NORTH WARWICKSHIRE & HINCKLEY WOODTURNING CLUB

Newsletter
February 2025

LOTTERY FUNDED

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www.hinckleywoodturners.org.uk

Notes From The Editor

Inside, you will find the report on my demonstration of making a CrushGrind Pepper Mill. Not everything went as planned but a few after-event tweaks produced a reasonable result.

My new bed extension for the Axminster 1416 lathe worked well. It enabled me to do the drilling comfortably rather than straining with the short-ish standard lathe bed. Another member has even ordered one for his own lathe.

If you do want to order anything from Axminster, we have a club account number 1197363. This gives you 10% discount on most Axminster items. You do have to ring the sales line as club orders can't be done online at the momemnt. Ordered items will be delivered to my home address, so please let me know when you order anything so that I can make sure I'm available to receive the delivery.

Treasurer Paddy Byrne has arranged a club account with Chestnut Finishes. This gives a 20% discount on their products which will be split 10% to the member and 10% to the club. Minimum order is £200, so you may have to wait until Paddy can make up a big enough order.

Subscriptions are now due. The AWGB have increased their subs to £24 per year. The club subs remain at £5 per year. Pay Paddy £29 asap.

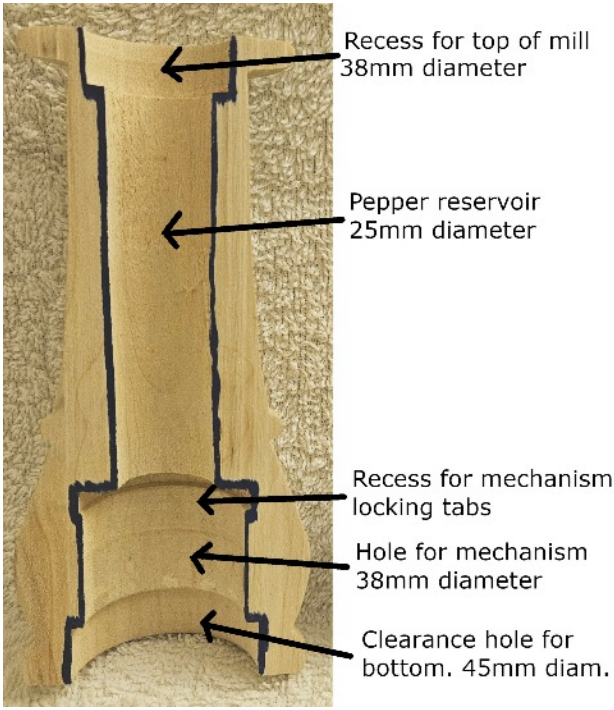
Our next meeting is a demonstration by Chris Parker (aka the Bald Turner) on Tuesday 4th March.

Rob Sheehan
Secretary, Newsletter Editor & Web Site Manager

CrushGrind Pepper Mill
by Rob Sheehan 18/2/25

I started with a Tulipwood/American Poplar blank 3” x 3” x 18” that cost £9.14 from Dalmann. After cutting the length down to 10”, I turned it to round and added a chucking tenon.
The bed of the club’s Axminster 1416 lathe was made longer with an Axminster 8” extension bed cost £89 (including club discount).

1) Drill a 45mm hole deep enough to clear the bottom of the mechanism.
2) Drill a 38mm hole 34mm deep for the mechanism.
3) Use the recess tool to cut a recess for the mechanism locking tabs.
4) Drill a 25mm hole for the pepper reservoir. Drill from both ends if the drill bit is not long enough to dril right through.
5) Flip the blank and drill a 38mm recess for the top of the mill.
6) Drill the 25mm pepper reservoir to meet the existing hole.



In the previous drilling instructions, only the 38mm hole in step 2, has to be accurate. The mechanism needs to be a push fit to prevent it from rotating in use. The other holes can be turned or drilled to a different diameter.

The recess tool mentioned in step 3 can be bought from Crown (best price £45.65) or Robert Sorby (£45.66), or you could make your own. You can even glue the mechanism in place or ignore the locking tabs completely.

Crown recess tool

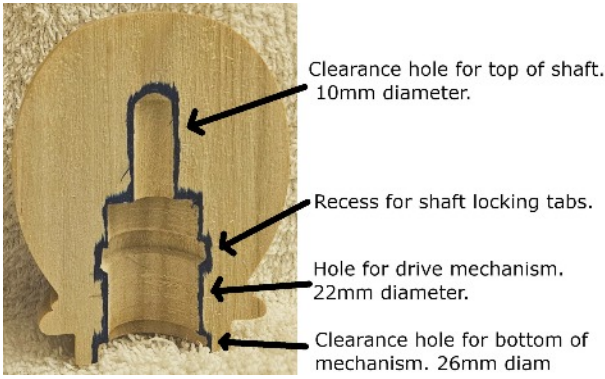
To hold the mill once the holes have been drilled, I used spigot jaws from Axminster. You can also make a jam chuck.

