

## ROBOTIME RBT-LGC01

# ROBOTIME LGC01 Marble Spaceport Instruction Manual

Model: RBT-LGC01 | Brand: ROBOTIME

## PRODUCT OVERVIEW

The ROBOTIME LGC01 Marble Spaceport is a sophisticated motorized wooden 3D puzzle designed for adults. This intricate model allows users to construct a functional marble run system featuring various mechanical elements. Upon completion, marbles can be observed navigating through gravity loops, a gathering and diversion hub, gear crosshatches, Z-shaped lifting stairs, double-deck platforms, and mid-air acceleration vortices. The model can be operated either manually via a hand crank or electrically with a motor, providing a dynamic and engaging experience.

## SETUP AND ASSEMBLY

Assembly of the Marble Spaceport typically takes 5 to 8 hours. The kit includes all necessary components and tools for construction.

### Included Components and Tools:

- Precision laser-cut wooden sheets with numbered parts.
- Motor and battery box (USB-C cable and power plug not included, to be prepared by customer).
- Steel marbles.
- Instruction book with step-by-step illustrations.
- Assembly tools: 2 screwdrivers, wax for lubrication, sandpaper, and a nipper for separating plastic pieces.



472 PCS



NO GLUE



5.5 Hours



Image: Contents of the ROBOTIME LGC01 Marble Spaceport kit, including wooden sheets, assembly tools, marbles, and the instruction manual.

## Assembly Guidelines:

1. **Preparation:** Carefully unbox all components. Identify the numbered wooden sheets and familiarize yourself with the instruction manual.
2. **Part Removal:** Use the provided nipper to carefully detach parts from the wooden sheets. Avoid forcing parts to prevent damage.
3. **Sanding and Waxing:** Lightly sand any rough edges if necessary. Apply the provided wax to moving parts and connection points as indicated in the instructions to ensure smooth operation and reduce friction.
4. **Step-by-Step Construction:** Follow the detailed, illustrated instructions provided in the manual. Each step is numbered and shows the exact placement of parts.

5. **Precision:** Pay close attention to the orientation and fit of each piece. The parts are designed for a tight, friction-fit assembly, eliminating the need for glue.
6. **Motor Installation:** Install the motor and connect the battery box as per the instructions. Ensure correct polarity if using batteries (not included).
7. **Testing:** Periodically test sub-assemblies for smooth movement before proceeding to the next steps.

Patience and attention to detail are crucial for a successful build. If a part does not fit easily, re-check the instructions and ensure the correct part and orientation.

## OPERATING INSTRUCTIONS

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The ROBOTIME LGC01 Marble Spaceport offers both manual and electric operation modes for the marble lifting mechanism.



Image: The Marble Spaceport highlighting its dual operation modes: electric and manual.

### Manual Mode:

To operate the marble run manually, locate the hand crank on the side of the model. Turn the crank clockwise to engage the lifting mechanism, which will transport the marbles to the top of the track system. This mode allows for direct control over the marble flow and speed.

### Electric Mode:

For continuous operation, connect the motor to a power source using a USB-C cable (not supplied). Once powered, the motor will automatically lift the marbles, allowing them to continuously cycle through the various tracks and mechanisms. The motor operates at approximately 70 RPM, providing a consistent and mesmerizing display.

