



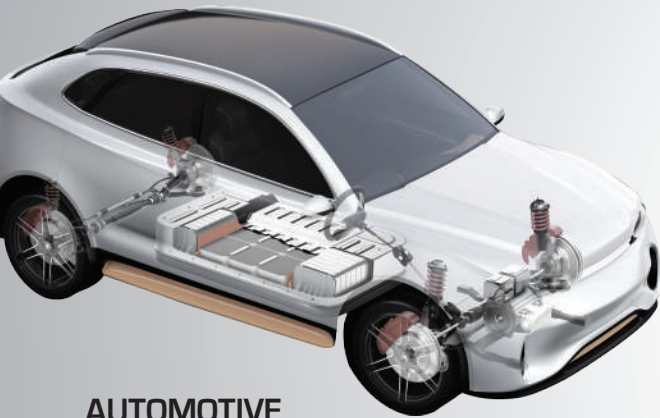
Miniature

MINI

ADVANCECUTTING
TaeguTec

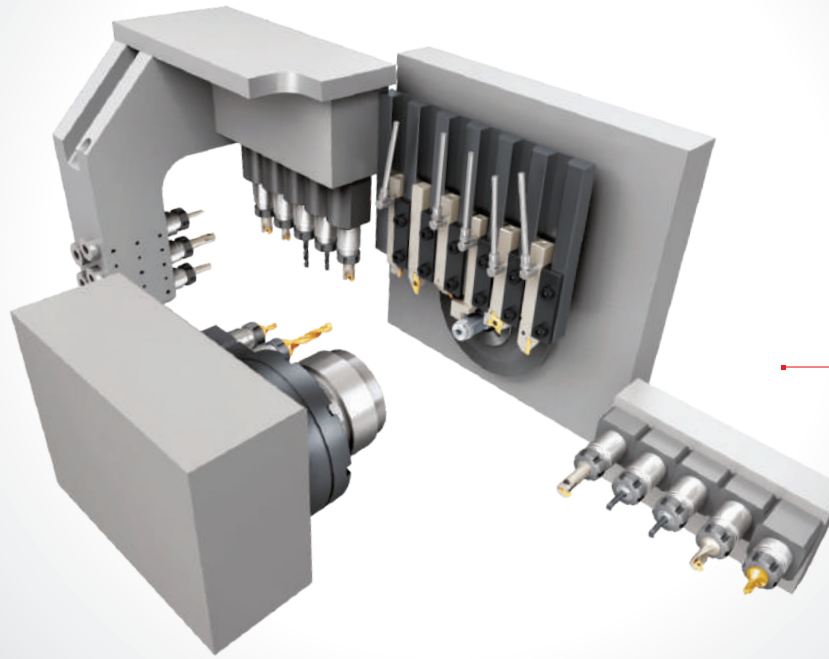
TaeguTec **MINIATURE** Industry Solutions

MINIATURE



AUTOMOTIVE

In recent years, the automotive industry has been rapidly moving towards miniaturization and weight reduction of related components due to the demand for improved energy efficiency and carbon neutrality. In addition, there is the growing demand for more electronics and connectors for electric vehicles. In keeping with these changes, TaeguTec continues to develop and supply precision tools suitable for small automotive components.



MEDICAL

The medical industry's demand for miniaturized medical products such as bone-screws and dental implants continues to grow. These products require not only high precision, but also more specialized tools for the machining of these difficult-to-cut materials such as titanium and stainless steel. TaeguTec meets this growing demand with a product line and grades suitable for the processing of such medical components.



ELECTRONICS

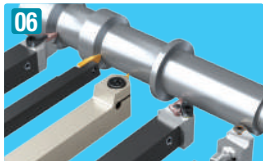
Small appliances such as smart phones, as well as automation and communication devices required by Industry 4.0, are expected to explode in the future. TaeguTec provides tools that increase productivity and reduce costs in the manufacturing processes required for both small quantity batch production as well as mass production.



CONTENTS

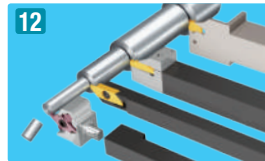


Turning



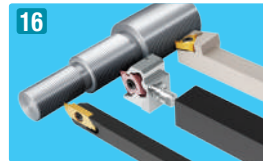
External Turning

Parting and Grooving



External Parting and Grooving

Threading



External Threading

Drilling



Tooling Case Study



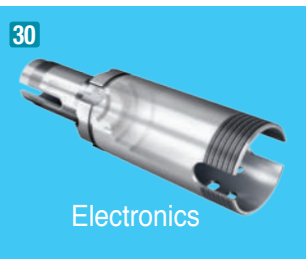
Automotive

Milling



Medical

Solid End Milling

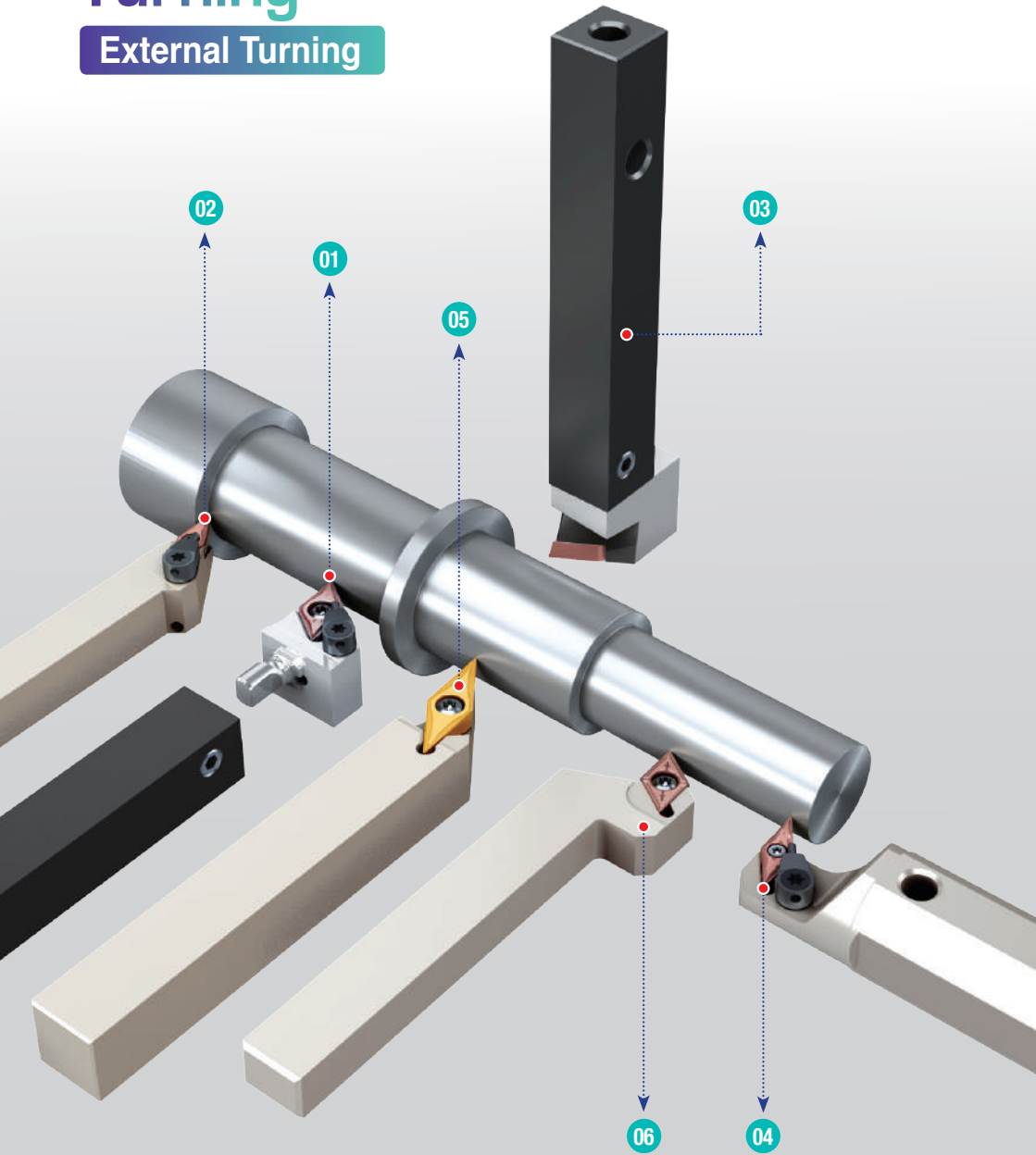


Electronics



Turning

External Turning

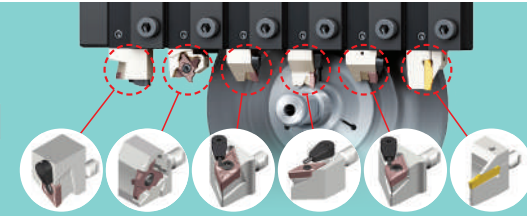
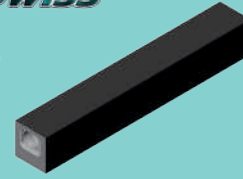


