



NORTH WARWICKSHIRE & HINCKLEY WOODTURNING CLUB

Newsletter September 2023

www.hinckleywoodturners.org.uk

Notes from the Editor

Inside you will find my report on Bob Taylor's thread cutting machine demo. Phil Steele also chipped in with some hand chased threads. Both methods proved very effective. I have enclosed a diagram of Bob's machine in case you would like to make one yourself.

Our second demo of the month was turning tulips by our in-house comedy duo Tony Baxter and John Evans. Apart from turning some very nice looking tulips, they kept us entertained with their banter and jokes.

Our next demo is Peter Carless on Tuesday 3rd October. He will be doing some inverted (involute) turning. Peter, a member of Tudor Rose club, did some very good online demos during Covid and has demonstrated at the club before.

Our AGM is on Tuesday 17th October. If you want to raise any issues, please see any member of the committee. We try to keep the meeting short to leave plenty of time for a hands-on session afterwards. Volunteers to help on the committee are also welcome.

Finally, our charity stall at Barwell carnival raised £125. We had to pay £25 for the stall, so we donated £101 to Air Ambulance. Thanks to all who helped on the day or donated items to sell.

Regards
Rob Sheehan

Thread Chasing Part 1 5/9/23

Bob Taylor



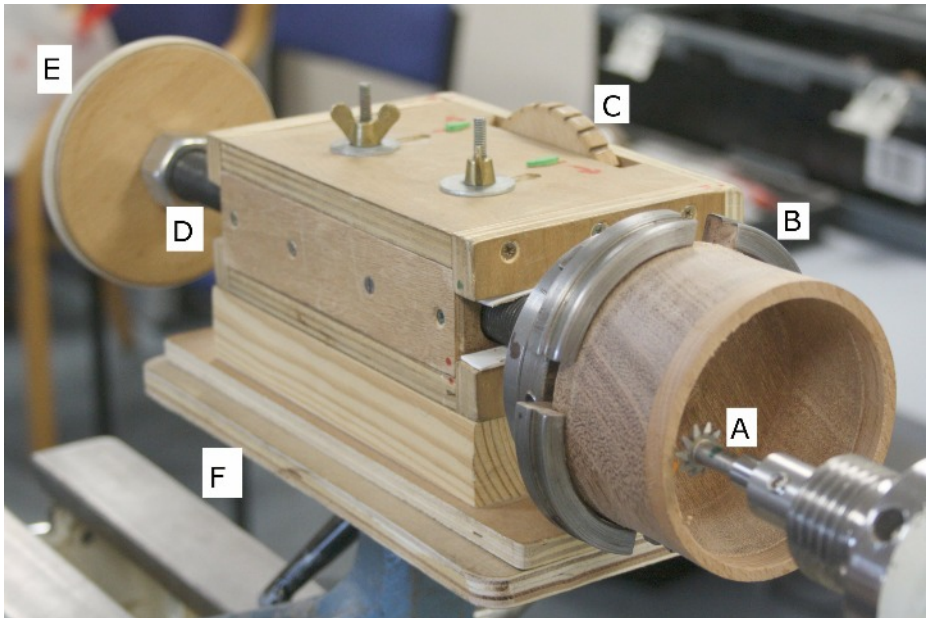
Bob Taylor, together with Trevor Bryant, have built a jig/machine for cutting threads on the lathe. Using wood instead of metal and using a modified base to fit onto the club's lathe, Bob cut both male and female threads on pre-turned boxes. The cutter was bought from Hope Woodturning for £35 (Simon Hope's thread cutting jig complete costs £285 + postage). Bob then mounted it in a morse taper carrier to fit into the lathe headstock. A draw bar

ensured the cutter can't come out of the taper. The lathe is run at its fastest speed for the best cut. The jig mounts on to the banjo. Bob had to create a new base for his jig so that it would fit the club's lathe.



