Making an Indexing Wheel

The following photos shows how to make one with 60 divisions

Steps to create an indexing wheel for any number of divisions:

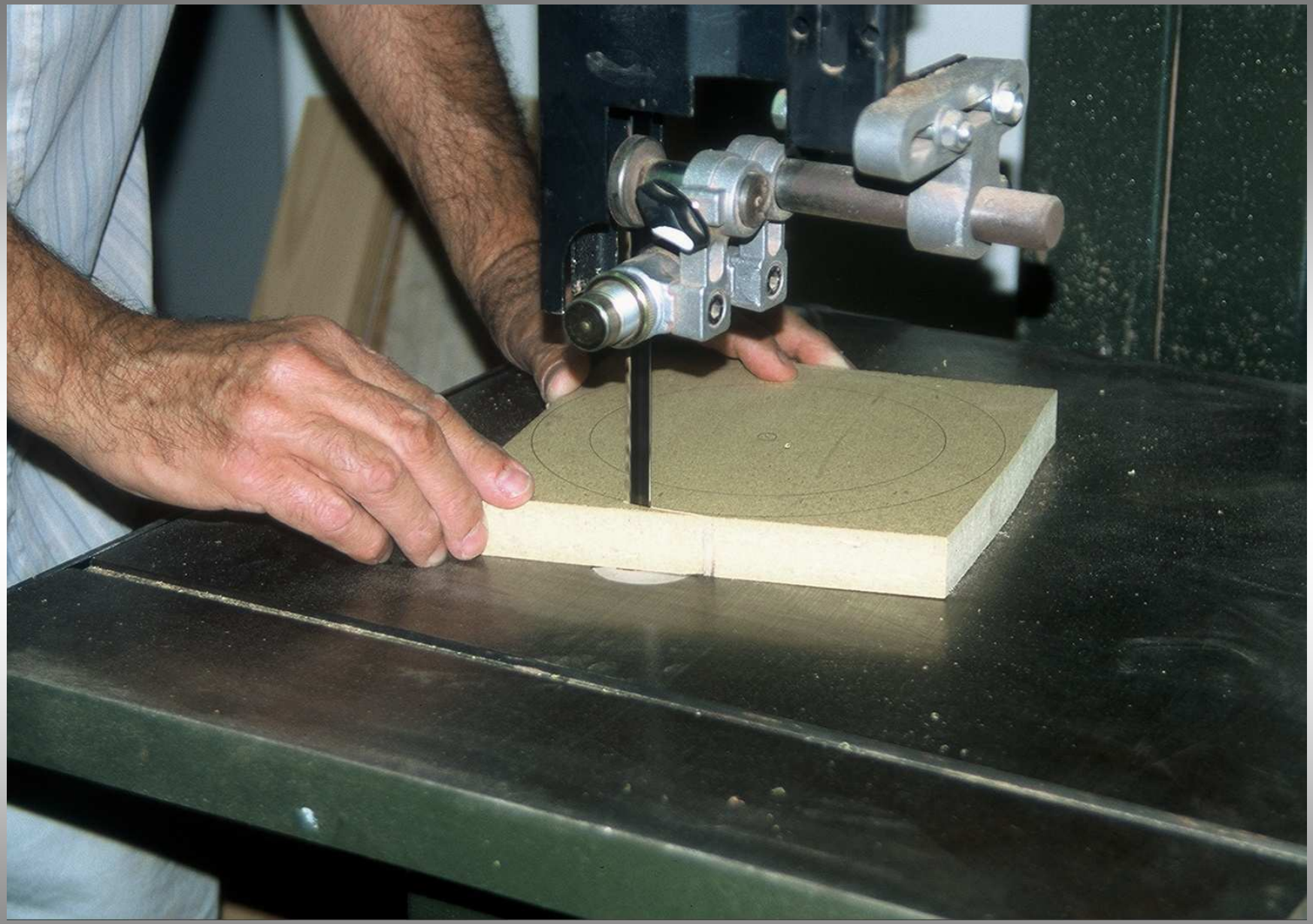
Size the blank:

$$\text{Diameter} = \frac{\text{Number of divisions}}{3}$$

(3 is used instead of π to make disk oversized)