Turning

External Turning

Modular Head

01 **WINSWISS**



Head change: within 25 seconds

High-pressure Internal Coolant

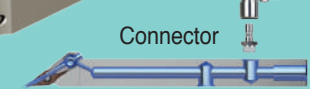
02 **COOLBURST**



Simplified coupling hose system for quick holder set-up

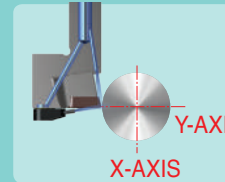
Connector

Hose



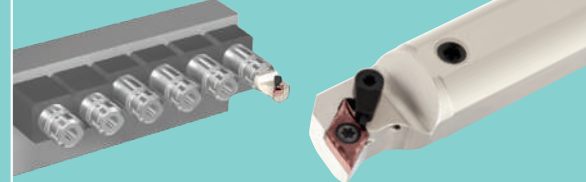
Y-axis Turning

03 **TOPMINI** (TMY holder)



Sub Turning

04 **TOPMINI** (TMS holder)



Stable Turning

05 **MULTITURN**



Rigid clamping

Shift Turning

06 **TOPMINI** (TMZ holder)



Standard holder

TMZ holder

Inserts

TOPMINI



Finish

Finish-Medium

Medium

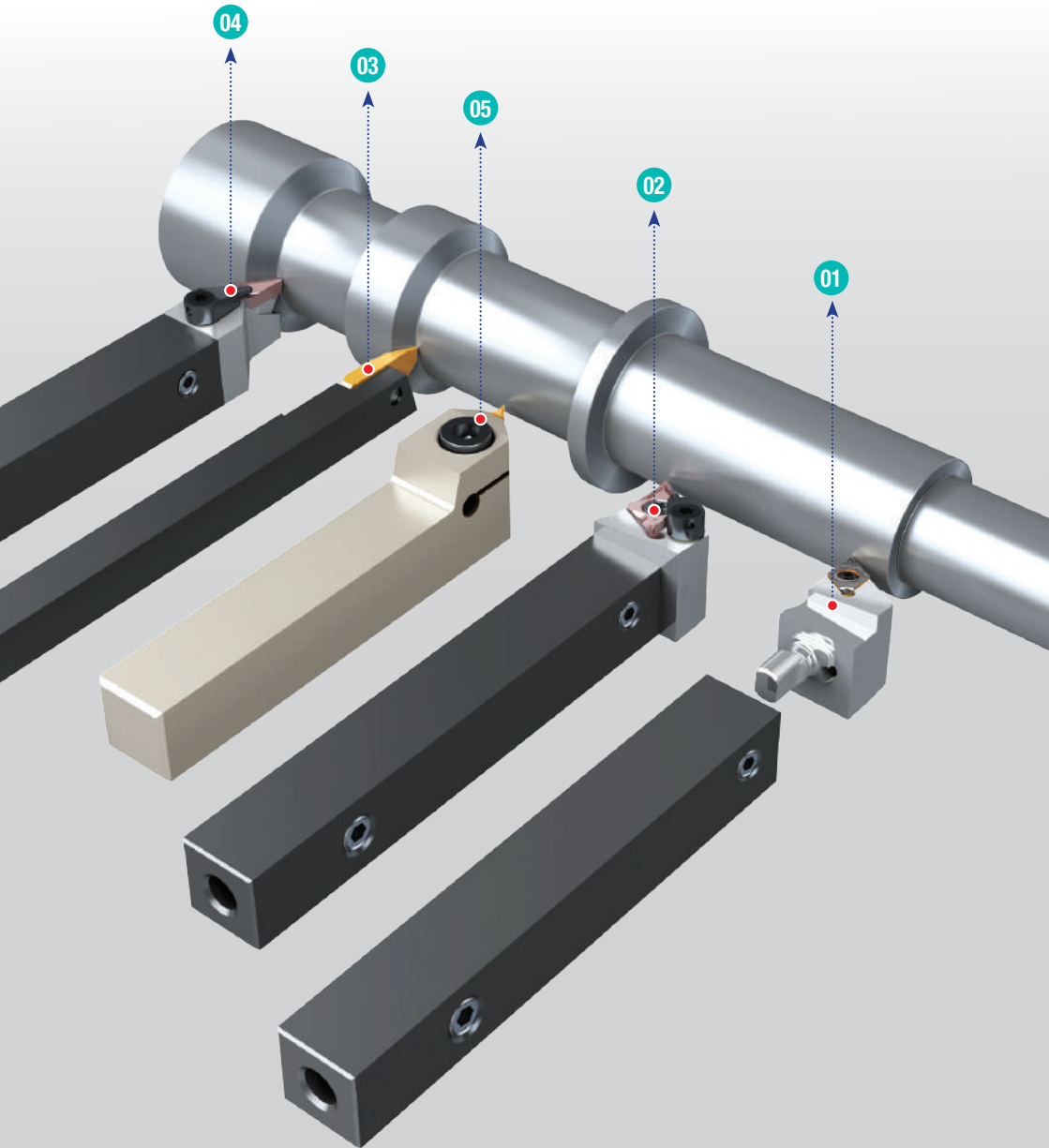
For non-ferrous

PCD



Turning

External Turning

