

## About the Artist:

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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

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Infinity • Directions

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

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*Hello,*

*Welcome to the world of Wood That Works. This Infinity is number \_\_\_\_\_ out of a possible 95 pieces. It was made by me during the month of \_\_\_\_\_ in 2016. I build, test and pack each sculpture myself, doing 6-12 pieces of an edition per month. It takes several years for me to complete an edition and some are never finished as I move on to new designs. Designing and building kinetic sculptures like Infinity has been my full time occupation since 1975. I hope Infinity brings you and other viewers as much enjoyment as I've found in making it.*

*Infinity 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*

To wind the sculpture place your pointer finger here and turn the front wheel slowly clockwise while holding the back wheel. Watch for the red tape to appear on the spring. Do not over-wind.



Lightly hold the back wheel here with your other hand while winding.

## Directions:

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### To Wind

- Hold the back wheel lightly in one hand. Insert your pointer finger as indicated in right photo. Gently and slowly turn it clockwise. Release the back wheel after you stop winding the front wheel.
- **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. 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](mailto:david@woodthatworks.com).

### Subsequent windings:

- A full winding is about 23 turns in a clockwise direction.
- As you wind the sculpture watch the top of the light colored spool the flat spring is winding onto. I have placed a red warning tape about 1-2 turns from the end of the spring. Stop winding when you see it.  
*Winding beyond this point may damage the sculpture.*
- CAUTION: It is easy to over wind this sculpture and break the spring. Make sure you turn the front wheel slowly enough so you can stop its motion before you reach the 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 Infinity doesn't start moving on its own when you finish winding, gently push the front wheel clockwise.

## About Infinity:

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My favorite design sequence unfolds in a recurring pattern. First I draw and animate a new idea. I then build a prototype and find It doesn't work as expected. That's when the fun and real work begins. Through a process of observation, experimentation and frustration something new emerges that is much more satisfying than the original idea.

Infinity's beginning was simple. I had several discarded wheel designs for Dimension that I thought had potential with another mechanism. I had also been thinking about a new variation of the mechanism I first developed for Monarch. Why not put the two together? It worked but did nothing for me. But... what if? And I started a long sequence of new wheel designs until I discovered the current one with it's "waterfall" pattern.

The mechanism was the next challenge. It worked and generated the patterns I wanted but not often enough or slowly enough. I kept fiddling but the answer came only when I noticed one of the prototypes misbehaving. Occasionally the mechanism would fail to catch a cog tooth soon enough and give double the push. I first figured out what was wrong and then found a way to make it happen at regular intervals. At last I had a pattern that was both dynamic and peaceful.

The new interval pacing produces soft, melodic wooden clicks with unpredictable timing. We chose the name Infinity because the patterning wheels regularly create the classic mathematical infinity sign just before the waterfall pattern starts.

## Directions:

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### To Mount on Wall:

- Infinity does not need a template for wall mounting. The orientation of the circular base is not important. Clearance of 18 inches is needed from the center of the sculpture out in all directions.
- Hold the sculpture in the desired location against the wall.
- Place a sharp instrument through the screw holes, marking their positions on the wall.
- Drill 1/8" pilot holes. If the wall is sheetrock or plaster use plastic anchors provided.
- Screw the sculpture to the wall.

## Specifications:

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Size: 35"h x 35"w x 7"d

Power Source: negator spring

Approximate Run Time: 8 hours

Materials: hardwood plywood, bearings,

Infinity ©2016



### 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.