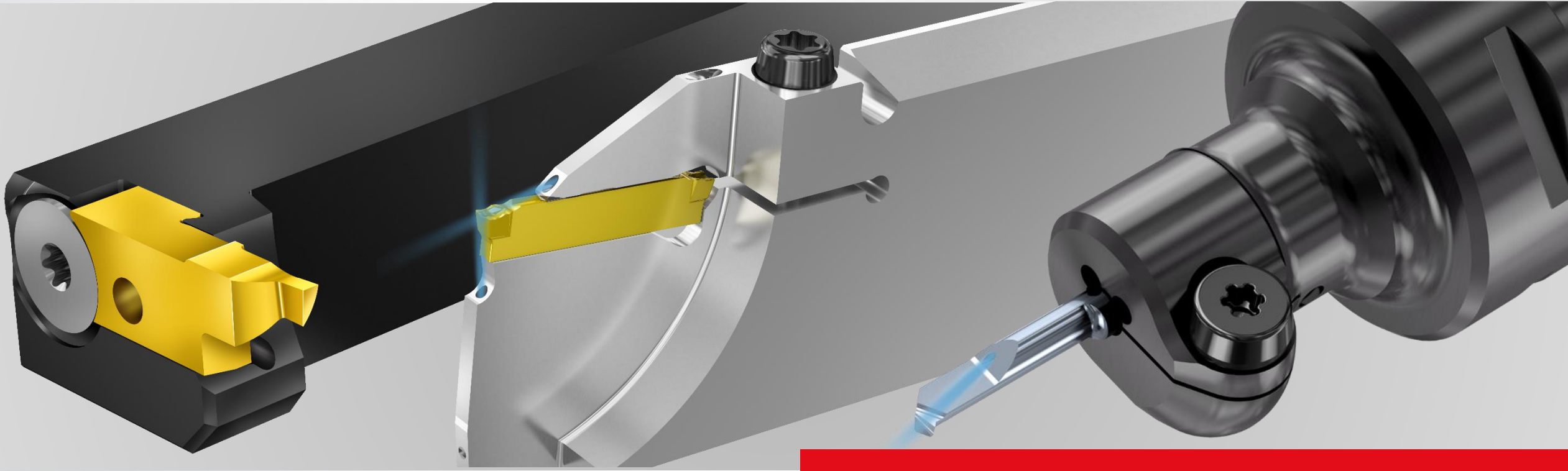
- **BSP (G)** – HSS-E Taps –
Straight Flute with Spiral Point
Spiral Flute
 - VHB – Black oxide coating
 - VHC – TiCN coating
- **NPT** – HSS Taps
Straight Flute
 - VHB – Black oxide coating





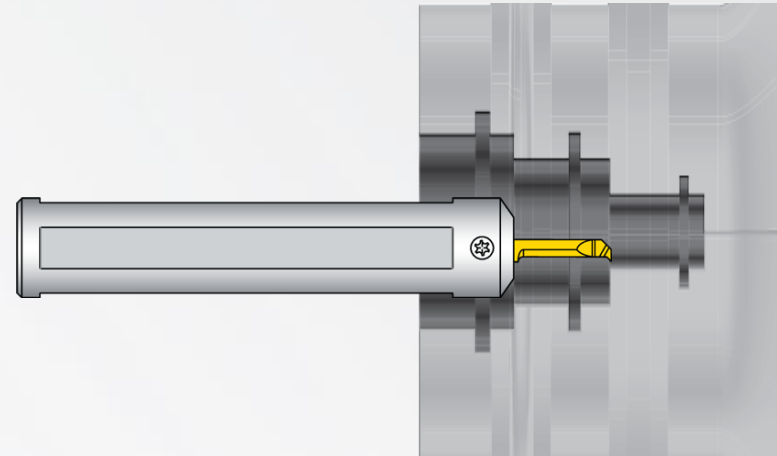
GROOVEX

Innovative Grooving & Turning Solutions



microscope

Solutions for Boring, Grooving,
Profiling and Threading in
Miniature Bores



microscope System

Simple Clamping System

Simple and fool-proof.

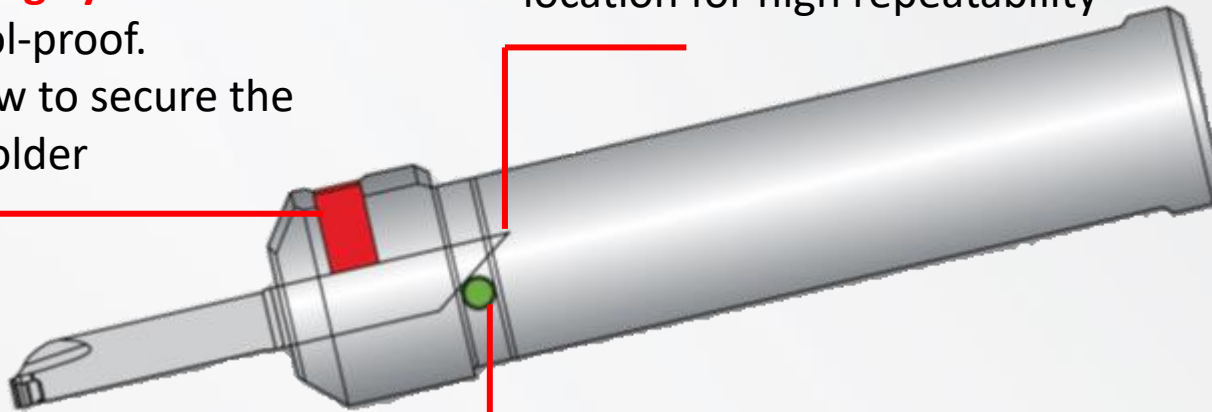
One large screw to secure the insert in the holder

