

(91) Bottle Stopper, Pen, Project and Ring Turning Mandrels

Author: Wayne Racinowski Date: 7-17-2023

Here is a sampling of Mandrels used to turn Pen and Project kits. These are available from many suppliers around the world. Many are in the USA, Canada, Europe, Asia, etc. This information does not reference Amazon, eBay, Etsy, non-pen related or any other random suppliers. Additions and Comments are welcome.

- Some turners may use mandrels and bushings for convenience.
- Other turners may use bushings but only use them for reference. Finally, they may then turn blanks to size using a Caliper to the *exact* kit part diameters.
- Images of each of the items in this article may not be an actual representation from each supplier.
- Each item is numbered within an oval for the possibility of discussion by our members.
- Brief item descriptions are listed in **Red** as an overview.
- Links are provided at the end of this article to each supplier listed in the dotted boxes next to each item.
- Most Morse Tapper Mandrels are available in both MT1 or MT2.
- Most Kit Mandrels only accept the Type 'A' 7mm rod.
- The length of an Adjustable Mandrel is shortened using one of the following tools: (Slotted Wrench, Allen Wrench, Nut Spanner, Tommy Bar, Spanner Wrench, Sliding or by Hand).
- A "Making sense of mandrels", explaining history, usage, advantages and other information will be added soon.



Caliper

Safety Contribution: When using any mandrel, it must have a firm attachment to the head stock.

A head stock taper attachment MUST be turned with a tail stock center, support or Draw Bar.

Bottle Stopper and Project kit Mandrels.

Head stock Bottle Stopper Mandrels - Drill Chuck required. Kit requires Drill and Tap, Threaded Insert or glue.



1

Arizona Silhouette, Beartooth Woods, Berea, CWS, Drechselholzversand, Houtdraaiwerken, Rockler, Steves Woodcraft, Timberbits, Whiteside, Williams Pens, Woodcraft, Wood World of Texas



2

Beartooth Woods, Berea, Carbatec, CS Crafts, CWS, Mkleinkunst, Penkitz and Bitz, Penn State, Rockler, Williams Pens, Woodcraft

Head Stock Bottle Stopper Mandrel MT Mount – Drill Chuck required. Kit requires Drill and Tap, Threaded Insert, use glue or this mandrel may be Self-Tapping



3

Arizona Silhouette, Packard Woodworks, Ruth Niles, The Woodturning Store, Wood World of Texas

Head Stock Screw On Bottle Stopper Mandrel - Kit requires Drill and Tap, Threaded Insert or glue.



4

Carbatec, Exotic Blanks, Penn State, WoodTurningz, Wood World of Texas



5

Exotic Blanks, The Woodturning Store, Turners Warehouse, Woodchuckers, Wood World of Texas

Threaded Insert

6



Exotic Blanks, Klingspor's Woodworking Shop, Penn State, Woodchuckers, Woodsmith Store, WoodTurningz

Head Stock Bottle Stopper Mandrel – Requires Drill or Collet Chuck, Drill and Tap, Threaded Insert or glue.

7



Prokraft

Head Stock Screw On Anything Chuck System – Requires Drill and Tap, or Threaded Plug Inserts.

8



Penn State

Pen and Project kit MT Mount Mandrels using Bushings.

Never use the Lathe suppliers 30 Degree Tail Stock Live Center with Items 8-19. Use a Mandrel Saver or 60 Degree Live Tail Stock Center. The 30-degree center will damage the indent of the mandrel rod.

Replacement Mandrel Rod Type 'A' is 0.247 inch or 6.2mm, Type 'B' 0.291 inch or 7.2mm in diameter.

9



Beartooth Woods, Beaufort Ink, Berea, CS Crafts, CSUSA, Drechselholzversand, Exotic Blanks, Klingspor's Woodworking Shop, Hut, Pen Kit Mall, Penn State, Rockler, Stiles and Bates, Timberbits, Williams Pens, Woodchuckers, Woodcraft, WoodTurningz, Writing Turning Flipping

Pen Mandrel Non-adjustable System MT Mount – Bushings and Live Center or 'Mandrel Saver' Required.

