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

Kindala-Stars • Directions

Kinetic Sculpture by David C. Roy

To the Owner...

Hello,

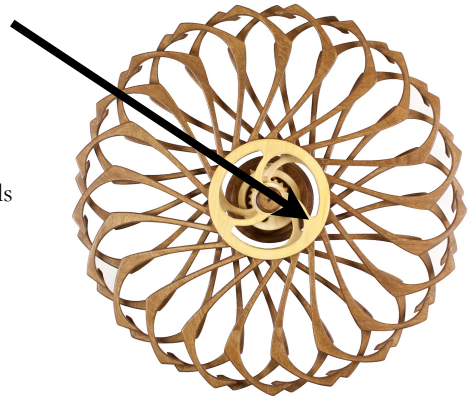
Welcome to the world of Wood That Works. This Kindala - Stars is number _____ out of a possible 24 pieces. It was made by me during the month of _____ in 2017. I build, test and pack each sculpture myself, doing 6 pieces of an edition per month. Designing and building kinetic sculptures like Kindala-Stars has been my full time occupation since 1975. I hope Kindala-Stars brings you and other viewers as much enjoyment as I've found in making it.

Kindala-Stars 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 five 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

Insert finger here to wind.



- It is easy to start winding the sculpture too quickly. The wheels are heavy and carry a lot of momentum. If you wind beyond the red warning tape you will reach the end of the spring and may cause possible damage.
- CAUTION: Over-winding the sculpture can break the spring. Make sure you turn the back wheel slowly enough so you can stop its motion before you reach the red tape at the end of the spring.
- Never manually release any of the levers on the sculpture when it is wound. Doing so will release the spring and definitely cause damage.

To Start

- If the sculpture doesn't start moving on its own when you finish winding, gently push both wheels counter-clockwise.

Guarantee:

- My kinetic sculptures are guaranteed to the original owner for a period of five 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 wear and tear.

Directions:

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.
- Only wind the spring **TWO** turns for the first run.

Winding:

- The technique for winding Kindala-Stars is different from any of my earlier sculptures in that both of the large patterning wheels are turned clockwise to wind the spring.
- Place your index finger through the front hub of the indicated notch (diagram to right) in the back hub. Start turning the back wheel and then the front wheel. Only wind two turns.
- 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.

Subsequent windings:

- A full winding is about 23 turns in a clockwise direction.
- Once both wheels are turning you can pull your finger out a bit and just wind using the front wheel. The back wheel will follow. Turn the wheels, looking behind them and keeping close watch on the metal band winding from the small spool to the large one.
- After about 15 turns you will see the first set of colored warning tapes. SLOW DOWN the winding pace. After another 5 or so turns you will see red warning tapes. STOP WINDING.

(Continue on next page)

About Kindala-Stars:

About the Kindala Series

A type of pattern creation that has repeatedly frustrated me is one with wheels moving in the same direction. I knew there was some great potential in this area because I could see glimpses of new patterns when I rotated wheels by hand and on the computer screen. The challenge was to make the wheels move slowly but at different and constantly changing speeds with the goal of producing a kaleidoscopic effect. My first successful attempt evolved into a large fairly complicated one-of-a-kind sculpture called Starscape made in 2007. For the next 8 years or so I dabbled with ideas on the computer and developed several wheel patterns but the mechanism continued to escape me, until early this year.

I found that by using elements of the mechanisms I had designed for Sky Quest, Dimensions and Infinity I could make a new mechanism that began to produce the motion I wanted. I spent most of 2016 studying and tuning the mechanism, exploring its limits and making it reliable. It turns out making wheels move slowly but not stopping was a challenge but I succeeded.

Now that I have the mechanism there is a whole world of new patterns to discover. I'm very excited by the potential. So much so that I've decided to produce different Kindala designs in very small editions so I can keep exploring.

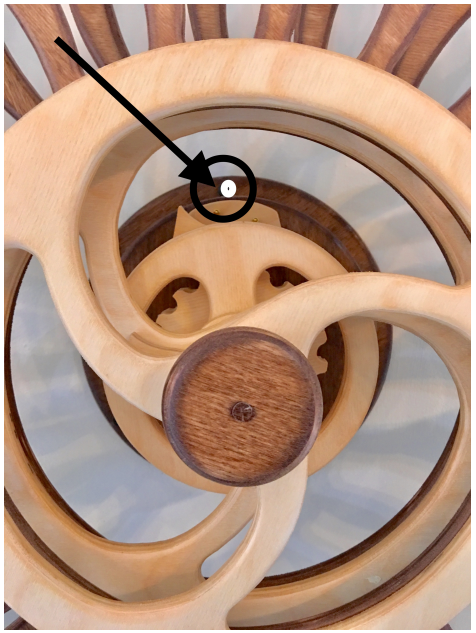
Why Kindala? Kindala is a manufactured word I created by combining Mandala and kinetic. I thought this series needed a distinctive moniker. Every design is a circular design like a mandala and they all move but each has visual distinctions in the wheel design.

About Kindala - Stars

The Kindala - Stars wheel has a relatively simple spoke form set at a precise angle to create a dynamic star burst pattern. During a large part of the cycle the pattern expands peacefully and then for a brief period crescendos into an explosive pattern before settling down to the quiet pattern again.

Specifications:

Size: 33”h x 33”w x 7”d
Power Source: negator spring
Approximate Run Time: 12 hours
Materials: hardwood plywood, bearings,
Kindala-Stars ©2017



Directions:

To Mount on Wall:

- Kindala-Stars does not need a template to set up.
- Locate the top center mounting hole. It is directly above the light colored wood bracket behind the wheels indicated by the arrow in the photo above. Place this screw hole at the top and center in location.
- Hold the sculpture in the desired location and screw the top center screw in place temporarily securing the sculpture to the wall. Shift the dark base so that the screw is top center and the left and right screw holes are approximately level with each other. Screw those screws in place.
- Now take the sculpture down by removing the screws. Gently hammer the provided plastic anchors into the screw holes making sure the top collars are flush with the wall. Screw the sculpture back into position again starting with the top center screw.