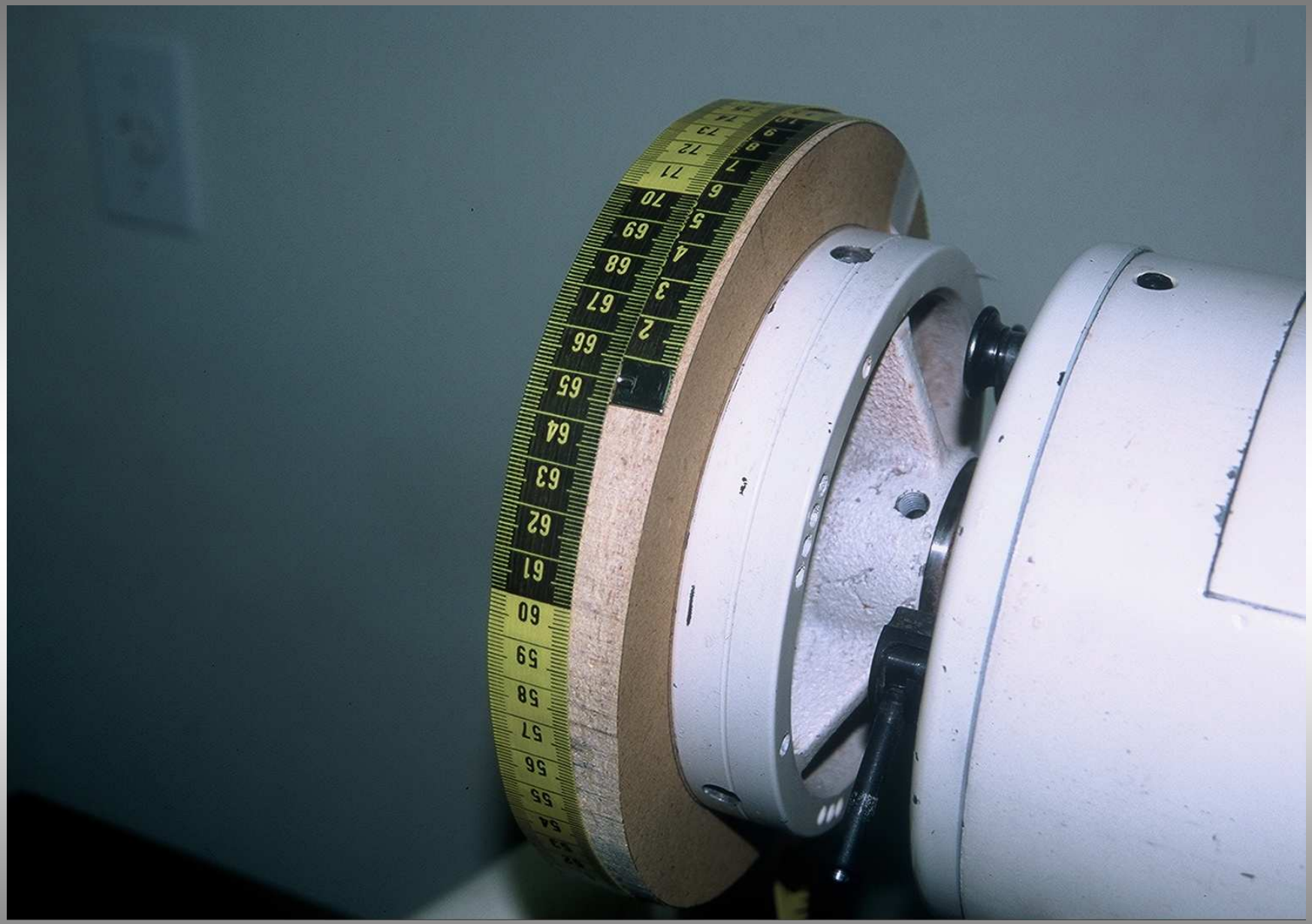
For example for 60 Divisions, $D = \frac{60}{3} = 20$ cm