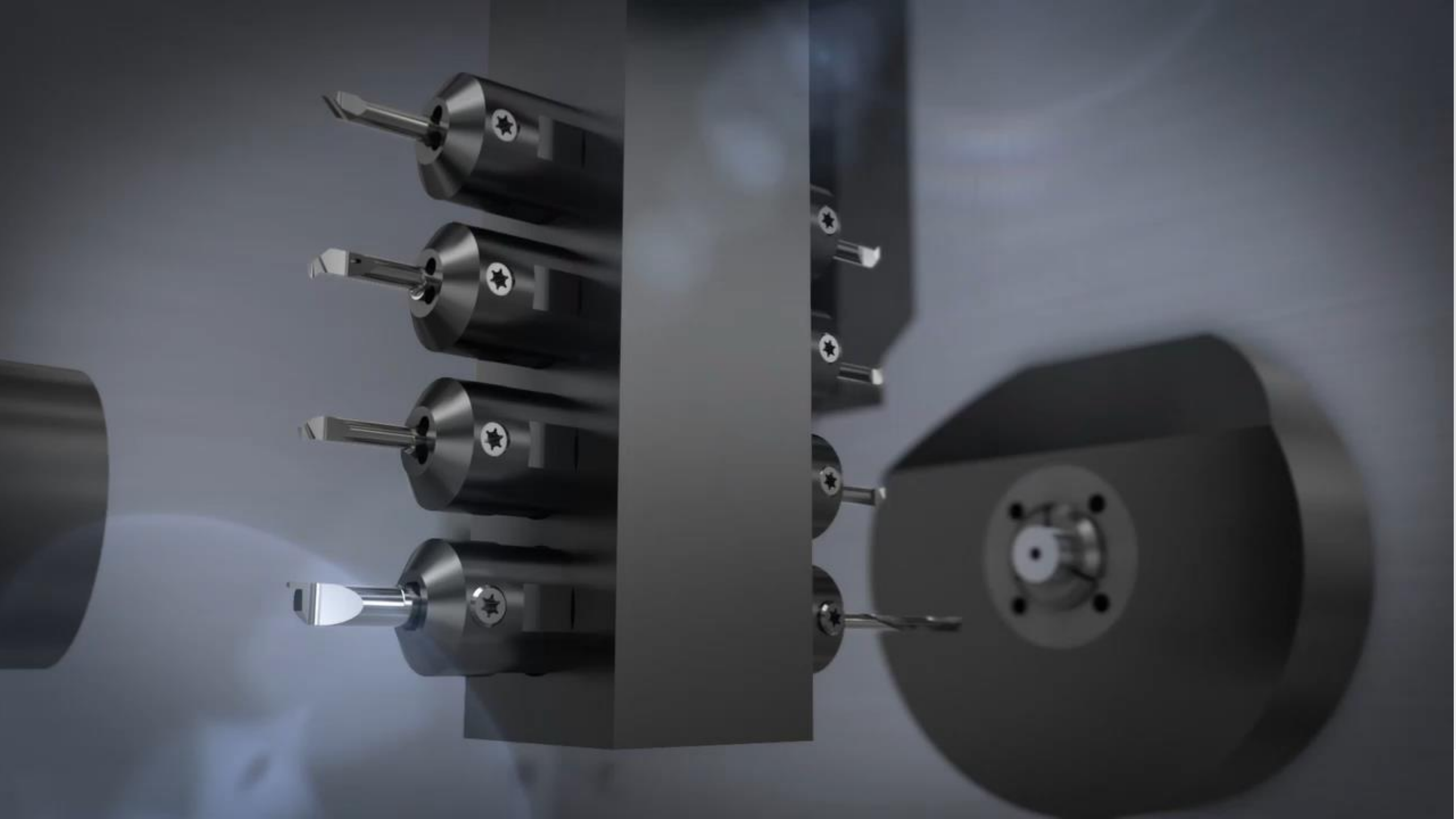
Slanted Insert Design

Provides exact radial insert location for high repeatability

Stopper Pin

Provides precise cutting edge height and perfect axial location

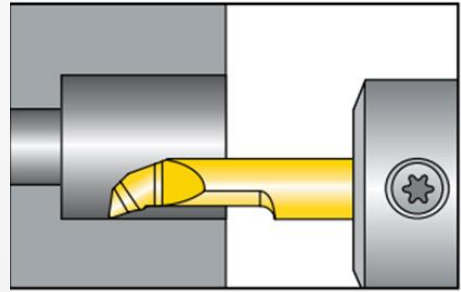




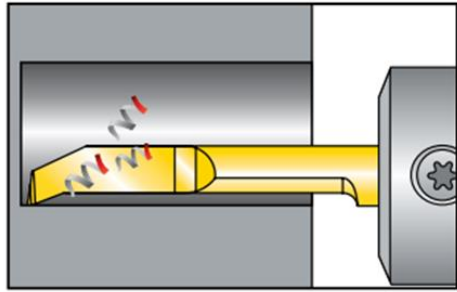
Boring Solutions with microOscope

Boring (BC)

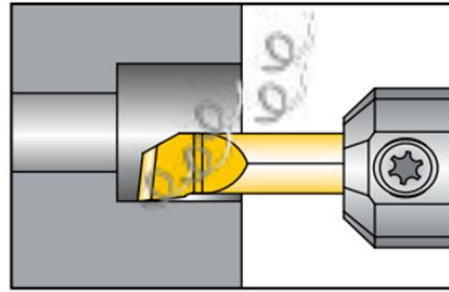
Boring



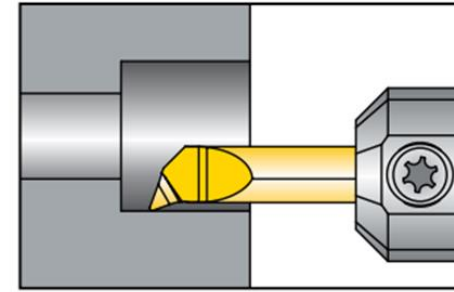
Boring with
Chip Breaker



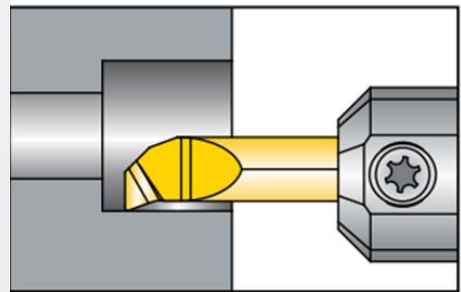
Boring with
Chip Former



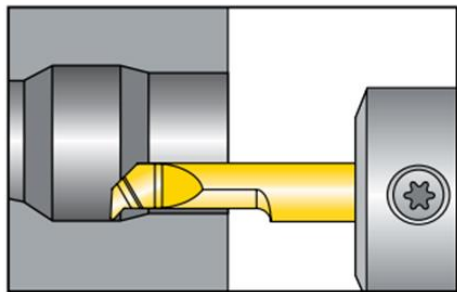
Boring 20°



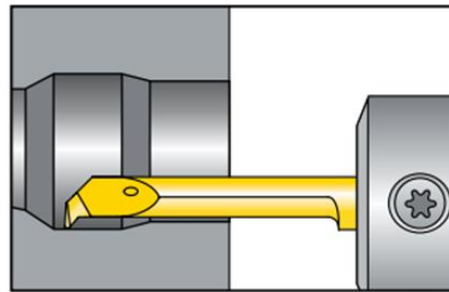
Boring 90°



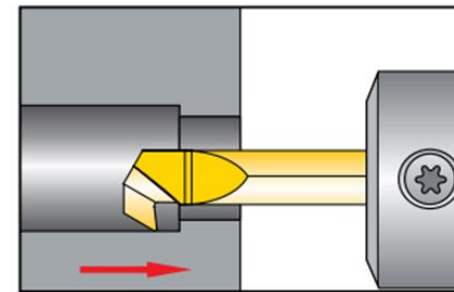
Boring & Profiling
(CL)



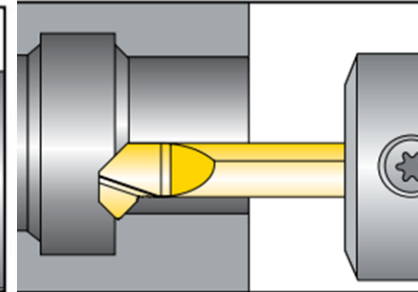
Boring & Profiling with
Chip Breaker (CBL)