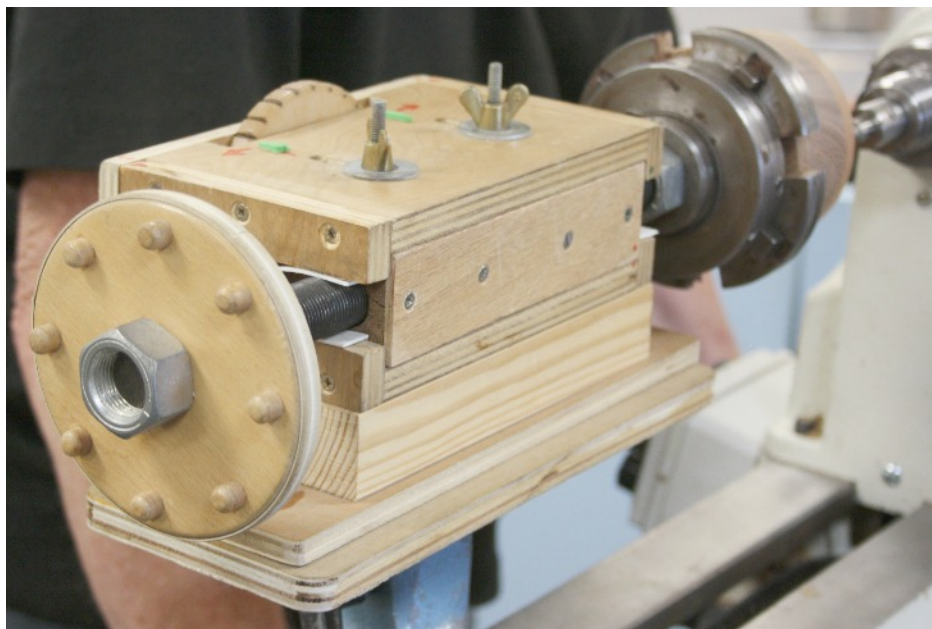
The jig is raised and lowered in the banjo to place the piece on centre height. A locking collar on the base shaft would ensure the cut height was right every time. As this was a new base, Bob had to manually raise and lower the jig until the height was correct. Movement of the banjo in and out provides coarse alignment of the box to the cutter. A wooden wheel on the side of the jig provides fine adjustment. The box to be threaded is held in a chuck. The chuck is mounted on the end of a threaded rod. The thread on the rod is then reproduced on the box. Threads are cut in stages, not all at once. Turning a wheel on the end of the jig moves the box into the cutter. The thread is cut both on the forward and backward

passes. A recess cut where the thread will end ensures the cutter does not bottom out on the side of the box. Either the male or female thread can be cut first using this jig. Typically, the female is cut first as it is easier to fit the male thread to the female thread. The jig can swing on the base plate so that the thread fit can be tested before the piece is removed from the jig. Using a jig like this will enable threads to be cut on more types of timber. Bob prefers to use Beech as it takes a good thread. He uses Beech inserts into the box so that all boxes can be threaded regardless of the timber. Other suitable timbers include Hawthorn, some Yew and hard Maple. The overlap between male & female pieces should be about 2mm before starting to cut the threads.