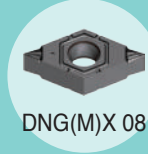


External Turning

Double-sided Insert Series

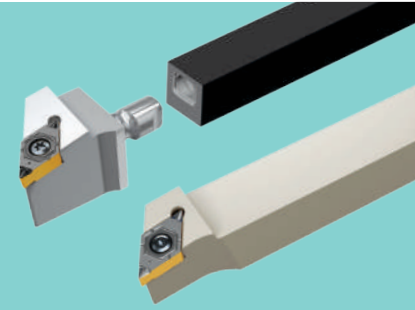
01 **RHINO TURN**

Double-sided mini size inserts and holders



4 edges

6 edges

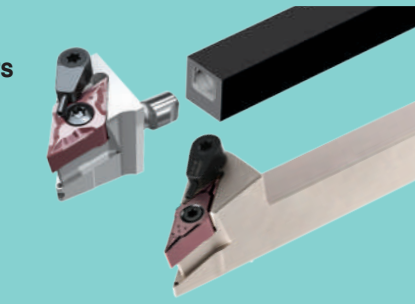


02 **RHINO TURN**

Economical double-sided inserts and holders

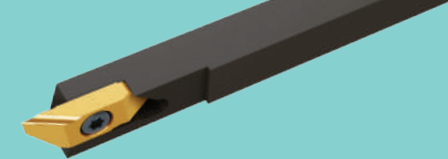


4 edges

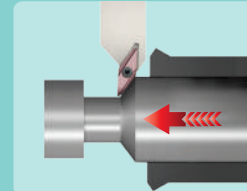


Back Turning

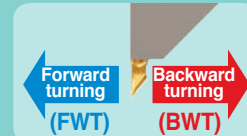
03 **TOP CUT**



04 **TOP MINI**

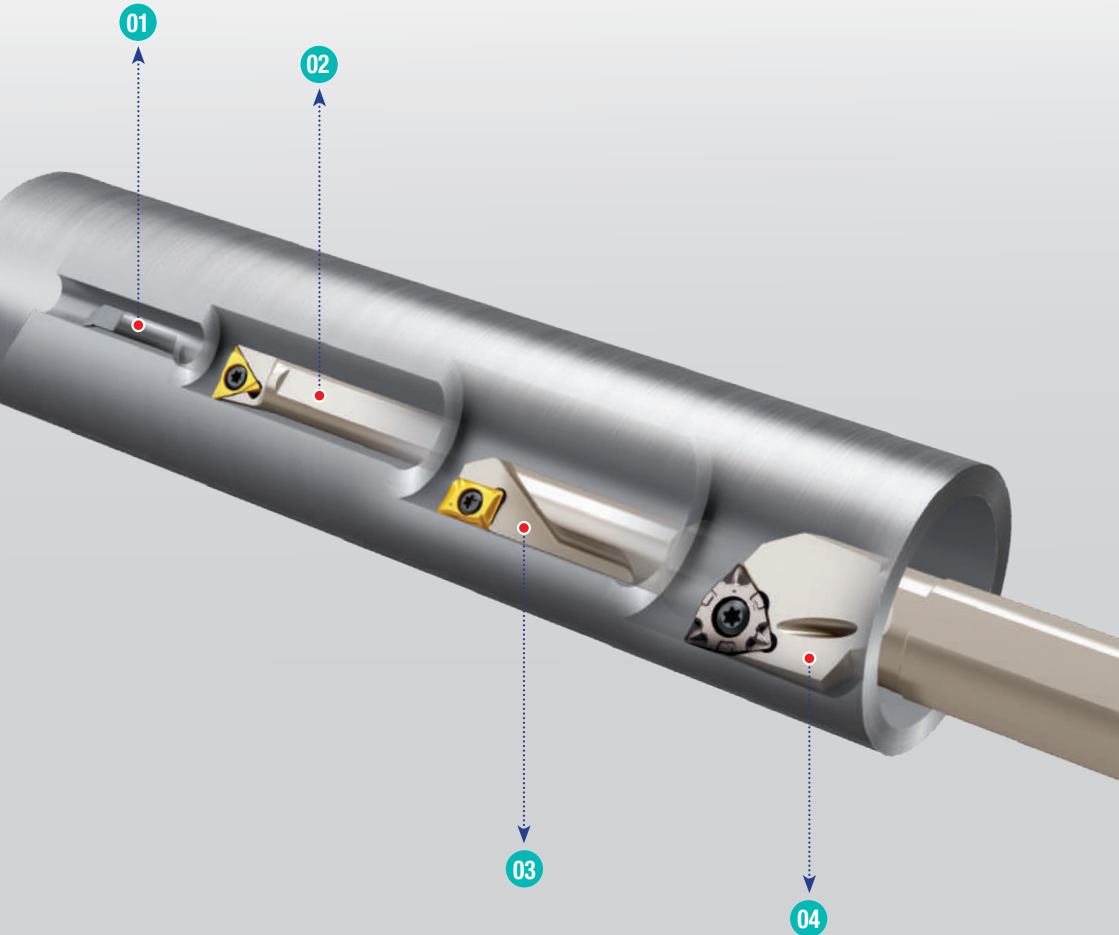


05 **VT-CLAMP**

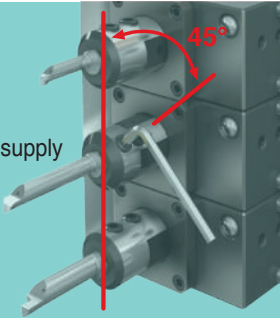


Turning

Internal Turning



Turning



Angular clamping design avoids interference with the other sleeves at the tool post

