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UGEARS 1

UGEARS Triceratops Wooden 3D Puzzle

Mechanical Model Kit - Instruction Manual

1. Product Overview

The UGEARS Triceratops is a sophisticated wooden 3D puzzle designed for adults and older children. This mechanical model kit allows you to construct a dynamic representation of a Triceratops dinosaur, featuring a metal spring mechanism that enables realistic movement of its four legs and swaying tail. The model is designed to walk up to 90-100 cm on a single wind-up.



Image: The fully assembled UGEARS Triceratops wooden 3D puzzle, showcasing its intricate mechanical design.

This kit provides an engaging and educational building experience, culminating in an interactive model that mimics the movements of a real dinosaur. It is an ideal project for puzzle enthusiasts and those interested in mechanical models.

2. Package Contents

Before beginning assembly, please verify that all components listed below are present in your kit:

- Plywood boards with laser pre-cut parts
- Rubber bands
- Fishing line
- Paraffin wax
- Sandpaper
- Illustrated instruction manual (available in 11 languages)



Image: A view of the kit's contents, showing the laser pre-cut plywood sheets and the detailed instruction manual.

No additional glue or special tools are required for assembly, as all parts are designed to interlock precisely.

3. Assembly Instructions

The assembly of the UGEARS Triceratops model involves 400 parts and is estimated to take over 8 hours. Patience and careful attention to the instructions are key to a successful build.

3.1. Preparation

- **Unpack Components:** Carefully remove all plywood boards and other materials from the box.
- **Review Instructions:** Thoroughly read through the entire illustrated instruction manual before starting. Familiarize yourself with the diagrams and part numbering.
- **Prepare Workspace:** Ensure you have a clean, well-lit, and spacious work area.

3.2. Part Removal

- **Gentle Extraction:** Parts are laser pre-cut. Gently press them out from the plywood boards. Avoid forcing pieces,

as this can cause breakage.

- **Use Sandpaper:** If a part is difficult to remove or fit, use the provided sandpaper to lightly smooth the edges.
- **Waxing:** For moving parts, gears, and axles, apply a small amount of paraffin wax (provided) to ensure smooth operation. This is crucial for the model's functionality.

