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UGEARS 70162

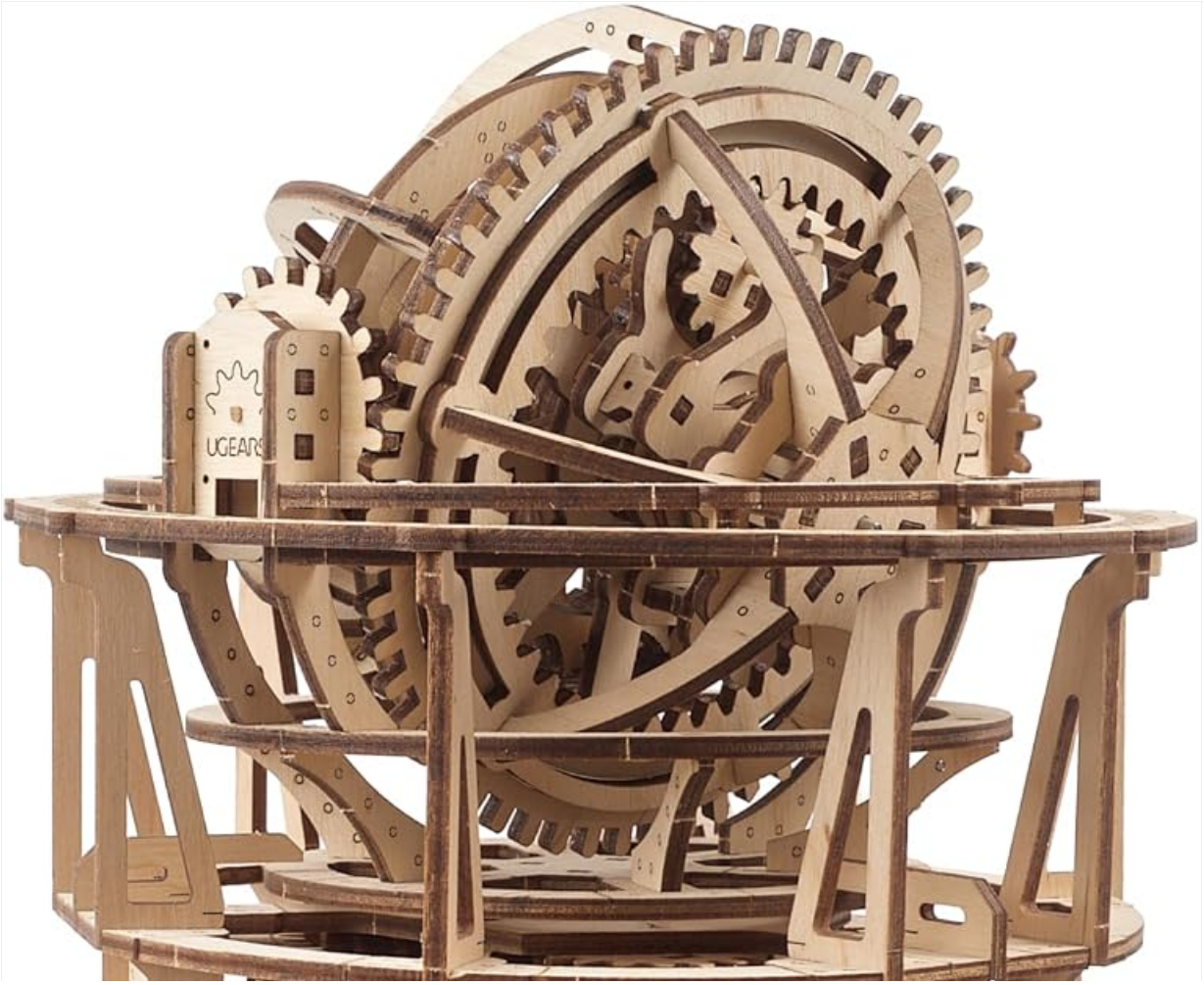
UGEARS Astronomer Table Clock with Tourbillon Model Kit (Model 70162)

Instruction Manual

Overview Setup & Assembly Operation Maintenance Troubleshooting Specifications Support

1. Overview

The UGEARS Astronomer Table Clock with Tourbillon is a functional mechanical 3D wooden puzzle kit designed for assembly without glue or special tools. This model features an intricate tourbillon mechanism and a celestial observatory design, providing both an engaging building experience and a decorative, operational timepiece.





