

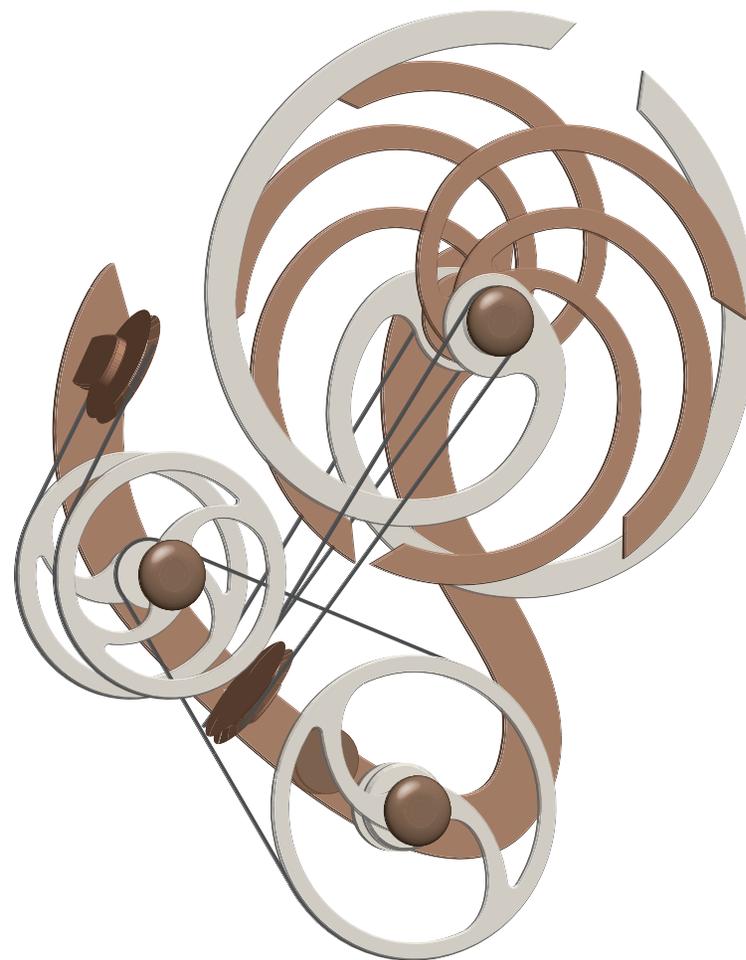
About the Artist:

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 80 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

Cyclone • Directions
Kinetic Sculpture by David C. Roy
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To the Owner...