20 cm = 8″, so blank will be cut to 8″ in diameter

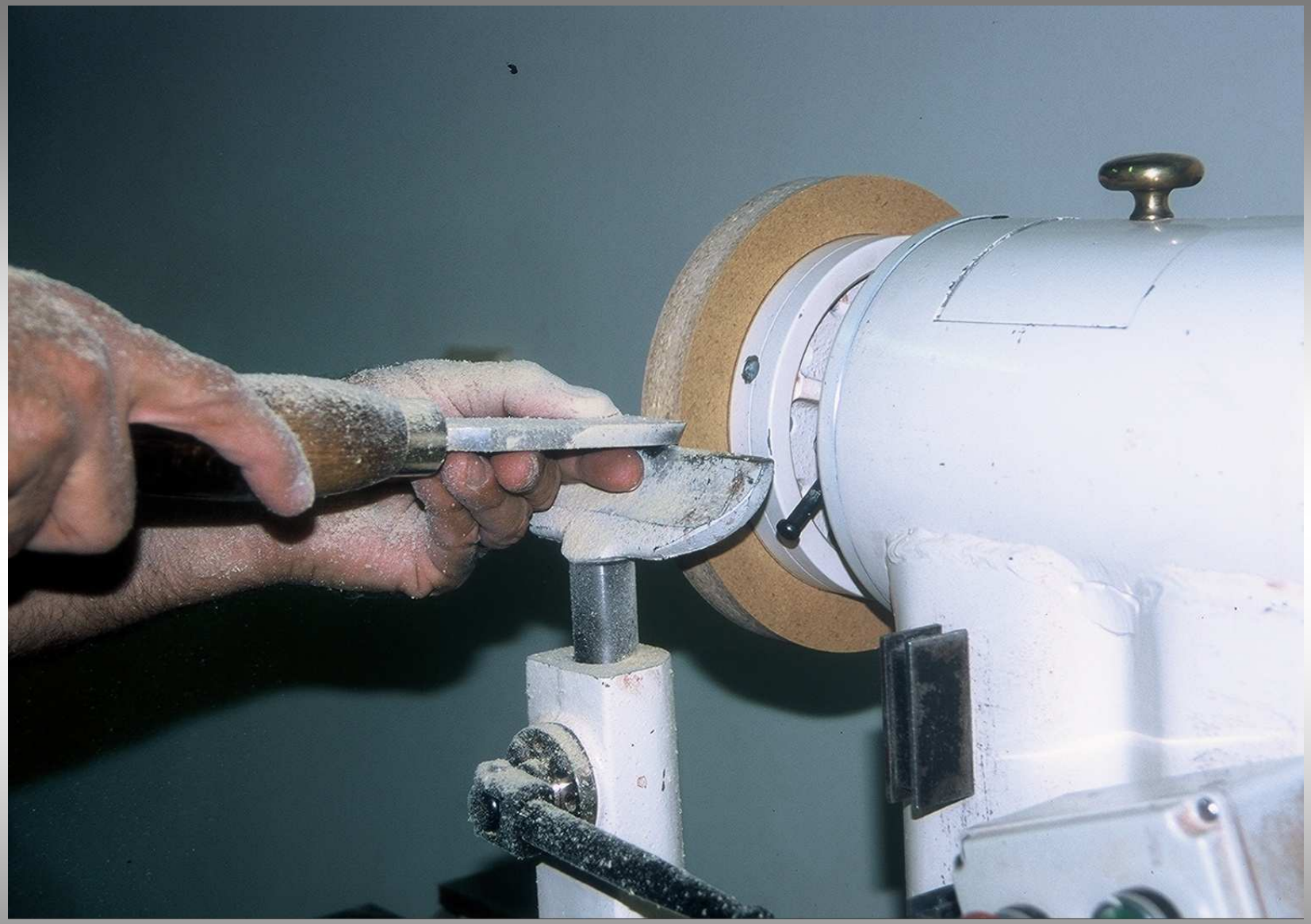


Indexing Wheel -- Cutting the blank using 1″ MDF

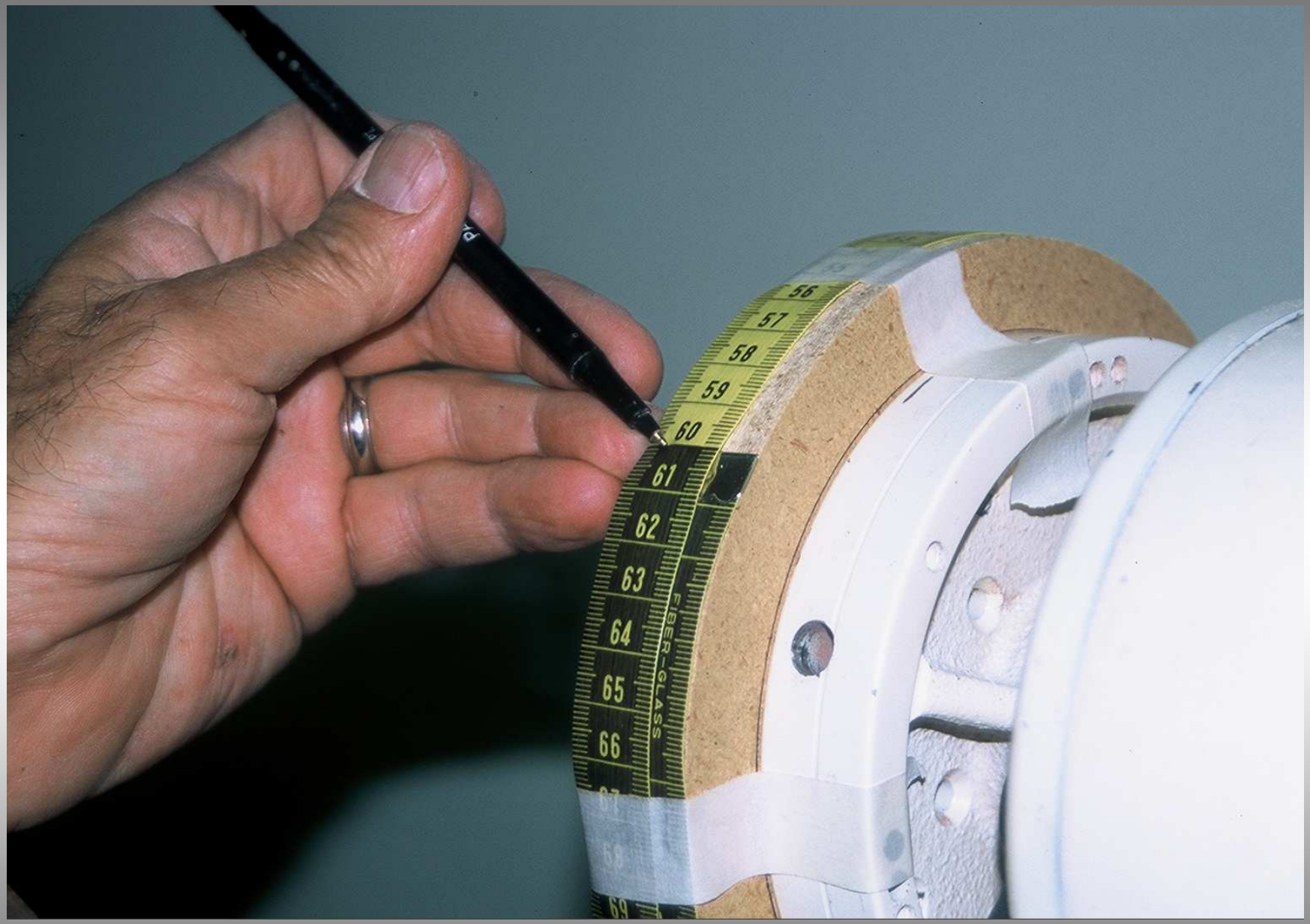
Mounting the blank