Internal Turning

Internal Turning

01 TOPMICRO

D_{min}: 0.6 mm

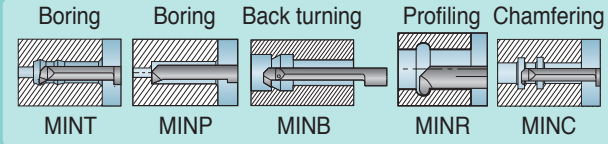


MINS...-L100C
Sleeve for direct connection of coolant supply



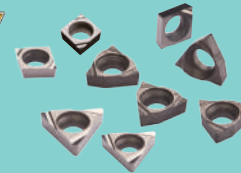
MINSL
Two-directional clamping sleeve

Applications



02 TOPMINI

D_{min}: 5 mm



Various standard insert lines



Carbide shank



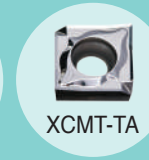
Steel shank

03 TOPCAP

D_{min}: 6 mm

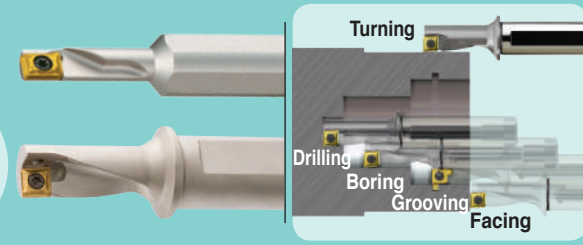


XCMT-TC



XCMT-TA

For non-ferrous



Multifunctional tool

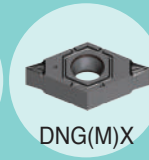
04 RHINOMTURN

Economical double-sided mini size inserts

D_{min}: 16 mm



CNMX



DNG(M)X



WNMX

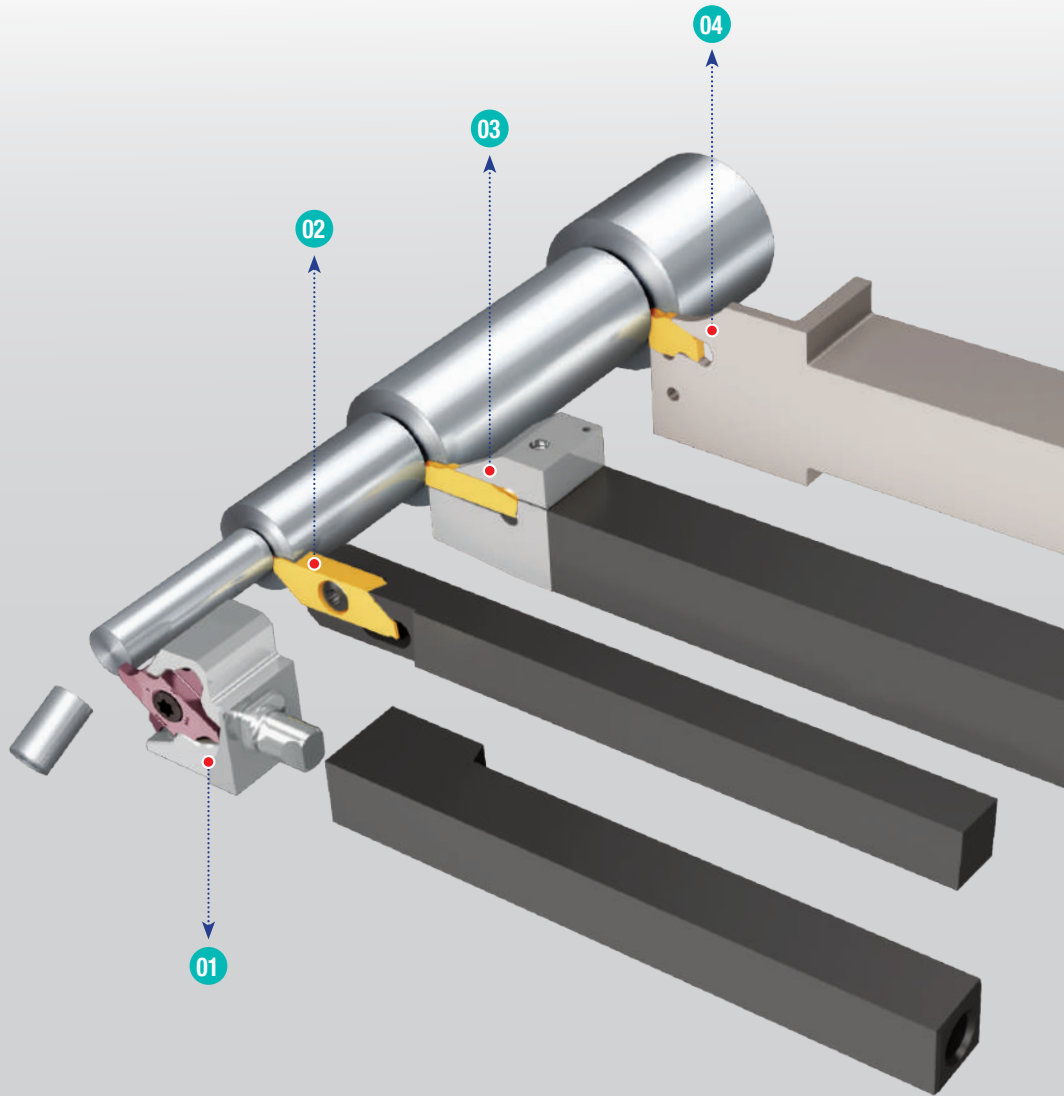
4 edges

6 edges



Parting and Grooving

External Parting and Grooving



Parting and Grooving

External Parting & Grooving

External Parting and Grooving

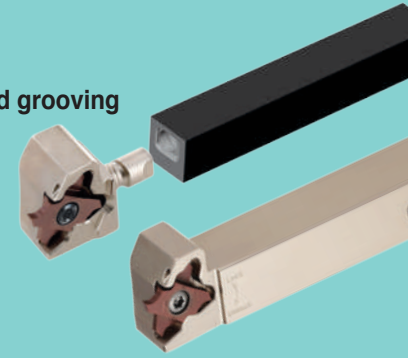
01

QUADRUSH

4-cutting edge inserts for shallow parting and grooving

Dmax: Ø10 mm

Cutting width: 0.5-3.0 mm

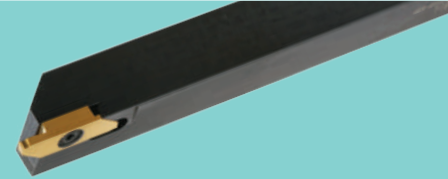


02

TOPCUT

Dmax: Ø13 mm

Cutting width: 0.7-2.0 mm



03

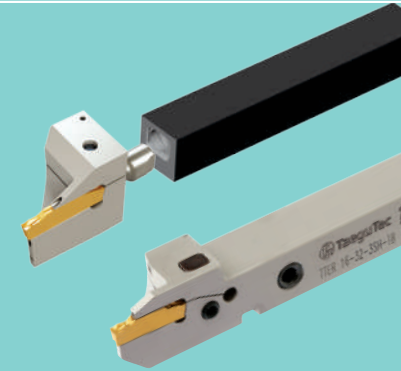
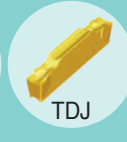
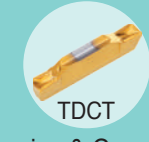
T-CLAMP

Double-ended inserts for parting and deep grooving

Dmax: Ø45 mm

Cutting width: 1.4-3.0 mm

Turning & Grooving



04

CUTSPEED

Single-ended rigid inserts and holders for parting and deep grooving

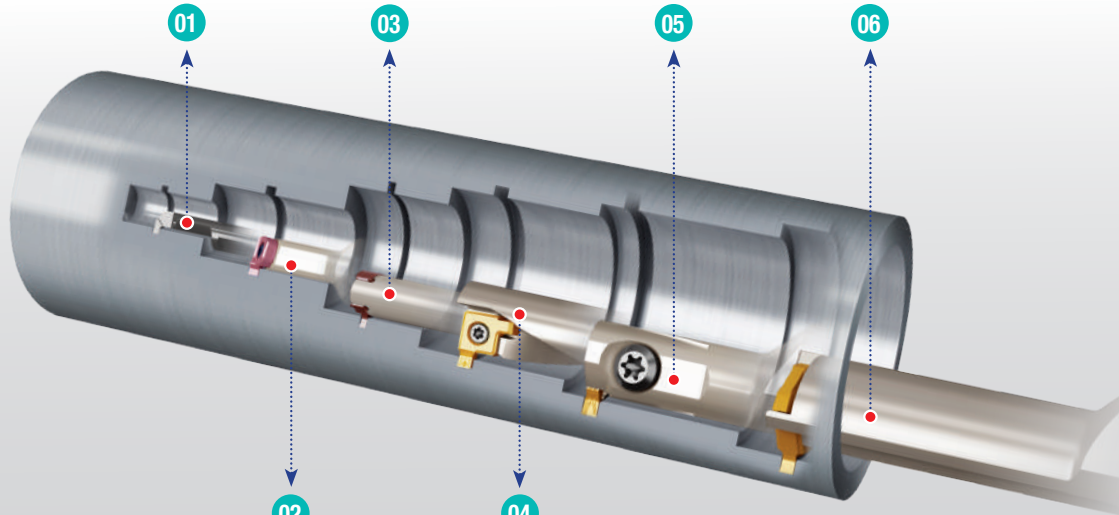
Dmax: Ø60 mm

Cutting width: 1.6-3.0 mm

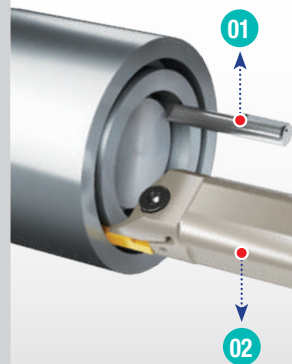


Parting and Grooving

Internal Grooving



Face Grooving



01 TOPMICRO

Groove Dmin: 6 mm
Cutting width: 1.0-3.0 mm



02 T-CLAMP

Groove Dmin: 18 mm
Cutting width: 3.0-6.0 mm



Parting and Grooving

Internal Grooving

Internal Grooving

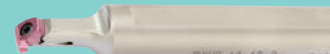
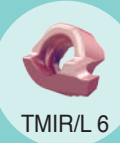
01 TOPMICRO

