

Number={Numeric Number} Tool number in library, arbitrary number assigned by user, avoid using tool numbers already used by Carbide3d.

Vendor={Text} Manufacturer of Tool

Model={Text} Model Number of Tool

URL={<https://example.com> 1} Vendor URL for model of bit, in form of hyperlink

Name={Text} Human Readable Name

Type={Text} End,Ball,Vee,Engraver

Diameter=Diameter of bit, Dependent on “Metric” setting

Cornerradius=that is the radius of a ball-nosed end mill, Dependent on “Metric” setting

Shaftdiameter={Numeric Number} Diameter of bit shaft, Dependent on “Metric” setting (.25, .125, 4MM, 8MM)

Angle={Numeric Number} That is the angle of a Vee endmill expressed in degrees

Numflutes=Number of Flutes on bit

Stickout=Another bit of future-proofing, that would be how much of the endmill projects from the collet.

Coating={Text} name of coating on bit

Metric={1,0} 1=Metric 0=Imperial

Notes={Text} field for notes

Machine={Nomad, Shapeoko} What type of machine the feeds and speeds are for

Material={Text} these are the curated materials from Carbide3d Tool Databases. One can enter feeds and speeds for any sort of material one wishes — one is not limited to just the materials which Carbide 3D has done feeds and speeds for — the program queries the list of materials in all the Tool Libraries which it loads and displays that entire list.

Plungerate={Numeric Number} Rate which CNC will plunge bit. Dependent on “Metric” setting.

Feedrate={Numeric Number} InchPerMinute (IPM)/Meters per Minute (MPM) which CNC will move bit. Rate depends on “Metric” field

RPM={Numeric Number} Revolutions per minute of router

Depth={Numeric Number} Depth of Cut (DOC) per pass. Rate depends on “Metric” field

Cutpower=Future-proofing for the possibility of doing chip load calculations I believe.

Finishallowance={Numeric Number} How much material is left uncut when making a 3D roughing pass. Rate depends on “Metric” field

3dstepover={Numeric Number} Stepover is percentage of endmill diameter.

3dfeedrate={Numeric Number} Characteristics for cutting in 3D tool paths. Rate depends on “Metric” field

3drpm={Numeric Number} RPM of Spindle} Characteristics for cutting in 3D tool paths

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Name=Human Readable Name
Type=End,Ball,Vee,Engraver
Diameter=Diameter of bit
Cornerradius=that is the radius of a ball-nosed endmill
Shaftdiameter=Diameter of bit shaft
Angle=That is the angle of a Vee endmill.
Numflutes=Number of Flutes on bit
Stickout=Another bit of future-proofing, that would be how much of the endmill projects from the collet.
Coating=Text, name of coating on bit
Metric={1,0} 1=Metric 0=Imperial
Notes=Text, field for notes
Machine=What type of machine the feeds and speeds are for — Nomad or Shapeoko
Material=these are the curated materials from Carbide3d Tool Databases
Plungerate=Rate which CNC will plunge bit
Feedrate=InchPerMinute (IPM) Rate which CNC will move bit. Rate depends on "Metric" field
RPM=Revolutions per minute of router
Depth=Depth of Cut (DOC) per pass. Rate depends on "Metric" field
Cutpower=Future-proofing for the possibility of doing chipload calculations I believe.
Finishallowance=How much material is left uncut when making a 3D roughing pass. Rate depends on "Metric" field
3dstepover=Characteristics for cutting in 3D toolpaths. Rate depends on "Metric" field
3dfeedrate=Characteristics for cutting in 3D toolpaths. Rate depends on "Metric" field
3drpm=Characteristics for cutting in 3D toolpaths. Rate depends on "Metric" field