10



11



Arizona Silhouette, Berea, Carbatec, CSUSA, CWS, Exotic Blanks, Grizzly, Hut, Lee Valley, Legacy Woodturning, Peach Tree, Penn State, Pen-kits, Pops Shed, Prokraft, Rockler, Taylor Toolworks, The WoodTurning Store, Turners Warehouse, Williams Pens, Woodchuckers, Woodcraft, Wood Pen Pro, WoodRiver, Writing Turning Flipping

Axminster, Klingspor's Woodworking Shop, The Woodturning Store, Turners Retreat, Wood Blanks & Penkits, Wood World of Texas

Pen Mandrel Adjustable System MT Mount - Bushings and Live Center or 'Mandrel Saver' Required.



12

Beartooth Woods, BG Artforms.
Carbatec, Charnwood, CS Crafts,
CSUSA, CWS, Exotic Blanks, Gary Pye,
Houtdraaiwerken, Legacy
Woodturning, Klingspor's
Woodworking Shop, Mayama, Mk-
Kleinkunst, Peach Tree, Pen-kits,
Penkitz and Bitz, Penn State, Pops
Shed, Rockler, Steves Woodcraft,
Stiles and Bates, The Woodturning
Store, Timberbits, Williams Pens,
Wood Pen Pro, WoodTurningz, Wood
World of Texas



13

CS Crafts, Woodcraft, WoodRiver



14

Peach Tree, Whiteside, Woodcraft



15

KMS Tools, Lee Valley, Olivers
Woodturning, UK Pen Blanks



16

Axminister, Drechselholzversand,
Greenville Crafts,
Houtdraaiwerken, The
WoodTurning Store, Turners
Toolbox, Turners Workshop, UK
Pen Blanks, Willy Vanhoutte,
Writing Turning Flipping



17

Lee Valley, Stiles and Bates,
WoodTurningz



18

Axminster, KMS Tools, The
Woodturning Store

Pen Mandrel Adjustable Hand Tighten Keyless MT Mount - Bushings and Live Center or 'Mandrel Saver' Req'd.



19

Arizona Silhouette, Carbatec,
Exotic Blanks, Penn State

Pen Mandrel Non-adjustable Screw On Head Stock – Bushings and Live Center or 'Mandrel Saver' Required.



20

Arizona Silhouette, Penn State,
Timber Turners,
WoodTurningz, Wood World
of Texas

Pen Mandrel Complete 'Saver Style' Adjustable MT Mount using Bushings.



21

Gary Pye

22



Axminister, Bear Hollow Supply, Carbatec, Exotic Blanks, KMS Tools, Penn State, Pen Kit Mall, Pops Shed, The Woodturning Store, Timber Turners, Woodchuckers, WoodTurningz

23



Axminister, Taylors Mirfield, The WoodTurning Store, The Woodturning Store, Turners Toolbox, Woodpeckers

24



Beaufort Ink, Greenville Crafts, Houtdraaiwerken, Klingspor's Woodworking Shop, UK Pen Blanks

25



Klingspor's Woodworking Shop, UK Pen Blanks

Pen Mandrel Savers MT Mount.

Tail Stock Live Center, use with a Standard Type 'A' Mandrel Rod (0.247 inches) or 'D' Drill Rod (0.246 inches).

26



Carbatec, Exotic Blanks, Grizzly, Houtdraaiwerken, Klingspor's Woodworking Shop, Peach Tree, Penn State, Timber Turners, Turners Warehouse, Woodchuckers, Woodcraft

27



Axminster, Charnwood, CS Crafts, Dictum, Drechselholzversand, Feinesholz, Houtdraaiwerken, Klingspor's Woodworking Shop, Packard Woodworks, Pen-kits, Penkitz and Bitz, Penn State, Olivers Woodturning, Steves Woodcraft, Stiles and Bates, Taylor Toolworks, The Woodturning Store, Turners Retreat, Turners Workshop, Williams Pens, Willy Vanhoutte, Wood Blanks & Penkits, WoodTurningz

28



Axminster, Grizzly, Klingspor's Woodworking Shop, Mk-Kleinkunst, Nova, Peach Tree, Pen Kit Mall, Rockler, The Woodturning Store, Timberbits, Turners Warehouse, Woodchuckers, WoodTurningz, Wood World of Texas

29



Axminster, Taylors Mirfield, The WoodTurning Store

Mandrel System Turn Between Centers MT Mount - Standard Bushings Required; Mandrel Rod Not Required.