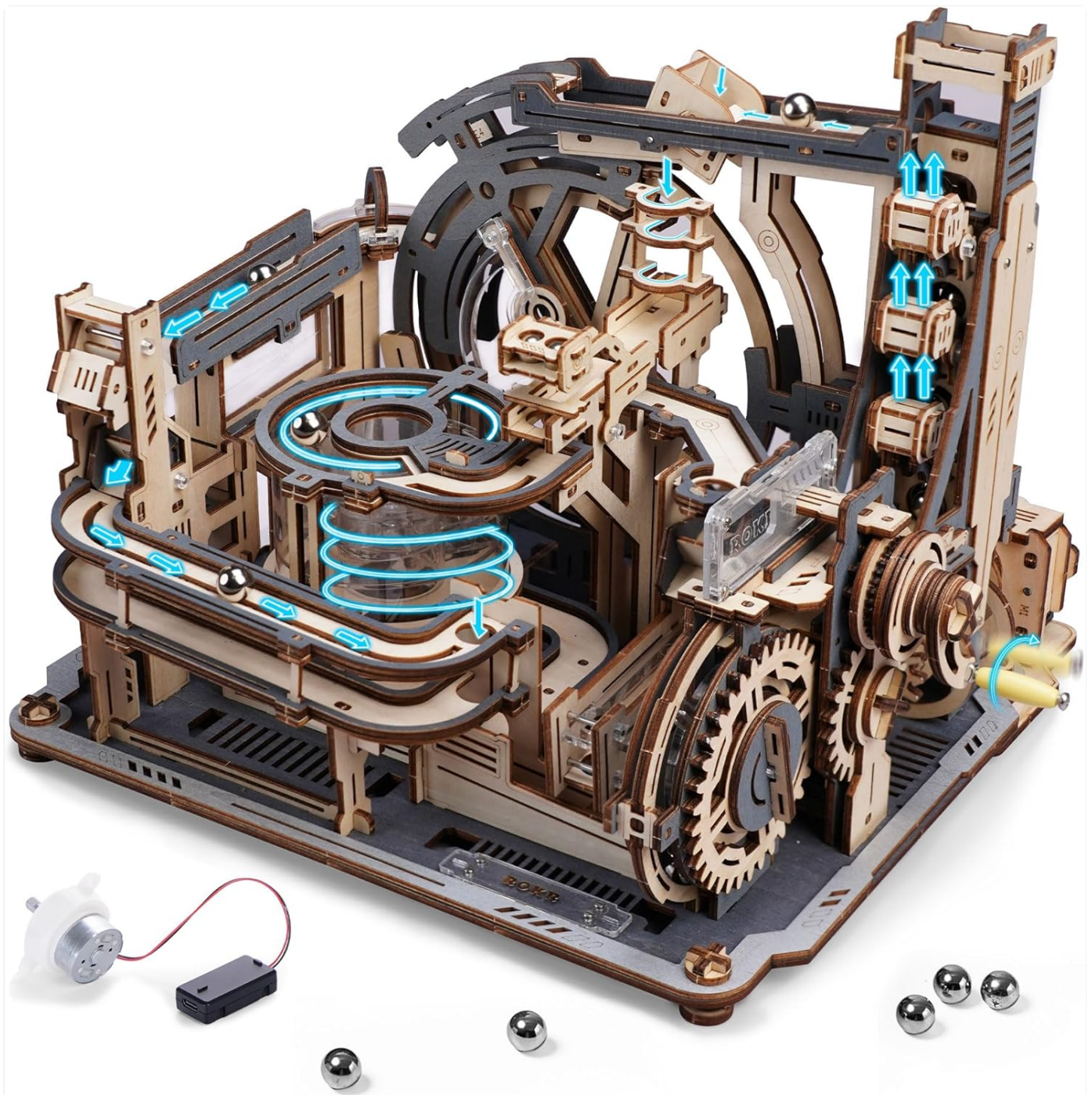


Image: The fully assembled Marble Spaceport, showcasing its intricate marble pathways and mechanisms.

Ensure marbles are placed correctly at the starting point for optimal flow. Observe the marbles as they navigate through gravity loops, the gathering and diversion hub, gear crosshatches, Z-shaped lifting stairs, double-deck platforms, and mid-air acceleration vortices.

### Visual Details of the Marble Run:

## Rich Gameplay

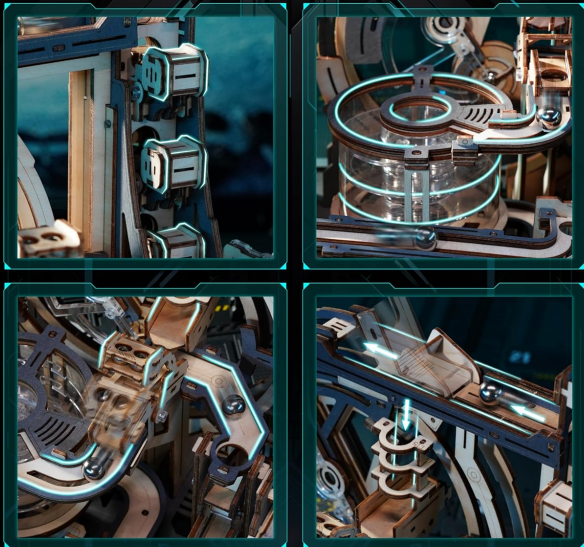


Image: Detailed view of the diverse track elements and marble pathways.