Circumference of blank oversized—needs to be 60 cm



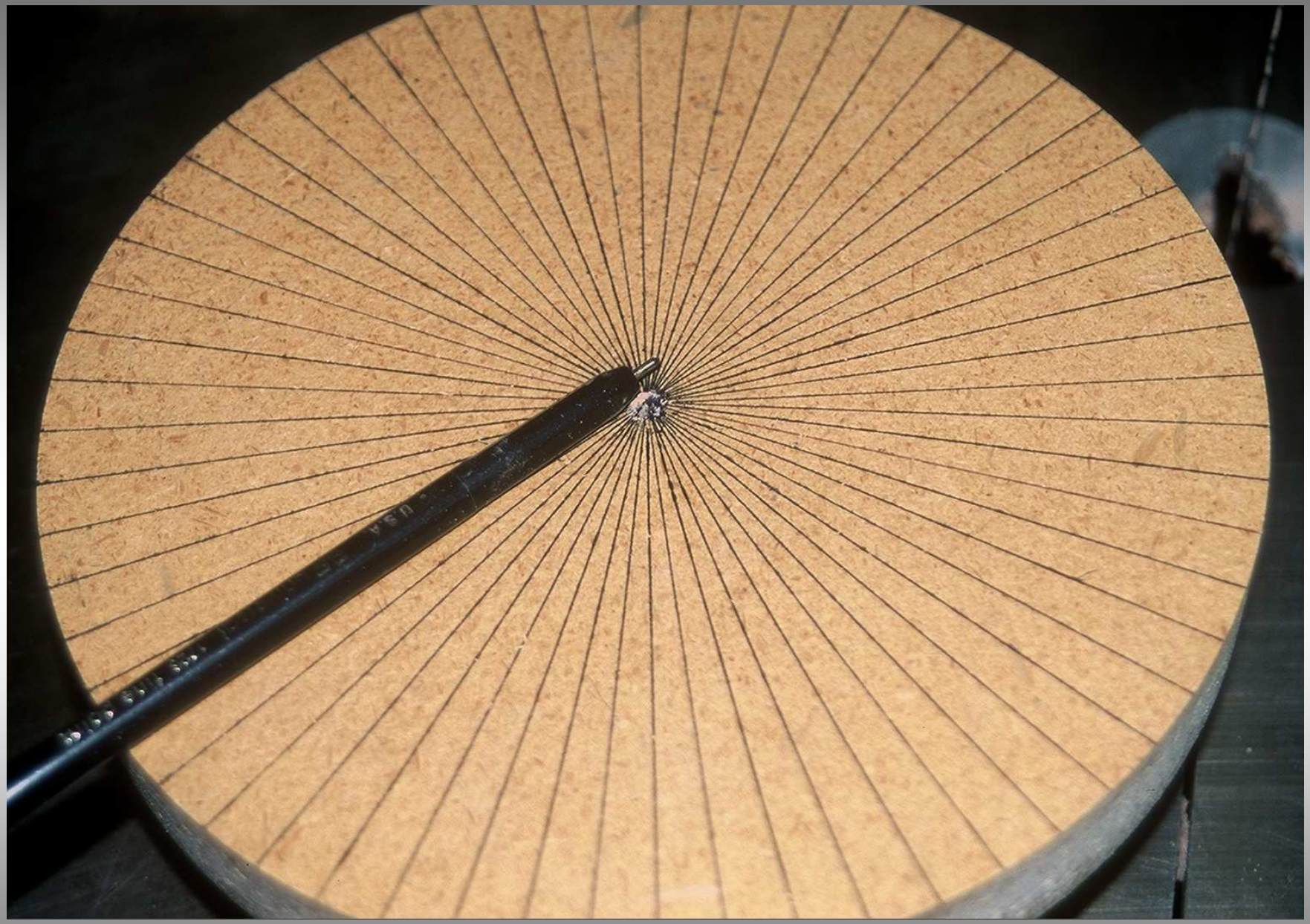
Scraping the disc to 60 cm



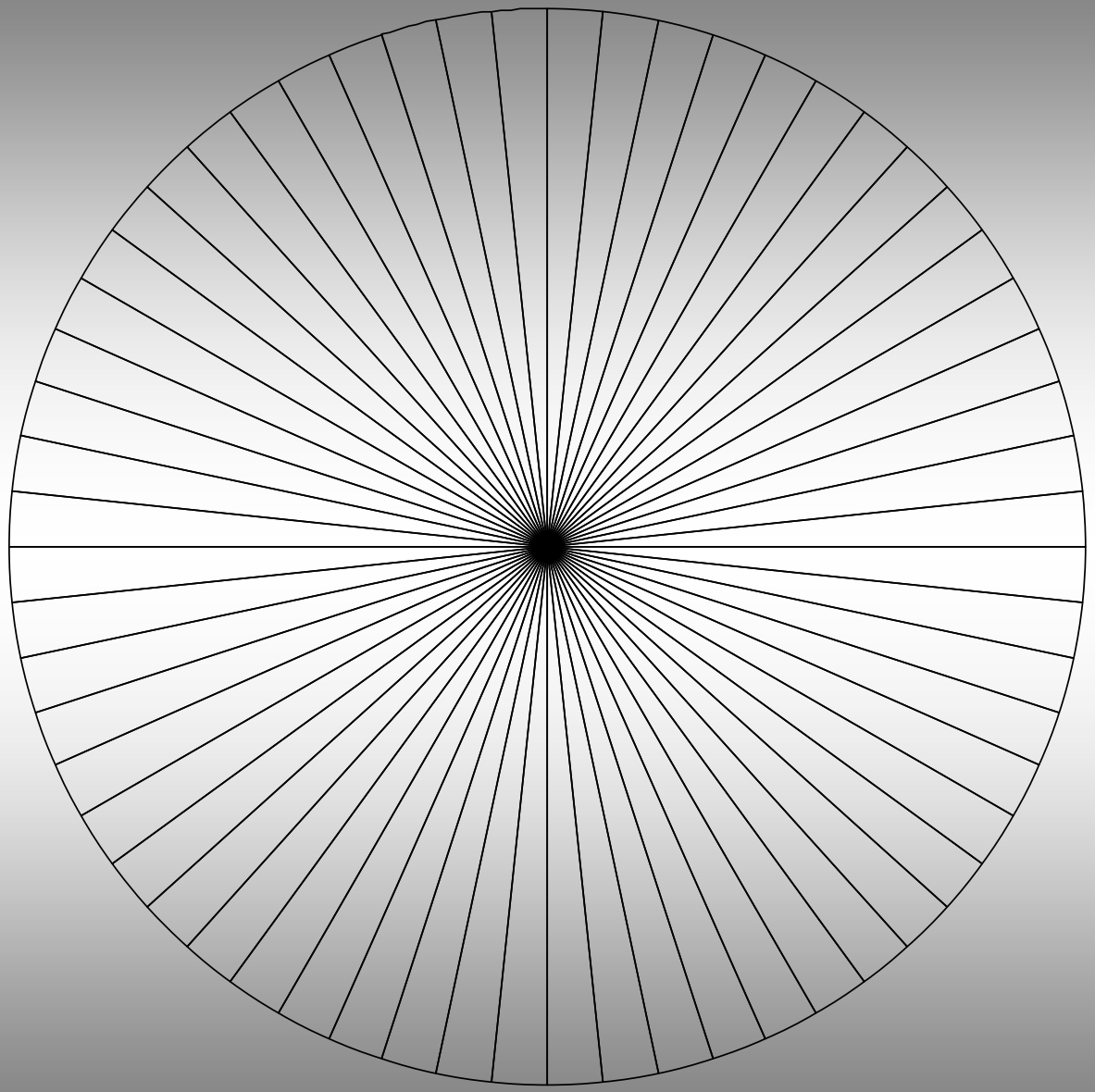
Measuring the circumference at 60 cm

Marking the 60 divisions