Back Boring



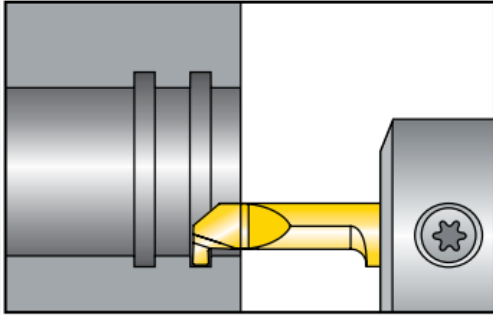
Boring &
Chamfering



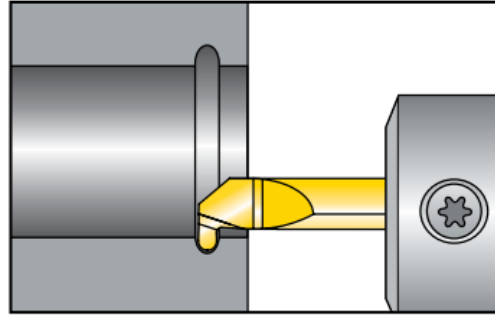
GROOVING Solutions with **microscope**

GROOVING

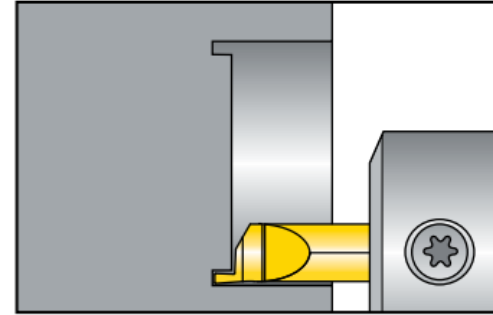
Square Grooving



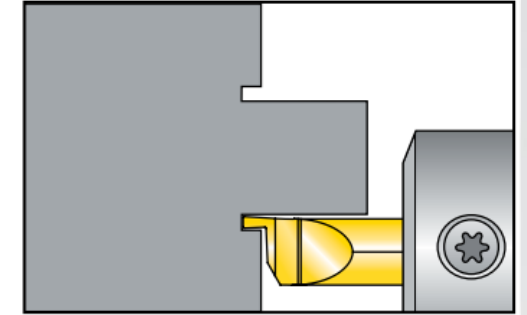
Round Grooving



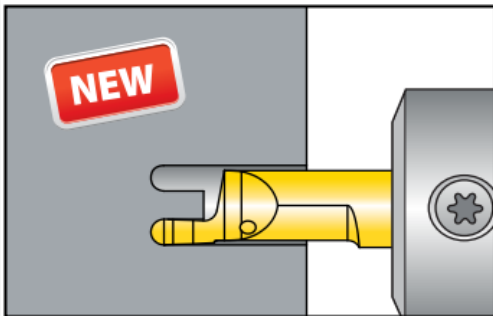
Face Grooving Internal



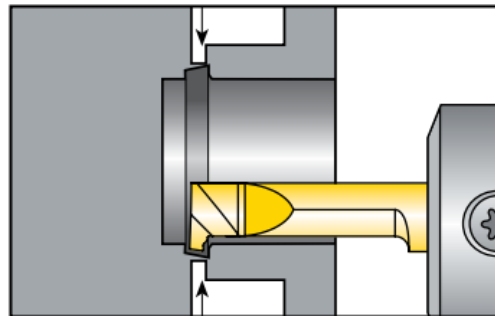
Face Grooving External



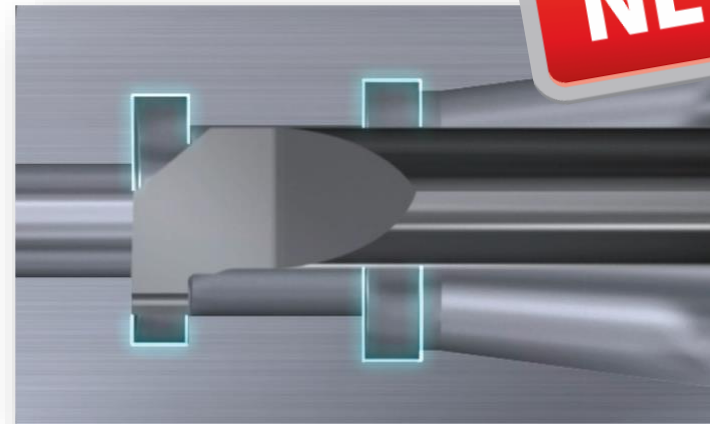
Round Face Grooving Internal



Pre-Part Off

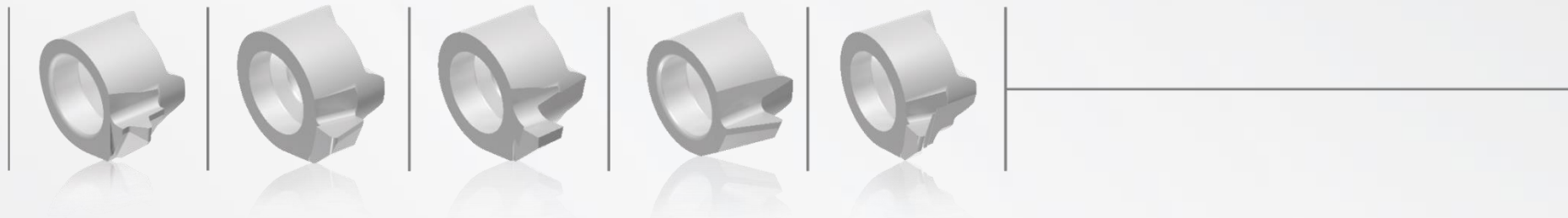


NEW



Introducing **Mini-V**

Solutions for Grooving, Boring, Profiling
and Threading in Bores from 8mm and up



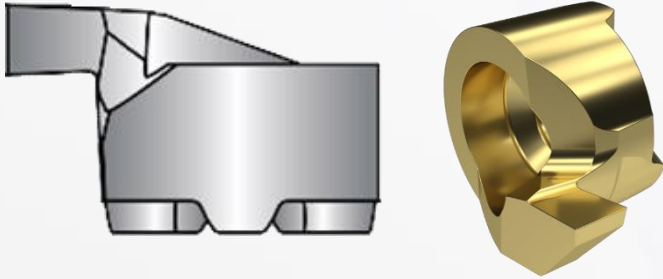
Mini-V

New Inserts Geometry - Mini-VE for Sizes 08 & 11 Improved Performance and Better Chip Evacuation

NEW

New Geometry

VE08 and VE11 inserts



Previous Geometry

V08 and V11 inserts



Features & Benefits:

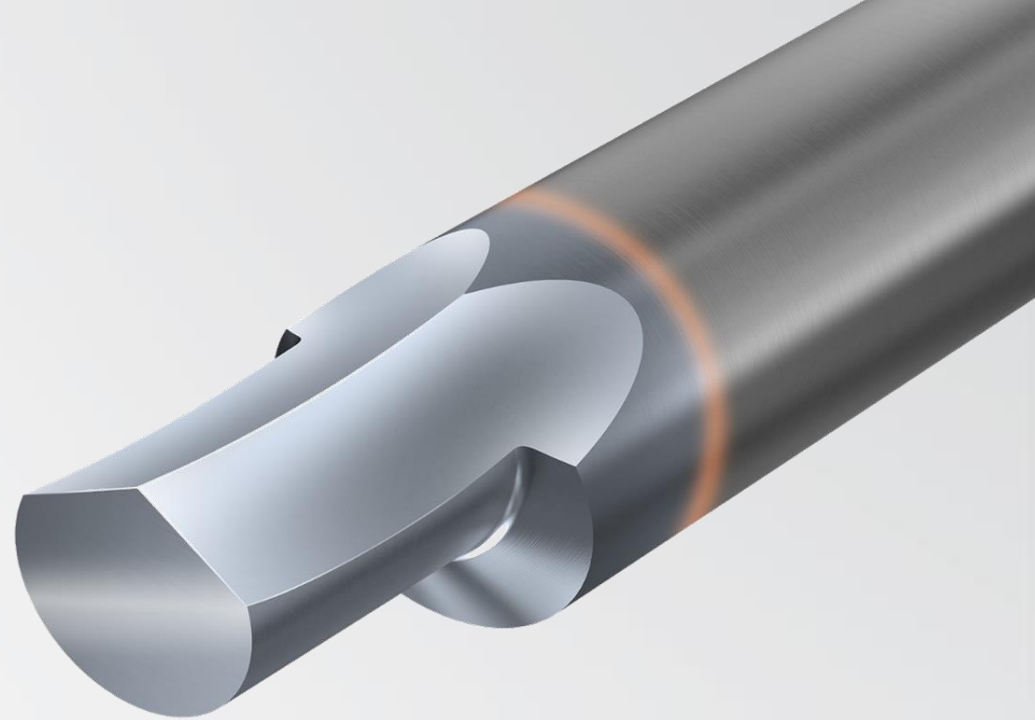
- Better chip evacuation
- Improved performance
- Available for boring, grooving, and threading inserts
- New Mini-VE 08 & 11 left-hand inserts available as standard
- New Mini-VE tools feature two flats for versatile mounting of the tool
- Mini-VE inserts VE08 VE11 can be mounted on both VE & V tools

Ordering Code:

- New Mini-VE inserts and holders are marked with "E"
- Insert example: VE08020BCR VTX | Holder example: CVE08-1221

micro**O**broach

Dedicated broaching tools for
Hexagon and Tork sockets



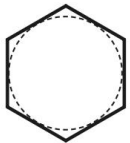
micro**O**broach

- Unique Vargus design
- Fits popular driven tools
- Sockets ranges:



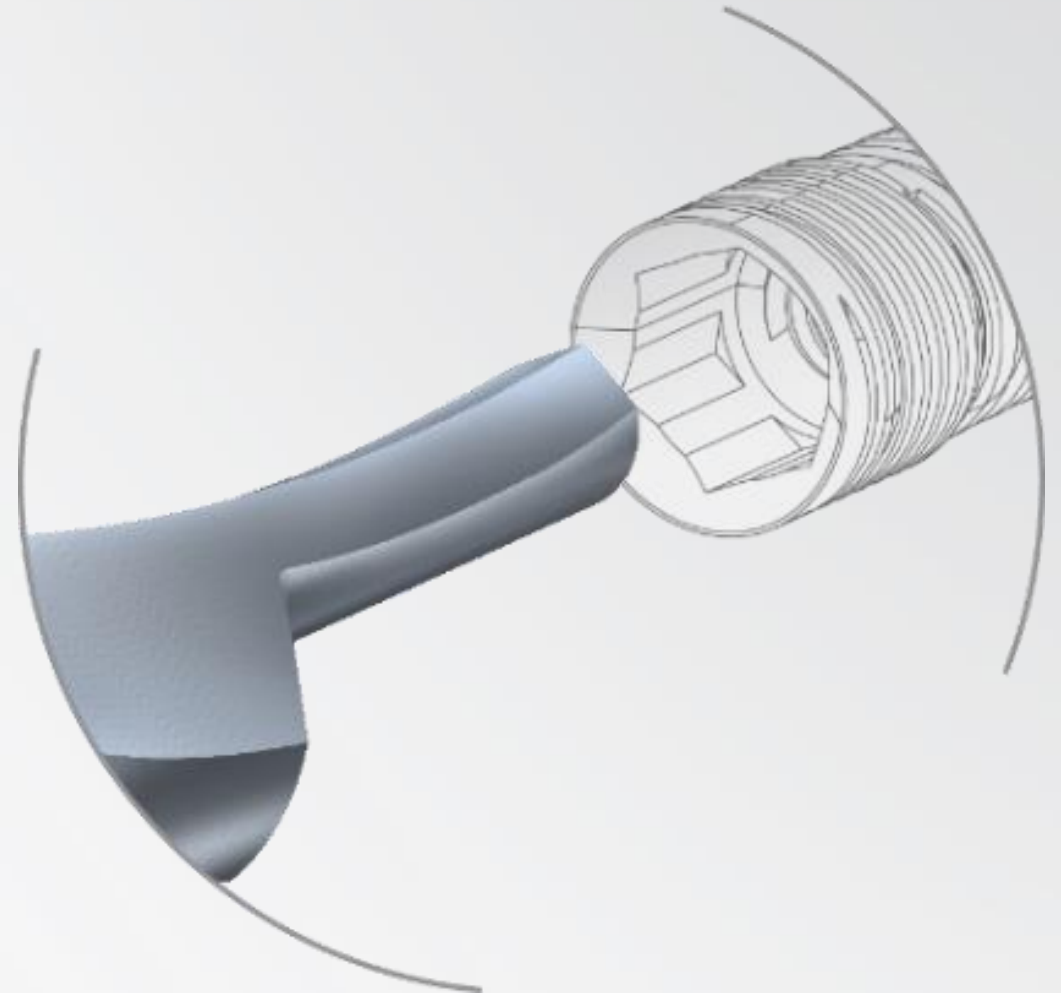
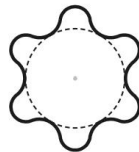
Hexagon sockets