The fully assembled UGEARS Astronomer Table Clock, showcasing its intricate wooden gears and tourbillon mechanism.



The UGEARS Sky Watcher Tourbillon Table Clock, a functional mechanical model.

2. Setup and Assembly

This model kit consists of 338 laser-cut wooden pieces that interlock precisely. No glue or additional tools are required for assembly. Follow the detailed, illustrated instructions provided in the box.

2.1. Unpacking and Inspection

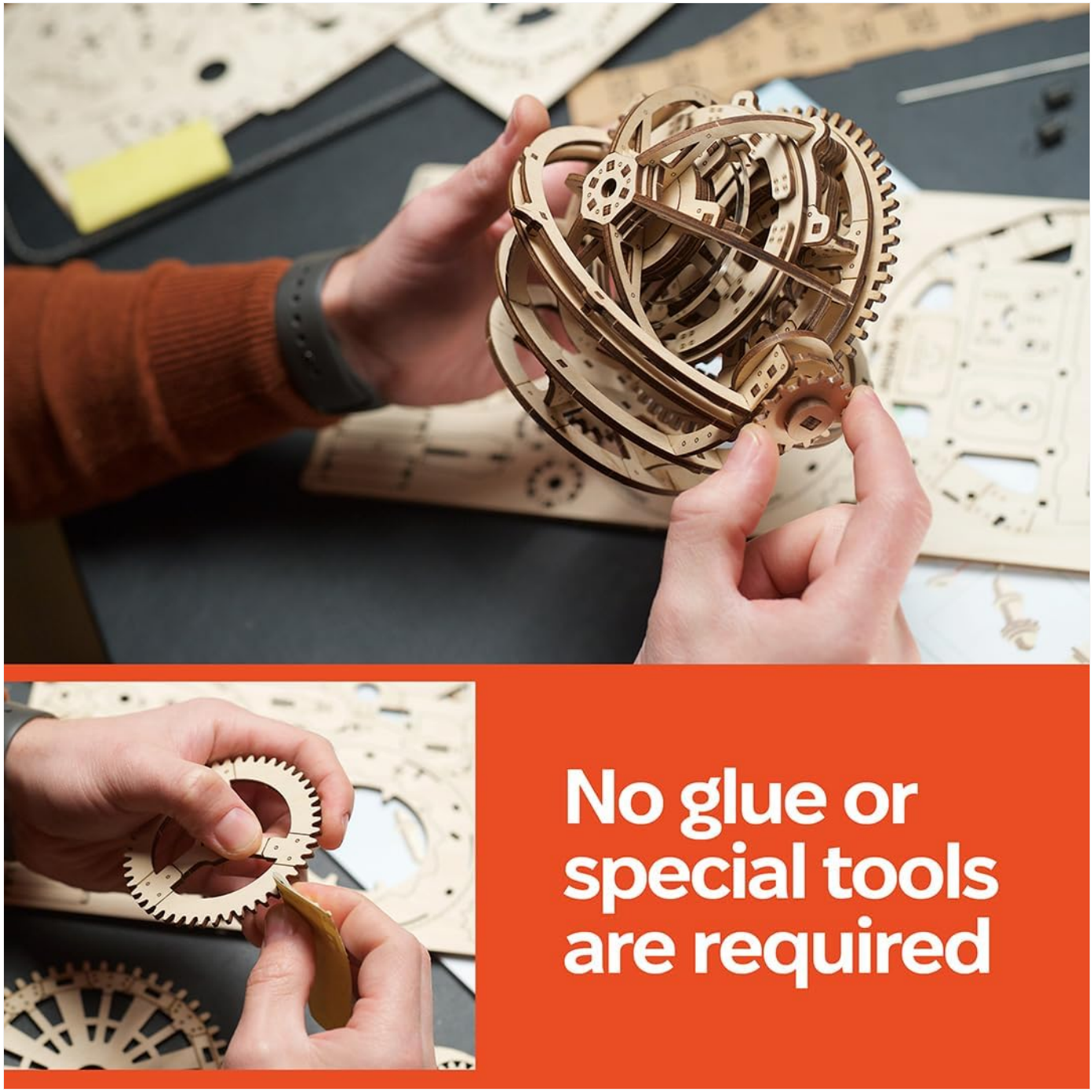
- Carefully open the packaging and remove all wooden sheets and components.
- Verify that all parts are present and undamaged by comparing them with the parts list in the instruction manual.
- Familiarize yourself with the instruction manual before beginning assembly.



