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UGEARS 70151

UGEARS Windstorm Dragon 3D Wooden Puzzle

Model: 70151
Brand: UGEARS

INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your UGEARS Windstorm Dragon 3D Wooden Puzzle. The Windstorm Dragon is a mechanical model kit featuring dynamic movement, an open-style design, and intricate craftsmanship. It consists of 320 wooden components and is designed for experienced builders aged 14 and up.



Image: The fully assembled UGEARS Windstorm Dragon, showcasing its detailed wooden structure and blue paper wings, resting on its display stand.

WHAT'S IN THE BOX

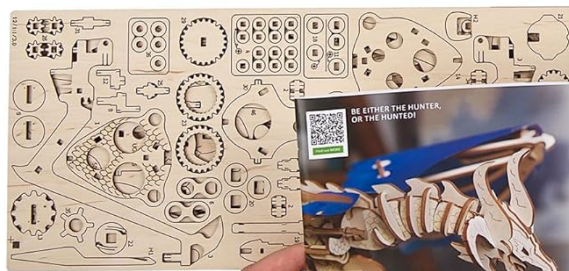
Upon opening your UGEARS Windstorm Dragon kit, you will find the following components:

- Laser pre-cut plywood boards containing all 320 puzzle parts.
- Detailed assembly instructions, often illustrated and available in multiple languages.
- Rubber bands for the mechanical motor.
- Wax for lubricating moving parts.
- Additional small components as required for assembly.

ILLUSTRATED INSTRUCTIONS IN 11 LANGUAGES



LASER PRE-CUT PLYWOOD BOARDS



EVERYTHING IN THE BOX

Image: A view of the kit contents, showing the laser-cut plywood sheets, the instruction booklet, and small bags containing rubber bands and wax.

ASSEMBLY INSTRUCTIONS

The assembly of the Windstorm Dragon requires patience and attention to detail. Follow the included illustrated instructions carefully, step-by-step.

- 1. Preparation:** Lay out all plywood sheets and identify the parts. Gently press out the pieces. If a piece is difficult to remove, use a hobby knife to carefully cut the small connectors. Avoid forcing parts to prevent chipping or breakage.
- 2. Sanding and Waxing:** Many parts, especially those that will move or connect, benefit from light sanding with fine-grit sandpaper (not included) and thorough waxing. Apply wax liberally to all gears, axles, and points of friction as indicated in the instructions. This is crucial for smooth operation of the mechanical elements.
- 3. Step-by-Step Construction:** Follow the numerical sequence in the instruction manual. Each step will guide you through connecting specific parts. Pay close attention to the orientation of pieces.
- 4. Testing Mechanisms:** The manual will prompt you to test the movement of certain mechanisms at various

stages of assembly. Perform these tests diligently. If a mechanism feels stiff or binds, re-check the assembly of the relevant parts, ensure they are snugly fitted, and apply more wax if necessary.

5. **Wing Assembly:** The dragon's wings are made from flexible paper cutouts. Attach these carefully to the wooden frame of the wings as instructed.
6. **Final Assembly:** Complete the remaining sections, including the head, tail, and display stand. Ensure all connections are secure.

NO GLUE OR SPECIAL TOOLS ARE REQUIRED



Image: A close-up of hands working on assembling a wooden component, demonstrating the precision required for construction.



Image: The flexible, blue paper wings of the Windstorm Dragon, ready for attachment to the wooden frame.

OPERATING INSTRUCTIONS

The Windstorm Dragon is powered by a rubber-band motor, allowing its wings, legs, and body to move dynamically.

- **Winding the Mechanism:** Locate the winding key, typically on the dragon's chest. Gently turn the key to wind the rubber-band motor. Refer to your specific instruction manual for the recommended number of turns to avoid over-winding.
- **Activating Movement:** Once wound, the dragon's movement can be initiated. The exact activation method (e.g., a lever or button) will be detailed in your assembly instructions.
- **Observation:** The open-style design allows you to observe the intricate gears and the rubber-band motor in action as the dragon moves.

