



Member IMC Group
www.tungaloy.com



IMPROVE YOUR SETUP TIME!!

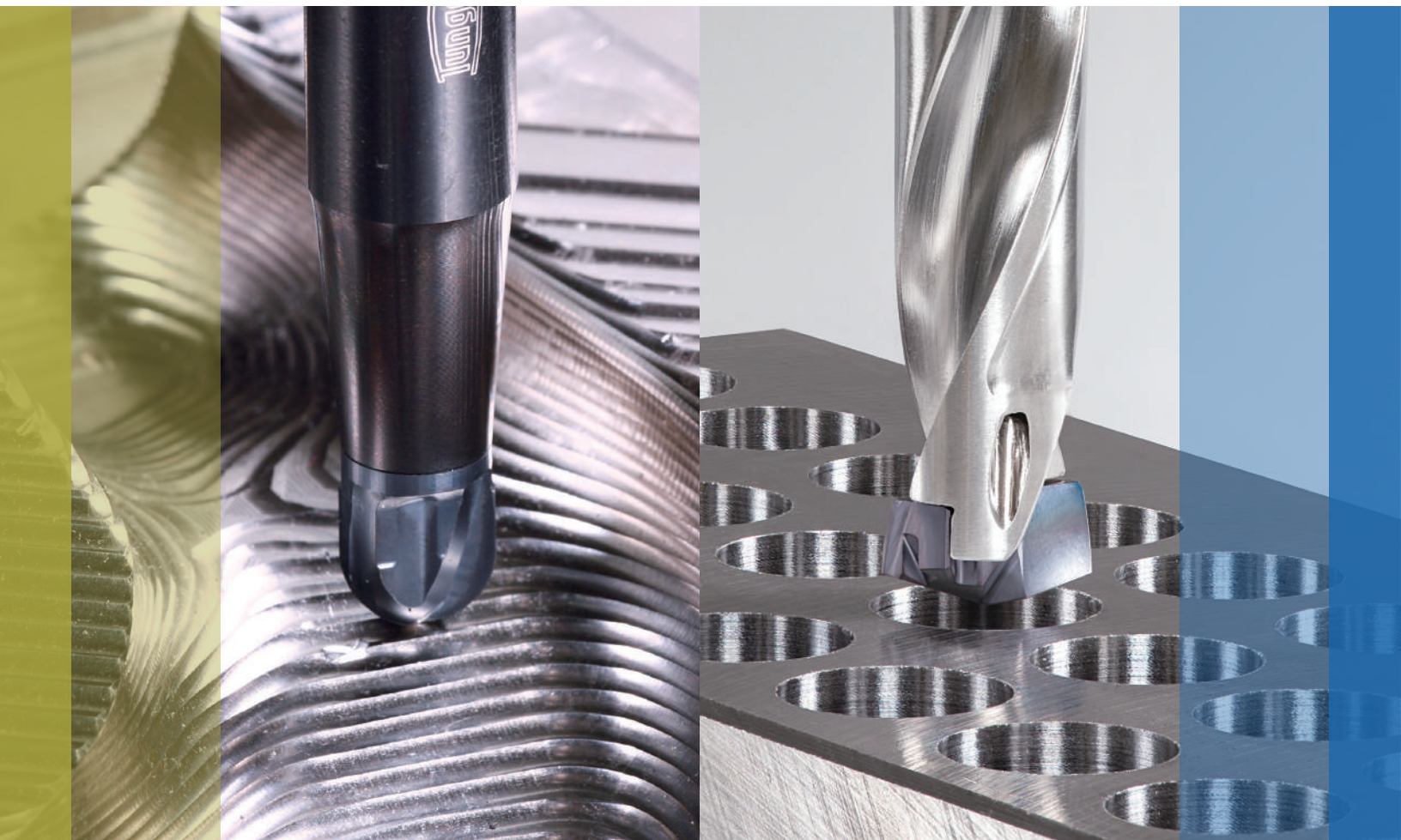
Innovative Exchangeable Head System

■ MillLine

TUNGMEISTER

■ DrillLine

DRILLMEISTER



Quick Change Milling Head

Others

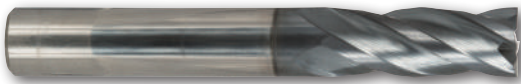
Vs

Tungaloy's System

Costly



Solid Carbide Endmill



Economical

Use of a replaceable carbide head for a variety of applications

Replaceable Carbide Head

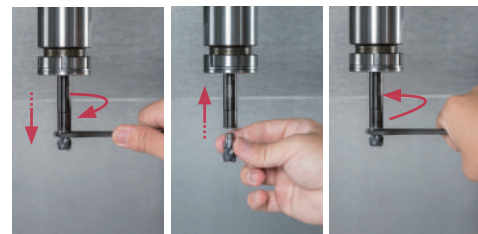


Inefficient



No Setup Time

Reduce machine downtime by replacing the head on the machine *with exchange accuracy within 0.0008"*



Versatile

 Hundreds of combinations available with a wide range of heads in different shapes and sizes!

DrillLine



Best solution for high production where every second counts

