

# Crosscut



◀ Stanley #271 Router plane.

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**Next Turners' meeting – Monday, 4<sup>th</sup> March 2024** from 18h00 at **Made in Workshop** – How to teach beginners. Two example projects will be shown – a spinning top and a lidded box, which may be attempted at the Hobby-X teaching sessions.

**Next Main club meeting – Wednesday, 13<sup>th</sup> March 2024** from 18h00 at **Made in Workshop** – Talk on router planes and how they can be used for cutting accurate grooves and recesses.

New WWA Account number. **FNB 63026931287** – please make sure that your payment can be identified by adding your **full name**, perhaps cell number and **reason for payment**.

## News

**Turners' meeting. Monday, 5<sup>th</sup> February 2024** from 18h00 at **Made in Workshop** – Herman showed a video on how to mark-out and turn a ball using the Octagon method. Poena demonstrated this method. Starting with a cylinder (picture – right top), the sides are turned away to an octagon profile. Then the corners are bevelled again and then a round shape is developed using the bevelled facets to keep the radius constant. And, finally the ends are turned off.



To do this, Poena used a cup chuck to hold the ball between centres. The head-stock end cup chuck is shown below. It is threaded directly onto the head stock. The picture on the bottom left shows the 1" x 8 tpi recess to screw onto the head stock.

The measurements for this method are repeated from last month at the end of this newsletter.



Poena then showed a fixture that he made for turning balls – see right. This is similar to one by Paul Howard. Poena included an indicator that helps to locate the centre of the ball for setting the fixture on the bed of the lathe. The cutter is then moved around that centre, to make the spherical shape.



He also showed how a hole-saw, mounted on a handle and reground, can be used to smooth and size the ball.

**Main club meeting. Monday, 6<sup>th</sup> November** from 18h00 at **Made in Workshop** – Making bandsaw boxes – demonstration by Graham Swallow.

Graham brought in his bandsaw for the demonstration, fitted with a narrow 6mm blade. A narrow blade is helpful to cut out small radius curves needed for this type of box.



On the right, Graham is cutting the bottom off the wooden blank.

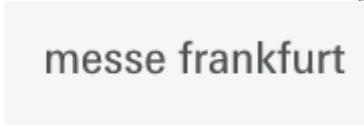
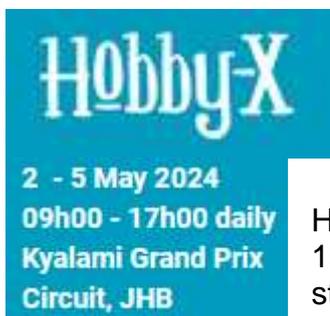
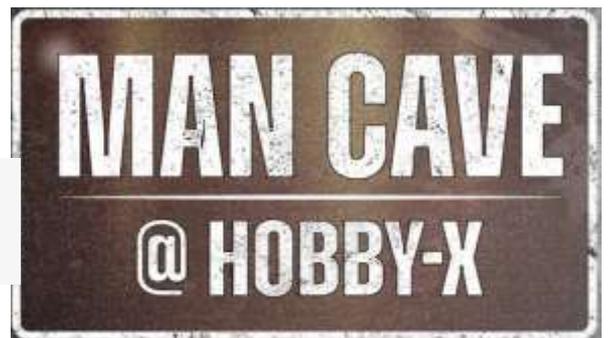
In the picture below, Graham is cutting out the inside of the box,

separating the section that will be the sliding drawer. The next step is to cut off the front and back of the sliding drawer, before cutting out the interior of the drawer. The front and back of the drawer are glued back on. To finish, the back of the box and the kerf made to cut out the inside are glued.

Box designs can range from rustic with bark on, like the one shown, through to more formal rectangular boxes with square sides and drawers, but the principles remain the same.

**WWA AGM – 2024.** The 2024 Annual General Meeting for the Wits Woodworking Association will take place at the Main Club meeting on Wednesday, the 15<sup>th</sup> May 2024 at 18h00 at **MiW**. Formal notices of the AGM will be issued via email. Please remember to send in your apologies and associated proxies to the secretary before the meeting. If you are able to assist with tasks through the year or by joining the committee, please volunteer. The secretary requests that nominations be submitted by Monday, 13<sup>th</sup> May 2024, however nominations from the floor will be accepted at the meeting. Before nominating someone, please confirm their availability.

