

## UGEARS 70156

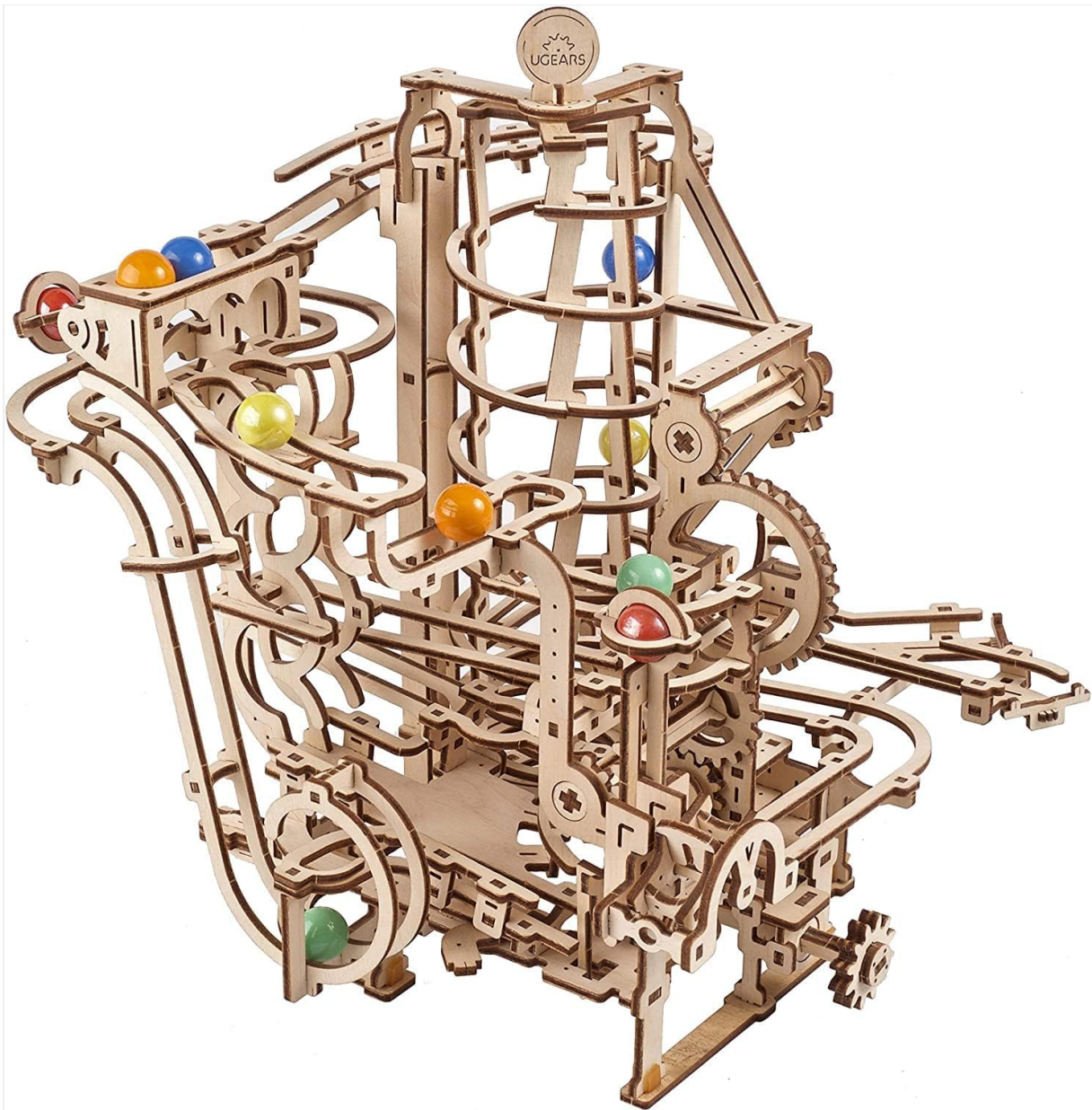
# Ugears Marble Run Spiral Hoist 70156 Wooden Puzzle Instruction Manual

Model: 70156

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the assembly, operation, and maintenance of your Ugears Marble Run Spiral Hoist 70156. This intricate wooden mechanical 3D puzzle offers an engaging building experience and a captivating display of engineering in motion. Follow these guidelines to ensure a successful and enjoyable experience.



*Image: The fully assembled Ugears Marble Run Spiral Hoist 70156, showcasing its intricate wooden design and marble tracks.*

## 2. SAFETY INFORMATION

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- Please read all instructions carefully before beginning assembly.
- This product contains small parts and is not suitable for children under 3 years old due to choking hazards.
- Keep all parts away from open flames or heat sources.
- Handle wooden parts with care to avoid splinters.
- Do not apply excessive force during assembly, as this may damage the parts.
- Ensure the assembly area is clean, well-lit, and free from distractions.