2.5 mm – 10.0 mm



Torx® sockets

TX15 – TX30



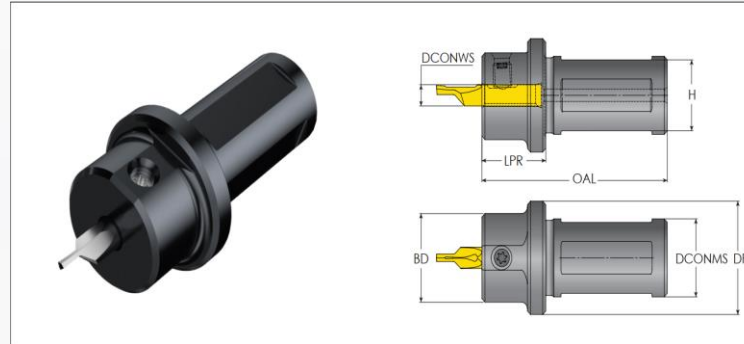
microObroach

HOLDERS

Shank C4f

**BROACHING BY
MACHINE**

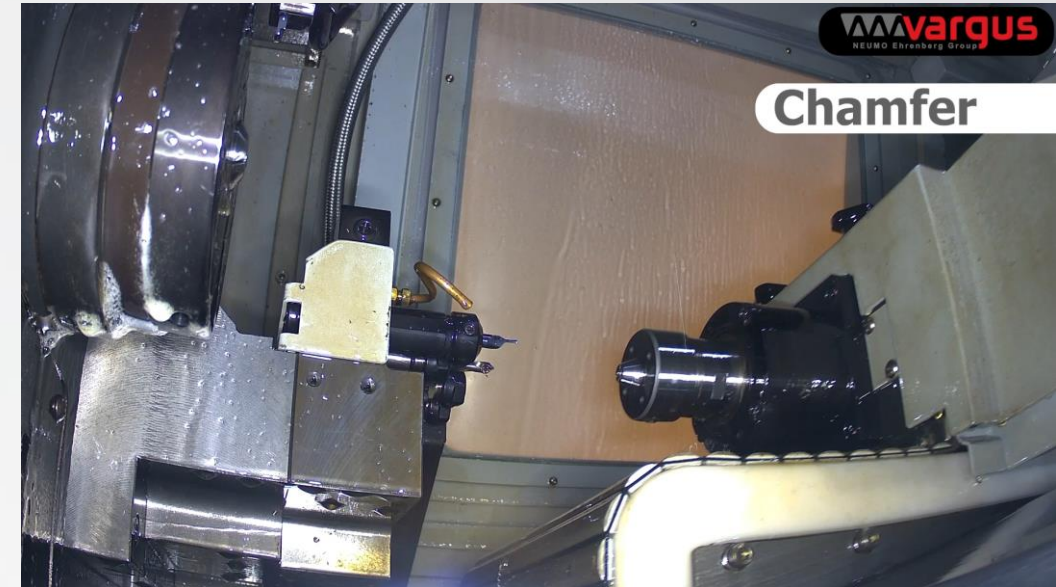
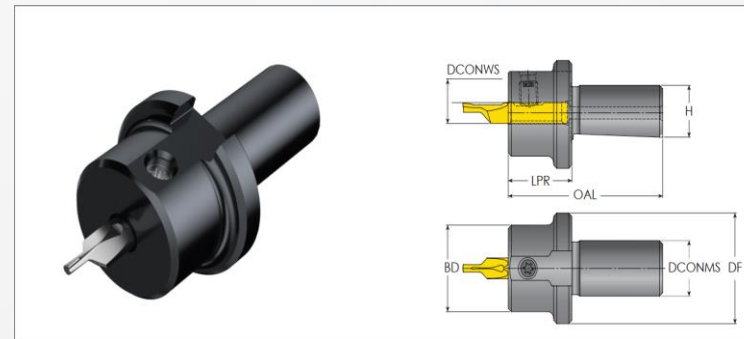
CUTTING SPEED OF 10
M/MIN



Shank BE

**BROACHING BY
DRIVENTOOL**

CUTTING SPEED OF 40-45
M/MIN





GrooVical

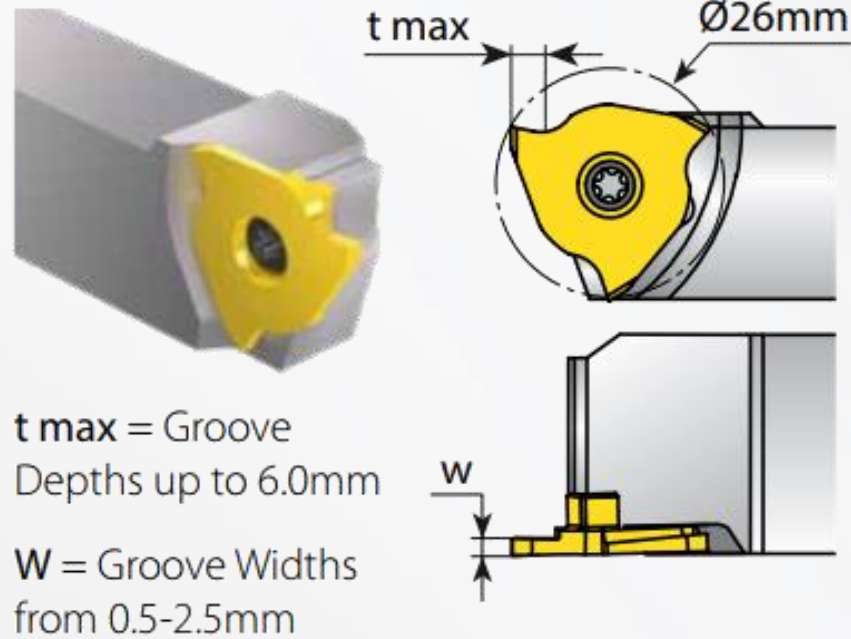
GrooVical

Precise Grooving & Turning Applications

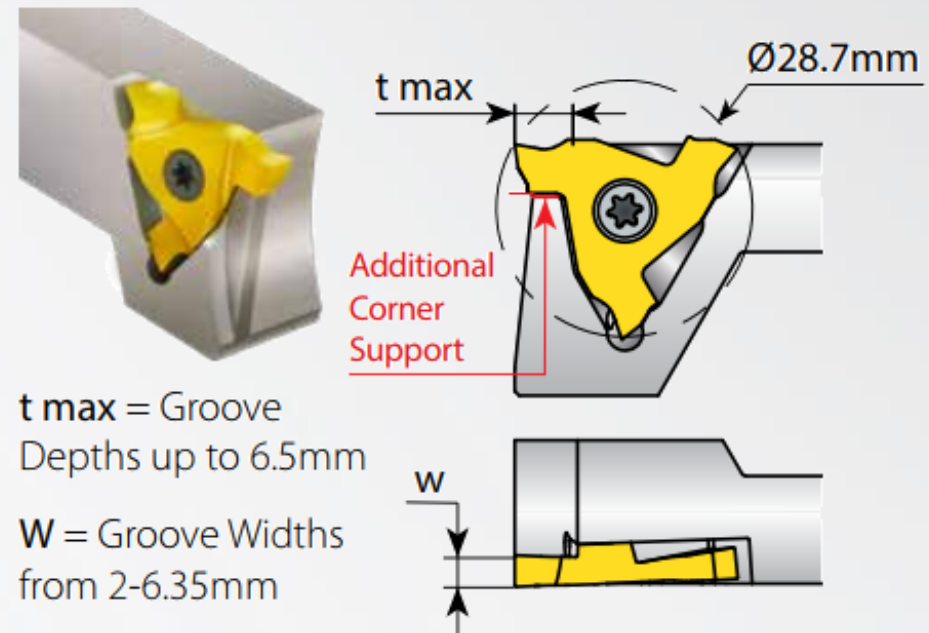
- ✓ New Geometry Structure
- ✓ Left Hand Tools Available as Standard
- ✓ Close to Shoulder Facing & Grooving
- ✓ New Square Grooving & Turning Insert