Replacing not only the expensive solid carbide tools, but also reducing tool change and setup time

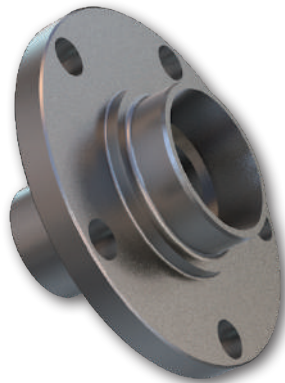
For the most demanding applications where achieving higher productivity on difficult materials is the prime target.

Covering your holemaking needs for any kind of industry

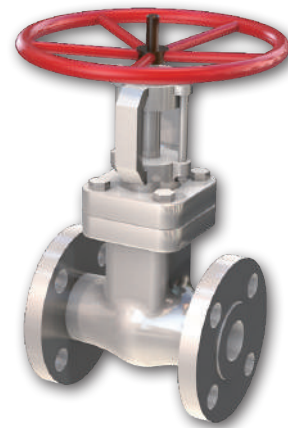
Fly wheel



Wheel hub



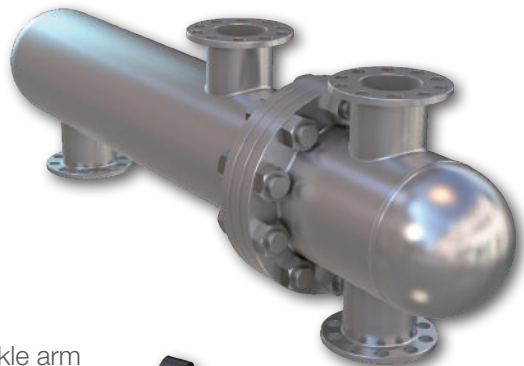
Valve



Brake disk



Heat exchanger



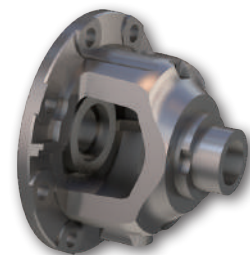
Tube sheet



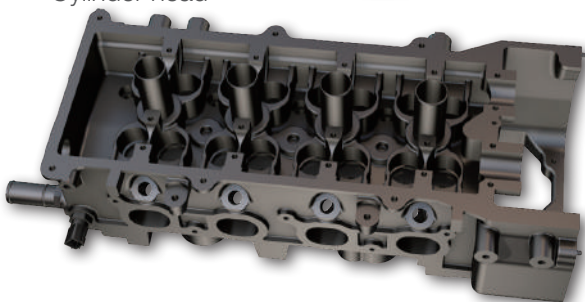
Knuckle arm



Differential case



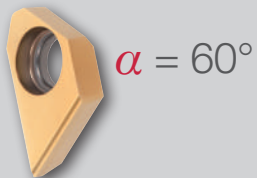
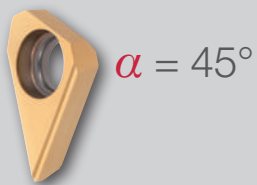
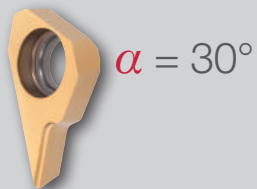
Cylinder head