## 3. PACKAGE CONTENTS

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Your Ugears Marble Run Spiral Hoist 70156 package includes:

- Laser-cut wooden sheets with 266 parts
- Assembly instructions (visual guide)

- Marbles
- Sandpaper
- Wax
- Special connector for linking with other Marble Run models

## 4. ASSEMBLY INSTRUCTIONS

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The Ugears Marble Run Spiral Hoist 70156 is designed for assembly without glue or special tools. All parts are precisely laser-cut and interlock.

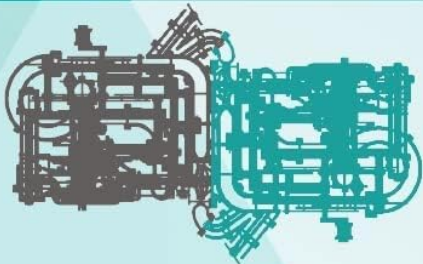
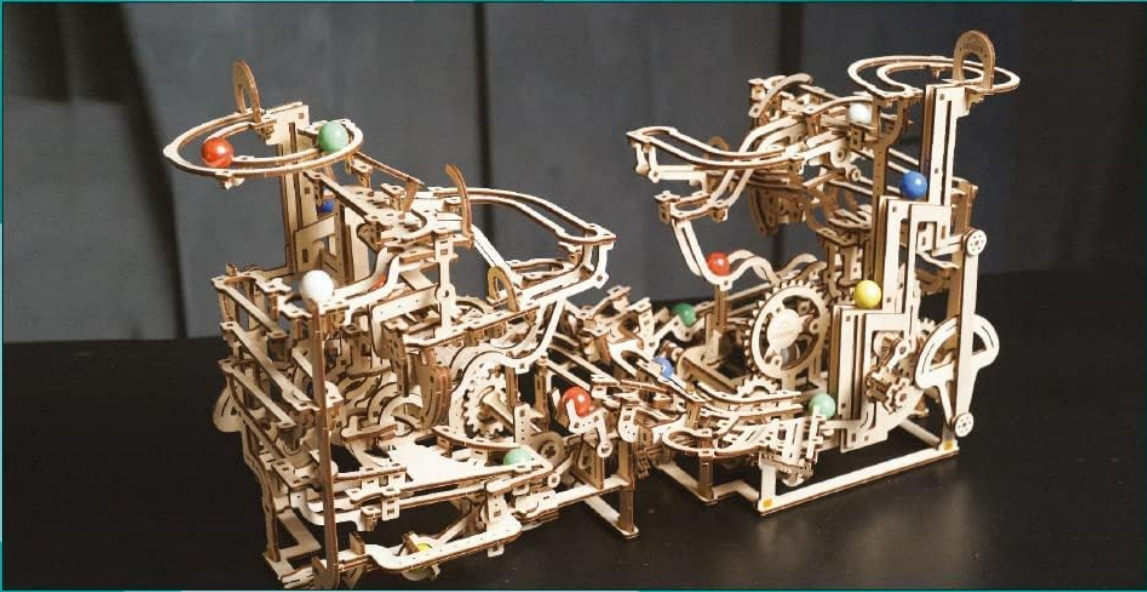
1. **Preparation:** Carefully remove all parts from the wooden sheets. Use the included sandpaper to smooth any rough edges if necessary.
2. **Follow the Visual Guide:** Refer to the detailed visual instructions provided in your package. Each step is illustrated to guide you through the assembly process.
3. **Waxing Gears:** Apply a small amount of wax to the moving gears and connections as indicated in the instructions to ensure smooth operation.
4. **Connecting Modules:** This model can be connected with other Ugears Marble Run models (e.g., Tiered Hoist, Chain Hoist) using the special connector provided. This allows for creating larger, more complex marble run systems.



*Image: A person carefully assembling a wooden puzzle component, demonstrating the hands-on building process.*

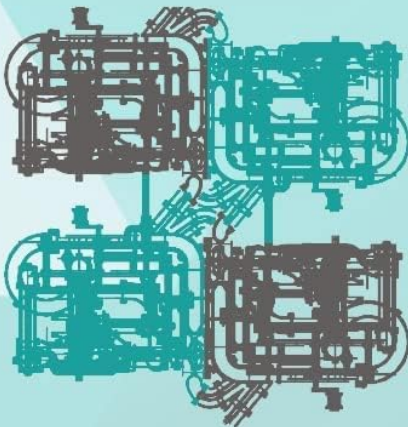


Image: Laser-cut wooden sheets with puzzle parts laid out next to an assembled Ugears Marble Run model, showing the components before and after construction.