Precise Grooving & Turning Applications

GVN26



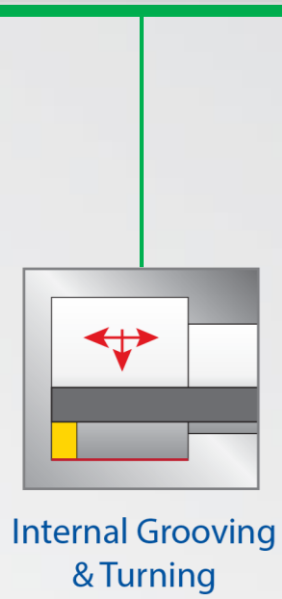
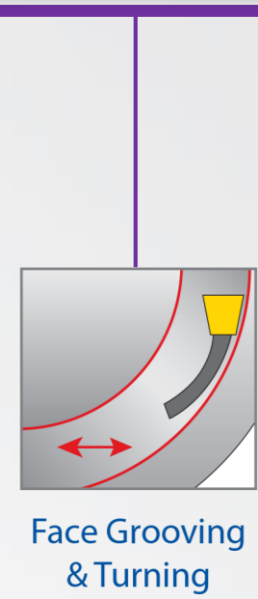
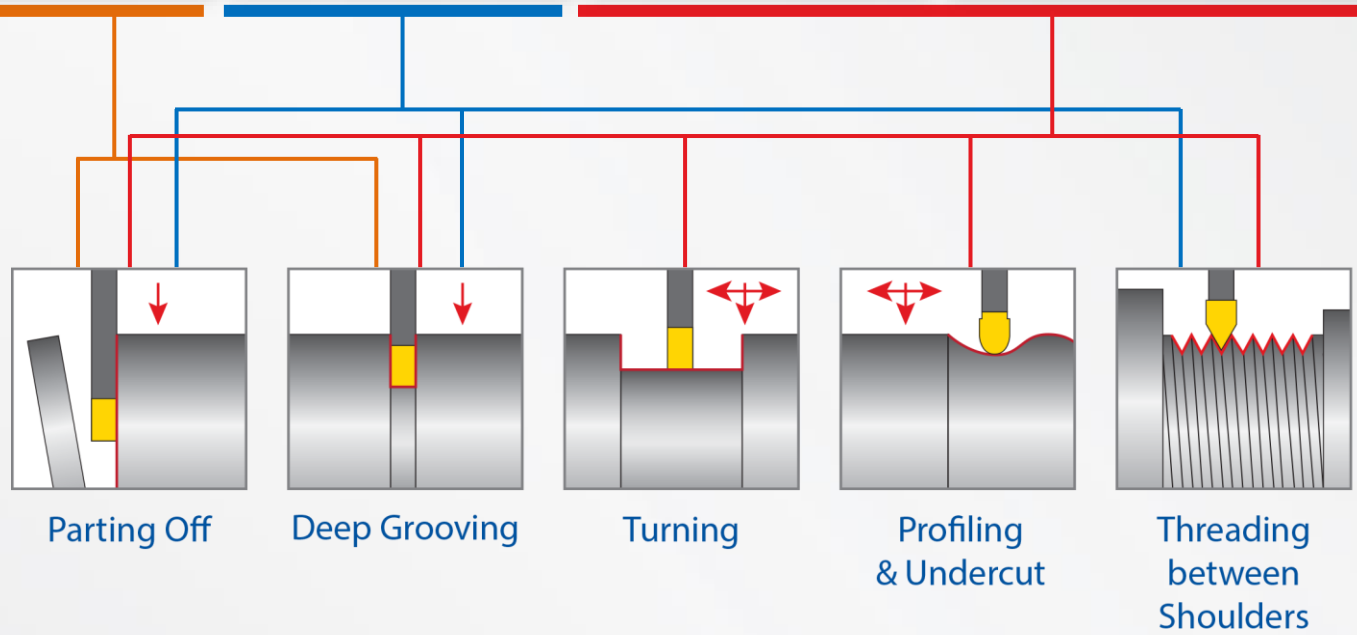
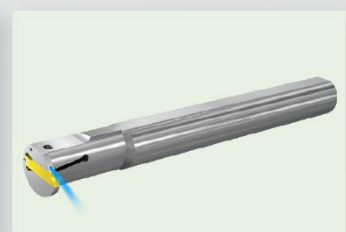
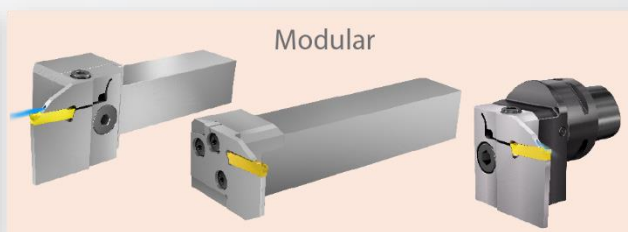
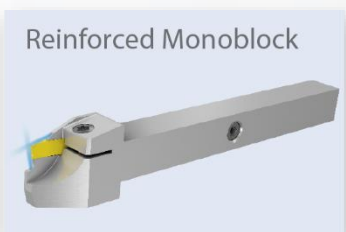
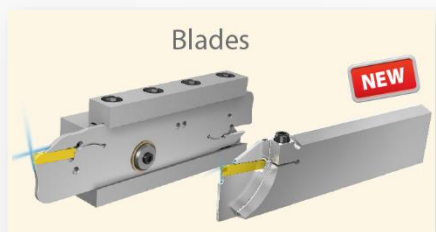
GVN29





VG-Cut

Complete Range of
Turning Solutions



VG-Cut – Inserts

Insert Type

VG**D** - Double Sided
Insert



VG**S** - Single Sided
Insert



Insert Geometry



GT



GP



GM



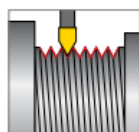
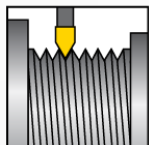
GR

Coating

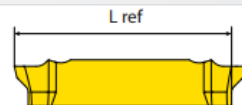
VPG

VMG

VKG



RS/LS Varied range of threading standards for machining between shoulders and close to spindle.



