

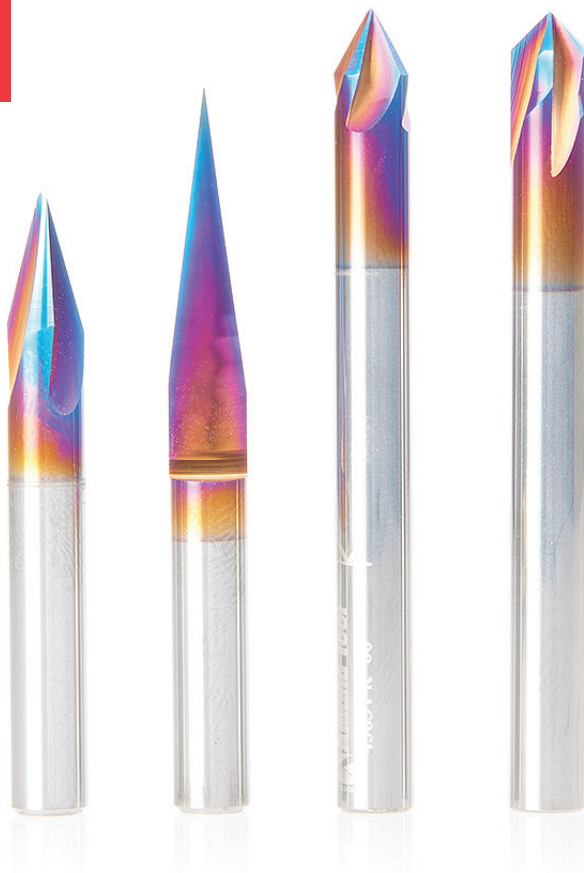
4-Pc CNC Pack No.

# AMS-312-K

 **SPEKTRA**<sup>™</sup>  
EXTREME TOOL LIFE COATING

UP TO  
**2.5X**  
LONGER LIFE  
COMPARED TO UNCOATED BITS

 **Amana Tool**<sup>®</sup>



**INDUSTRIAL**

**CNC SIGNMAKING  
& ENGRAVING PACK**

**1/4"**  
SHANK

Made in USA.

## INDUSTRIAL

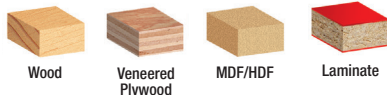
# 4-PC CNC 15°, 30°, 60° & 90° V-GROOVE, SIGNMAKING & LETTERING PACK

**SOLID CARBIDE • 1/4" SHANK**

*Designed Specifically for a Wide Variety of Applications*

Congratulations on the purchase of your new Amana Tool® CNC set,  
a premier signmaking & engraving CNC router bit set.

### Material Key Chart:



**Vectric**  
PASSIONATE ABOUT CNC

Free Vectric Master .tool File Database  
can be found on [www.amanatool.com/vectric](http://www.amanatool.com/vectric)

### ⚠ Vectric File Warning:

The Vectric .tool file should only be used in conjunction  
with the Amana Tool® item number specified.  
Using this file with other brands is dangerous  
to the operator and CNC machine.

\*RPM: Revolutions Per Minute \*\*IPM: Inches Per Minute



#45611-K

## ENGRAVING

Solid Carbide

Angle:	15°
Tip Width:	0.005"
Cutting Height:	0.93"
Shank:	1/4"
Overall Length:	2-1/4"
Flutes:	1 Flute
CNC Running Parameters:	
RPM:	18,000*
Feed Rate:	50" IPM**
Ramp Down Rate:	50" IPM**





#45634-K

## V-GROOVE

Solid Carbide

Angle: **30°**

Diameter: **1/4"**

Cutting Height: **27/64"**

Shank: **1/4"**

Overall Length: **2"**

Flutes: **3 Flute**

CNC Running Parameters:

RPM: **18,000\***

Feed Rate: **90" IPM\***

Ramp Down Rate: **30" IPM\*\***



#45631-K

## V-GROOVE

Solid Carbide

Angle: **60°**

Diameter: **1/4"**

Cutting Height: **7/32"**

Shank: **1/4"**

Overall Length: **2-1/2"**

Flutes: **4 Flute**

CNC Running Parameters:

RPM: **18,000\***

Feed Rate: **90" IPM\***

Ramp Down Rate: **22.5" IPM\*\***



#45633-K

## V-GROOVE

Solid Carbide

Angle: **90°**

Diameter: **1/4"**

Cutting Height: **1/8"**

Shank: **1/4"**

Overall Length: **2-1/2"**

Flutes: **4 Flute**

CNC Running Parameters:

RPM: **18,000\***

Feed Rate: **90" IPM\***

Ramp Down Rate: **22.5" IPM\*\***



**Many More *CNC* Router Bit Sets Available!**



**Questions?**  
Call the Technical Hotline

(800) 445-0077  
+1 (631) 752-1300

[www.amanatool.com](http://www.amanatool.com)



**Must Read Before Use**  
**Safety Guidelines for Router Bits**  
[www.amanatool.com/safety](http://www.amanatool.com/safety)