

About the Artist:

David C. Roy

Mechanics and motion have always fascinated me. During college I studied physics, engineering and chemistry to further my understanding of how things worked. I graduated with a degree in physics from Boston University in 1974. This intuitive understanding of motion and mechanics combined with the artistic influences of my wife, Marji, led me to the creation of kinetic sculptures. In 1975 we started “Wood That Works” and I became a full time sculptor. Since then I have designed and handcrafted over 150 different limited edition and one-of-a-kind kinetic sculptures. I have exhibited in numerous juried, invitational and group events. My work is displayed in galleries and private collections around the world. I currently maintain a studio in rural northeastern Connecticut.

Wood 
that Works

Mingle • Directions

Kinetic Sculpture by David C. Roy
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To the Owner...

Hello,

Welcome to the world of Wood That Works. This Mingle is number _____ out of a possible 95 pieces. It was made by me during the month of _____ in 2023. I build, test and pack each sculpture myself, doing about 6 pieces of an edition per month. Designing and building kinetic sculptures like Mingle has been my full time occupation since 1975. I hope Mingle brings you and other viewers as much enjoyment as I've found in making it.

Mingle has been mounted on a wall in my shop and running for at least 2 complete windings (many hours) before I pack it. I make every effort in design, construction and packing to make sure the piece will perform problem free for years to come. I use only the finest materials. Of course, problems can still occur no matter how hard I try to prevent them. My answer to this is a warranty to the original owner against defects in materials and workmanship for three years. See the guarantee section of this booklet for details.

It leaves me happy and satisfied to find that my work has made its way into new lives. I hope it brings you years of enjoyment.

David C. Roy

Specifications:

Limited Edition of 95

Size: 23"h x 35"w x 6"d


Power Source: negator spring

Approximate Run Time: 20+ hours

Materials: hardwood plywood, bearings

Mingle ©2023



 Tape locations when relocating

Directions:

Subsequent windings:

- Turn the winding wheel in a clockwise direction about 23 turns.
- Pay close attention to the top of the light colored wood spool directly behind the winding wheel. Stop winding as soon as you see the red tape appear on the metal band. This is placed about 1 turn from the end. *Winding beyond this point may damage the sculpture.*
- The ratchet pawl at the top of the mechanism behind the patterning wheels keeps the spring from unwinding rapidly. NEVER touch the ratchet pawl after the sculpture is wound. the spring will release and damage will probably result.

Before Moving Sculpture:

- Make sure the power spring is unwound.
- Always tape the spring belts in place before moving the sculpture. This will save a lot of aggravation when it is time to set the piece up again. Blue Painter's tape works well.
- See the diagram for the best tape locations.

Guarantee:

- My kinetic sculptures are guaranteed to the original owner for a period of three years. All warranties expire with transfer of ownership from the original owner. Damage of the sculpture from exposure to extremes of high or low humidity, or to adverse hot or cold temperatures, or damage caused by normal wear and tear, accidents, misuse, or modification will not be covered by the warranty. Shipping and insurance to and from Wood That Works is the responsibility of the purchaser.
- I will charge a reasonable repair fee if the sculpture was damaged by misuse or needs refurbishment from normal

About Mingle:

In this sculpture, I have combined two distinct patterning concepts to create something unique. While I have utilized each pattern separately in my previous sculptures, I have never before blended them together into a single, cohesive piece. The concept for this sculpture came about serendipitously as I was experimenting with nested arc patterns and decided to add a fan shape to balance them out. After creating some rough sketches and animations, I realized that I had stumbled upon something truly intriguing.

Over the course of the next few months, I continued to explore different combinations of these two forms, striving to create a design that would be both visually striking and physically balanced. This involved building several prototypes with wheels of different sizes and mechanisms. Ultimately, it took me two years to arrive at the current design.

What I find particularly captivating about this sculpture is the way in which the mix of optical patterns creates a dynamic visual experience that keeps the eye and attention engaged. I hope that you too will find it as fascinating and enjoyable as I do.

Care and Maintenance:

I maintain a Care and Maintenance page on my website at <https://www.woodthatworks.com/care-and-maintenance>. Visit there for care details.

Directions:

To Mount on Wall:

- DO NOT remove the tape holding the belt in place
- Hold the backboard in the desired location against the wall. Level the bottom edge. Use a level. Save this template.
- Place a sharp instrument through the screw holes, marking their positions on the wall.
- If the wall is sheetrock or plaster use plastic anchors. Drill pilot holes for anchors. Use a 1/8" bit for the provided anchors.
- Screw the sculpture to the wall
- Remove the blue tape holding the drive belt in place.
- Remove any other blue tape holding parts secure for shipping.

To Wind

- **Important First Time winding instructions:**
 - The first time you wind up this sculpture after unpacking requires special attention. Shipping may have caused parts to move unexpectedly.
 - First look for obvious things that might have come out of alignment in shipping. (Belts out of pulleys, strings out of slots, etc.)
 - Only turn the winding wheel TWO turns for the first run.
- Turn the winding wheel in a clockwise direction.
- Make sure the metal band is winding inside the larger spool walls. If it isn't, shift it so that it does. It should be fine for all future windings. A short run will show you if parts slid out of alignment during shipping.
- If it doesn't run as expected email David at david@woodthatworks.com.

To Start

- If the sculpture does not start immediately after winding, gently push both wheels of the motion assembly in a clockwise direction gently until you hear a click.

