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UGEARS 70128

UGEARS Globe 3D Wooden Mechanical Puzzle Instruction Manual

Model: 70128

1. Introduction

Thank you for choosing the UGEARS Globe 3D Wooden Mechanical Puzzle. This self-assembling model offers an engaging experience in mechanical construction. This manual provides essential information for the assembly, operation, and care of your UGEARS Globe.



Image 1.1: The fully assembled UGEARS Globe 3D Wooden Mechanical Puzzle.

2. Safety Information

Please read and understand all safety instructions before beginning assembly.

- **Small Parts Warning:** This product contains small parts and is **not suitable for children under 3 years** due to choking hazards.
- **Sharp Edges:** Exercise caution when removing pieces from the wooden sheets, as some edges may be sharp.
- **Material:** The model is made of wood. Avoid exposure to excessive moisture or extreme temperatures to prevent damage.

3. Assembly (Setup)

The UGEARS Globe is designed for self-assembly without the need for glue or additional specialized tools. Follow the included step-by-step, full-color instructions carefully.

3.1. Preparation

- **Unpack:** Carefully remove all wooden sheets and the instruction booklet from the packaging.
- **Identify Parts:** Familiarize yourself with the different wooden sheets and the corresponding parts as shown in the manual.
- **Tools:** A small tool is provided to assist in punching out pieces. For very small or delicate parts, consider using tweezers or needle-nose pliers to prevent damage.
- **Lubrication:** Wax is provided. Apply it to moving gears and axles as indicated in the instructions to ensure smooth operation.
- **Smoothing:** Sandpaper is included. Use it to gently smooth any rough edges on the wooden pieces if necessary, ensuring a precise fit and preventing friction.



Image 3.1: Wooden sheets containing the puzzle components.



Image 3.2: Carefully detaching a gear piece from its wooden frame.

3.2. Assembly Process

1. Follow the detailed illustrations in the instruction manual step-by-step. Each step shows which parts to use and how they connect.
2. Ensure all connections are secure and pieces are fully seated. Do not force parts together; if a piece does not fit, re-check the instructions and ensure no burrs are present.
3. Pay close attention to the orientation of gears and other mechanical components. Incorrect orientation can prevent the mechanism from functioning.
4. The globe features two sets of decorative continents. Attach these carefully as instructed. Note that these are paper cut-outs and require gentle handling.



Image 3.3: Hands carefully assembling the wooden globe.



Image 3.4: Connecting the upper and lower sections of the globe.

4. Operation

Once fully assembled, the UGEARS Globe is a self-propelling mechanical model powered by a rubber-band motor.

4.1. Winding the Mechanism

- Locate the winding key or lever on the base of the model.
- Gently turn the key/lever to wind the rubber-band motor. Do not overwind, as this can damage the mechanism.

4.2. Activating Movement

- Release the locking mechanism (if present) to allow the gears to engage.
- The globe will begin to rotate. The model also features two additional modules, a shuttle and a sputnik, which orbit the globe at approximately twice its speed.



Image 4.1: A hand demonstrating interaction with the globe's gear mechanism.



Image 4.2: The UGEARS Globe with its orbiting shuttle and sputnik components.

5. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the model. Avoid using liquids or abrasive cleaners.
- **Lubrication:** If the mechanism becomes stiff over time, reapply a small amount of wax to the moving parts as originally instructed during assembly.
- **Storage:** Store the model in a dry environment away from direct sunlight and extreme temperature fluctuations.

6. Troubleshooting

If you encounter issues with your UGEARS Globe, refer to the following common problems and solutions:

- **Mechanism Not Moving Smoothly:**
  - Ensure all gears and axles are properly waxed.

- Check for any misaligned or jammed parts. Gently adjust if necessary.
- Verify that no excess material or burrs are causing friction. Use sandpaper to smooth if needed.

- **Parts Not Fitting:**
  - Double-check the instruction manual to confirm you are using the correct parts and orientation for the current step.
  - Ensure the part is fully punched out from the wooden sheet and any connecting tabs are removed.
  - Gently sand the edges of the part if it is too tight. Do not force pieces, as this can cause breakage.
- **Broken Part During Assembly:**
  - If a small, non-critical part breaks, wood glue can sometimes be used for repair.
  - For critical structural or mechanical parts, contact UGEARS customer support for assistance.

7. Specifications

Feature	Detail
Product Dimensions	14.88 x 6.69 x 0.1 inches
Item Weight	1.48 pounds
Item Model Number	70128
Manufacturer Recommended Age	12 months and up (Note: Small parts warning applies)
Release Date	January 1, 2020
Manufacturer	Ugears

8. Warranty and Support

For any questions, missing parts, or support regarding your UGEARS Globe, please refer to the contact information provided with your product packaging or visit the official UGEARS website.
You can also visit the UGEARS Store on Amazon for more information and to contact the seller directly.

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