Drawing the radial lines



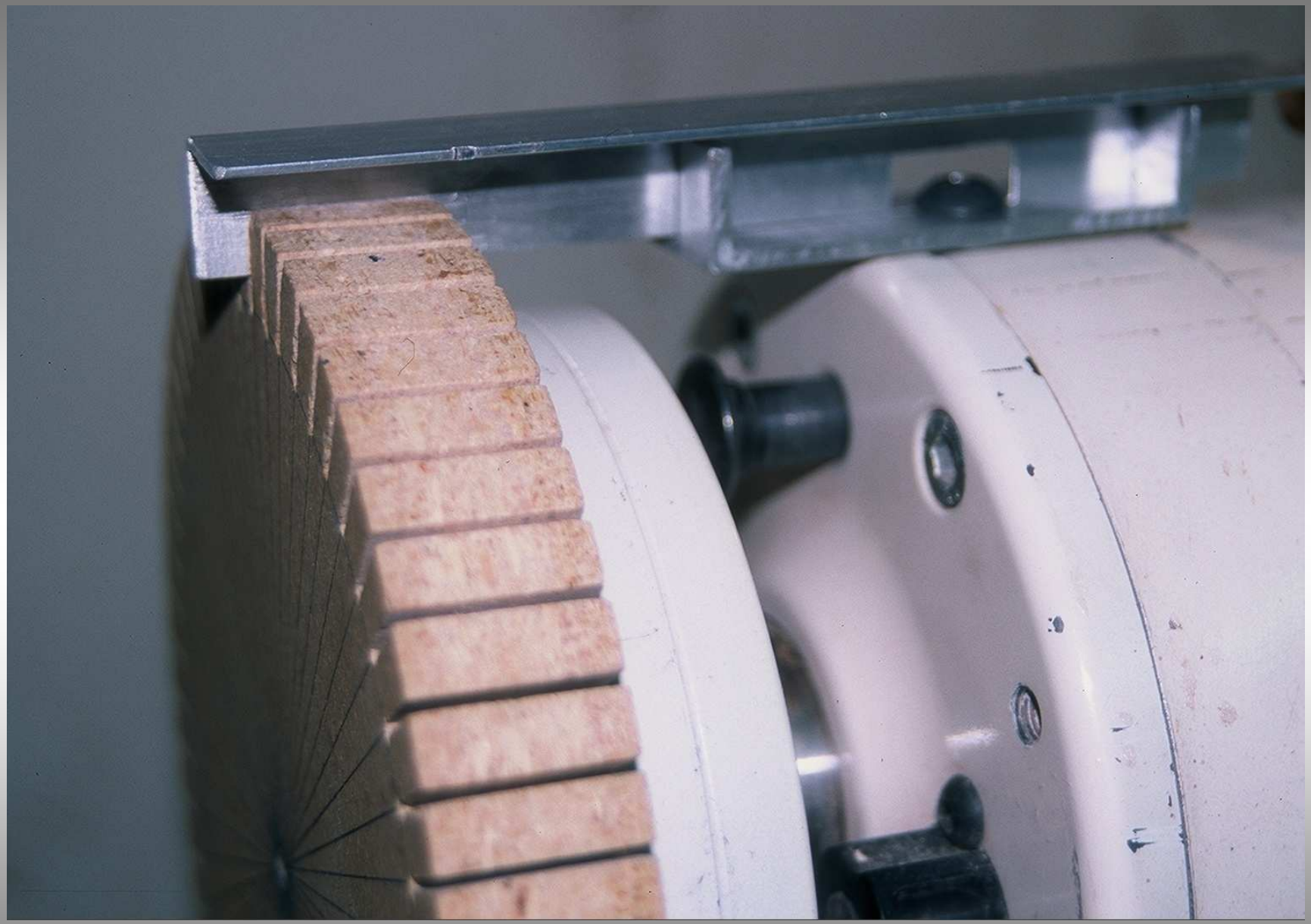
Radial lines completed



Printable pie chart of 60 divisions to be glued onto disc

From Microsoft Excel program

Cutting the slots