Once the holes have been drilled, the outside can be shaped as necessary. The mechanism shaft is aluminium, so it can be shortened as necessary.

I wanted a pepper mill in the shape of a chess queen, to match a chess king that I had turned earlier. Using callipers and a parting tool, I turned down the diameters of the beads to match the king and used beading tools to turn the beads. I then turned the areas in between to match the shape of the king.

With the remaining blank mounted in the chuck, the top of the pepper mill can be turned. Clean up the end and ...

1) Drill a 26mm clearance hole for the bottom of the mill's drive mechanism. I use a 25mm forstner bit and open it up to fit.
2) Drill a 22mm hole 28mm deep for the drive mechanism.
3) Use the recess tool to create a recess for the locking tabs starting 19mm up from the bottom of the mechanism.
4) Drill a 10mm clearance hole for the excess drive shaft.



Shape the outside as necessary.

Create a tenon to fit into the top of the body. This wants to be a loose fit. Use callipers to measure and keep testing until the fit is right.

As before, I wanted the top to be a queen chess piece to match a king chess piece turned earlier. So I measured the bottom bead diameter of the king and cut a matching bead on the queen.

Then, without prior planning, I tried to shape the rest of the queen's head - a ball topped by a crown. The ball was too big so I had to make it smaller. The crown started OK but I needed better access from the top to get the shape right. Post demo, I held the bottom of the top in Axminster 80mm C-jaws which gave me good access to finish shaping the top.

For the outside of the pepper mill, any finish can be used. I use Chestnut cellulose sanding sealer, followed by wax. I have also used spray paint and lacquer.

For the inside of the mill, I usually leave it as plain, sanded wood. The inside must be food safe, so a food safe finish can be used if you prefer.

Assembling the Pepper Mill

The grinding mechanism and top drive mechanism are both push fit into the drilled holes. I use the tail stock quill to push against the body supported by the chuck. The bottom of the mechanism has a grind size adjustment knob. Do not push against this or you will break the mechanism. I use a donut shaped piece of wood. This pushes against the outside of the mill with the hole in the middle leaving room for the grind size knob. Make sure the protruding shaft goes through the cente hole of the chuck as you wind in the quill to push the mechanism home. A piece of plastic pipe (38mm diameter) also works as the push ring.

The top is even easier. Support the top against the chuck (with paper etc., To avoid marking it. Push the drive mechanism in with the tail stock quill.

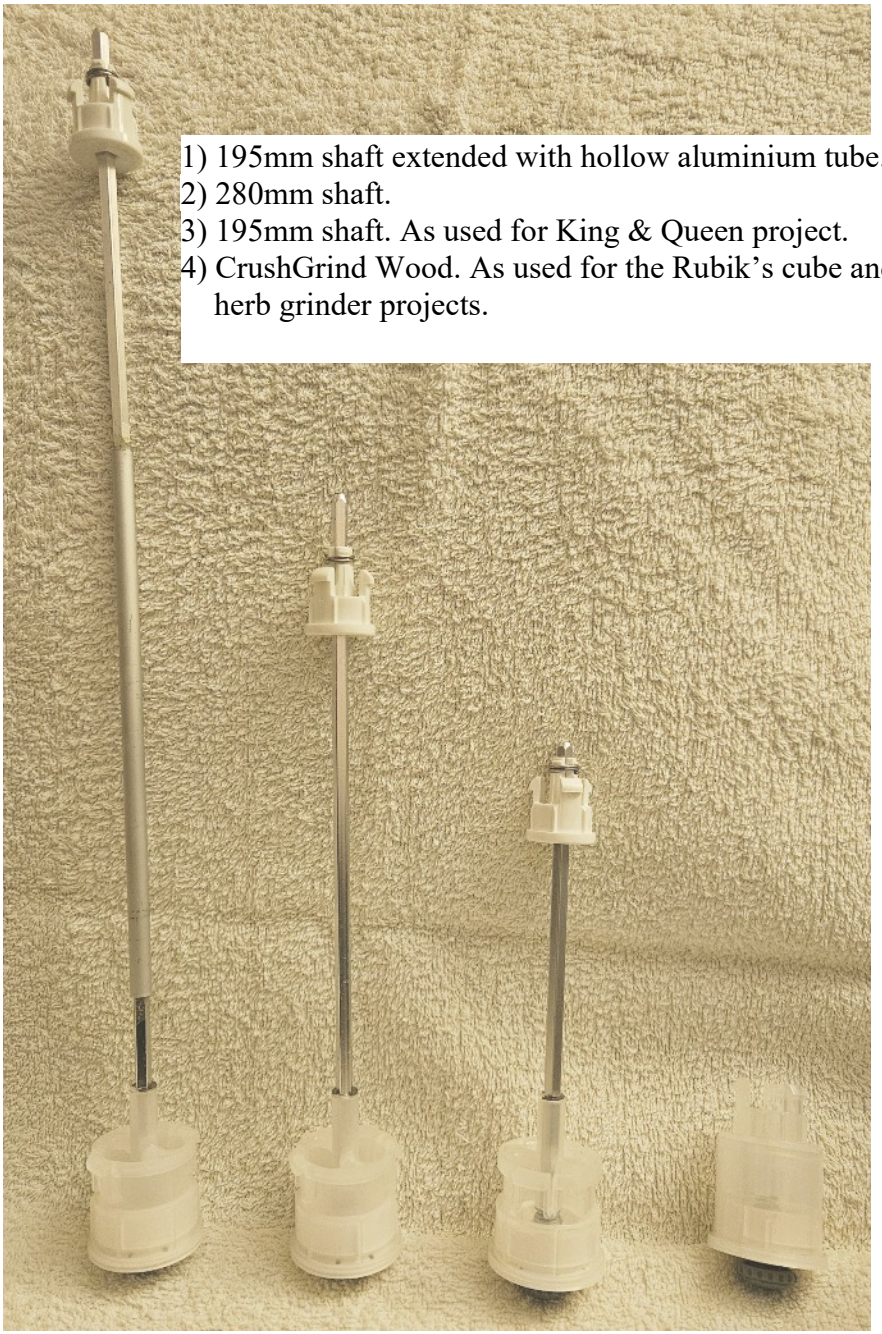
The finished King and Queen Pepper Mills