Combines drilling and chamfering operations, therefore reducing cycle time



Chamfering inserts



Drill body types

Flange type TID:

for general drilling operations

Straight type TIDC:

for pre-thread hole or with chamfer



Tool depth capacity

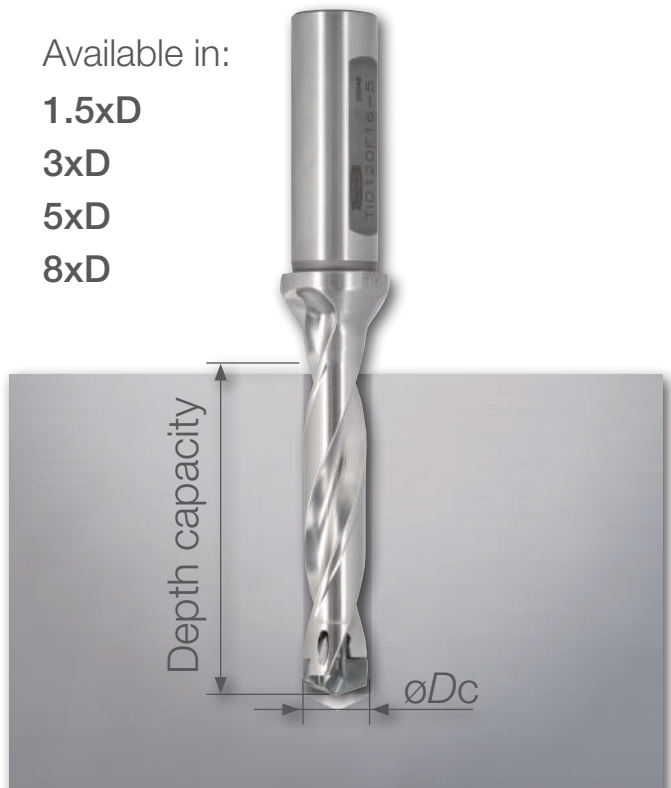
Available in:

1.5xD

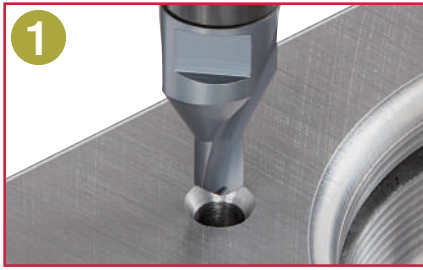
3xD

5xD

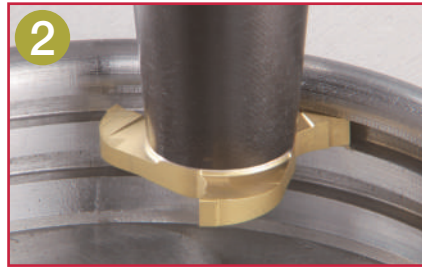
8xD



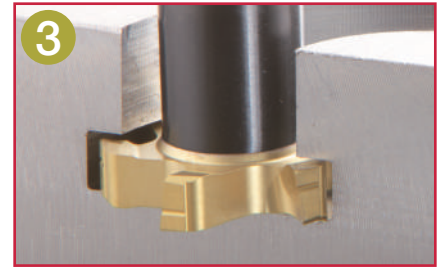
No setup time and machine downtime



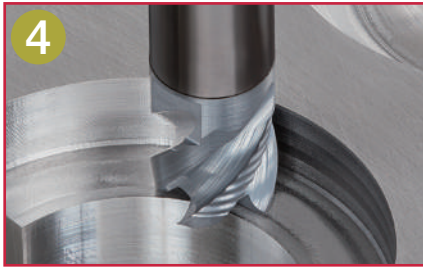
1
Center drilling + chamfering
VDP head
2 flutes for center drilling + chamfering (DIN332)
- **Range:** from $\phi 0.129''$ to $\phi 0.254''$ with 60° chamfer



2
Shallow slotting
VST head
3, 4, 6 flutes for slot milling solution
- Form slotting operation
- Chamfering operation
- **Width range:** from $0.030''$ to $0.394''$ with slotting depth up to $0.236''$



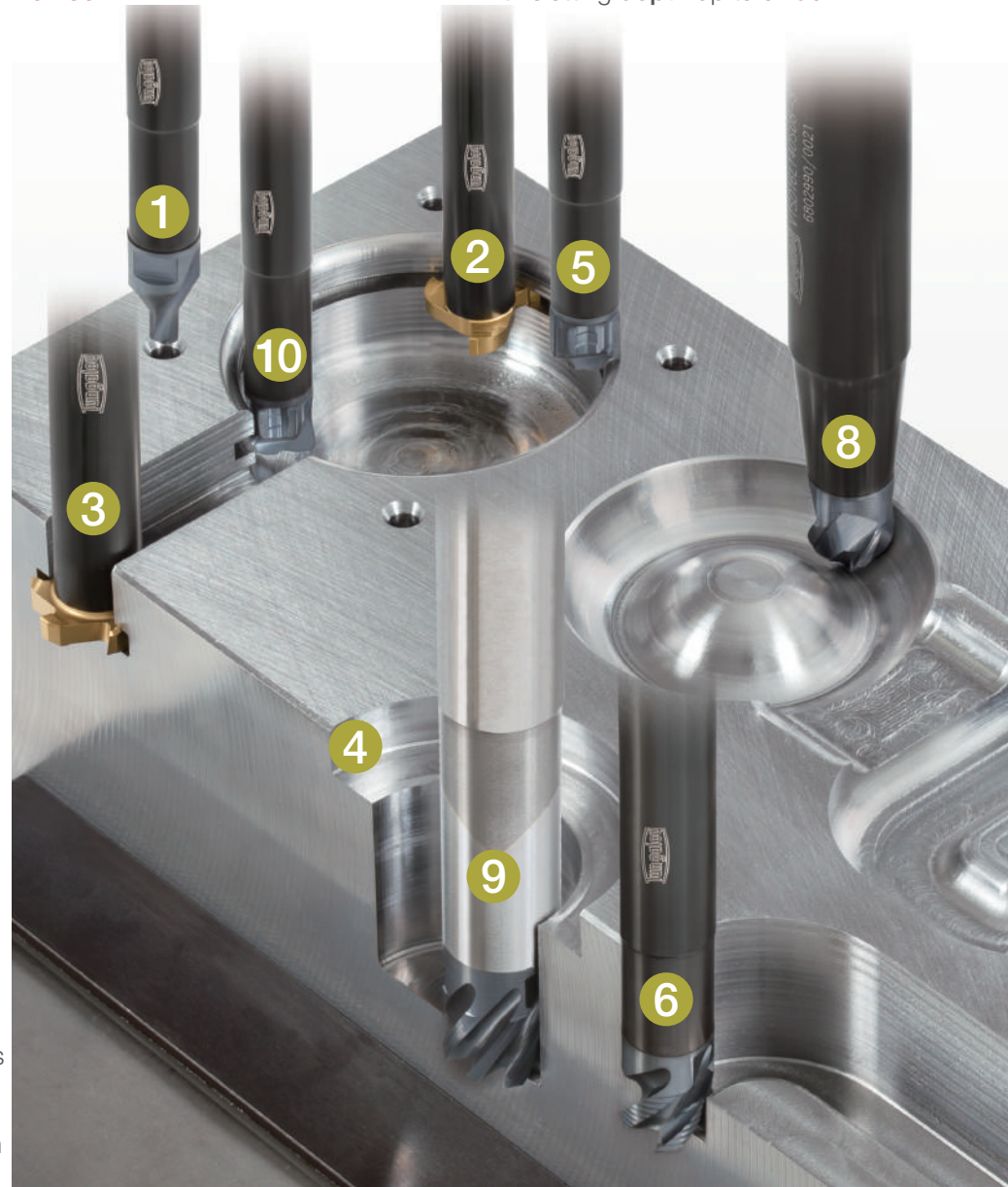
3
T-Slot milling
VTB head
6 flutes for high productivity
- Form slotting operation
- Slotting with corner radius and chamfer
- **Width range:** from $0.056''$ to $0.312''$ with slotting depth up to $0.190''$



