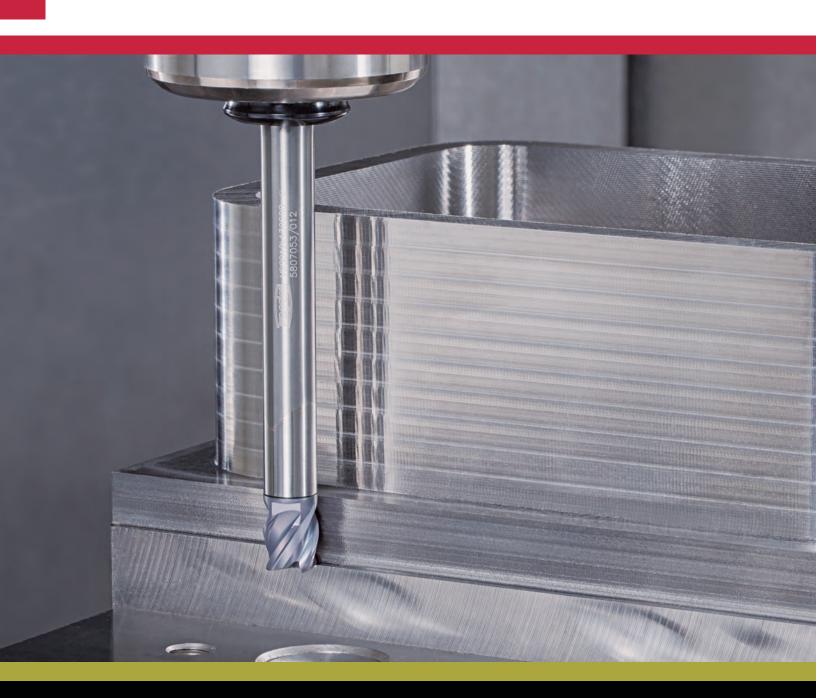






w w w.tungaloy.com/us Tungaloy Report No. 381S1-US

New Grade AH715 for longer tool life









TUNGMEISTER



The most effective tooling solution with the option of hundreds of tools!

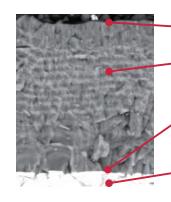
Tool changeover times can be measurably reduced!



The new grade provides longer tool life thanks to the latest coating layer

New AH715

 Unique nano-multilayered coating is made possible with Tungaloy's latest coating technology, providing 3 principal features



Feature 1: Resistance to built up-edge

Coating layer to resist built up-edge

Feature 2: Resistance to wear, oxidation, and fracture

2 coating layers for wear and oxidation resistance Layered alternatively to prevent crack from propagating to fracture

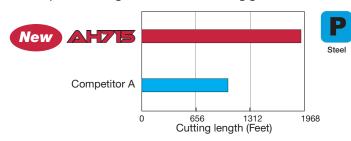
Feature 3: Strong coating-substrate adhesion

Coating is provided with strong adhesion between the coating layer and carbide substrate to prevent coating delamination

Substrate

Carbide substrate features wear and fracture resistance

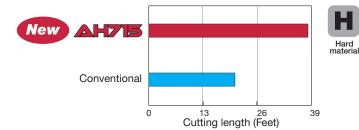
Tool life comparison in steel milling
AH715 provides longer tool life than existing grade



Shank : VSSD16L100S10-S Head : VED160L12.0R05-04S10

Workpiece material: 1055

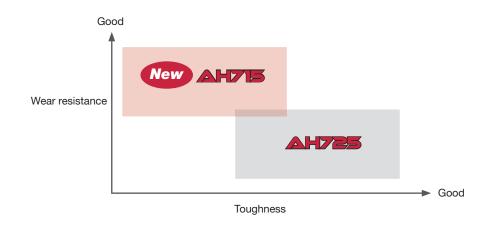
 $\begin{tabular}{lll} Cutting speed & : Vc = 492 sfm \\ Feed per tooth & : fz = 0.005 ipt \\ Depth of cut & : ap = 0.197" \\ Width of cut & : ae = 0.059" \\ Machine & : V M/C, BT40 \\ \end{tabular}$