30



31



Bear Hollow Supply, BG Artforms, Exotic Blanks, Houtdraaiwerken, Penn State, The WoodTurning Store, WoodTurningz

Pen and Project kit Mandrels, often used as Turn Between Centers using Special 60 Degree Bushings MT Mount.

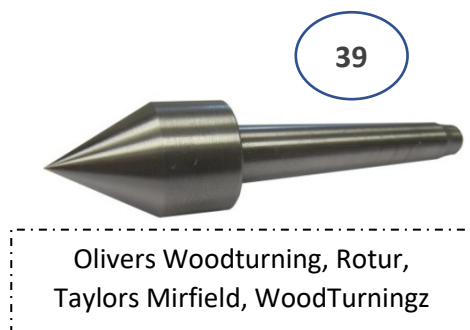
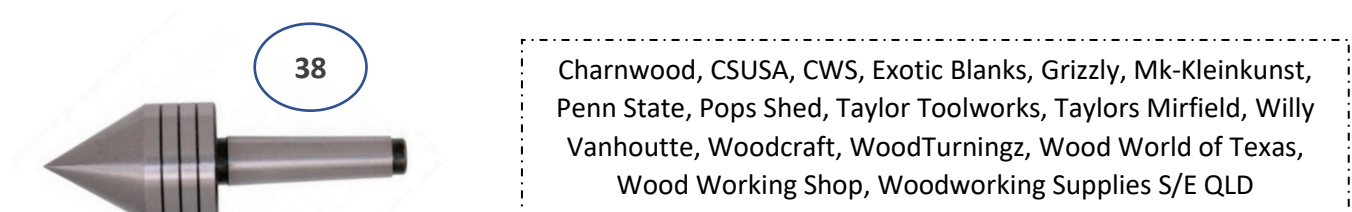
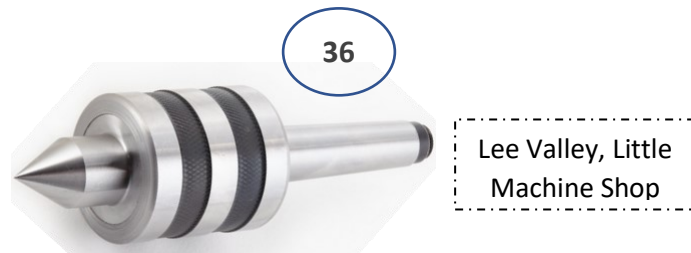
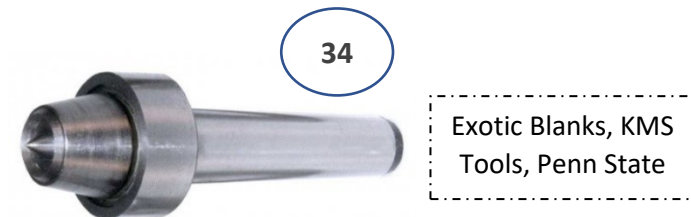
Never use the Lathe suppliers 30 Degree Tail Stock Live Center. It will damage the indent of the mandrel rod.

Dead Center Head Stock 60 Degree MT Mount.

Dead Center Head Stock 60 Degree Requires Drill or Collet Chuck.



Live Centers Tail stock 60 Degree MT Mount



Pen Mandrel 'Saver Style' and Multi Tip Live Centers MT Mount.

Live Centers Tail stock for Finials.

41

Prokraft



42



Dictum, Klingspor's Woodworking Shop,
Olivers Woodturning, Packard
Woodworks, Stiles and Bates, The Turners
Workshop, Rotur, Woodturningz

Pen and Project kit 60 degree Bushings often used with Live and Dead Centers.