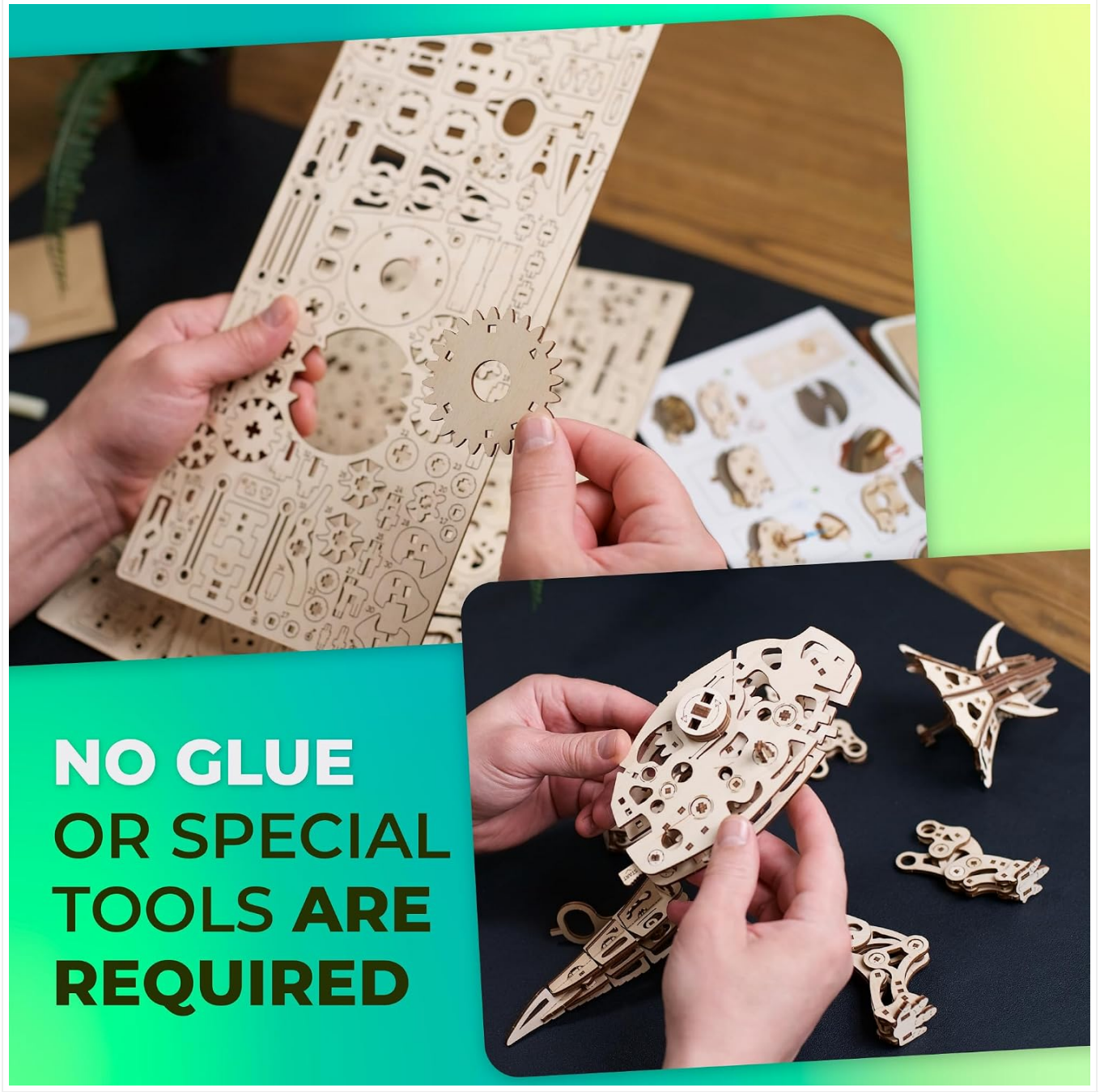

Image: Demonstrating the assembly process, highlighting that no glue or special tools are required.

3.3. Step-by-Step Assembly

Follow the numbered steps and diagrams in the instruction manual precisely. Each step builds upon the previous one, ensuring correct alignment and functionality of the mechanical components.

- **Interlocking Design:** Parts are designed to interlock securely. Ensure each connection is firm but do not apply excessive force.
- **Mechanical Elements:** Pay close attention to the assembly of the internal gears, levers, and the metal spring mechanism. These are critical for the Triceratops' movement.
- **Test Movement:** As you assemble sections with moving parts, periodically test their range of motion to ensure they move freely and without obstruction.

4. Operating Instructions

Once fully assembled, your UGEARS Triceratops model is ready for operation. Its movement is powered by a wind-up mechanism.

4.1. Winding the Mechanism

- Locate the winding key positioned between the Triceratops' shoulder blades on its back.
- Gently turn the key clockwise to wind the internal metal spring. Wind until you feel a slight resistance, but do not overwind.

4.2. Activating Movement

- Place the wound-up Triceratops on a flat, smooth surface.
- Release the mechanism (if there is a stop lever, refer to the manual for its location and operation). The Triceratops will begin to walk forward, moving its legs, head, and tail in a synchronized motion.
- The model can walk approximately 90-100 cm on a full wind.