The kit includes laser pre-cut plywood boards and illustrated instructions in multiple languages.

2.2. Assembly Process

1. Gently detach each piece from its wooden frame. Use fine sandpaper if necessary to smooth any rough edges.
2. Follow the step-by-step illustrations in the manual. Pay close attention to the orientation and connection points of each part.
3. Ensure all connections are secure but do not force pieces together, as this may cause damage.
4. Lubricate moving parts with wax as indicated in the instructions to ensure smooth operation.



Assembly requires no glue or special tools; pieces interlock securely.

Recommended Age: This model is recommended for individuals aged 14 years and up due to its intricate nature.

3. Operating Instructions

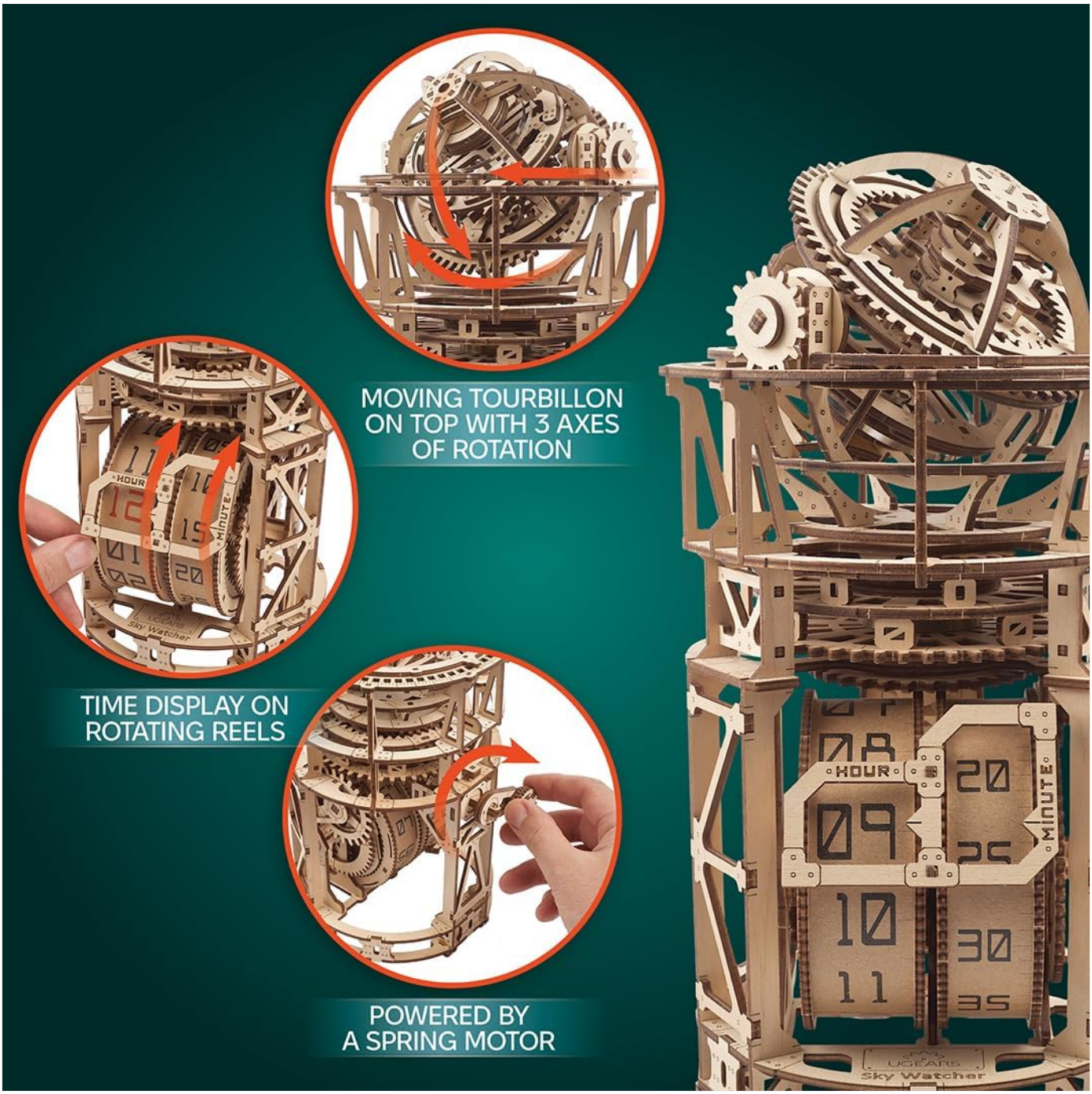
The Astronomer Table Clock is a functional mechanical clock powered by a spring motor. It displays time using rotating reels for hours and minutes.