RS Full Profile



LS Full Profile



Partial Profile

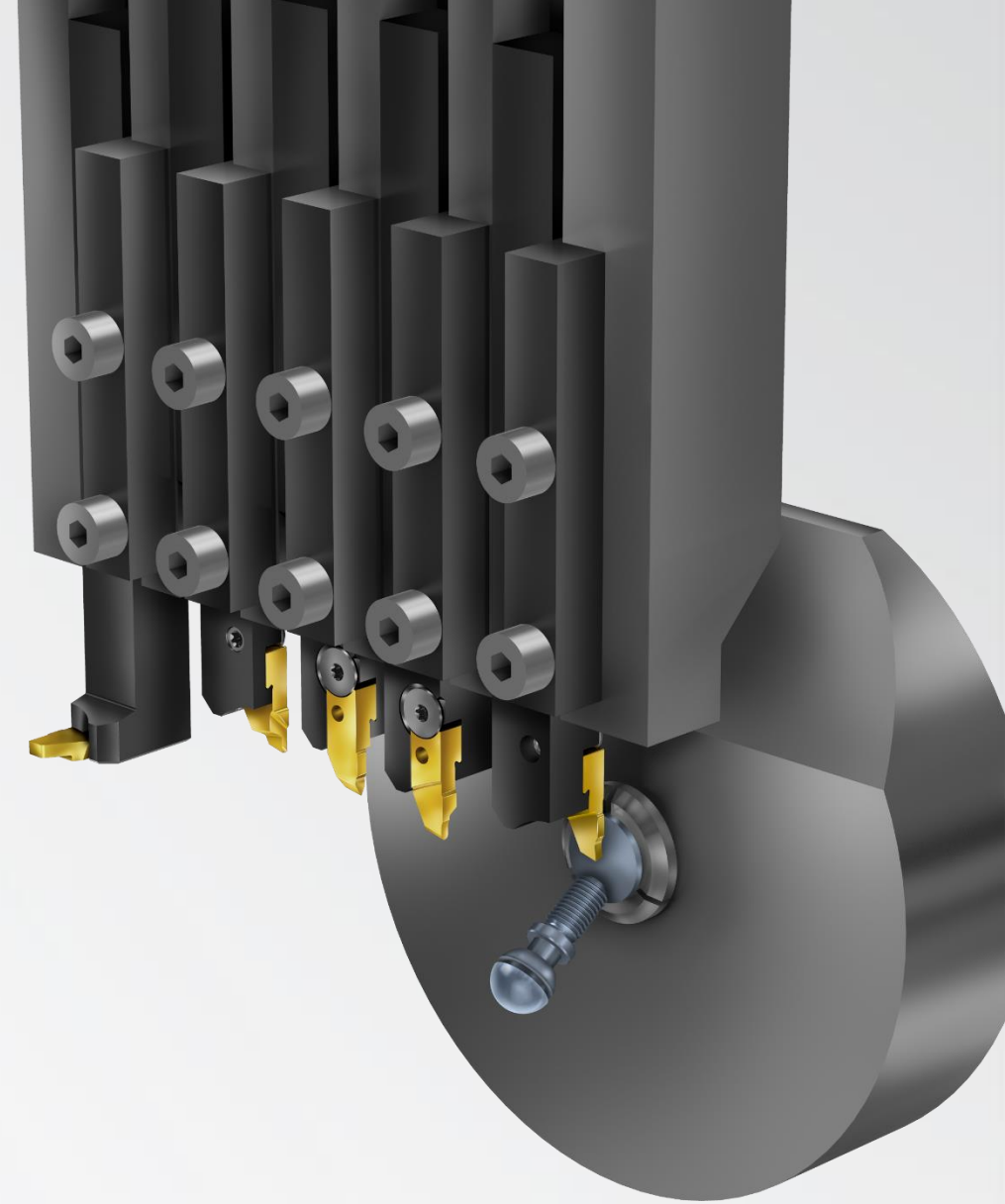
To be used with Monoblock tools (VGE..T08 or T12) or reinforced monoblock tools (PH) only.



- Machining between shoulders and close to spindle
- Maximum shoulder depth of **10.0mm**
- Available Standards:
 - Partial Profile 60°
 - Partial Profile 55°
 - ISO Metric
 - American UN
 - Whitworth
 - NPT

ST-Cut

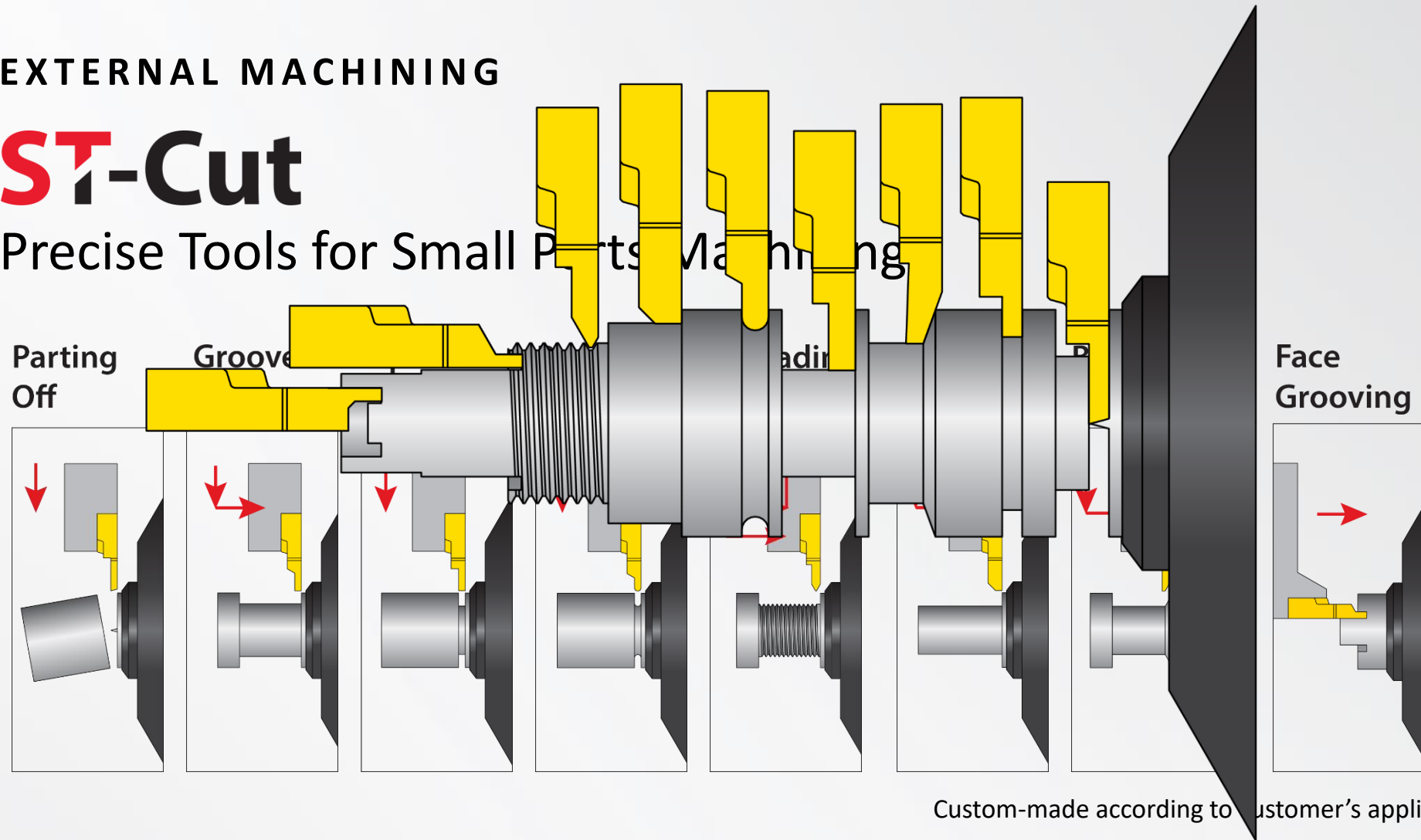
A Solution for External Machining
on Swiss Type Machines



EXTERNAL MACHINING

ST-Cut

Precise Tools for Small Parts Machining



| Introducing

A New **VARGUS** Milestone

V-MILL
Superior Milling Solutions

&

V-DRILL
Accurate Drilling Solutions

Vargus End Mills

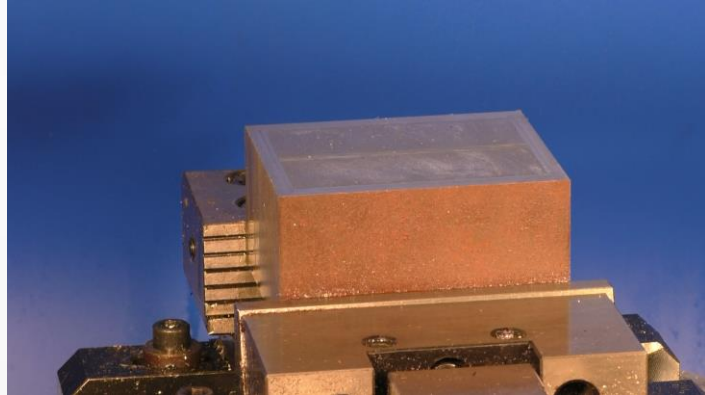
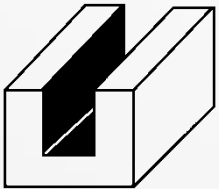
- End mills diameter **from 0,1 mm up to 20.0 mm** (.787")
- **Geometries for roughing applications** /semi-finish and finish
- Solid Carbide end mills for **machining Aluminum** for high metal removal rates and super finishing
- Solid Carbide range for **machining hardened Steel** up to 65 HRC
- **Solutions for special /Semi-standard tools** High quality and fast delivery



Milling – Main Applications

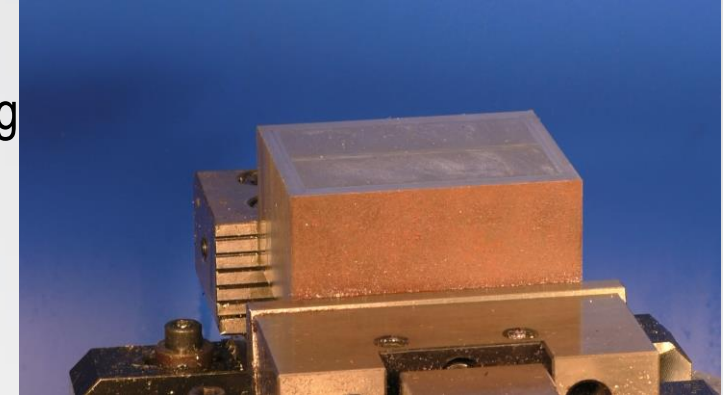
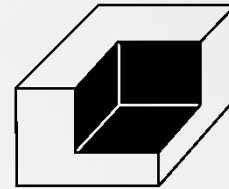
Roughing