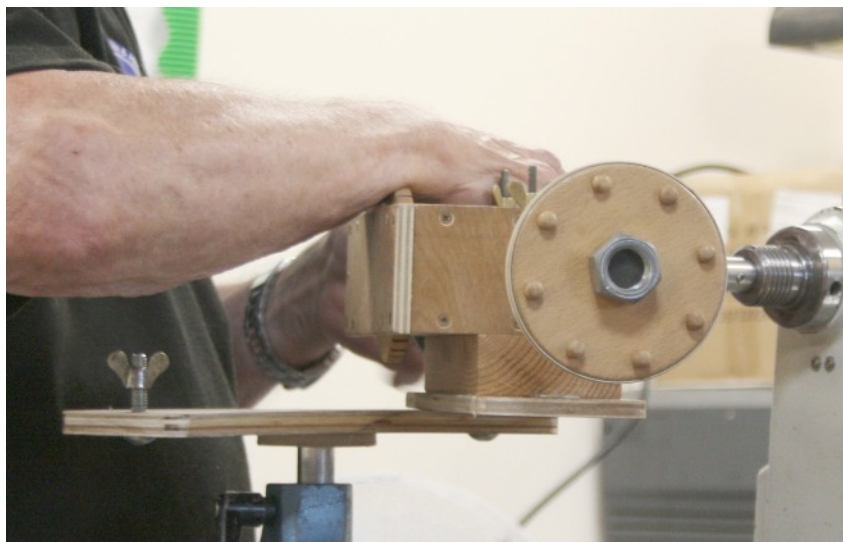


The jig set up to cut the female thread.

- A - Simon Hope cutter
- B - Chuck to hold the box
- C - Fine adjustment wheel side to side
- D - Threaded bar
- E - Wheel to move the box into the cutter
- F - Base Plate

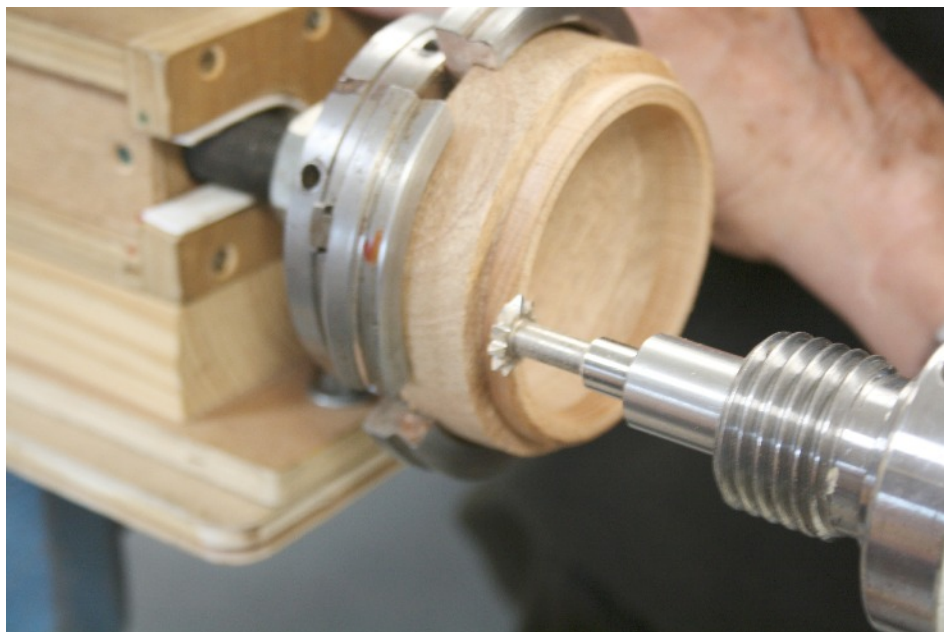


Jig from another angle



Swing Away

Jig swings away from cutter to test thread fit. Wing nut locks it back into place to cut thread deeper if necessary.



Cutting Male Thread

Draw Bar

Prevents cutter coming out of headstock taper



Threaded Box

An example of Bob's work.
Note the thread has been cut on a Beech insert.