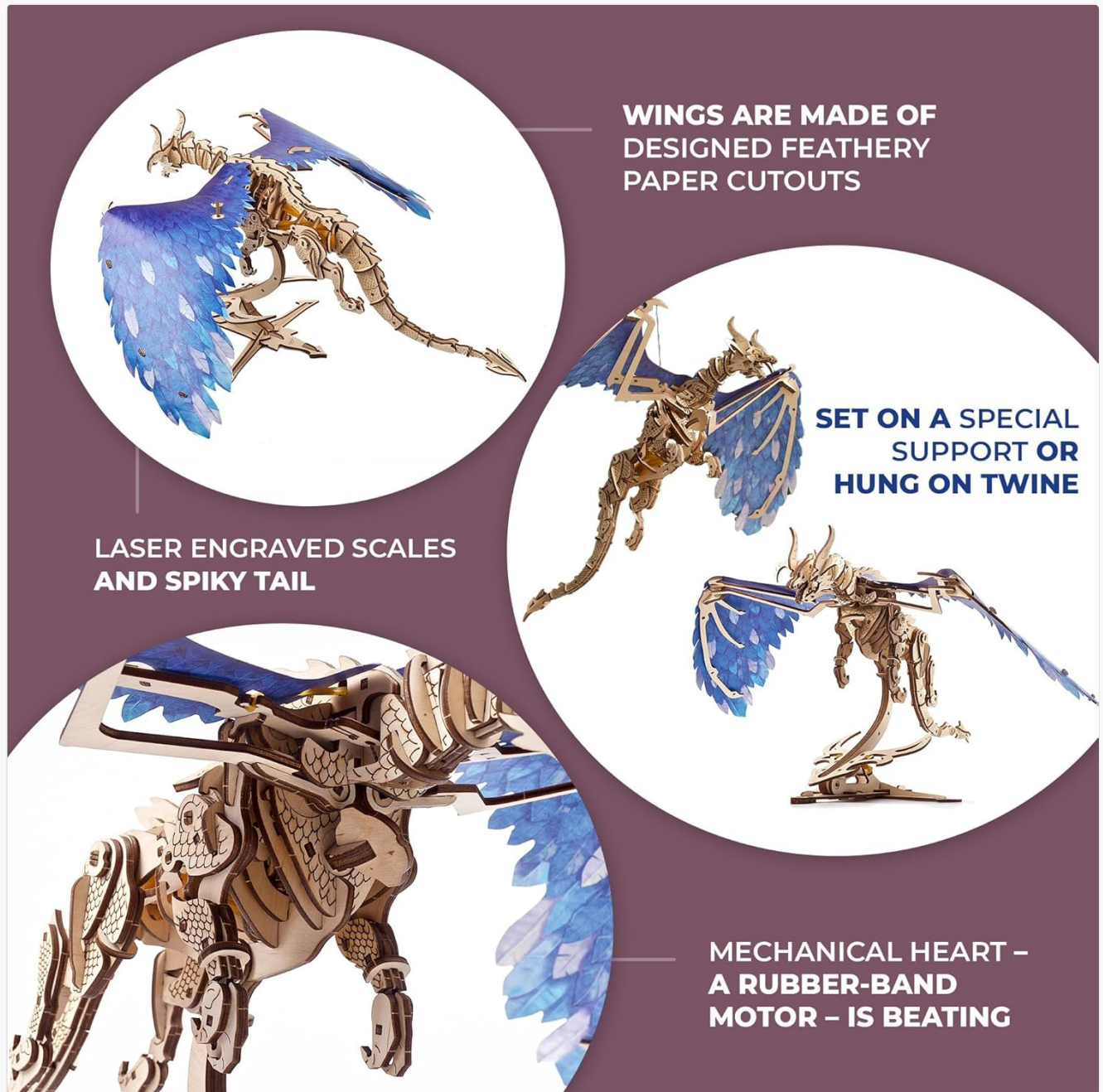


Image: A detailed view of the Windstorm Dragon, showing the laser-engraved scales on its body, the spiky tail, and the flexible paper wings. The internal mechanical components are visible through its open design.

MAINTENANCE

To ensure the longevity and smooth operation of your UGEARS Windstorm Dragon, consider the following maintenance tips:

- **Lubrication:** Periodically re-apply wax to moving parts, especially gears and axles, if you notice any stiffness or increased friction during operation.
- **Cleaning:** Dust the model gently with a soft, dry cloth or a soft brush. Avoid using water or cleaning solutions, as they can damage the wood.
- **Storage:** Store the model in a dry environment away from direct sunlight or extreme temperature fluctuations to prevent warping or damage to the wooden components.
- **Handling:** Handle the assembled model with care, especially the delicate paper wings and intricate mechanical parts.