3.1. Winding the Clock

- Locate the winding mechanism, typically a knob or lever, as shown in the manual.
- Turn the winding mechanism clockwise until you feel resistance. Do not overwind the spring, as this can damage the mechanism.
- A full wind provides approximately 2-3 hours of operation.

3.2. Setting the Time

- Identify the hour and minute adjustment points on the rotating reels.
- Gently rotate the reels manually to set the current time. Ensure the numbers align correctly in the display windows.



Key operational features: the moving tourbillon, time display on rotating reels, and the spring motor.

4. Maintenance

Proper maintenance ensures the longevity and smooth operation of your UGEARS model.

- **Cleaning:** Use a soft, dry cloth or a small brush to gently remove dust from the gears and surfaces. Avoid using water or cleaning solutions.
- **Lubrication:** Reapply wax to moving parts as needed, especially if the mechanism starts to feel stiff or noisy. Refer to the original assembly instructions for specific lubrication points.
- **Storage:** Store the model in a dry environment away from direct sunlight and extreme temperature fluctuations to prevent wood warping or damage.

- **Handling:** Handle the model with care to avoid accidental breakage of delicate parts.

5. Troubleshooting

If you encounter issues with your Astronomer Table Clock, consider the following common solutions:

Problem	Possible Cause	Solution
Clock does not run or stops frequently.	Insufficient winding, friction in gears, misaligned parts.	Ensure the clock is fully wound. Check for any visible obstructions or misaligned gears. Reapply wax to moving parts.
Parts do not fit together.	Incorrect orientation, excess material on edges.	Double-check the instruction manual for correct part orientation. Gently sand edges if there is excess material. Do not force parts.
Time display is inaccurate.	Improper setting, internal mechanism issue.	Reset the time carefully. If the issue persists, inspect the internal gear train for any loose or damaged components.

6. Specifications

- **Model Number:** 70162
- **Brand:** UGEARS
- **Material:** High-quality plywood
- **Number of Parts:** 338
- **Assembly Time:** Approximately 15 hours (varies by individual)
- **Recommended Age:** 14+ years
- **Product Dimensions (Assembled):** 7.1 x 6.5 x 12.2 inches (182 x 160 x 310 mm)
- **Item Weight:** 2.57 pounds
- **Features:** Functional tourbillon, rotating time display, spring-powered mechanical movement, no glue assembly.



Key specifications including dimensions, recommended age, and part count.

7. Warranty and Support

UGEARS products are manufactured to high-quality standards. If you encounter any issues or require assistance with your model, please contact UGEARS customer support. Details for contacting support can typically be found on the product packaging or the official UGEARS website.
Please retain your proof of purchase for any warranty claims.

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