Side Pocket Milling



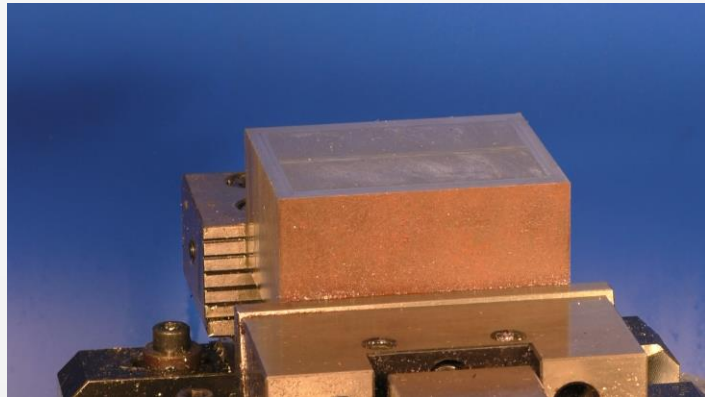
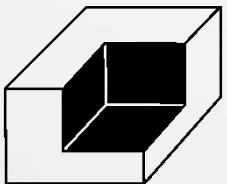
Semi-Finish

Shoulder Milling

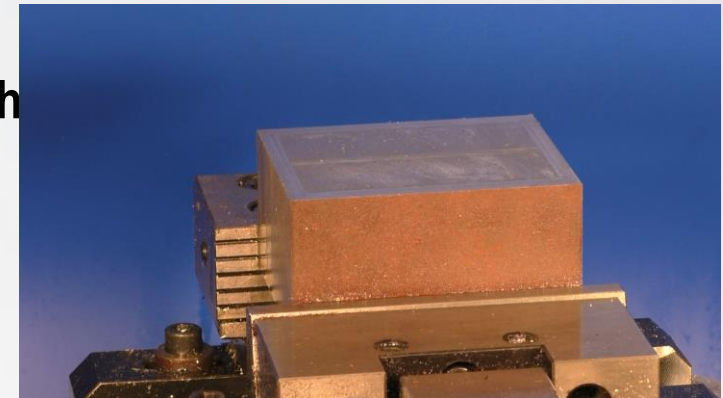


Finishing

Pocket Milling



Profiling Finish



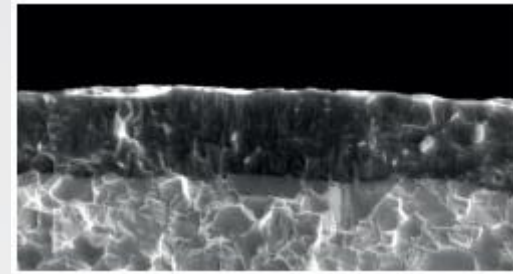
NANO Substrate and Coating Technologies

VM9 Universal High Performance AlCrSiN

(Aluminum Chromium Silicon Nitride) Coating

PVD, AlCrSiN coated, for machining Steel, Stainless Steel and hard materials

Grain size: 0.4 μm | Cobalt content: 10%

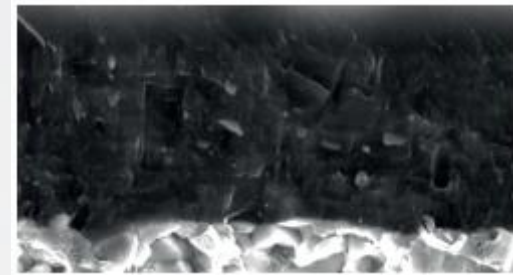


VM6 High Hardness TiAlCrSiN

(Titanium Aluminum Chromium Silicon Nitride) Coating

achieves hardness up to 4000HV with superior wear resistance for machining hard materials

Grain size: 0.4 μm | Cobalt content: 10%

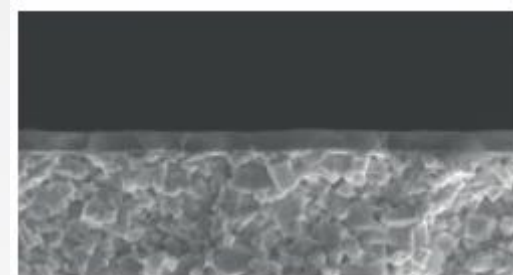


VM3 High Temperature AlCrN

(Aluminum Chromium Nitride Coating) Coating

PVD, AlCrN coated, grade for machining exotic materials and Stainless Steel

Grain size: 0.7 μm | Cobalt content: 10%



High Performance Product Line

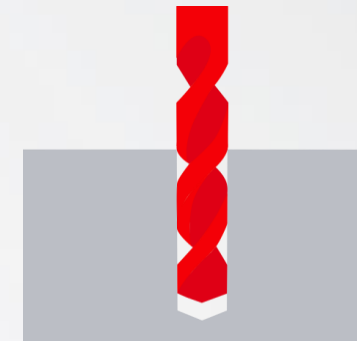
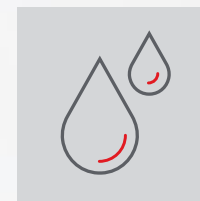
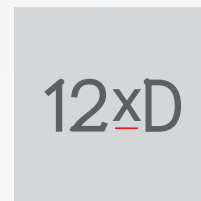
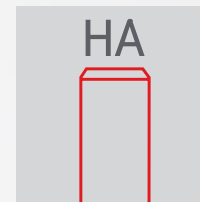
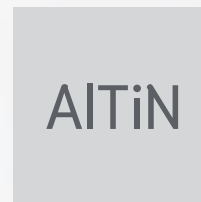
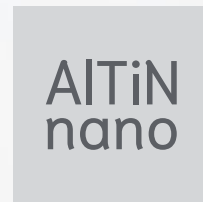
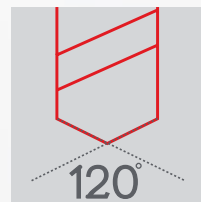
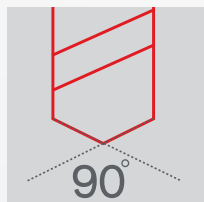


Solid Carbide Drills Dia from **1 mm** (.039") up to **20 mm** (.236") ■

3XD and 5XD with and without coolant holes for machining Steel / Stainless Steel and Titanium ■

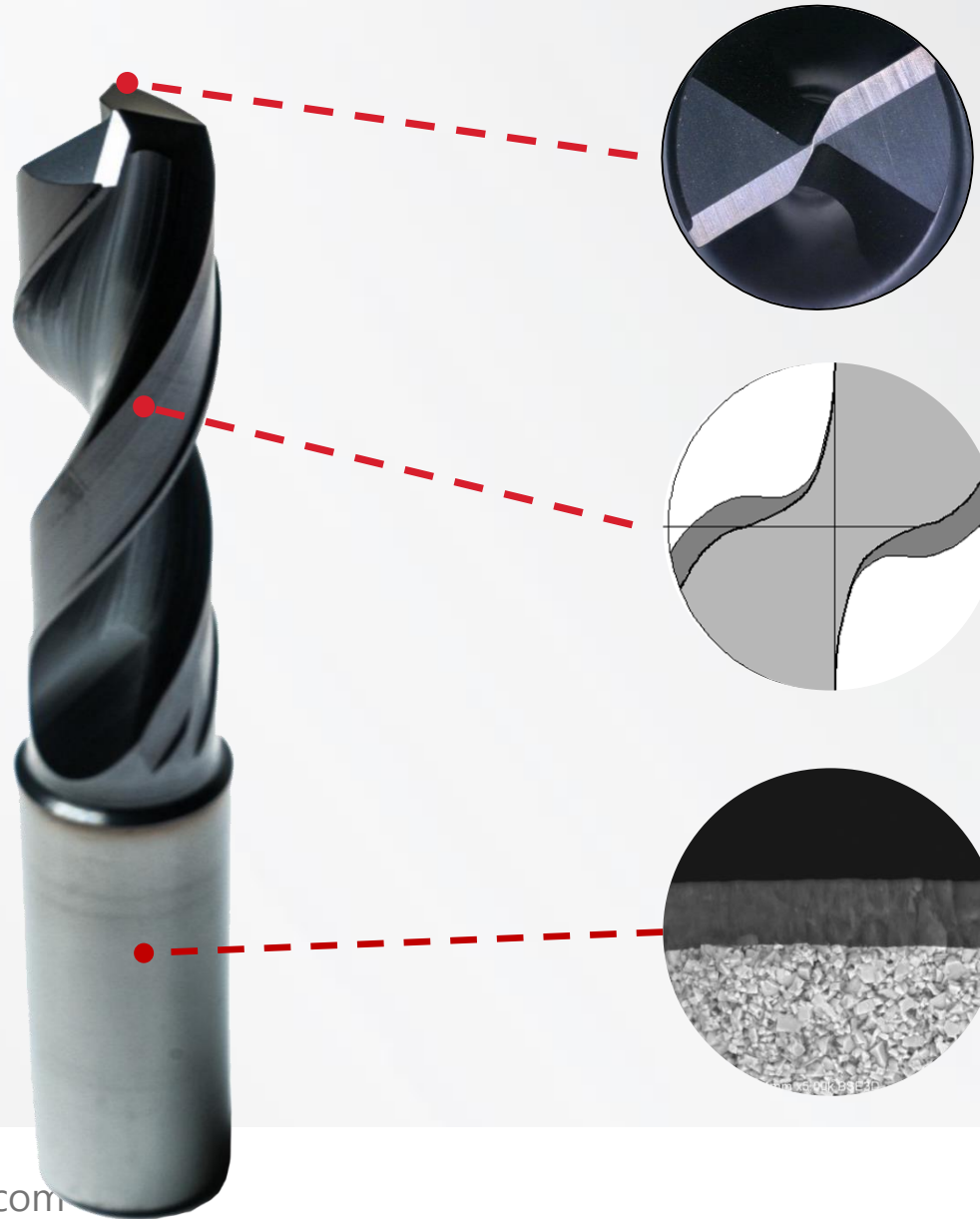
8XD and 12XD with coolant holes for machining Steel / Stainless Steel and Titanium ■