Locking and indexing mechanism

Second view of mechanism

Drawing grid lines using home made indexing wheel

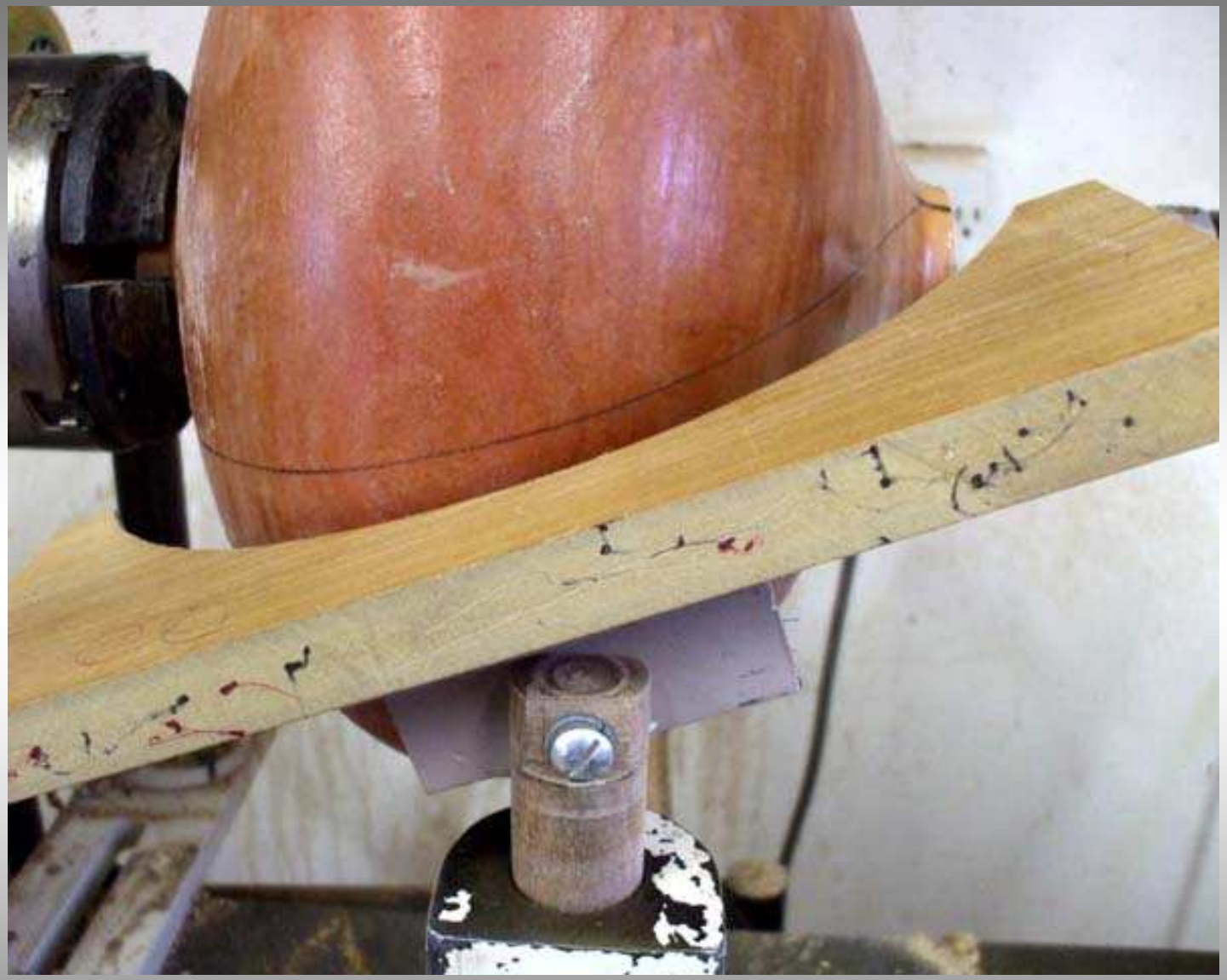
Custom indexing wheels

Creative Indexing

Use of arbitrary platforms and angles

