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:

\[
\text{Diameter} = \frac{\text{Number of divisions}}{3} \quad (3 \text{ is used instead of } \pi \text{ to make disk oversized})
\]

For example for 60 Divisions, \( D = \frac{60}{3} = 20 \text{ cm} \)

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