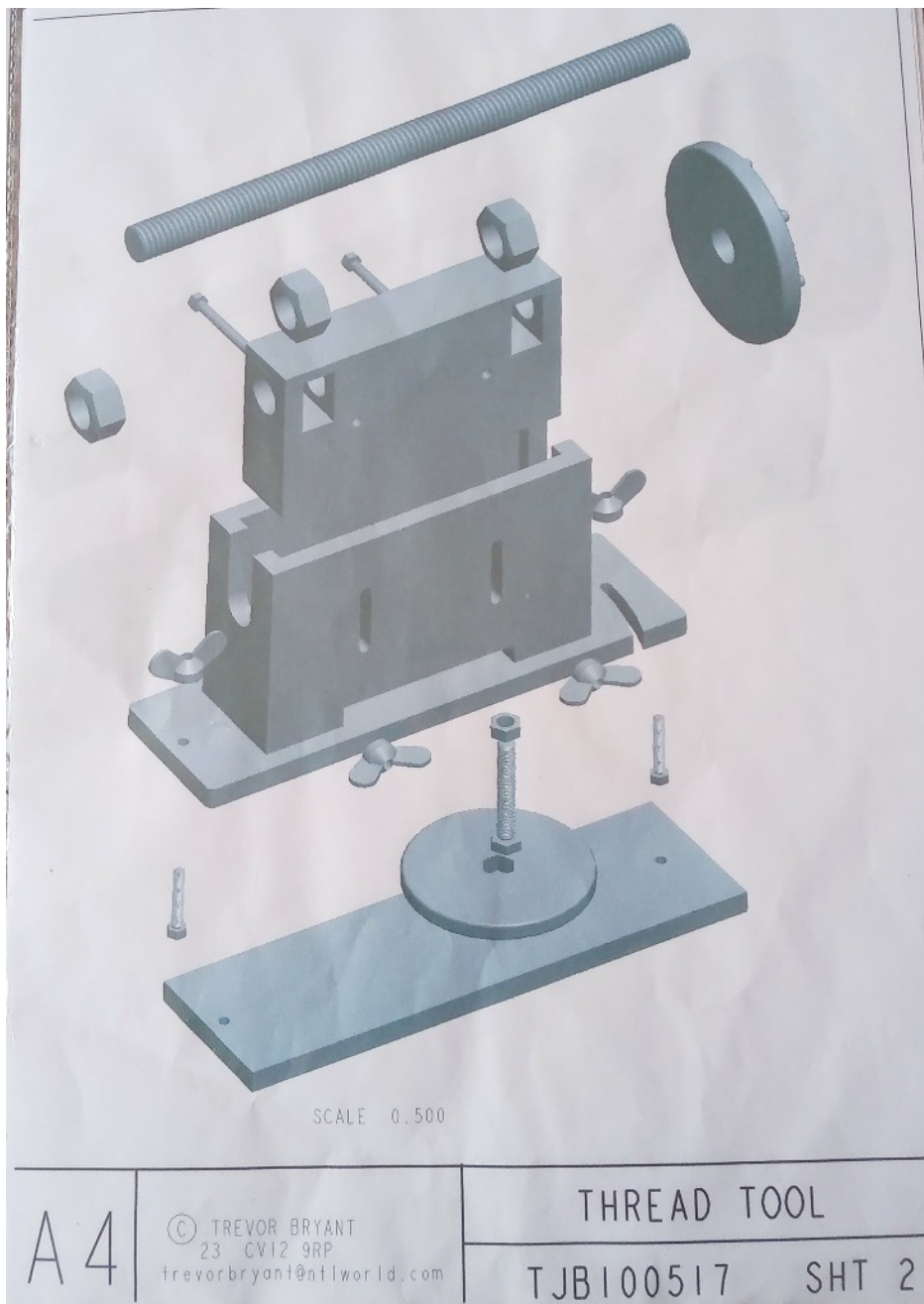


Diagram copyright (c) Trevor Bryant

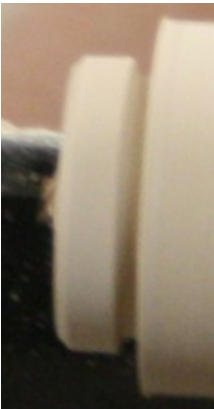
Thread Chasing Part 2 5/9/23

Phil Steele

Although not down to demonstrate, Phil kindly brought in his set of 16 tpi hand chasers and proceeded to make a small threaded box. He also helped others to have a go. Thanks Phil.



Phil cutting the male thread.