Two models

Connect two or four tracks from any Ugears Marble Run series for a mini system of hoists and runs. Let the fun last longer!



Four models

*Image: Two Ugears Marble Run models linked together, illustrating the modular design and expansion capability.*

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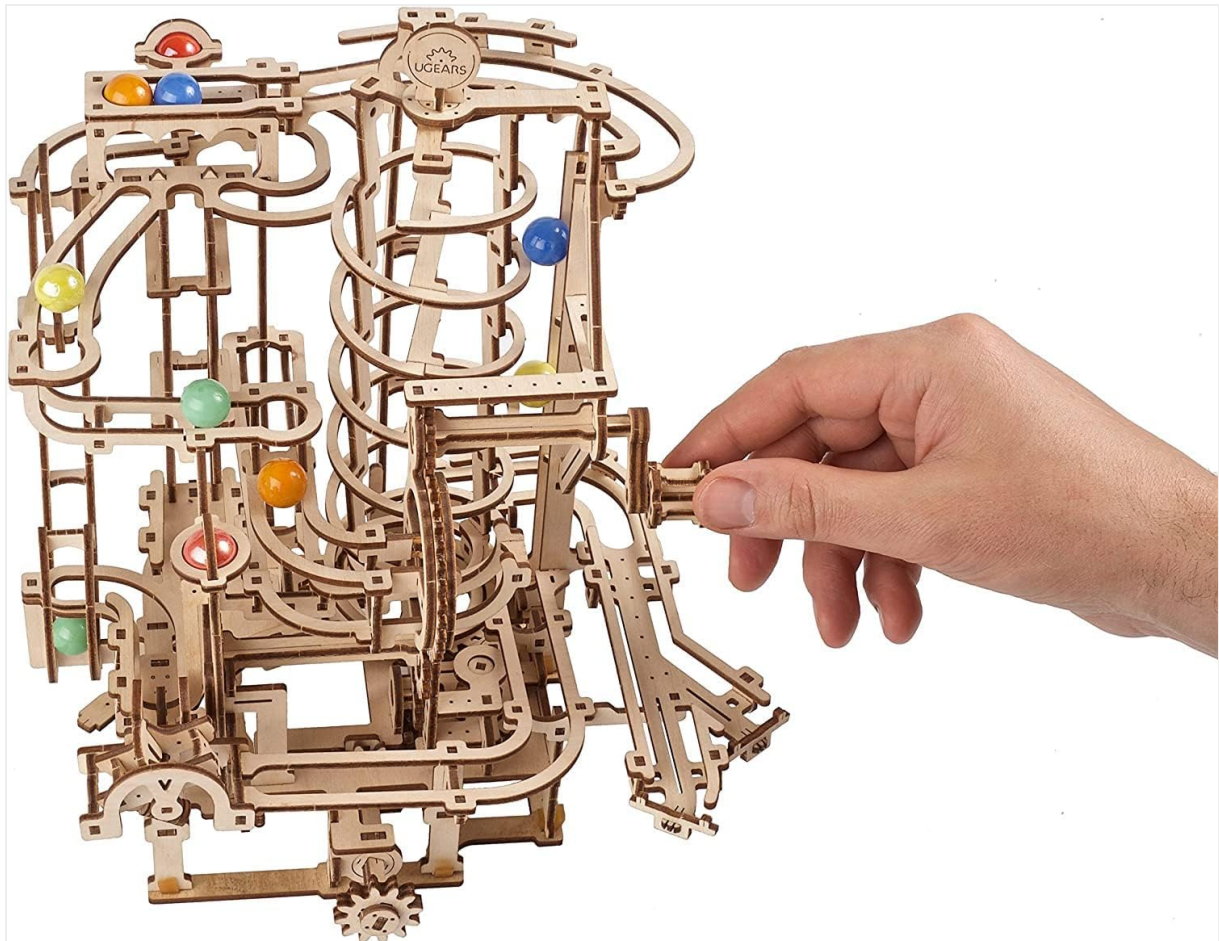
*Video: An overview of the Robotime 3D Puzzle Marble Run Series, showcasing various models and their interconnected operation. This video demonstrates the dynamic movement of marbles through complex wooden mechanisms.*

## 5. OPERATING INSTRUCTIONS

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Once your Ugears Marble Run Spiral Hoist is fully assembled:

1. **Place Marbles:** Carefully place the included marbles into the designated entry point at the base of the hoist.
2. **Activate Hoist:** Turn the hand crank (or activate the electric module if purchased separately) to lift the marbles up the spiral and vertical rails.
3. **Observe the Run:** Watch as the marbles navigate through various tracks, traps, and elements before returning to the base to be lifted again.