Dmin: Ø2 mm
Cutting width: 0.5-2.0 mm



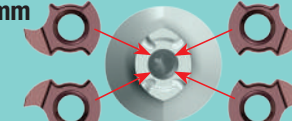
02 WINIGROOVE

Dmin: Ø6 mm
Cutting width: 0.5-2.0 mm



03 MINIRUSH

Dmin: Ø10 mm
Cutting width: 0.5-2.0 mm



04 TOPCAP

Dmin: Ø12 mm
Cutting width: 2.0-4.0 mm



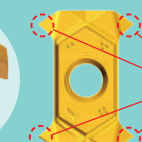
05 T-CLAMP

Dmin: Ø12.5 mm
Cutting width: 1.0-3.0 mm



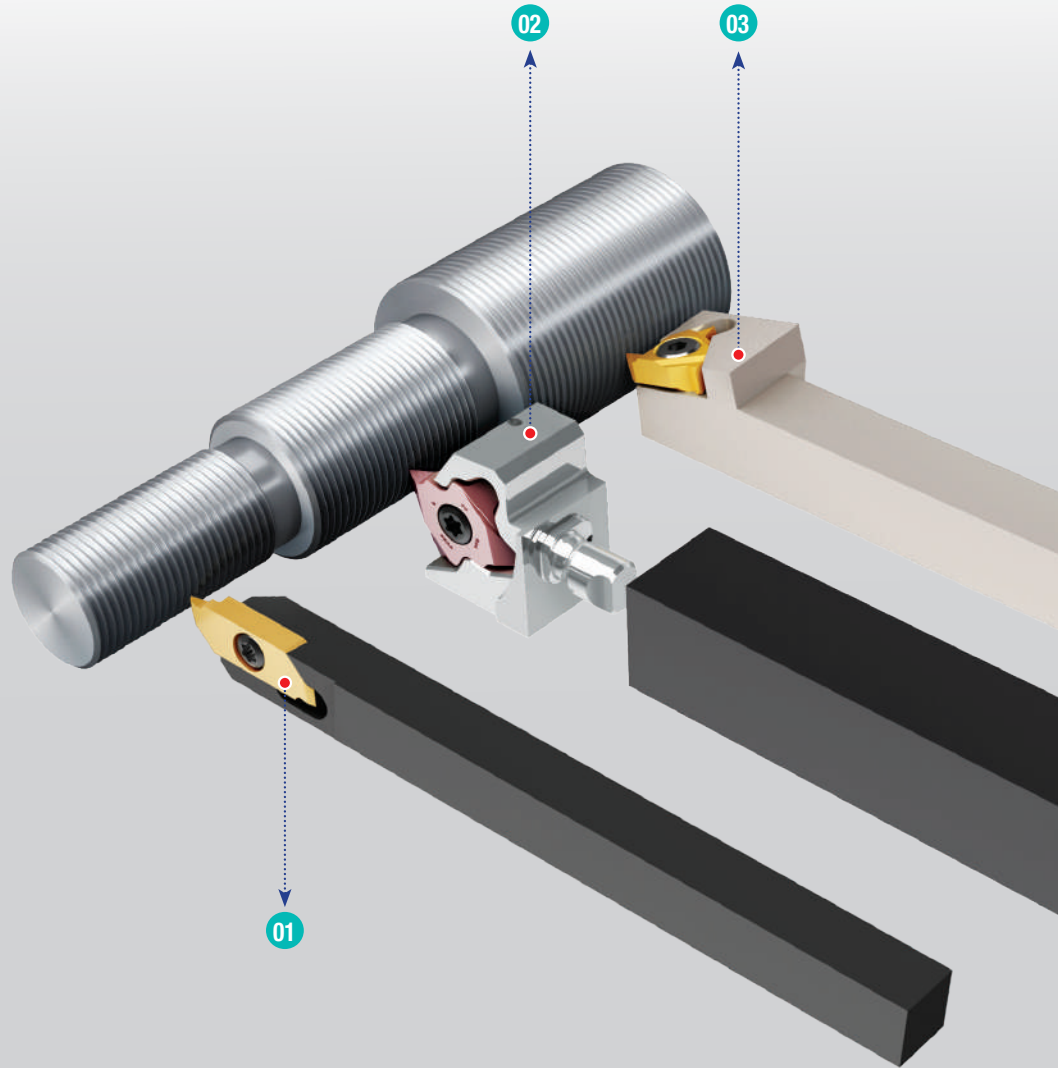
06 QUADIRUSH

Dmin: Ø16.5 mm
Cutting width: 1.0-3.0 mm



Threading

External Threading



External Threading

External Threading

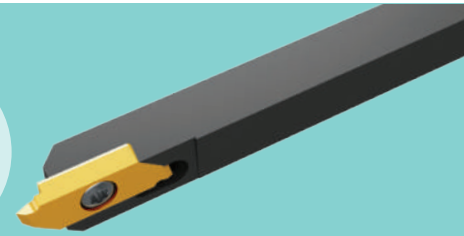
01 TOPCUT

Diameter: \varnothing 1-10 mm

Thread forms: Profile 60°



TVTR/L



02 QUADRUSH

Diameter: \varnothing 10-20 mm

Thread forms: Profile 60°



TQS-MT



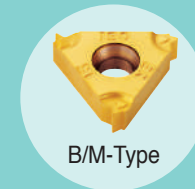
03 T-THREAD

Diameter: \varnothing 10-38 mm

Thread forms: Profile 55 & 60°, M, UN, WH, NT, NF, BSPT, SA, AC, UNJ, MJ, TR, RN, API