Some other ideas for Pepper Mills and Salt Shakers

Left:
Tall pepper mills made by extending the length of the mechanism with hollow aluminium tube.
Modern and traditional shaped mills.

Below:
Whole peppercorns.
Salt shakers.
Herb mill.
Beatles (Yellow Submarine) mill. One of a set of four.
Rubik's Cube mill.

CrushGrind Pepper/Salt Mill Mechanisms



1) 195mm shaft extended with hollow aluminium tube.
2) 280mm shaft.
3) 195mm shaft. As used for King & Queen project.
4) CrushGrind Wood. As used for the Rubik's cube and herb grinder projects.

Items For Sale

Disclaimer

The club is not responsible for any item appearing on this page. The buyer and seller must make their own arrangements as to the condition, suitability, delivery, payment and price etc.

Ken Croft's wife is selling his lathe, turning tools and machinery. Collection only, from Coventry.
If you are interested, contact Rob Sheehan 07905185122 or robsheehan@virginmedia.com. I have enclosed a few pictures here. The rest will be sent on request. I have not been given any prices.

Items For Sale

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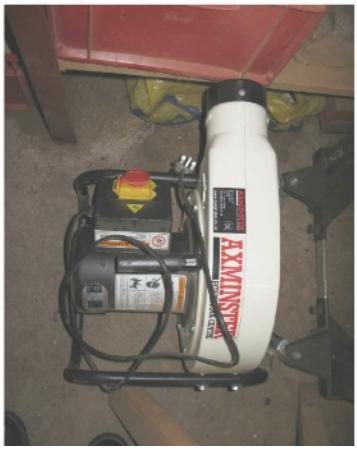
Chris Trivett 0116 2312 954 or via email chrisptrivett@gmail.com is selling some machinery on behalf of his Father-in-law. Collection only, from near Market Bosworth.
Editor: I have not seen the equipment so I can't advise on its suitability. Chris is not a member of the club.

Item	Model	Additional Description
Wood-Turning Lathe	Record Power DML 36SH Serial No. 002269	Year of Construction 2001 450/950/2000 RPM 36" Spindle & 12" Bowl Lathe sits on welded steel bench. Selection of turning tools may also be separately available.
Pillar Drill	Naerok GP13	1/2" Capacity Power supply through switched isolator box
Bandsaw	Powerline Bk2 (2 Speed)	
Extract System	Axminster 1 HP	Registered in 2003 c/w Selection of extract hoses and gaits
Circular Saw	Metabo Tk 1688 W No 43506830001	Magnum Series Supported on welded steel frame
Planer Thicknesser	AEG:- HV 82/102 & EH 102	With wood stand

Lathe

Chris Trivett Items for Sale - continued

Extract System and Planer Thickness



Pillar Drill

Bandsaw

NORTH WARWICKSHIRE & HINCKLEY
CLUB EVENTS 2025

January	7th	Hands-On	
	21st	Demo	Chris Grimshaw
February	4th	Hands-On	
	18th	Demo	Rob Sheehan - Pepper Mill
March	4th	Demo	Chris Parker (Bald Turner)
	18th	Demo	Martin Randall
April	1st	Demo	John Evans + Tony Baxter
	15th	Hands-On	Daventry Preparation
May	5th	Hands-On	Daventry Preparation
	9/10th	Woodworks at Daventry	
	20th	Demo	Bob Smith
June	3rd	Demo	Phil Steele - Pole Lathe
	17th	TBD	

Events at Other Clubs

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

Coombe Abbey

Friday February 21st demo by Paddy Byrne
Shilton Village Hall 6:30 pm - 9 pm

Saturday March 15th demo by Paul Hannaby
Walsgrave Baptist Church 10 am - 4 pm