We are always looking for help with tasks for running the club. Any assistance that you can volunteer, however small will be appreciated.



Hobby-X was first staged in 1998. The WWA has had a stand for many years because it is a good way to attract new members. This year there is separate area called the Man Cave, where we will have several lathes running. We may also be running some workshops on flat work and turning as part of the man cave program. A roster for



members to volunteer to demonstrate and mind the stand will be published closer to the time.



**Reminder - New WWA Account number.** Due to ongoing difficulties in changing signatories and poor service from Nedbank, the committee resolved to change banks. Anesh, our treasurer has opened an account with **FNB** and requests that all payments be made into this new account: **63026931287** – please add this to your beneficiaries list. Please make sure that your payment can be identified by adding your **name**, perhaps cell number and **reason for payment**. Annotations such as “annual subs” or “WWA shirt” without your name are not helpful – Anesh will not be able to trace your payment.

**Access times for **Made in Workshop** for WWA members :**

MiW times for WWA members are as follows

Monday, Thursday, Friday and Saturday 9AM to 12AM. However please take note of the following:

WWA members CANNOT just arrive at MiW and use machines unless they have booked them with MiW. This refers to the bookable machines such as the panel saw, thicknesser/planer, drum sander, spindle moulder as well as CNC machines of any kind.

Machines such as the bandsaw and the Triton router table need no booking.

Henry has also asked me to convey that all the major machines may only be used if the WWA member is familiar and fully understands the importance of the correct and safe use of these machines. Speak to Graham regarding training and qualification to use machines.

Bookings can be made during office hours of 8h00 to 17h00, weekdays by contacting one of these numbers:

Henry – 083-269 9505

Josh – 083-768 7853

Trenton – 081-365 6039

**Schedule for Regular Events at **Made in Workshop****

1. Second Saturday of month at 9h00 - Herman – all things turning related – 083 631 0501  
[hermanpotgieteresq AT gmail.com](mailto:hermanpotgieteresq@gmail.com)

This list is subject to change, so please consult your *Crosscut* each month for any updates.

**Show & Tell** meetings are held at Hardware Centre every Friday Morning at 09:30. All WWA members welcome. Contact Eugene on 0824953394 or [eugene@antlerfin.co.za](mailto:eugene@antlerfin.co.za)

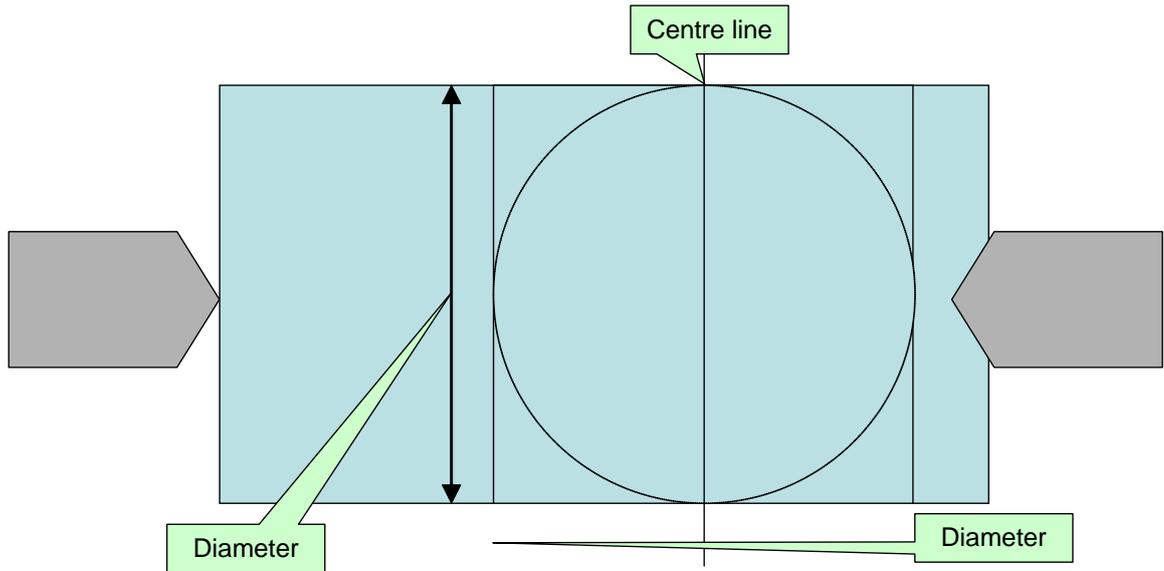
## Turning Balls – an analytical approach.