Regular Type

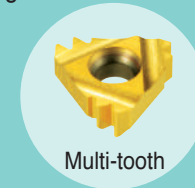


B/M-Type

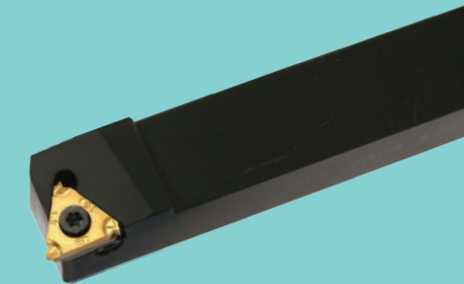
Various standard
threading lines



U type



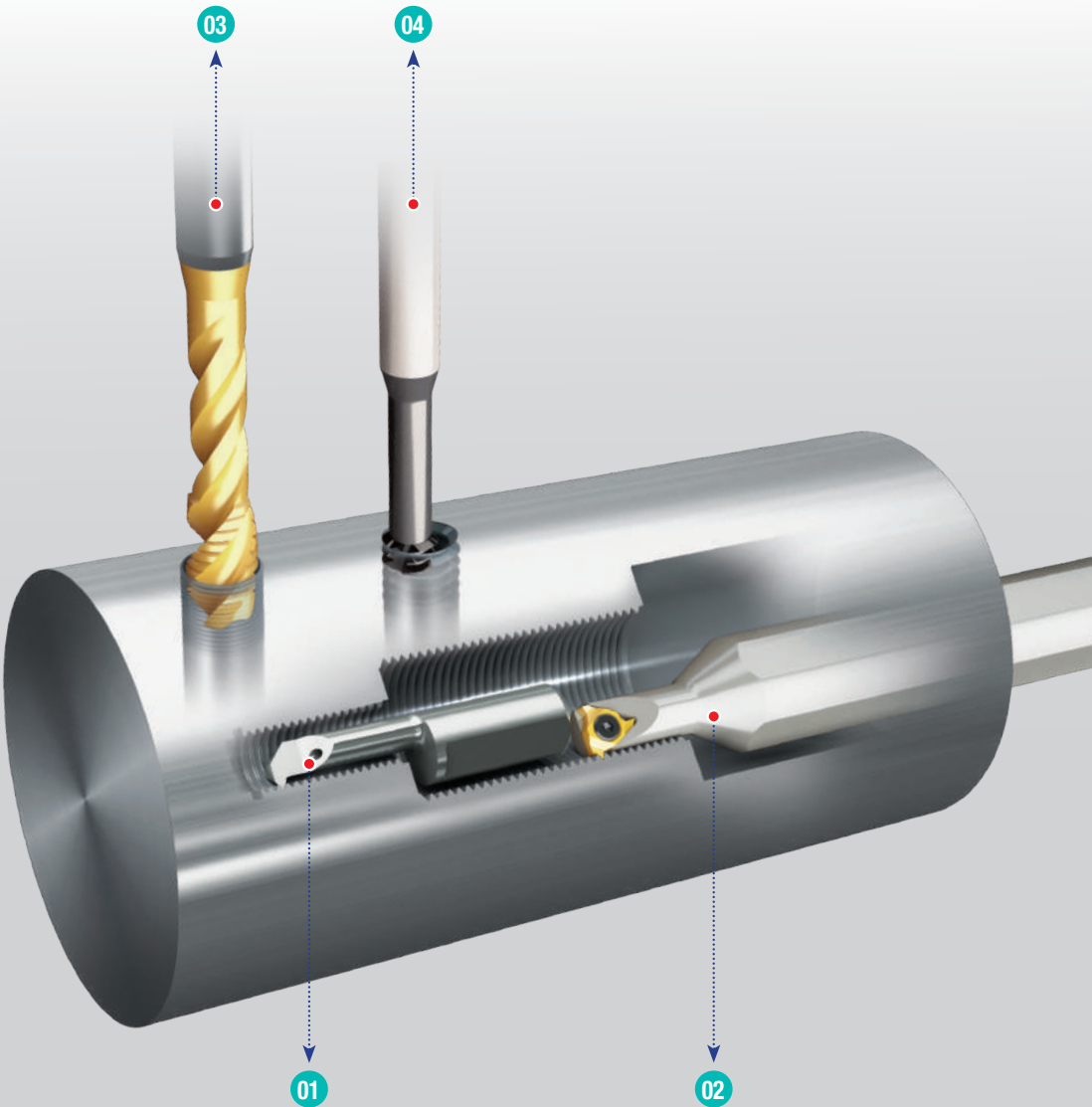
Multi-tooth



Threading

Internal Threading

Threading



Internal Threading

Threading

01 TOPMICRO

Dmin: Ø4 mm

Thread forms: Profile 60°



MINI R



MINS...-L100C
Sleeve for direct connection of coolant supply



MINSL
Two-directional clamping sleeve

02 T-THREAD

Dmin: Ø6.4 mm

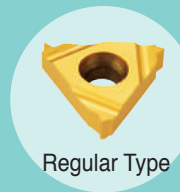
Thread forms: Profile 55 & 60°,
M, UN, WH, NT, NF, BSPT, UNJ, MJ



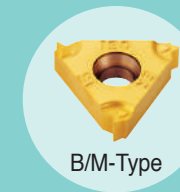
Steel shank



Carbide shank



Regular Type



B/M-Type



U type



Multi-tooth

Various standard threading lines

03 T-TAP

Min. Thread size: M2x0.4

Thread forms: M



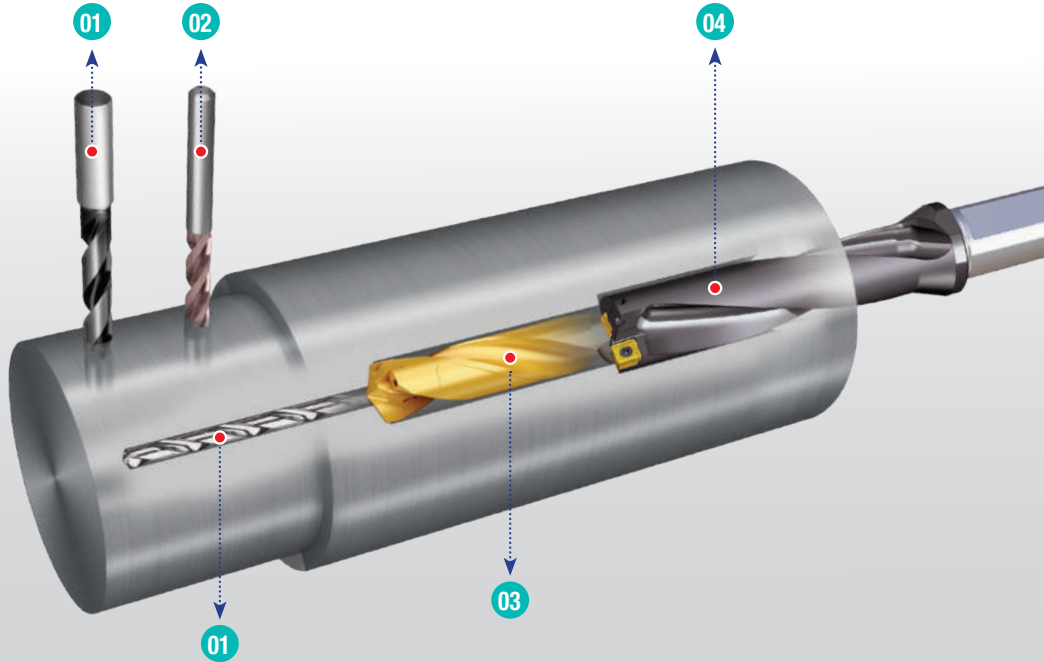
04 TS-THREAD

Min. Thread size: M1x0.25

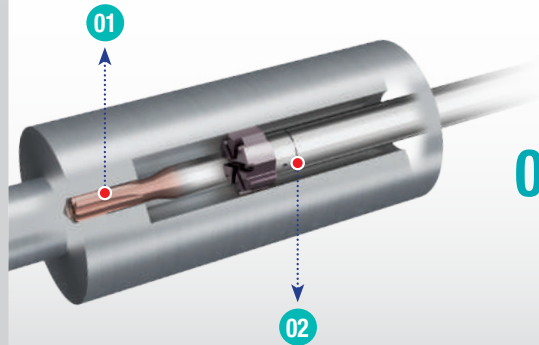
Thread forms: ISO, UN, UNJ, MJ



Drilling



Reaming



01 TSREAM

D_{min}: Ø3 mm



For blind hole

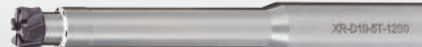


For through hole

02 XM-REAM

D_{min}: Ø8 mm

Overhang: 3xD, 5xD



For blind hole



For through hole

Drilling

Drilling

01 H-DRILL

Diameter: Ø3-12 mm

Drilling depth: 3xD, 5xD



NHD

Diameter: Ø4-10 mm

Drilling depth: 10xD, 15xD, 20xD



SHO

MQL-DRILL

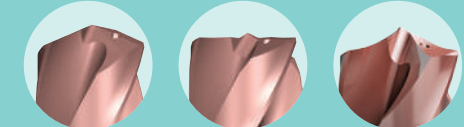
02 SOLID3DRILL

Diameter: Ø4-12 mm

Drilling depth: 3xD, 5xD, 8xD, 12xD



3HD



PI

FI

CI

03 DRILLRUSH / WINDRILL

Diameter: Ø4-25 mm

Drilling depth: 1.5xD-12xD



TCD-P+

Self-centering



TCD-F

Flat bottom



TCD-P/M

P: for steel
M: for stainless steel



TCD-N

For non-ferrous

Drill Sleeves



TSL-SW (Adjustable tightening length)



TSL-NC (Fixed tightening length)