Center (NC) Drills **90° and 120°** ■



V-Drill Geometry

Product Features



Special design for bottom edge
Better chip cutting performance and
bigger chip pocket

Unique flute design
Excellent chip removal

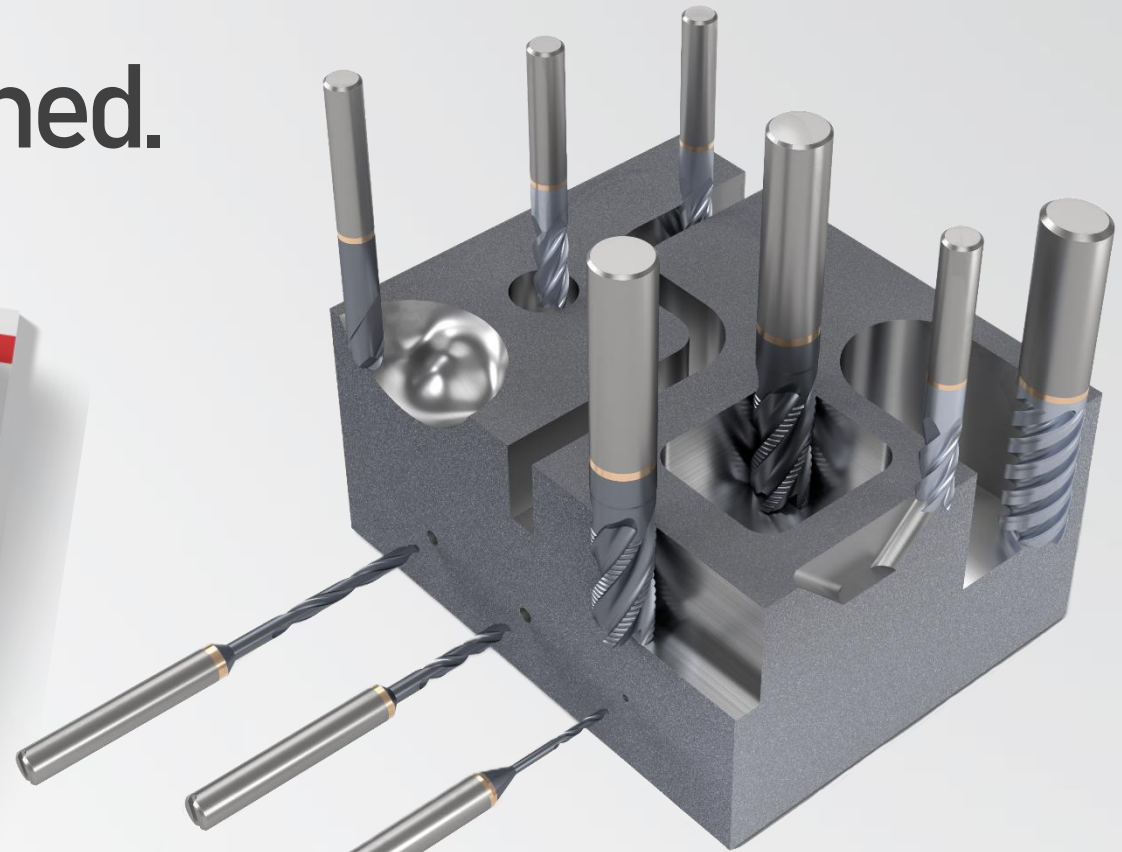
New adhesive substrate and coating
High toughness and wear resistance

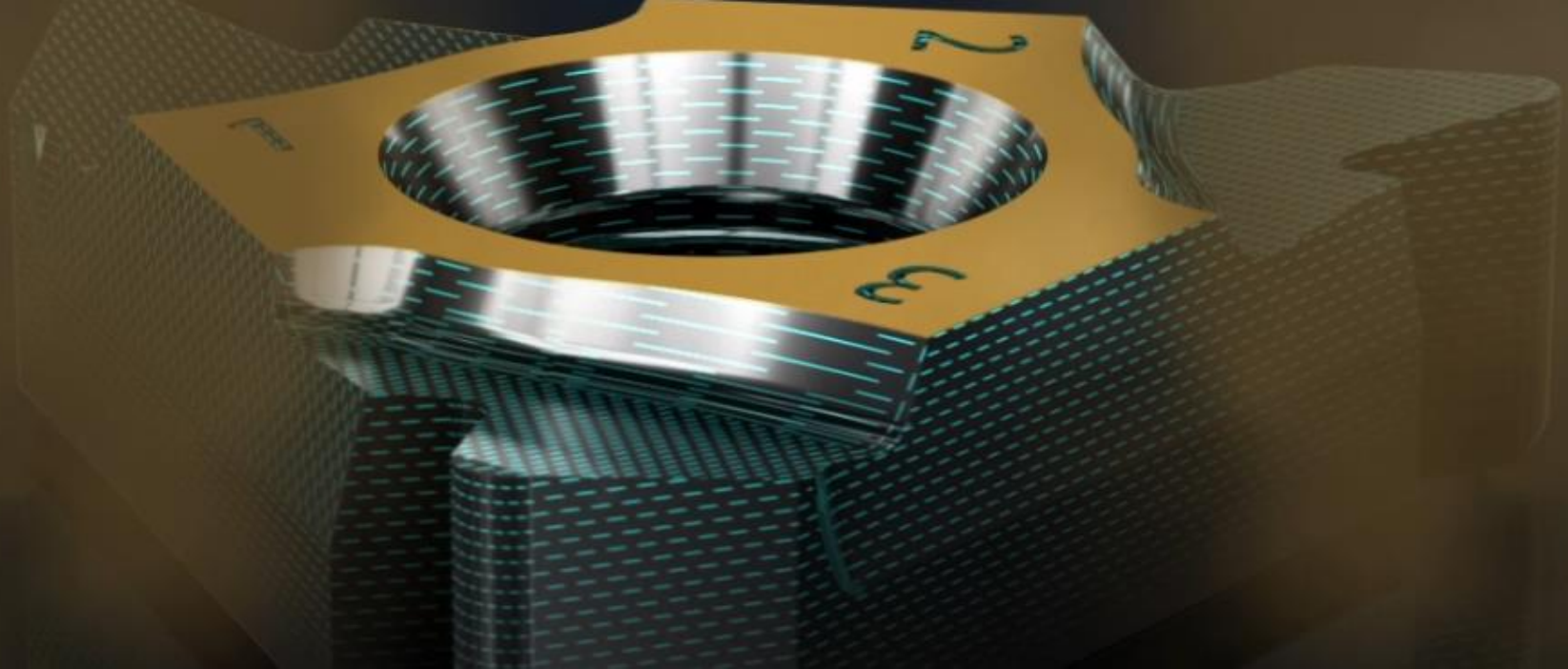
V-MILL
Superior Milling Solutions

&

V-DRILL
Accurate Drilling Solutions

Much more is planned.





THANK YOU!

www.vargus.com