Tool management system

Find Tools and download CAD drawings and 3D models

www.tungaloy.com/ecatalog
www.tungaloy.com/threadmilling
www.tungaloy.com/atlas
www.tungaloy.com/insertguide
www.tungaloy.com/matrix

Tungaloy's new CNC program generator facilitates thread milling programming

New Smartphone Application to explore the wide range of Tungaloy solutions

Find Tungaloy's first recommendations for Turning operations

E-Catalog
ThreadMilling Advisor
Tungaloy Atlas
Insert Selection Guide
Matrix

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Tungaloy's new CNC program generator facilitates thread milling programming

www.tungaloy.com/threadmilling

New Smartphone Application to explore the wide range of Tungaloy solutions

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www.tungaloy.com/insertguide
Cost-effective shoulder milling cutter for high productivity

Features:
- 6-cornered design for an economic advantage
- Concave cutting edge & optimized rake angle form barrel-shaped chips, delivering smooth chip evacuation
- Max. ap: 0.433"

Cutter bodies: Available Grades:
- TPTN12 (Shell type): 2.000" - 5.000"
- EPTN12 (Shank type): 1.250" - 1.500"

- AH120, AH3135, T1215, T3225
- TNMU-R-MJ
  - Insert with large corner radius for high toughness.
- TNMU-MJ
  - Economical molded M-class insert with wiper edge
- TNGU-MJ
  - Periphery ground G-Class insert with wiper edge
- TNMU-NMJ
  - Grooves on the cutting edge produce small chips, reducing cutting force and chip volume.
DoTriple-Mill features an improved dovetail clamping structure and offers a triple advantage of using square, octagonal, and round inserts in the same pocket.

**Face milling cutter** with 3 types of double-sided inserts

**Features:**

- **Cutter bodies:**
  - **TASN13 (Shell type):** 2.000" - 6.000"

**Available Grades:**

- **AH120, AH3135, T1215, T3225**

**SNMU / SNGU**

- 8-cornered insert, Max. ap - 0.236"

**ONMU / ONGU**

- 16-cornered economical insert, Max. ap - 0.133"

**RNMU**

- 8-cornered radius insert for high feed and general machining, Max. ap - 0.236"
Face Milling Cutter with an 8-edged Insert for Ultimate Clearance

Features:
Improves ease of machining around fixtures, clamping systems, and side walls.
Face milling cutter with maximum clearance and economy.
No interference with side walls, fixtures, and clamping systems.

Cutter bodies:
THSN12 (Shell type): 2.000" - 4.000"
Available in both course and standard pitch

Available Grades:
AH120, AH3135, T1215, T3225

SNMU1206... MM
With 8 cutting edges, Max DOC: 0.374"
Available in R0.031" (with wiper), R0.047", and R0.079"
Suitable for machining close to side walls in various workpieces
Square shoulder milling endmills with small diameter and exceptional stability and productivity

Features:
- V-shaped insert bottom increases contact area and improves stability.
- Sharp cutting edge with positive rake face ensures smooth cutting.
- Large screw improves clamping rigidity.
- Max. ap: 0.236"

Cutter bodies:
- EPAV (Shank type): 0.313" - 1.000"
- HPAV-M (Modular type Metric thread):
  10 mm (0.394") - 16 mm (0.630")
- HPAV06-S (Modular type TungMeister thread):
  10 mm (0.394") - 16 mm (0.630")

Available Grades:
- AH120, AH130, AH3135, KS05F

AVGT-MJ
- Suitable for steel, stainless steel, cast iron, and superalloys.
- With corner radius 0 - 0.032"

AVGT-AJ
- Suitable for non-ferrous metal due to its polished rake face.
- With corner radius 0 - 0.032"
Small-diameter high feed milling cutter with impressive machining efficiency and reliability

Features:

Strong insert corner for high feed operations
Thick insert corner is designed to withstand fracturing force

Robust and easy-to-handle insert screws
M2 screws reduce screw neck shears under high cutting forces. A larger screw enhances insert’s fixation and easy handling.

Cutter bodies:
EXLS (Shank type): 0.375” - 0.625”
HXLS (Modular type, TungFlex):
8 mm (0.315”) - 16 mm (0.630”)

Available Grades:
AH3225, AH8015

High feed insert (LSMT-HM)
Max. ap: 0.02”

R2 insert (LSMT-MM)
Max. ap: 0.079”
Economical double-sided insert with sharp cutting edges

Features:

Double-sided insert with positive cutting edges.