Turn between center bushings - These bushings fit between your Dead and Live Centers, no mandrel required.

43



Beartooth Woods, Exotic
Blanks, Turners Warehouse,
WoodTurningz

44



Classic Nib, Williams Pens,
TBC Bushings, Ring Supplies

45



Taylor's Mirfield

Closed End Pen and Project kit Mandrel, sized for the kit.

Closed End Expandable Mandrel 'Big Grabber' MT Mount - Includes common Bushings and Bladders.
Sized from 10.5mm to 9/16" Tubes.

46



Exotic Blanks,
Houtdraaiwerken, Penn State,
Steves Woodcraft,
WoodTurningz

The Grabber Closed End Mandrel System MT Mount - Bushings Required.

47



Timber Turners, Turners
Workshop, Woodchuckers

Pen Mandrel 'Pin Style' Twist to Lock, 'Closed End', each sized for the kit tube – Requires Drill or Collet Chuck & Tail Live Center.

48



CSUSA, Feines Holz, Williams Pens,
Often DIY Custom Made

Pen Mandrel Expandable 'Closed End', each sized for the kit tube – Requires Drill or Collet Chuck, Tail Live Center and Special Supplied Bushing.

49



Arizona Silhouette, CSUSA, Houtdraaiwerken

Pen Mandrel for 'Closed End' Pens, each sized for the kit tube – Requires Drill or Collet Chuck, Tail Live Center.

50



Beaufort Ink, Lee Valley, Turners Warehouse

51



Bullseye Turning Supply

Pen Blank Mandrel Jaws Adjustable Width with Standard Lathe Chuck.

2 Jaw Chuck Mount.

52



Berea, CSUSA, Dictum,
Exotic Blanks, Gary Pye,
Greenvil Crafts, Grizzly,
Nova, Penn State, Rockler,
The Woodsmith Store, The
Woodturning Store,
Turners Retreat, William
Wood-Write,
Woodturningz

53



Axminster, Dictum,
Nova, The
Woodturning Store

Head Stock Screw On Adjustable Width Pen Blank Mandrel Jaws.

54



Exotic Blanks, Penn State,
Rockler, Timber Turners,
Turners Warehouse,
Woodcraft, Wood Turnings

Ring Mandrels used without bushings.

Professional Expandable Ring Mandrel Set – Requires Drill or Collet Chuck.

55



Bangle Guy, CSUSA, Exotic Blanks, Greenville
Crafts, Ring Supplies (CA), Ring Supplies (UK),
Rockler, Turners Warehouse, Williams Pens

56



CSUSA, Exotic Blanks, Ring Supplies (CA),
Ring Supplies (UK)

Ring Unimandrel – No Bushings Required, Requires Drill or Collet Chuck.

57



Ring Supplies (CA), Turners Warehouse

Ring Mandrel Includes Expanding Nylon Sleeves - Requires Drill or Collet Chuck.

58



Opal Ring Supply, Ring Supplies (AU)

Matched Pair of Ring Centers MT Mount.

59



60



Axminster, Woodchuckers, Woodturning Store

Ring Mandrel used with supplied bushings.

Ring Turning Chuck - Screw On Head Stock.

61



CSUSA, Greenville Crafts, Ring Supplies UK

Ring Turning Chuck - Drill or Collet Chuck Required.

62



Gerhard Liebensteiner

Ring Mandrel DIY – Hand made.

No Bushings are Required, Requires Chuck Jaws and Wedge or Live Center.



63



64

65



Game Call Mandrel

Head Stock Mounted using a Collet Chuck or Drill Chuck.



66

One Step Tools

67



Brookside Game Calls



68

Penn Tool Co.