4
Roughing & finishing combination head
VEE-C head
4 flutes / 45° helix
- Reduces cutting load and vibration due to combined roughing and finishing flutes
- **Range:** from $\phi 0.312''$ to $\phi 0.750''$ with possibility to machine almost any material



5
Concave radius milling
VCR head
2 flutes with concave radius
- For edge breaking and deburring
- Useful for machining edges of pockets or holes for easy entry of male parts in an assembly
- **Range:** from $\phi 0.315''$ to $\phi 0.787''$ with concave radii of $R0.039''$ to $R0.236''$



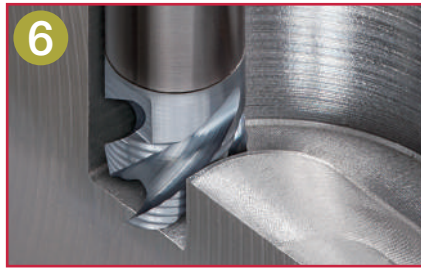
High flexibility
with only
one shank



23 types of
cutting
heads

3 shank
materials

All in one!

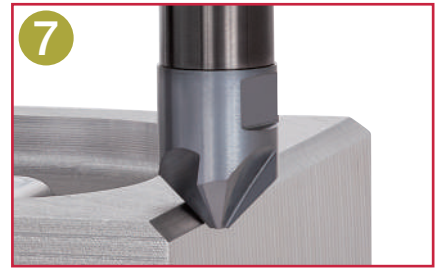


6
Low cutting force, rough
milling solution

VEE-R head

4, 5, 6 flutes / 45° helix

- High performance head with low cutting force
- Large depth of cut at high feed rates
- **Range:** from $\phi 0.312''$ to $\phi 0.750''$ with corner chamfer to reduce burr on the component



7
Chamfering, deburring,
and countersinking
solutions

VCA head

4, 6 flutes with center cutting edge

- Convenient design for deburring and countersinking, eliminating manual operation

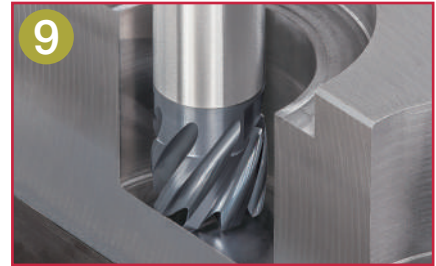


8
Ballnose endmills for
profiling and finishing
operations

VBD / VBE-BG head

4 flutes / 30°, 45° helix

- High precision heads for finishing and profiling operations
- **Range:** from $\phi 0.250''$ to $\phi 0.750''$ with tight radius tolerances of $\pm 0.004''$ to $\pm 0.005''$