TROUBLESHOOTING

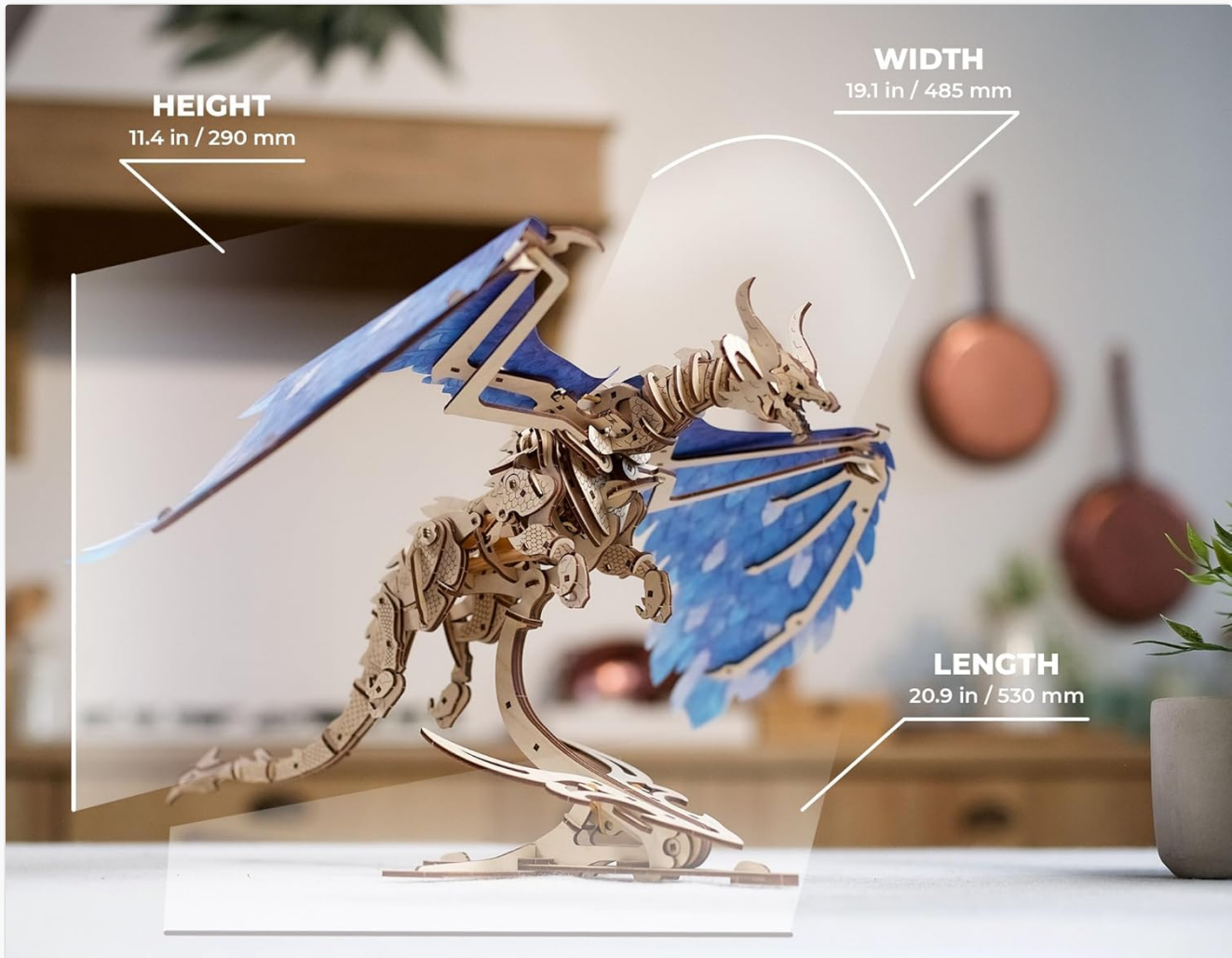
If you encounter issues with your Windstorm Dragon, refer to the following common problems and solutions:

- **Mechanism is Stiff or Not Moving:**
 - Ensure all moving parts (gears, axles) have been adequately waxed. Re-apply wax generously.
 - Check for any misaligned or loose parts. Disassemble and reassemble the problematic section, ensuring all connections are snug.
 - Verify that no excess wood or debris is obstructing the movement of gears.
- **Parts Chipping During Assembly:**
 - Always press out parts gently. If resistance is met, use a hobby knife to cut the small holding tabs.
 - Avoid forcing parts together. If a connection is too tight, lightly sand the edges of the tab or slot.
- **Model Does Not Stay Wound / Loses Power Quickly:**
 - Ensure the rubber bands are correctly installed and not twisted or damaged.
 - Confirm that all gears and axles are well-lubricated with wax to minimize friction.
 - Check for any binding points in the mechanism that might be causing excessive resistance.
- **Broken Part:**
 - UGEARS often provides spare parts for common breakage points. Check your kit for extras.
 - Contact UGEARS customer support for assistance with replacement parts if needed.

SPECIFICATIONS

Feature	Detail
Model Number	70151
Brand	UGEARS
Product Dimensions (L x W x H)	14.88 x 6.69 x 0.1 inches (unassembled sheet size)
Assembled Dimensions (approx.)	Height: 11.4 in / 290 mm, Width: 19.1 in / 485 mm, Length: 20.9 in / 530 mm
Item Weight	10.6 ounces

Number of Parts	320
Estimated Assembly Time	6 hours
Difficulty Level	Medium
Recommended Age	14 years and up





320

PARTS



6
hours

ASSEMBLY TIME



MEDIUM

LEVEL

Image: An infographic displaying key specifications of the Windstorm Dragon, including its assembled height, width, and length, along with the part count, estimated assembly time, and difficulty level.

WARRANTY AND SUPPORT

UGEARS products are designed for quality and precision. For any questions regarding assembly, missing parts, or product defects, please refer to the contact information provided in your product packaging or visit the official UGEARS website for customer support.

While specific warranty details may vary by region, UGEARS typically offers support for manufacturing defects and

replacement of damaged or missing parts. Please retain your proof of purchase.



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