MAXIRUSH connection



TFLEXTEC connection

04 TOPDRILL

Diameter: Ø12-50 mm

Drilling depth: 2xD-5xD



SOMT-DP

For general



SOMT-DL

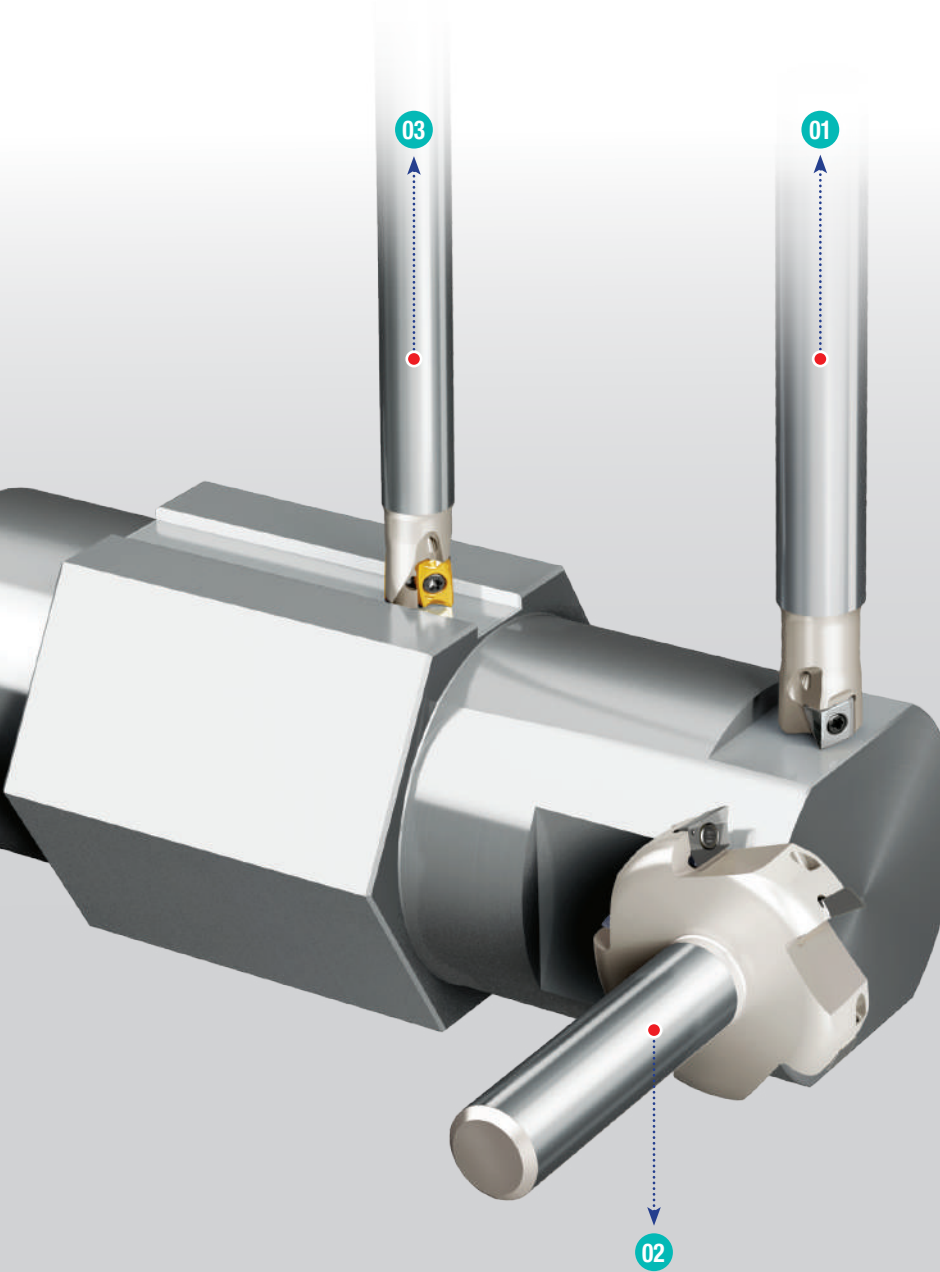
For low carbon



SOMT-DA

For non-ferrous





Milling

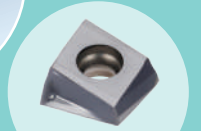
01 TANGSPEED

Cutter Diameter: \varnothing 10-30 mm

Shank dia: 10, 12 mm



4T-MTE90



LPHU 05-ML

4 edges

02 CHASEMILL

Cutter Diameter: \varnothing 08-30 mm

Shank dia: 5, 6, 7, 10 mm



MTE90 AX



AXCT 06-L

For precision



AXCT 06-AL

For non-ferrous

03 WINMILL

Cutter Diameter: \varnothing 06-14 mm

Shank dia: 6, 8, 10, 12 mm



CVHT-L

For precision



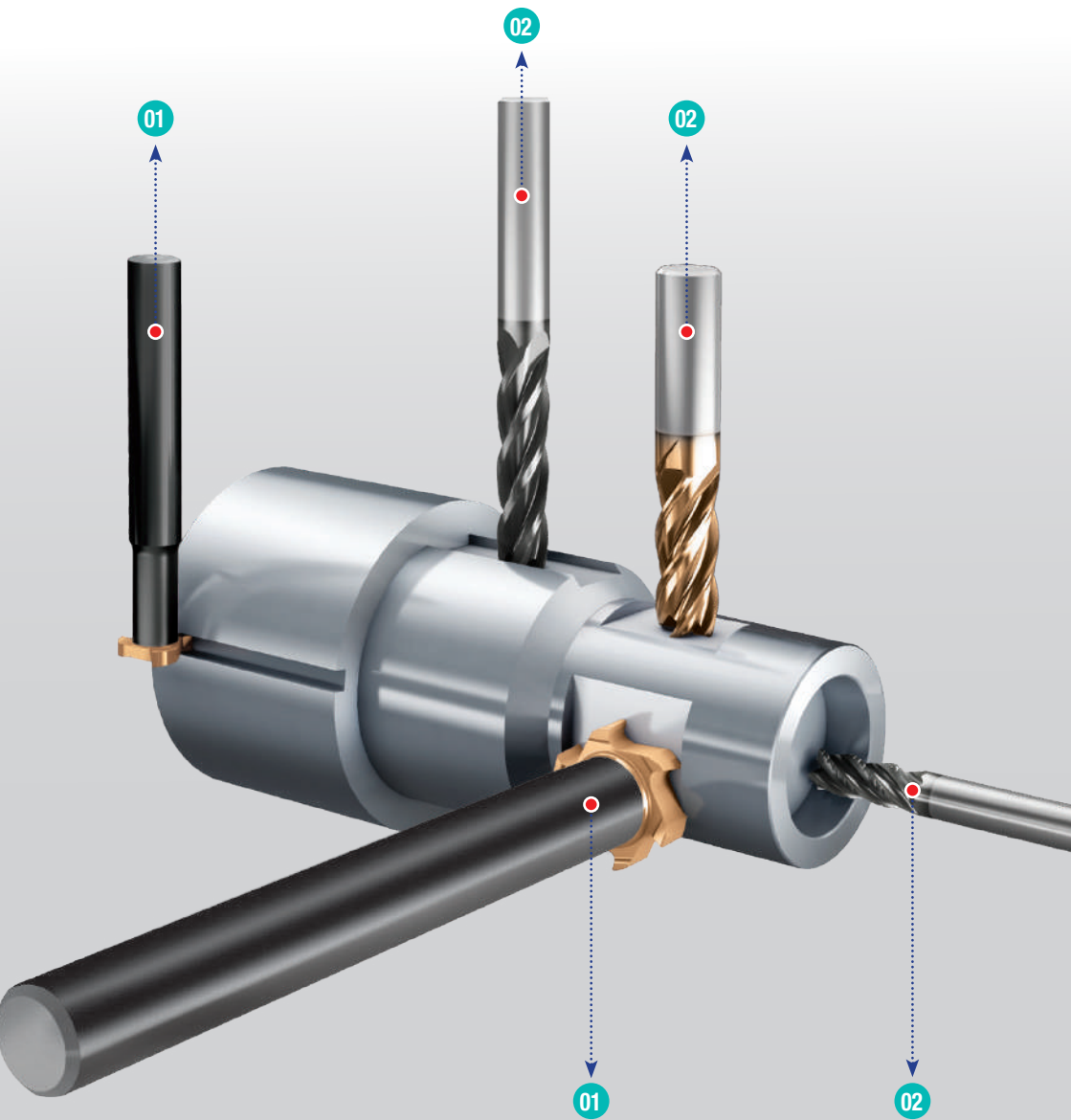
CVKT-M

For general



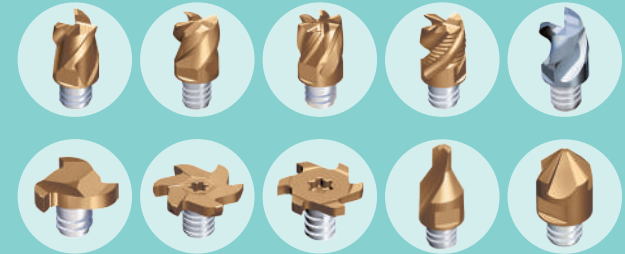
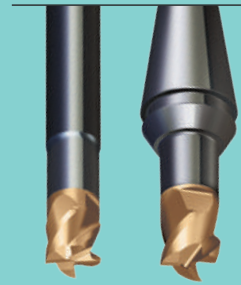
Rigid larger core body, more teeth



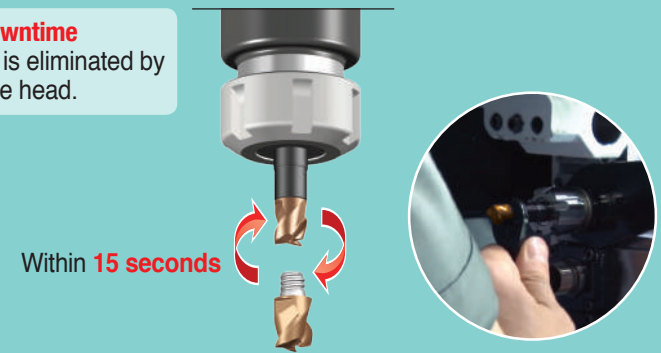


Solid End Mills

01 MAXIRUSH



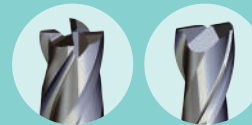
Reduced downtime
Tool setting is eliminated by replacing the head.