## VIVID DETAILS

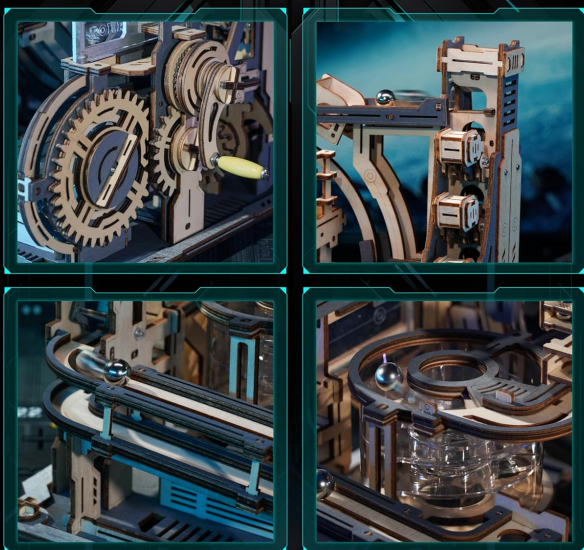


Image: Close-up of the intricate gears and marble lifting mechanisms.

**Note on Videos:** No official product videos from the seller were found to embed in this section.

## MAINTENANCE

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Proper maintenance ensures the longevity and smooth operation of your Marble Spaceport.

- **Cleaning:** Dust the model regularly with a soft, dry cloth to prevent accumulation in moving parts. Avoid using wet cloths or harsh cleaning agents, as they may damage the wood.
- **Lubrication:** Reapply wax to friction points (e.g., gears, axles, sliding surfaces) if you notice increased resistance or

noise during operation. Refer to the assembly instructions for specific areas requiring lubrication.

- **Storage:** Store the model in a dry environment away from direct sunlight and extreme temperature fluctuations to prevent warping or damage to the wooden components.

## TROUBLESHOOTING

If you encounter issues with your Marble Spaceport, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Marbles get stuck or do not flow freely.	<ul style="list-style-type: none"><li>• Insufficient lubrication on tracks or moving parts.</li><li>• Misaligned components or tracks.</li><li>• Warped wooden pieces.</li><li>• Debris obstructing the path.</li></ul>	<ul style="list-style-type: none"><li>• Apply more wax to all friction points and track surfaces.</li><li>• Carefully inspect and adjust any misaligned parts. Refer to the instruction manual for correct alignment.</li><li>• If warping is significant, contact customer support.</li><li>• Clear any dust or small particles from the marble pathways.</li></ul>
Motor not operating or lifting marbles.	<ul style="list-style-type: none"><li>• Incorrect battery installation or depleted batteries (if applicable).</li><li>• Loose connection to power source.</li><li>• Motor mechanism jammed.</li></ul>	<ul style="list-style-type: none"><li>• Ensure batteries are correctly inserted with proper polarity, or replace them.</li><li>• Check USB-C cable connection to the motor and power source.</li><li>• Inspect the lifting mechanism for any obstructions or misaligned gears.</li></ul>
Parts do not fit together during assembly.	<ul style="list-style-type: none"><li>• Incorrect part selected for the step.</li><li>• Part orientation is wrong.</li><li>• Excess material or burrs on the edges.</li></ul>	<ul style="list-style-type: none"><li>• Double-check the part number and illustration in the manual.</li><li>• Ensure the part is oriented exactly as shown in the instructions.</li><li>• Gently use sandpaper to smooth edges if necessary, but avoid removing too much material.</li></ul>

## PRODUCT SPECIFICATIONS

- Model Number:** RBT-LGC01
- Brand:** ROBOTIME
- Product Dimensions:** 10.63 x 8.27 x 0.04 inches (assembled dimensions may vary slightly)
- Item Weight:** 3.54 pounds
- Number of Pieces:** 472
- Recommended Age:** 14 years and up
- Approximate Assembly Time:** 5-8 hours
- Material:** Selected Basswoods
- Operation Modes:** Manual (hand crank) and Electric (motorized, USB-C powered)

## WARRANTY AND SUPPORT

ROBOTIME offers worry-free assembly support for the LGC01 Marble Spaceport. If you encounter any problems during assembly or operation, or if you have questions regarding missing or damaged parts, please contact ROBOTIME

customer service.  
For assistance, please refer to the contact information provided in your product packaging or visit the official ROBOTIME website.