9
Highly productive, finish
milling solution

VEE / VED head

6, 8, 10 flutes / 30°, 45°, 50° helix

- Suitable even for superalloy and hardened steel finishing
- Available in different helix angles to machine poorly clamped components
- **Range:** from $\phi 0.625''$ to $\phi 0.750''$ with corner radii from **R0** to **R0.062''**

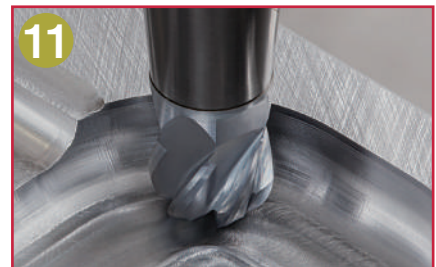


10
High feed in small
diameters

VFX head

2 flutes / high feed milling solution for high productivity

- **Range:** from $\phi 0.375''$ to $\phi 0.750''$ with depth ranging from **0.020''** to **0.059''** and feed up to $.079''/rev$



11
Endmills with corner radius
for profiling and shoulder
milling operations

VRD / VRB head

2, 6 flutes with back taper design

- Heads for profiling, corner radius, and shoulder milling operations
- **Range:** from $\phi 0.312''$ to $\phi 0.750''$ with corner radii from **R0.031''** to **R0.312''**

Quick Change Drilling Head

Tungaloy's System

Vs

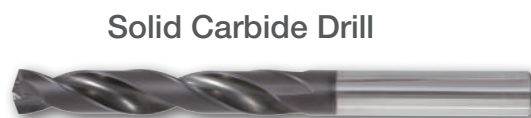
Others

Economical

Uses a replaceable carbide head

Costly

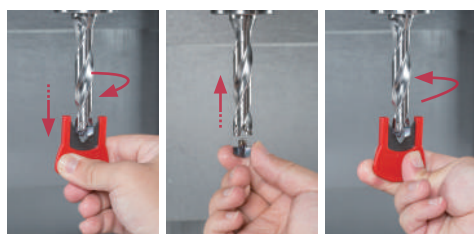
Expensive solid carbide drill



No Setup Time

Reduce machine downtime by replacing the head on the machine

Inefficient

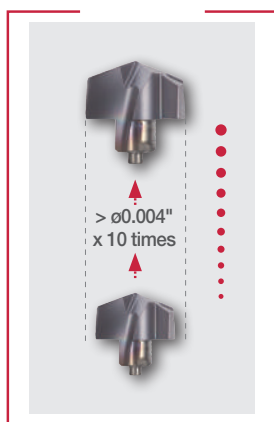


< 1 min



Versatile

Tool range in increments of 0.004" covers from $\varnothing 0.394$ " to $\varnothing 0.783$ "; 10 different heads in 0.004" increments mount on each drill body



x 10 = Covers for hole diameter range from $\varnothing 0.394$ " to $\varnothing 0.783$ "

Tungaloy America, Inc.

3726 N Ventura Drive, Arlington Heights, IL 60004, U.S.A.

Inside Sales: +1-888-554-8394

Technical Support: +1-888-554-8391

Fax: +1-888-554-8392

www.tungaloyamerica.com

Tungaloy Canada

432 Elgin St. Unit 3, Brantford, Ontario N3S 7P7, Canada

Phone: +1-519-758-5779 Fax: +1-519-758-5791

www.tungaloy.co.jp/ca

Tungaloy de Mexico S.A.

C Los Arellano 113, Parque Industrial Siglo XXI

Aguascalientes, AGS, Mexico 20290

Phone: +52-449-929-5410 Fax: +52-449-929-5411

www.tungaloy.co.jp/mx



Scan for instant
web access



www.tungaloyamerica.com

follow us at:

facebook.com/tungaloyamerica

twitter.com/tungaloy

To see this product in action visit:

Tung-TV

www.youtube.com/tungaloycorporation

Distributed by:



DOWNLOAD
Dr. Carbide App



Available on the
App Store



GET IT ON
Google play