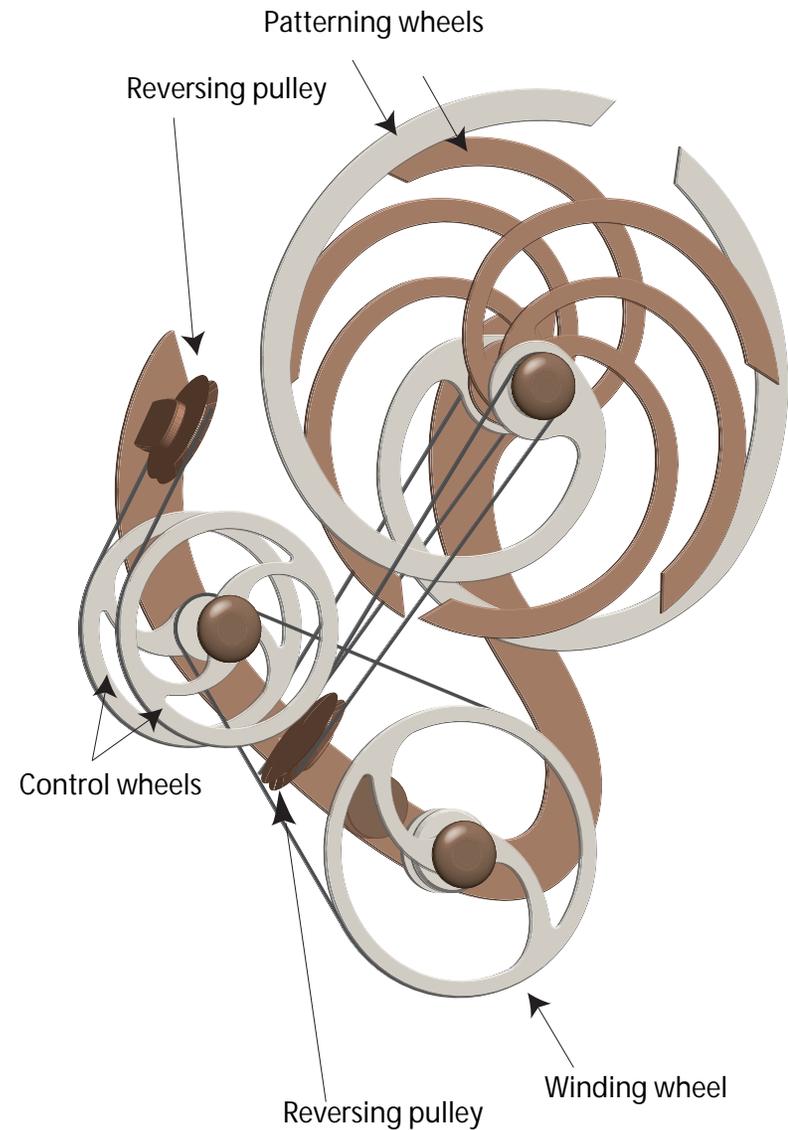
Hello,

Welcome to the world of Wood That Works. This Cyclone is number _____ out of a possible 150 pieces. It was made by me during the month of _____ in 2004. 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 Cyclone has been my full time occupation for more than 25 years. I hope Cyclone brings you and other viewers as much enjoyment as I've found in making it.

Cyclone has been mounted on a wall in my shop and running for at least 10 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.

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

David C. Roy



Directions:

Correct Installation of the Spring-Belts:

- Two spring-belts power and control the motion of this sculpture. It is easy to reinstall the small belt if it becomes knocked loose during shipping or installation. The longer belt takes a more involved path and can be a challenge to reinstall without the proper directions.
- Spring-belts tend to have minds of their own and it sometimes helps to have an extra pair of hands to install the long one.
- The first step is to make sure the small one is correctly installed so it is out of the way. It goes from the winding wheel to a small pulley between the two control wheels. Refer to the diagram at the right and install the small belt if necessary. Make sure it rests in the slots of the wheel and pulley.
- Next place the long belt over the small pulley to the rear of the patterning wheels. Bring the right side of this belt down and under the dark reversing pulley on the right side of the control wheels and then up and over, from right to left, the small pulley on the front of the patterning wheels. Keep tension on the belt by gently pulling down on the free loop end with your left hand.
- While keeping tension on the belt by holding the free end in one hand, pass the front and back sides of the belt under the pair of control wheels making sure the belt properly aligns with the slots of the wheels. Hold the belt in place against the control wheels with your right hand. With your left hand stretch the free loop of the belt up and over the dark reversing wheel on the left side of the sculpture.

About Cyclone

Cyclone is a complex patterning sculpture that runs for a long time on a single winding. The large upper wheels rotate in opposite directions at a variety of speeds creating an entwining pattern that appears to weave and collapse in an ever changing cycle.

Most of the motion takes place in the upper patterning wheels. The lower wheels are brought into the action when one of the upper wheels runs out of energy and begins to stall. At this point a small lever triggers the mechanism that releases the wound up spring energy for a short burst. The energy is transferred back to the stalling wheel through the belts and pulleys and the cycle starts over again.

Specifications:

Limited Edition of 150

Size: 31"h x 28"w x 7"d

Power Source: negator spring

Approximate Run Time: 12 hours

Materials: hardwood plywood,
bearings, string

Cyclone ©2003

Directions:

To Mount on Wall:

- DO NOT remove the tape holding the spring-belts in place.
- Hold the mounting template in the desired location against a wall. The diagram shows the relationship of the template to the sculpture to guide you in positioning the sculpture on the wall.
- Level the bottom edge of the template.
- Place a sharp instrument through the screw holes, marking their positions on the wall. Remove and save the template.
- Drill pilot holes. If the wall is sheet rock or plaster use plastic anchors.
- Screw the sculpture to the wall.
- Remove the tape holding the spring-belts in place.

To Wind:

- Turn the winding wheel clockwise 24 turns.

To Start:

- If the sculpture does not start by itself after winding, gently push both patterning wheels in a clockwise direction.

To Stop:

- Slow the motion of the patterning wheels with your hand and let them come to rest with their heavy sides down.

Before Moving Sculpture:

- 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.
- See the diagram for the best tape locations.
- Never lay the sculpture on a horizontal surface for a long period of time without supporting the spokes of the patterning wheels. I use crumpled newspaper to support and separate the wheels when packing the sculpture.

Mounting template