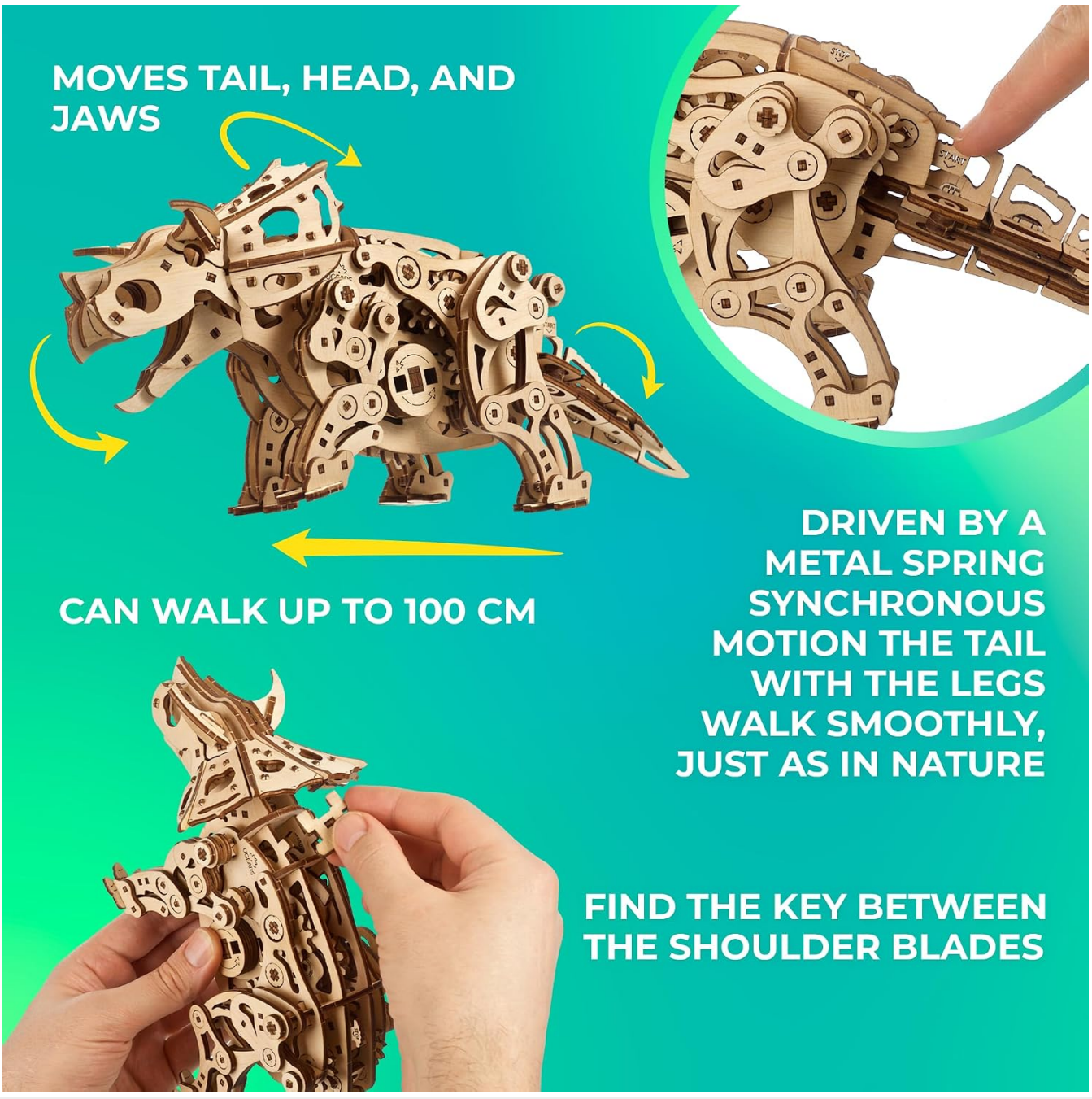

Image: An illustration detailing the Triceratops' dynamic movements, including its head, tail, and legs, and the location of the winding key.

5. Care and Maintenance

To ensure the longevity and optimal performance of your UGEARS Triceratops model, follow these care and maintenance guidelines:

- **Dusting:** Regularly dust the model with a soft, dry cloth or a soft brush to prevent dust accumulation in the gears and moving parts.
- **Avoid Moisture:** Keep the model away from water, high humidity, and direct sunlight. Wood can warp or swell when exposed to moisture, affecting the model's functionality.
- **Temperature Control:** Store the model in a stable environment, avoiding extreme temperature fluctuations.
- **Lubrication:** Periodically reapply paraffin wax to the moving joints, gears, and axles if the movement becomes stiff or noisy. This helps reduce friction and ensures smooth operation.
- **Gentle Handling:** Handle the model with care, especially when winding or moving it, to avoid accidental damage to delicate parts.

6. Troubleshooting

If you encounter any issues with your UGEARS Triceratops model, refer to the following common problems and their solutions:

Problem	Possible Cause	Solution
Model does not move or moves sluggishly.	Insufficient winding, friction in gears/joints, misaligned parts.	Ensure the mechanism is fully wound. Apply paraffin wax to all moving parts. Check for any misaligned or stuck components and gently adjust.
Parts break during assembly.	Excessive force during removal or insertion.	Always remove parts gently. If a part is too tight, use sandpaper to slightly reduce its size. Some kits include spare parts for common breakage points.
Winding key is stiff or difficult to turn.	Friction in the winding mechanism.	Apply paraffin wax to the winding key's shaft and any visible gears connected to it. Do not force the key.
Model makes grinding noises.	Lack of lubrication or misaligned gears.	Apply more paraffin wax to all gears and contact points. Carefully inspect gear alignment and adjust if necessary.

If the problem persists after attempting these solutions, please contact UGEARS customer support for further assistance.

