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UGEARS 70019

UGEARS Mechanical Flower Model 70019 Instruction Manual

Model: 70019 | Brand: UGEARS

Introduction

The UGEARS Mechanical Flower is an intricate 3D wooden puzzle designed for assembly by adults. This model features a unique mechanism that allows its petals to open and close, revealing an inner compartment suitable for storing small items like jewelry. The kit consists of 101 precision laser-cut wooden pieces that interlock without the need for glue or special tools. This manual provides detailed instructions for assembly, operation, and maintenance to ensure a rewarding building experience and lasting enjoyment of your model.

Setup and Assembly

Assembly of the UGEARS Mechanical Flower requires patience and attention to detail. Follow the pictorial instructions provided in your kit carefully. No glue is required, as all pieces are designed to fit together precisely.

1. Unpacking and Part Preparation

- Carefully remove all wooden sheets from the packaging.
- Gently press out each of the 101 pieces from their frames. Exercise caution, especially with smaller or more delicate parts, to prevent breakage. Some kits may include extra small pieces as spares.
- Familiarize yourself with the instruction booklet. The instructions are primarily visual, using diagrams to guide each step.



Image: The kit includes laser-cut wooden sheets and a detailed pictorial instruction manual for assembly.

2. Assembly Process

- Follow the step-by-step diagrams in the instruction manual. Each step illustrates which pieces to connect and in what orientation.
- When connecting pieces, ensure they align perfectly. If a piece feels too tight, do not force it. Lightly sand the edges of the connecting tabs with fine-grit sandpaper (often included in the kit) until it fits smoothly.
- For moving parts, especially gears and axles, apply a small amount of wax (also typically included) to reduce friction and ensure smooth operation. This is crucial for the flower's opening and closing mechanism.
- The model includes two interchangeable inserts for the center: a ballerina figure and a 'Tree of Luck' design. Choose your preferred insert during assembly.



Image: The fully assembled Mechanical Flower with its petals open, featuring the ballerina insert.



Image: The Mechanical Flower with the alternative 'Tree of Luck' insert, petals open.

Operating Instructions

The UGEARS Mechanical Flower is operated manually through a rotating ring at its base.

- To **open** the flower's petals, gently twist the ring at the base in one direction (refer to the manual for specific direction, usually clockwise). The internal gears will engage, causing the petals to expand outwards.
- To **close** the flower's petals, twist the ring at the base in the opposite direction. The petals will retract, returning to a more compact form.
- The central compartment, revealed when the petals are open, can be used to store small items such as jewelry, keys, or other keepsakes.



Image: The Mechanical Flower in its fully open state, showcasing the detailed wooden petals and central figure.



Image: The Mechanical Flower in its fully closed state, appearing as a decorative wooden sphere.

Maintenance

Proper care will ensure the longevity and smooth operation of your UGEARS Mechanical Flower.

- **Cleaning:** Dust the model regularly with a soft, dry cloth or a soft brush. Avoid using water or chemical cleaners, as these can damage the wood.
- **Lubrication:** If the mechanism becomes stiff over time, reapply wax to the gears and moving joints. Use the wax provided in the kit or a similar natural wax.
- **Storage:** Store the model in a dry environment, away from direct sunlight or extreme temperature fluctuations, which can cause the wood to warp or crack.
- **Handling:** Always handle the model gently, especially the delicate petal structures and internal mechanisms.

Troubleshooting

Here are solutions to common issues you might encounter during or after assembly:

- **Pieces breaking during removal:** Wooden pieces, especially small ones, can be fragile. Always press them out gently and evenly. If a piece breaks, use a small amount of wood glue to repair it. Some kits include spare small parts.
- **Parts not fitting together:** If a connection is too tight, do not force it. Use the provided sandpaper to lightly sand the edges of the tabs or slots until they fit without excessive pressure. Ensure you are using the correct pieces as indicated in the manual.
- **Mechanism is stiff or not moving smoothly:** This is often due to friction. Ensure all gears, axles, and moving joints have been adequately waxed during assembly. Reapply wax if necessary. Check for any misaligned pieces or debris obstructing the movement.
- **Flower does not open/close completely:** Verify that all gears are correctly aligned and engaged. Ensure no parts are catching or binding. Re-waxing the moving parts can often resolve this.

Specifications

Feature	Detail
Model Number	70019
Product Dimensions	5.74 x 2.63 x 0.54 inches (unassembled sheet size)
Assembled Dimensions (approx.)	14.76 inches (width) x 6.69 inches (height)
Item Weight	7.1 ounces
Number of Pieces	101
Assembly Time (approx.)	4 Hours
Material	Plywood
Batteries Required	No
Glue Required	No



Image: Approximate dimensions of the assembled Mechanical Flower.

Warranty and Support

UGEARS products are designed for quality and precision. For specific warranty information or if you encounter issues not covered in this manual, please refer to the official UGEARS website or contact their customer support directly. Keep your purchase receipt as proof of purchase.
For additional assistance, you may visit the UGEARS official store page:UGEARS Store

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