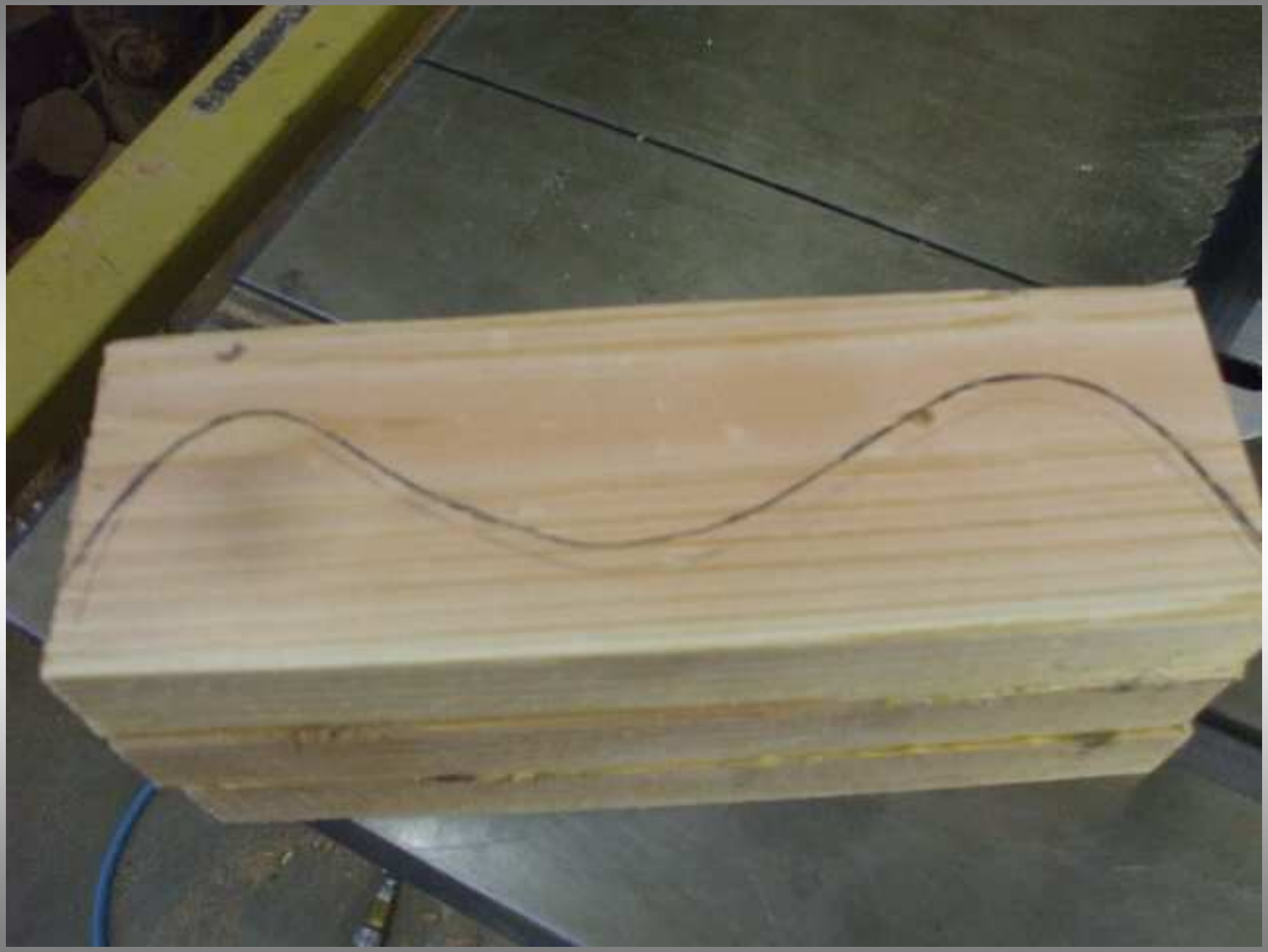
Off-center indexing

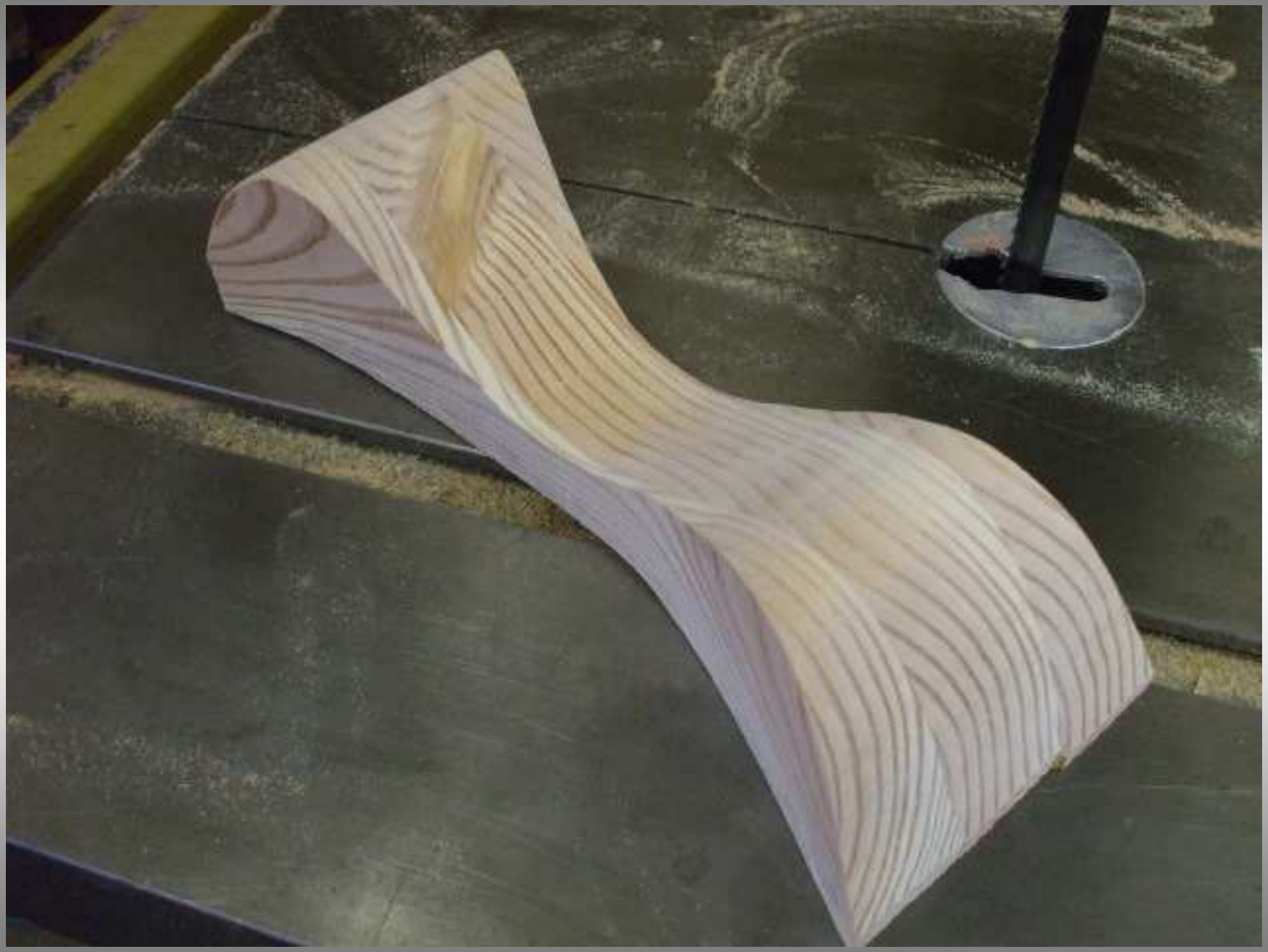
Platform is not parallel with lathe bed and lines converge away from center of vessel

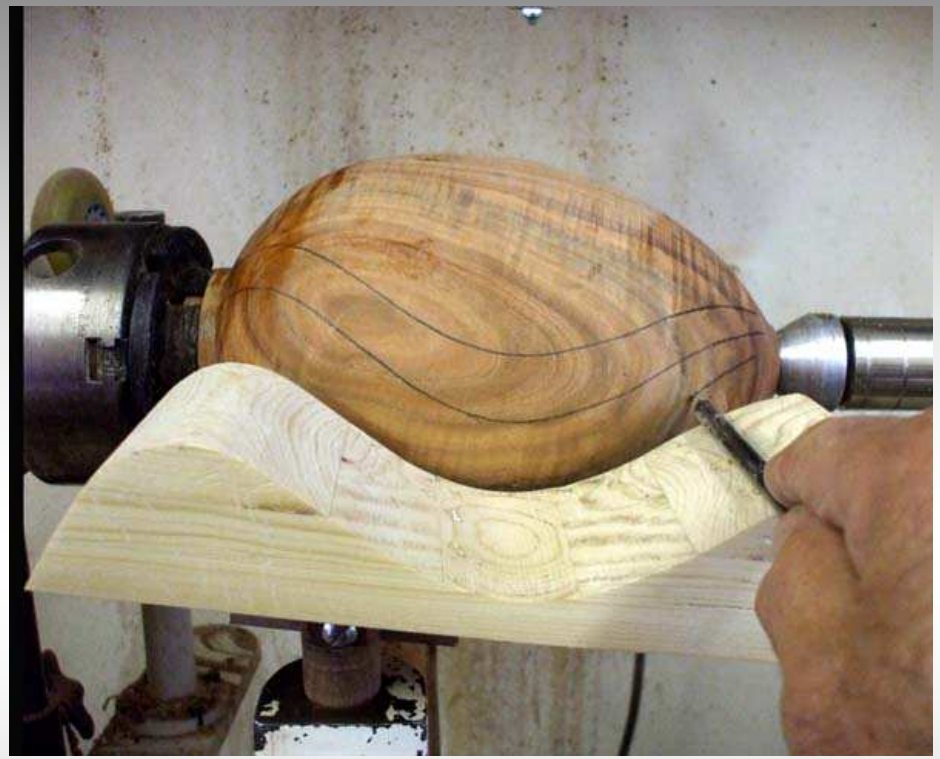


Trivolution, Mesquite

Example of off-center indexing







Contoured indexing—arbitrary profile & angle

Platform is shaped arbitrarily and can be tilted

Contours

Bradford Pear, dye & acrylic paint