At the April 2013 turners' meeting Chris van Heeswijk demonstrated a precise method of turning an accurate ball on the lathe. The hand-out that Chris provided is reproduced below: This is just one approach, there will be others shown the next turners' meeting.

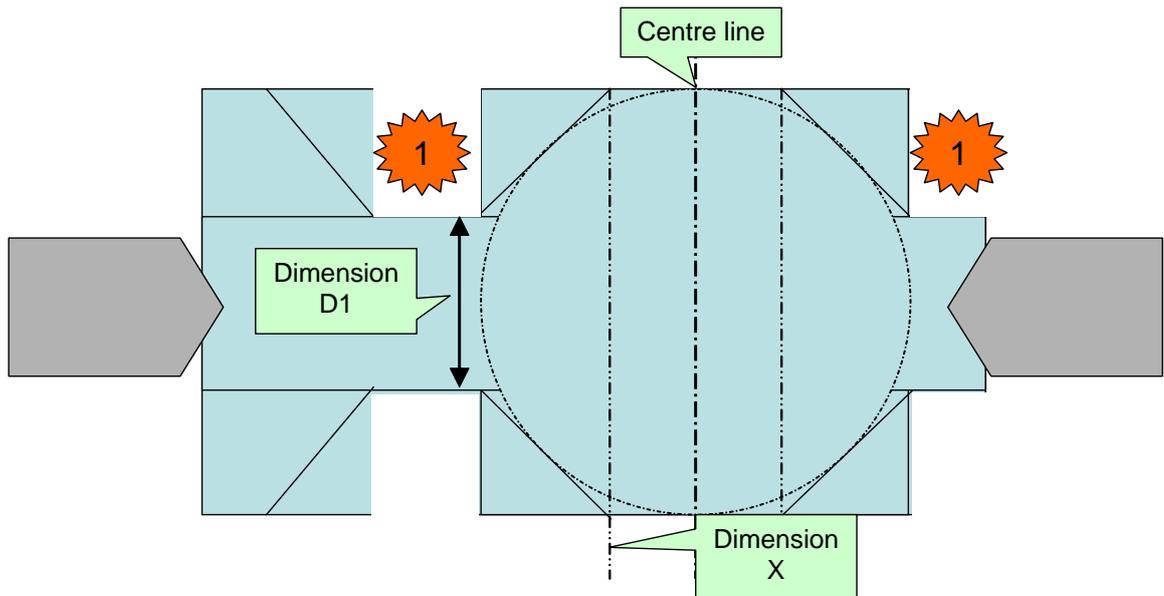
### Diagrams showing steps in turning a ball

Taken from Chris van Heeswijk's presentation at the April 2013 Turners' meeting and reformatted for the newsletter.