69



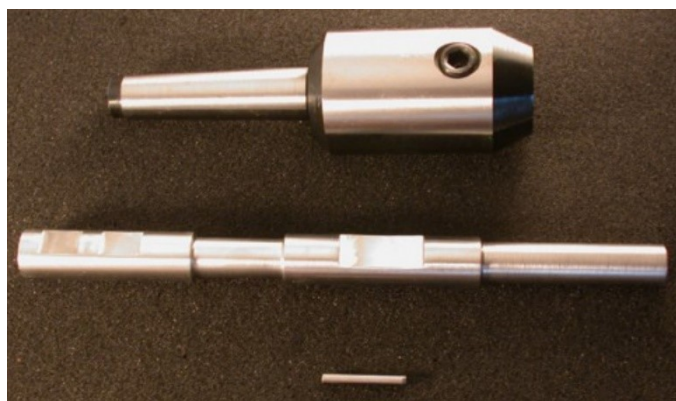
CSUSA, Woodmaster

70



Chefware Kits

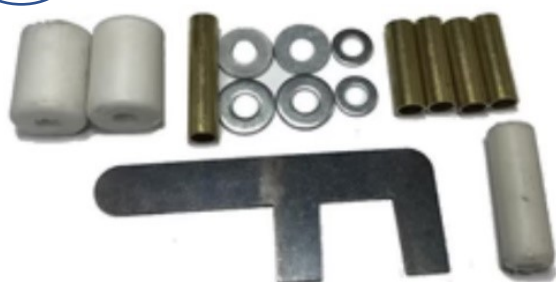
71



Web Foot Custom Calls

Pen Mandrel Mounted

72



Hut Products, Klingspor's

73



Woodcraft, WoodWorks of Texas,
Beartooth

74

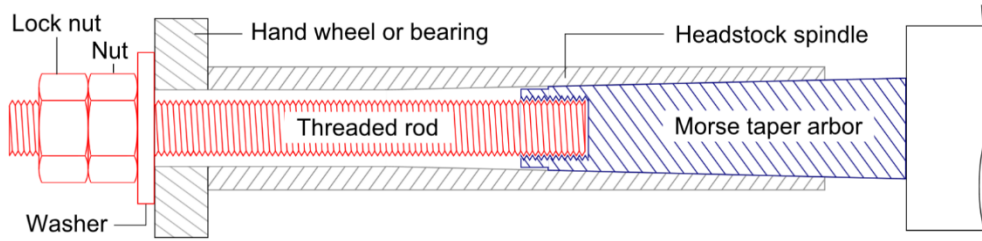


Do-It-Yourself

Drawbar

Head Stock Mounted to Retain Morse Taper Arbors, Drill Chucks and Mandrels that have a threaded end.

75



Beaufort Ink

Drill Chucks can be used as simple Turn Between Center Mandrels, Standard 'A' or 'B' mandrel rods, bushings and Live center.

Head Stock Drill Chuck MT Mount.



76

Bear Hollow Supply, Exotic Blanks, Grizzly, KMS Tools, Nova, Peach Tree, Steves Woodcraft, Taylor Toolworks, Timber Turners, Turners Warehouse, UK Pen Blanks, Williams Pens, Woodchuckers, WoodTurningz

Head Stock Screw On Drill Chuck.

77



Exotic Blanks,
Penn State

Tail Stock Live Drill Chuck MT Mount.

78



Bear Hollow Supply, Exotic Blanks,
Grizzly, Penn State, Pops Shed

Keyless Drill Chuck Head or Tail Stock MT Mount.



79

Bear Hollow Supply, Beaufort Ink, Exotic Blanks, Grizzly, KMS Tools, Nova, Ring Supplies (CA), Timber Turners, Woodworking Supplies S/E

Drill Chuck Tail Stock MT Mount – Multi Tip Live Centers.



80

Axminster The Woodturning Store, Woodchuckers



81

Axminster, CSUSA, Lee Valley

Tail Stock MT Mount- Multi-Tip Live Centers.



82

CWS



83

Grizzly, Nova, Rockler, Woodcraft, Wood Smith Store

Optional turning items

Non-Stick Bushings for CA Glue Finishing.

84



Arizona Silhouette, Exotic Blanks, The Golden Nib, Greenville Crafts, Houtdraaiwerken, Klingspor's Woodworking Shop, Pen Kit Mall, Pen-kits, Penkitz and Bitz, Prokraft, Steves Woodcraft, Timberbits, WH Creations, Wood World of Texas



85

Penn State

Delrin Bushings for the Comfort Ring Cores.