Same insert applicable for both Bore Line and External Line.

Bore Line: Minimum diameter of ø 0.5"

External Line: Suitable for small parts machining with lower cutting force similar to conventional positive inserts. Shank sizes: 0.375" - 1.00". Also available in high pressure coolant thru design - CHP.

Ground insert for highly accurate machining.

Max. ap: 0.078"

Available Grades:

SH725, AH725, NS9530, GT9530, KS05F

WXGU 80° corner angle with 6 cutting edges

DXGU 55° corner angle with 4 cutting edges

VXGU 35° corner angle with 4 cutting edges

All inserts available in multiple geometries. Corner radius: 0.004" - 0.016"
Multi-purpose grooving line.

Economical insert with 4 cutting edges

Features:

Unique 3-point clamping system
The insert pocket protects all unused cutting edges
(TCT Threading inserts also available)

Machining stability

TCG / TCS
- Corner R: 0.004” - 0.012”
- Honed edge

To improve ...
- Chipping
- Tool life

TCP
- Corner R: 0.002” - 0.004”
- Lightly honed edge

TCP-F
- Corner R: 0.002” - 0.004”
- Sharp edge (not honed)

Cutting edge sharpness

TCS type
for general machining

TCM type
for high feed machining or parting-off

Groove widths: 0.013” - 0.118”

Groove widths: 0.020” - 0.125”

Also available in high pressure coolant thru design - CHP.
Versatile tools for Grooving and Side-turning operations

Features:

CHP, high-pressure internal coolant supply ensures smooth chip evacuation, while improving machining efficiency in higher parameter applications.

New modular blade system provides machining security and efficiency as well as tool cost reduction.

New Grade AH7025 for general purpose. New PVD coating with high Al content provides excellent adhesion strength. Improves wear and chipping resistance.

Enhanced chipbreaker selections in combination with AH7025 grade offers productivity and stability in a wide range of materials and applications.

Other Available Grades:

AH725, T9125, GH130, KS05F, NS9530, AH905, TH10
Deep hole drilling with remarkable productivity and stability

Features:

Good chip control and smooth chip evacuation achieved due to the special insert geometries

Drill bodies for lathes, machining centers, and gundrill machines:

MCTR... for machining centers: Stocked in 8xD, 10xD, 15xD, 20xD, and 25xD.

TRLG... for gundrill machines: Offered up to the length of 94.48”. The minimum length is 15.74”.

Also available in a variety of drill holding drivers for different types of spindle interfaces.

Guide pads GP...: Equipped with 2 usable edges.

Insert: TOHT... (with chip splitter) Available in 5 sizes to cover DC 0.55” to 1.10”

Insert: FBH... FBM... Available in 3 and 4 sizes respectively to cover DC 1.14” to 1.57”
Changeable head drill system
for solid productivity

Features:

**Excellent cutting performance and tool life** due to new head geometries and innovative grade AH9130

Dovetail interlocking system enhances drill head stability and simplifies drill set up

Drill bodies:

**TID flange type:** Available in 1.5xD, 3xD, 5xD, 8xD, and 12xD (12xD to be used with collets or hydro-grips)

**TIDC straight type:** Suitable for use with TIDCF chamfer holders

**TIDCF chamfer holder:** Available with 3 types of inserts in chamfering angles of 30°, 45°, and 60°

**Drill head:**
- **DMP... (AH725) DMC... (AH9130)**
- **DC:** ø0.236” - ø1.02” in increments of 0.0039”

**DMP (AH725)**
General purpose for various materials and machining situations

**DMC (AH9130)**
Self-centering point and double margins ensure excellent hole diameter accuracy and roundness
Indexable drill with 6 cutting edged insert for high productivity

Features:

Double-sided insert with 6 cutting edges.

One type of insert is applicable for both central and peripheral pockets to simplify inventory.

Twisted coolant holes allow the cross section of flutes to be large and increase coolant volume.

Drill bodies:
TDS: Available in L/D 2, 3, and 4
\( \phi Dc: \phi 0.812" - \phi 2.000" \)

Available Grades:
AH3135, AH9030, AH6030

WWWU-DJ
Size: 05, 06, 08, 09, 11, and 13
DJ: Well-designed and suited for general steel, cast iron, and hard materials.

WWWU-DS
Size: 05, 06, 08, 09, 11, and 13
DS: The first choice for mild steel, such as stainless steel and low carbon steel.
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