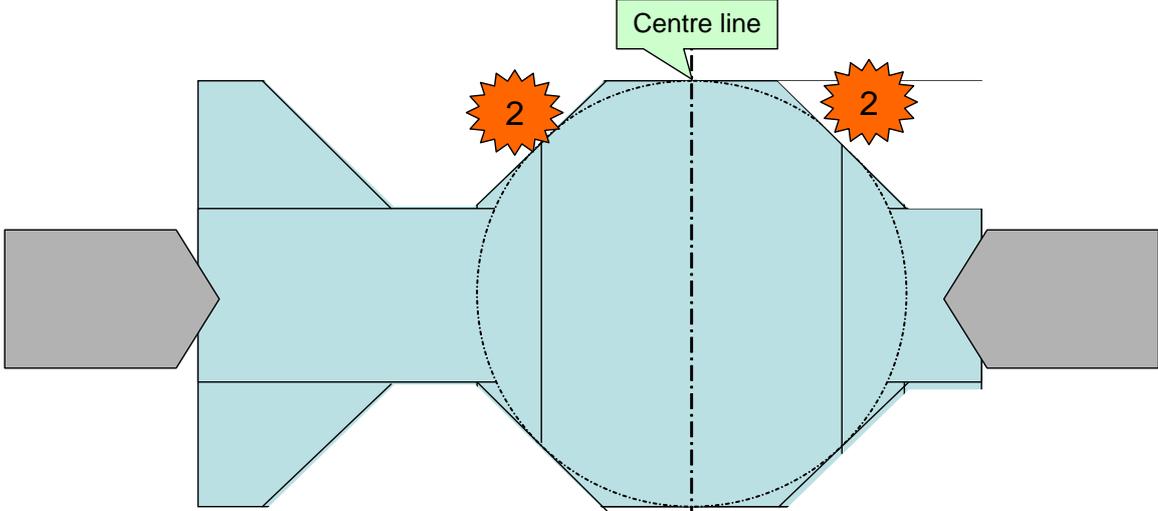
**To start, prepare the blank:** Turn cylinder to the diameter of the desired sphere. Mark off the sphere's centre line, and the sphere radius each side of the centreline.



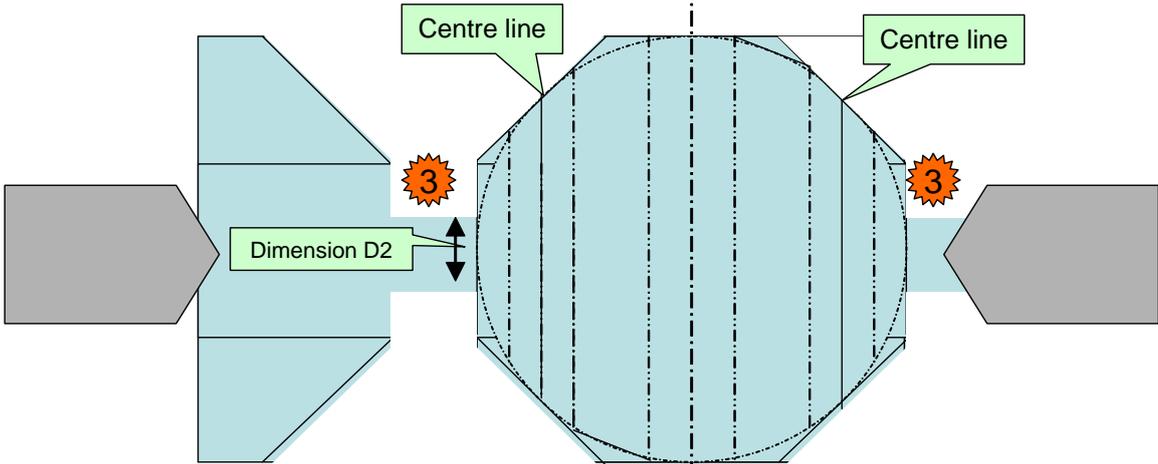
**Step 1:** At the two lines showing the sphere radius, use a parting tool to turn down to a spigot with diameter  $D1 = 0.4142 \times$  sphere diameter. Mark off the two lines either side of the centreline, where  $X1 = 0.2071 \times$  sphere diameter.