86



CSUSA, Exotic Blanks, Ring Supplies (CA),
Rockler, Woodcraft, WoodRiver

Head Stock Screw On Collet Chuck Set - use Standard 'A' or 'B' Mandrel Rods with Bushing or Simple Turn Between Center Mandrels.

87



Beall, Beaufort Ink, CSUSA, Exotic Blanks, Penn
State, Turners Warehouse, Wood World of Texas

Head Stock MT Mount Collet Chuck Set - use Standard 'A' or 'B' Mandrel Rods with Bushing or Simple Turn Between Center Mandrels.

88



Grizzly, Woodcraft, Woodriver

Head Stock MT Mount Drawbar Collet Chuck Set

89



CSUSA

Drill, Tap, Tap Wrench and Screw On Head Stock Mandrel – Bottle Stoppers and other projects.



Exotic Blanks, Penn State, Turners Warehouse,
Woodchuckers, WoodTurningz, Woodworking Shop

YO YO Mandrel Head Stock MT Mount - Requires 'Mandrel Saver' or Tail Stock Live Center.



Packard Woodworks, Penn State,
William Wood-Write, WoodTurningz

Links to Suppliers listed above.

Arizona Silhouette
Axminster Tools & Machinery
Bangle Guy
Beall
Bear Hollow Supply
Bear Tooth Woods
Beaufort Ink
Berea Hard Woods
BG Artforms
Brookside Game Calls
Bullseye Turning Supply
Carbatec
Charnwood
Chefware Kits
Classic Nib
Craft Supply USA (CSUSA)
CS Crafts
Cws Online
Dictum
Drehselholzversand

<https://www.arizonasilhouette.com>
<https://www.axminstertools.com/>
<https://www.bangleguy.com/>
<https://bealltool.com/>
<https://bearhollowsupply.com/>
<https://www.beartoothwoods.com>
<https://www.beaufortink.co.uk/>
<https://www.bereahardwoods.com>
<https://www.bgartforms.com/>
<https://www.brooksidegamecalls.com/>
<https://bullseyeturningsupply.com/>
<https://www.carbatec.com.au>
<https://charnwood.net/>
<https://chefwarekits.com/>
<https://www.classicnib.com>
<https://www.woodturnerscatalog.com>
<https://www.cscrafts.co.uk>
<https://www.cwsonline.com.au/>
<https://www.dictum.com/>
<https://drehselholzversand.de/>

Arizona Silhouette
Axminster
Bangle Guy
Beall
Bear Hollow Supply
Beartooth Woods
Beaufort Ink
Berea
BG Artforms
Brookside Game Calls
Bullseye Turning Supply
Carbatec
Charnwood
Chefware Kits
Classic Nib
CSUSA
CS Crafts
CWS
Dictum
Drehselholzversand