*Image: A hand turning the crank of the assembled Ugears Marble Run, initiating the marble lifting mechanism.*

## 6. MAINTENANCE

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To ensure the longevity and smooth operation of your Ugears Marble Run:

- **Cleaning:** Dust the model regularly with a soft, dry cloth. Avoid using water or cleaning solutions.
- **Lubrication:** Reapply wax to moving gears and connections periodically if you notice any friction or stiffness.
- **Storage:** Store the model in a dry environment away from direct sunlight and extreme temperature changes to prevent wood warping.

## 7. TROUBLESHOOTING

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If you encounter issues with your Marble Run, consider the following:

- **Marbles getting stuck:**
  - Check for any misaligned parts along the track.
  - Ensure all gears and moving parts are properly waxed and move freely.
  - Verify that no small debris is obstructing the marble path.
- **Crank is stiff:**
  - Reapply wax to all gears and contact points.
  - Check for any overtightened connections or misaligned components.
- **Parts not fitting:**
  - Ensure you are using the correct part for the step. Refer to the assembly guide.
  - Do not force parts; gently sand edges if necessary, but most parts should fit snugly without excessive force.

## 8. SPECIFICATIONS

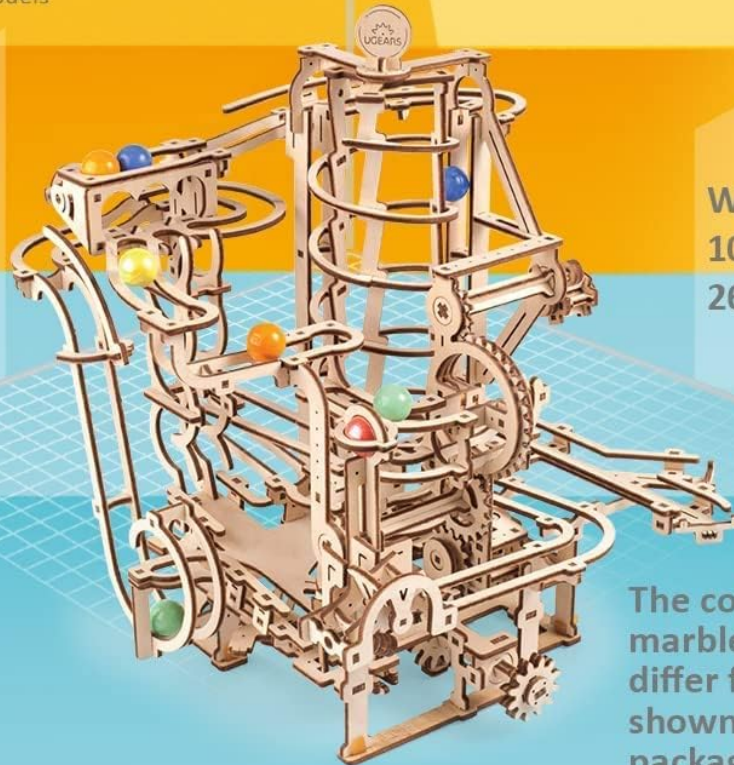
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Height  
11,2" / 285 mm

Length  
10,9" /  
276 mm

Width  
10,4" /  
263 mm



The color of the marbles may differ from those shown on the package

**10 marbles included**

Image: Diagram showing the dimensions of the assembled Ugears Marble Run Spiral Hoist: Length 10.9" / 276 mm, Width 10.4" / 263 mm, Height 11.2" / 285 mm.

Feature	Detail
Brand	UGEARS
Model Number	70177 (Manufacturer Model: ug70177)
Puzzle Type	Assembly and Disassembly
Number of Parts	266
Product Dimensions (L x W)	30.5 cm x 27.5 cm
Product Weight	200 grams
Material Type	Wood
Recommended Age (Manufacturer)	14+ years (168 months minimum)
Educational Objective	Creative Thinking, Problem Solving Skills, Concentration

Feature	Detail
Skill Level	Advanced
Special Features	Playable after completion, No glue or tools required
Operation Location	Tabletop
Assembly Required	Yes
Included Items	Assembly instructions, Marbles, Sandpaper, Wax, Special connector
Country of Origin	Latvia
GTIN	04820184121492

*Note: Product dimensions are approximate.*

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the contact details provided in your product packaging or visit the official UGEARS website. Keep your proof of purchase for any warranty claims.