

OUTCOME/RESULTS:

VARIABLES:

PARALLEL AXIS
(DOES NOT CROSS THE CENTER AXIS)

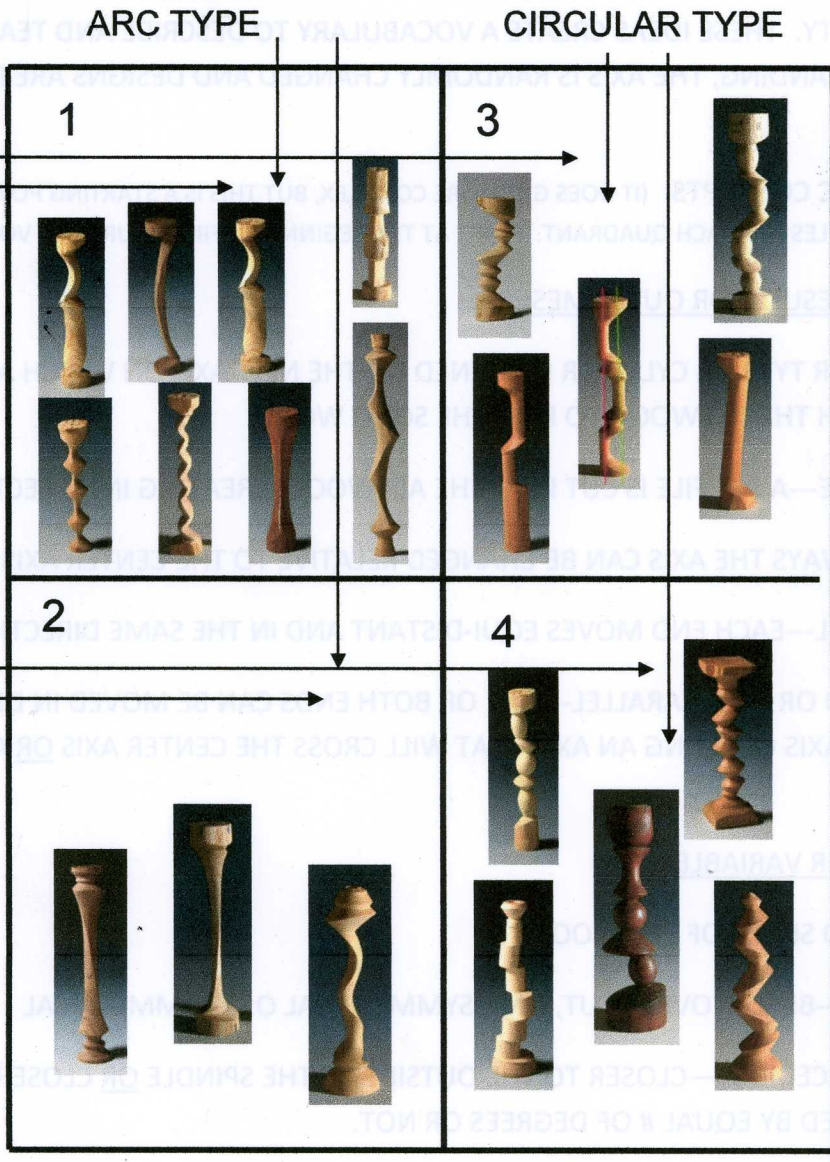
TWISTED AXIS
(CROSSES THE CENTER AXIS OR ANY LINE PARALLEL TO THE CENTER AXIS)

MANY OTHER VARIABLES EXIST IN ALL QUADRANTS:

PROFILE: (straight, curved or v-cut) symmetry, depth of cut;

AXES: number of axes used, the many options of axis placement; distance of new axis from center; various ways to connect the axes;

WOOD: size and shape of wood; orientation of wood to lathe.



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20 MINUTE EXPLANATION OF HOW TO CONCEPTUALIZE MULTI AXIS SPINDLES

MY GOAL IS TO TEACH HOW TO THINK ABOUT AND CREATE MULTI AXIS SPINDLES AND TO START WITH SIMPLE IDEAS THAT CAN BE REFERED TO AS YOU PLAY WITH THE MANY VARIABLES.

COMPLEX TOPIC... THE VALUE OF THIS CONCEPTUAL FRAMEWORK IS THAT A PLAN CAN BE FORMULATED. AXIS PLACEMENT AND TYPE OF OUTCOME CAN BE PURPOSEFULLY DECIDED, LEAVING ROOM FOR PLAYFUL CREATIVITY. THESE IDEAS CREATE A VOCABULARY TO DESCRIBE AND TEACH MA TURNING. WITHOUT THIS UNDERSTANDING, THE AXIS IS RANDOMLY CHANGED AND DESIGNS ARE FOUND BY EXPERIMENTATION AND LUCK.

THE BASIC CONCEPTS: (IT DOES GET MORE COMPLEX, BUT THIS IS A STARTING POINT. IT TAKES HOURS OF PLAY. MAKE AND KEEP SAMPLES FOR EACH QUADRANT. START AT THE BEGINNING. FIND YOUR OWN VOICE.)

ONLY 2 RESULTS OR OUTCOMES:

-CIRCULAR TYPE-- A CYLINDER IS TURNED ON THE NEW AXIS ON WHICH A PROFILE CAN BE TURNED. CUT THROUGH THE AIR WOOD TO FIND THE SOLID WOOD.

-ARC TYPE---A PROFILE IS CUT INTO THE AIR WOOD, CREATING INTERSECTING ARCS.

ONLY 2 WAYS THE AXIS CAN BE CHANGED RELATIVE TO THE CENTER AXIS:

-PARALLEL---EACH END MOVES EQUI-DISTANT AND IN THE SAME DIRECTION FROM THE CENTER AXIS.

-TWISTED OR NON-PARALLEL---ONE OR BOTH ENDS CAN BE MOVED IN DIFFERENT DIRECTIONS FROM THE CENTER AXIS CREATING AN AXIS THAT WILL CROSS THE CENTER AXIS OR ANY LINE PARALLEL TO THE CENTER AXIS.

ALL OTHER VARIABLES:

-SIZE AND SHAPE OF THE WOOD

-PROFILE--BEAD, COVE, V CUT, LINE; SYMMETRICAL OR ASYMMETRICAL

-AXIS PLACEMENT—CLOSER TO THE OUTSIDE OF THE SPINDLE OR CLOSER TO THE CENTER OF THE SPINDLE; SEPARATED BY EQUAL # OF DEGREES OR NOT.

-MANY WAYS TO CONNECT EACH AXIS

(TO AVOID BRAIN CRAMPS, MAKE SURE THE NUMBERS OF THE AXES ARE VISIBLE AND USE A SYSTEM TO ROTATE THE AXES.)

THE COMBINATIONS OF THESE VARIABLES POTENTIALLY GIVES US UNLIMITED DESIGN POSSIBILITIES!!!!

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