7. Product Specifications

Feature	Detail
Product Dimensions (L x W x H)	13.4 x 4.3 x 5.6 inches (340 x 110 x 140 mm)
Item Model Number	1

Feature	Detail
Number of Parts	400
Estimated Assembly Time	Over 8 hours
Material	High-quality Plywood
Mechanism	Mechanical, Spring-driven
Walk Distance	Up to 90-100 cm
Recommended Age	Adults (or 10+ with supervision)

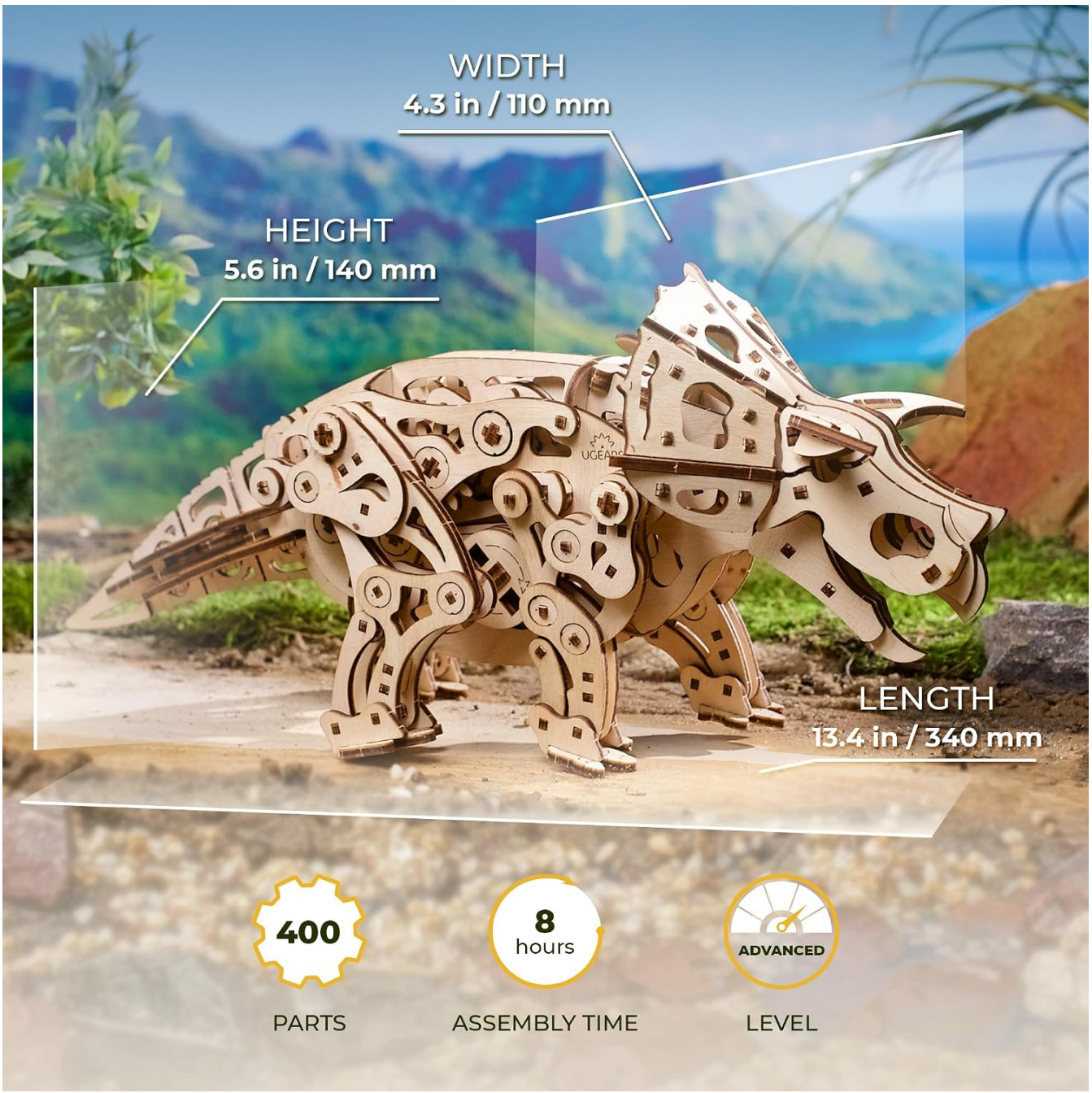

Image: Visual representation of the Triceratops' dimensions, indicating its length, height, and width, along with key assembly statistics.

8. Customer Support

For any questions, concerns, or assistance with your UGEARS Triceratops Wooden 3D Puzzle, please contact UGEARS USA customer support. They can provide guidance on assembly, troubleshooting, and general product inquiries.

UGEARS USA Contact Information:

- Refer to the contact details provided on the product packaging or the official UGEARS website (ugearsmodels.com) for the most current support information.

Please have your product model number (1) and purchase details ready when contacting support.

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