02 Solid End Mills

Solid End Mill Lines for Various Applications

APEX MILL



For general



SLIKSOLID



For difficult-to-cut materials

STARMILL



ALUMILL



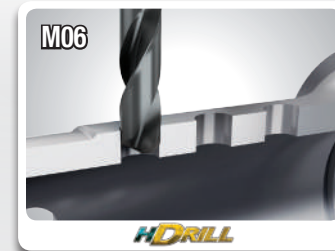
For non-ferrous



Tooling case study

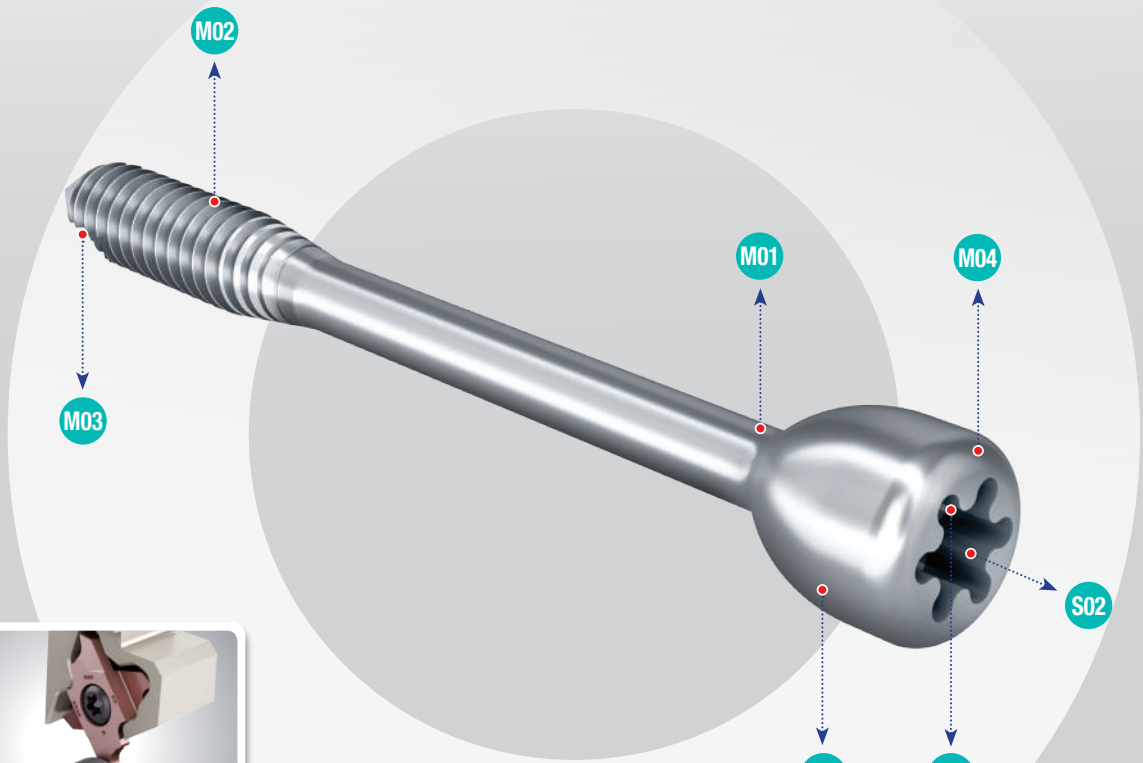


Automotive Small Parts



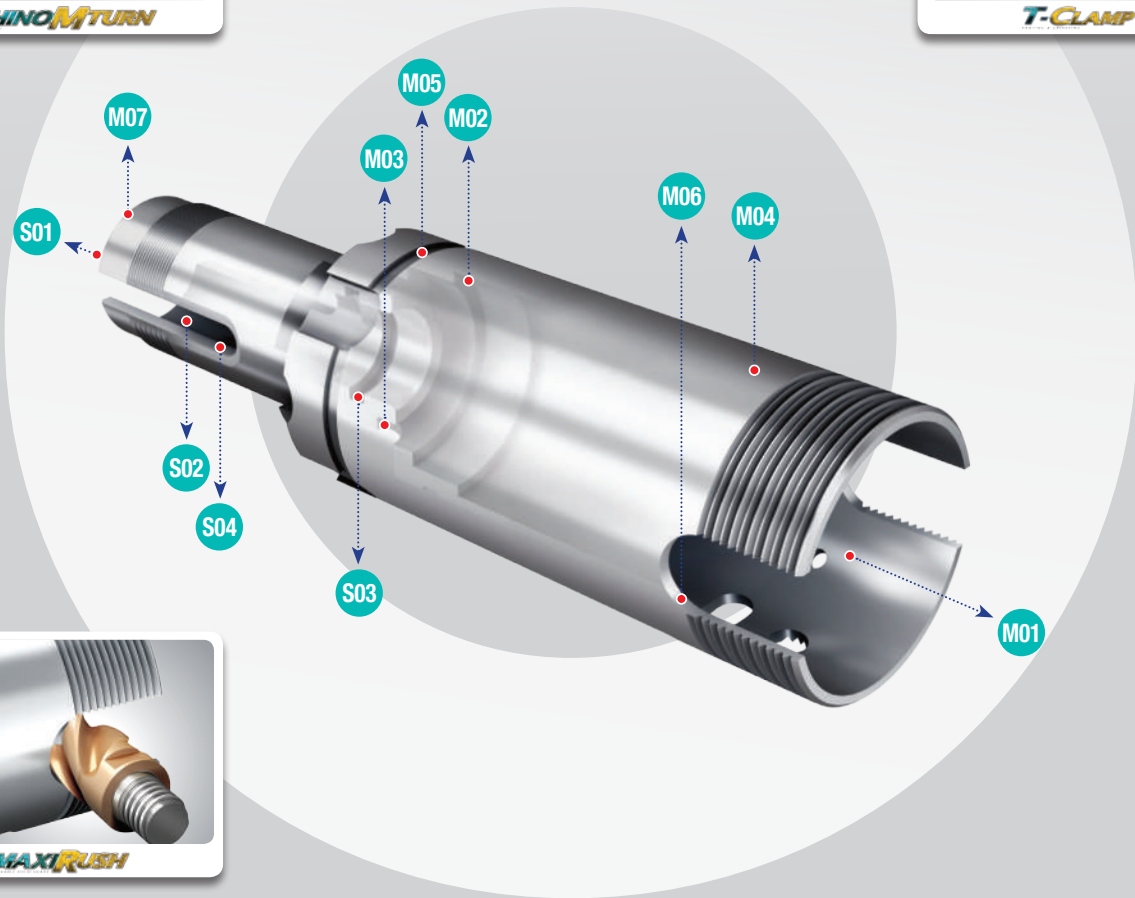
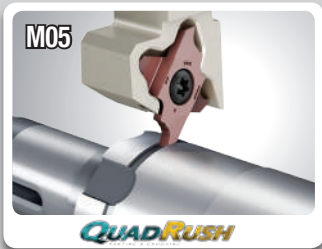
Tooling case study

Medical Small Parts



Tooling case study

Electronics Small Parts





Pool CutZZ

Your Knowledge Machining Link!



Scan me!



ANDROID APP ON
Google play

Scan me!



Download on the
App Store