Exotic Blanks	https://www.exoticblanks.com/	Exotic Blanks
Feinesholz	https://www.feinesholz.de/	Feines Holz
Garypye	https://garypye.ecwid.com/	Gary Pye
Gerhard Liebensteiner	https://www.liebensteiner-shop.de/	Gerhard Liebensteiner
Greenvill Crafts	https://www.greenvill.co.uk/	Greenvill Crafts
Grizzly	https://www.grizzly.com/	Grizzly
Houtdraaiwerken Penkits	https://www.houtdraaiwerken-penkits.nl/en/	Houtdraaiwerken
Hut Products	https://www.hutproducts.com/	Hut
Klingspor's Woodworking Shop	https://www.woodworkingshop.com/	Klingspor's Woodworking Shop
KMS Tools and Equipment Ltd.	https://www.kmstools.com/	KMS Tools
Leevalley	https://www.leevalley.com/	Lee Valley
Liebensteiner Shop	https://www.liebensteiner-shop.de/	Legacy Woodturning
Little Machine Shop	https://www.littlemachineshop.com/	Little Machine Shop
Mayama	https://www.mayama.com.au/	Mayama
Mk-kleinkunst	https://www.mk-kleinkunst.com/	Mk-Kleinkunst
Niles	https://nilesbottlestoppers.com/	Ruth Niles
Nova	https://www.teknatool.com/	Nova
Olivers Woodturning	https://www.oliverswoodturning.co.uk/	Olivers Woodturning
Opal Ring Supplies	https://www.opalringsupply.com/	Opal Ring Supply
Packard Woodworks	https://www.packardwoodworks.com/	Packard Woodworks
Peachtree Woodworking	https://www.ptreeusa.com/	Peach Tree
Pen Kits	https://www.beaufortink.co.uk/	Beaufort Ink
Pen-kits	https://www.pen-kits.co.uk/	Pen-kits
Penkit Mall	https://penkitmall.com/	Pen Kit Mall
Penkits and Bitz	https://www.penkitzandbitz.co.uk/	Penkitz and Bitz
Penn State Industries	https://www.pennstateind.com/	Penn State
Pen Tool Co.	https://www.penntoolco.com/	Pen Tool Co.
Pops Shed	https://www.popsshed.com.au/	Pops Shed
Prokraft	https://www.prokraft.co.uk/	Prokraft
Ring Supplies (Australia)	https://ringsupplies.com.au/	Ring Supplies (AU)
Ring Supplies (CA)	https://ringsupplies.com/	Ring Supplies (CA)
Ring Supplies (UK)	https://www.ringsupplies.co.uk/	Ring Supplies (UK)
Rockler	https://www.rockler.com/	Rockler
Ruth Niles	https://nilesbottlestoppers.com/	Ruth Niles
Steve's Woodcraft	https://www.steveswoodcraft.com.au/	Steves Woodcraft
Stiles and Bates	https://www.stilesandbates.co.uk/	Stiles and Bates
Taylor Toolworks	https://taytools.com/	Taylor Toolworks
Taylors Mirfield	https://taylorsmirfield.co.uk/	Taylors Mirfield
TBC Bushings	https://www.tbcbushings.com/	TBC Bushings
The Golden Nib	https://thegoldennib.com/	The Golden Nib
The Woodturning Store (TWS)	https://www.thewoodturningstore.com/	The Woodturning Store
Timber Turners	https://www.timberturners.com/	Timber Turners
Timberbits	https://www.timberbits.com/	Timberbits
Turners Retreat	https://www.turners-retreat.co.uk/	Turners Retreat
Turners Toolbox	http://www.turnerstoolbox.com/	Turners Toolbox
Turners Warehouse	https://www.turnerswarehouse.com/	Turners Warehouse
Turners Workshop	https://www2.theturnersworkshop.co.uk/	Turners Workshop

UK Pen Blanks	https://www.ukpenblanks.co.uk/	UK Pen Blanks
Web Foot Custom Calls	http://www.webfootcustomcalls.com/	WebFoot
WH Creations	https://www.whcreations.co.uk/	WH Creations
Williams Pens & Turning Supplies	https://williamspensandturningsupplies.com/	Williams Pens
William Wood Write	https://www.penblanks.ca/	William Wood-Write
Willy Vanhoutte	https://www.willyvanhoutte.com/	Willy Vanhoutte
Wood Blanks and Penkits	https://www.woodblanksandpenkits.nl/	Wood Blanks & Penkits
Woodchuckers	https://woodchuckers.com/	Woodchuckers
Woodpeckers	https://www.woodpeck.com/	Woodpeckers
Wood Pen Pro	https://woodpenpro.com/	Wood Pen Pro
Wood-N-Whimsies	https://www.woodnwhimsies.com/	Wood-N-Whimsies
Woodturningz	https://www.woodturningz.com/	WoodTurningz
Woodcraft	https://www.woodcraft.com	Woodcraft, WoodRiver
Woodsmith Store	https://thewoodsmithstore.com/	Woodsmith Store
Woodworking Supplies Qld	https://www.woodworkingsuppliesqld.com.au/	Woodworking Supplies S/E QLD
Wood World of Texas	https://woodworldtx.com/	Wood World of Texas
Writing Turning Flipping	https://www.writingturningflipping.com/	Writing Turning Flipping