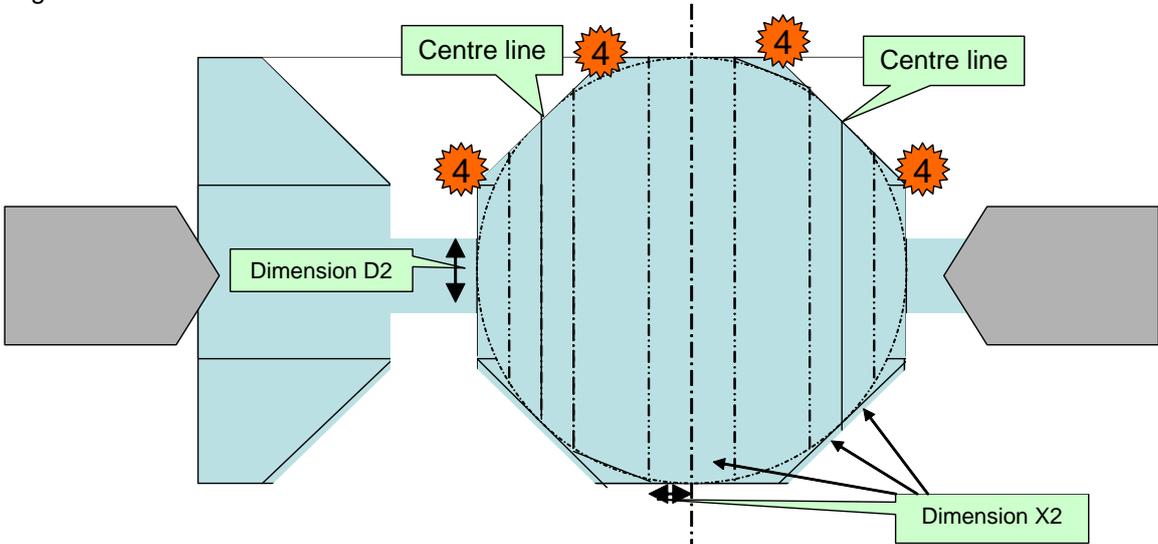
**Step 2:** Remove the material between the two new lines and the spigot, taking care not to undercut the facet, and to leave the line visible. The shape is now octagonal. Mark off the two centre lines of the newly created facets.



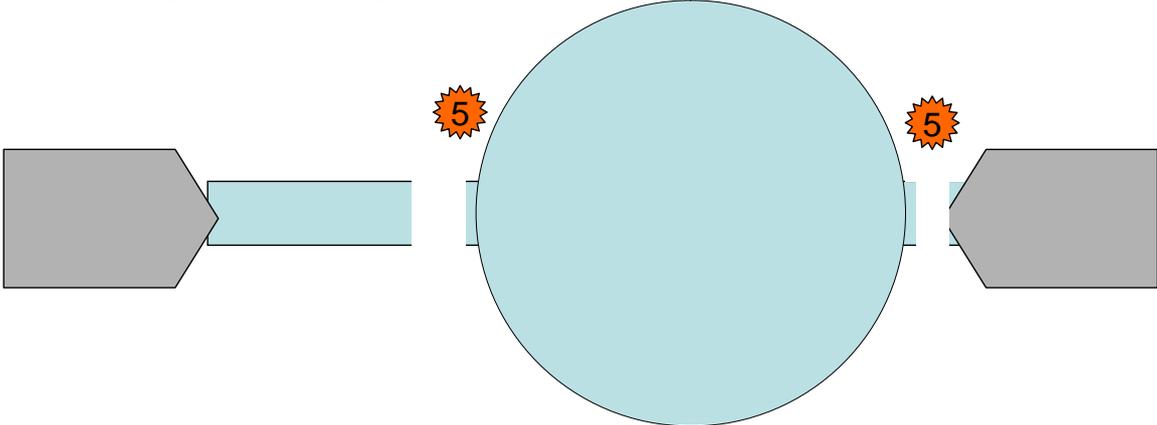
**Step 3:** At the two lines showing the sphere radius, use a parting tool to turn down to a spigot with diameter  $D2 = 0.1989 \times$  sphere diameter. Mark off the two lines either side of the three centrelines, where  $X2 = 0.0995 \times$  sphere diameter.



**Step 4:** Remove the material between the pairs of new lines, and new lines and the spigot, taking care not to undercut the facet, and to leave the line visible. The shape is now almost spherical. Remove the final remaining facets to create a smooth circular surface.



**Step 5:** Cut the last spigot material, taking care not to undercut the facet, and to leave two stubs.



**Step 6:** Mount the sphere between centres in cupped or coned supports to remove the final stubs. Sand through the grits to 400 grit, rotating the sphere within the cups to ensure it remains spherical. Finish with your choice of sealer.