Shank : VSSD16L100S10-S Head : VED160L12.0R05-04S10

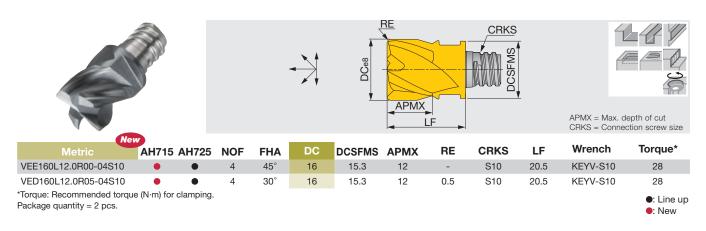
Workpiece material : H-13 (HRC58)
Cutting speed : Vc = 197 sfm
Feed per tooth : fz = 0.002 ipt
Depth of cut : ap = 0.197"
Width of cut : ae = 0.020"
Machine : V M/C, BT40

APPLICATION RANGE



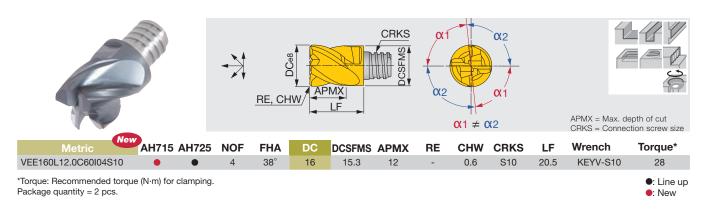
VEE**-04..., VED**-04...

TungMeister square head with 4 flutes for general purposes



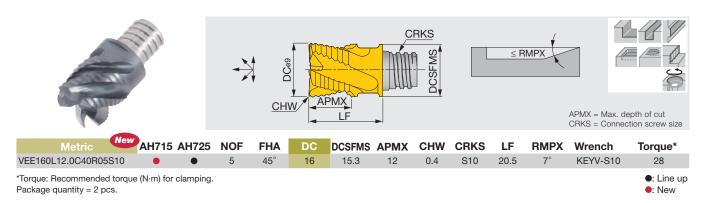
VEE**I...

TungMeister square head with irregular pitch flute for chatter free cutting



VEE**R...

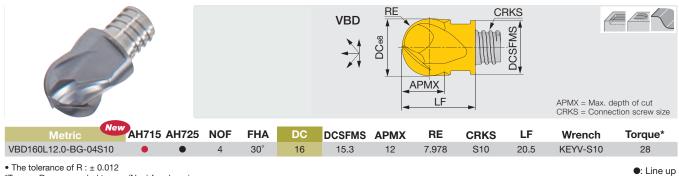
TungMeister square head with serrated edges for roughing





VBD**-BG...

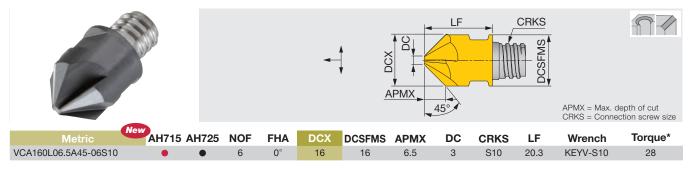
TungMeister ball nose head with 4 flutes and helical ground edge for finishing



 $[\]bullet$ The tolerance of R: \pm 0.012

VCA**-06...

TungMeister head with 4 or 6 flutes for countersinking and chamfering



^{**}Torque: Recommended torque (N·m) for clamping. Package quantity = 2 pcs.

•: Line up : New

: New

^{*}Torque: Recommended torque (N·m) for clamping.

Package quantity = 2 pcs.

PRACTICAL EXAMPLES

Workpiece type	Cover	Bolt sheet
Shank	VSSD16L100S10-S (Steel, ø16)	VSSD16L100S10-S (Steel, ø16)
Head	VED160L12.0R05-04S10 (ø16)	VED160L12.0C60I04S10 (ø16)
Grade	AH715	AH715
Workpiece material	Class 25	60-40-18
ω Cutting speed: Vc (sfm)	820	197
Feed per tooth: fz (ipt) Depth of cut :ap (in) Width of cut :ae (in)	0.005	0.003
⊒ Depth of cut :ap (in)	0.039	0.079
ีวี <mark>S</mark> Width of cut :ae (in)	0.394	0.630
[©] Coolant	Dry	Wet
Results	TUNGMEISTER Conventional tool AH715's latest coating technology improved wear and chipping resistance. The result was 1.5 times longer and with more stable tool life than the conventional tool.	1.4 times longer AH715's latest coating technology improved wear resistance. The result was 1.4 times longer than the conventional tool with good surface finish.

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.tungaloy.com/us

Tungaloy Canada

432 Elgin St. Unit 3, Brantford, Ontario N3S 7P7, Canada Phone: +1-519-758-5779 Fax: +1-519-758-5791 www.tungalov.com/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.com/mx



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