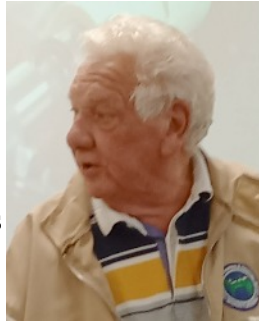
Clearance recess cut at the end of the section to be threaded.



The finished female thread.

Turning Tulips Tony Baxter and John Evans

Our own comedy duo of Tony Baxter and John Evans gave an interesting demo on turning tulips.



After a quick safety talk from Tony (wear safety shoes and goggles), they started with 6" x 2" builder's pine (better quality than DIY pine). They marked the centres and turned it down to 40mm diameter. Using a template, they marked out lines at 20mm, 40mm and 60mm from the end. 60mm being the length of the tulip bulb.



They then drilled a 30mm hole 45mm long, down the centre. They mounted it between centres and using a spindle gouge, rounded it from the 20mm line to the open end (drill hole) and from the 40mm line down to 20mm

diameter at the base. Finally, a gentle curve joining the two curves was turned, leaving the 40mm line as the highest point (still 40mm diameter). The inside and outside were sanded to 600 grit and a coat of sanding sealer applied. See the above picture of John with his velcro-topped sanding stick. Sanding sealer was applied to strengthen the timber and makes it easier to remove the layout marks. Using another template (cork shaped plug with 5 equally spaced radial marks, fitted in the drilled hole), they marked the top of each petal. They then made five more marks on the 20mm line. These were marked by eye half way between the outer marks. Finally, five



more marks were made on the 40mm line exactly in line with the marks on the 20mm line. Using a ruler, they drew two diagonal lines from a mark at the end to the marks on the 20mm line. This was repeated five times creating a zig-zag “V” pattern from the end marks to the marks on the 20mm line. The marks on the 20mm line were then joined with a straight line to the marks on the 40mm line. To avoid mistakes, they then marked a cross on the parts to be cut out. Using a Lidl pull saw (cost £9, 2 blades fine and coarse), they cut out the waste of the zig-zag pattern leaving “V” shaped petals. A hacksaw works ok too. Then they made straight cuts from the bottom of the “V” down to the 40mm line. The cuts



were sanded with 1" strip of abrasive. They then drilled through the centre with a drill bit the same size as the green garden dowel. If the drill bit isn't long enough, you can drill from the bottom instead. Finally, the bottom of the bulb was turned down and sawn off. The cut

end was then sanded. A green coloured dowel was glued into the hole.



A seed head was then turned to sit inside the bulb. Using the same piece of builder's pine, it was turned down to 28mm to fit inside the 30mm hole. The template had a 30mm hole, so the seed head could be sized to be an



easy fit. The seed head was turned with a domed top and a flat bottom, overall thickness about 10mm. After painting it orange and using a cocktail stick to dab on black paint dots, it was glued into the bottom of the hole in the tulip.



Members' Work

Some of the items on display during the demonstrations



Members' Work

Some of the items on display during the demonstrations



NORTH WARWICKSHIRE & HINCKLEY WOODTURNING CLUB EVENTS 2023

October	3rd	Inverted Turning	Peter Carless
	17th	AGM followed by Hands-On	
November	7th	TBD	
	21st	9-axis Honey Dipper	Ian Ethel
December	5th	TBD	
	19th	Christmas Party	

WOODTURNING CLUB EVENTS 2024

January	2nd	No Meeting	
	9th	Hands-On	
February	6th	TBD	
	20th	TBD	
March	5th	TBD	
	19th	TBD	
April	2nd	TBD	
	16th	TBD	
May	11/12	Woodworks at Daventry	

Events at Other Clubs

Please contact the club to check times/dates/locations before attending.

Coombe Abbey

Friday October 20th demo by club member Paul Fryer
Shilton Village Hall 6:30 - 9pm

West Midlands

Sunday 15th October Demonstration – Margaret Garrard

Tudor Rose

Thursday 26th October demo by Steve Heeley