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› LUKAT Magnetic Tiles Pipe Building Set User Manual

LUKAT MT02820

LUKAT Magnetic Tiles Pipe Building Set User Manual

Model: MT02820 | Brand: LUKAT

1. INTRODUCTION

Thank you for choosing the LUKAT Magnetic Tiles Pipe Building Set. This innovative toy combines the fun of magnetic construction with dynamic marble run elements, fostering creativity, problem-solving skills, and spatial reasoning in children. This manual provides essential information for safe assembly, operation, and maintenance of your building set.

The set includes 125 pieces, designed for children aged 3 years and up, offering endless possibilities for building various structures, from simple 2D shapes to complex 3D marble runs.

2. SAFETY INFORMATION

- **Recommended Age:** This product is suitable for children aged 3 years and up. Adult supervision is recommended for younger children.
- **Small Parts Warning:** The set contains small parts (marbles). Choking hazard for children under 3 years. Keep away from infants and toddlers.
- **Magnet Safety:** Magnets are enclosed within the plastic tiles. Ingested magnets can cause serious injury. If magnets are swallowed, seek immediate medical attention.
- **Material Safety:** All components are made from high-quality, non-toxic ABS material with rounded edges for safe play.
- **Usage Environment:** Use the product on a flat, stable surface to prevent structures from collapsing unexpectedly.

3. PACKAGE CONTENTS

The LUKAT Magnetic Tiles Pipe Building Set includes 125 pieces. Please verify all components are present upon opening the package.



PACKAGE DIMENSION

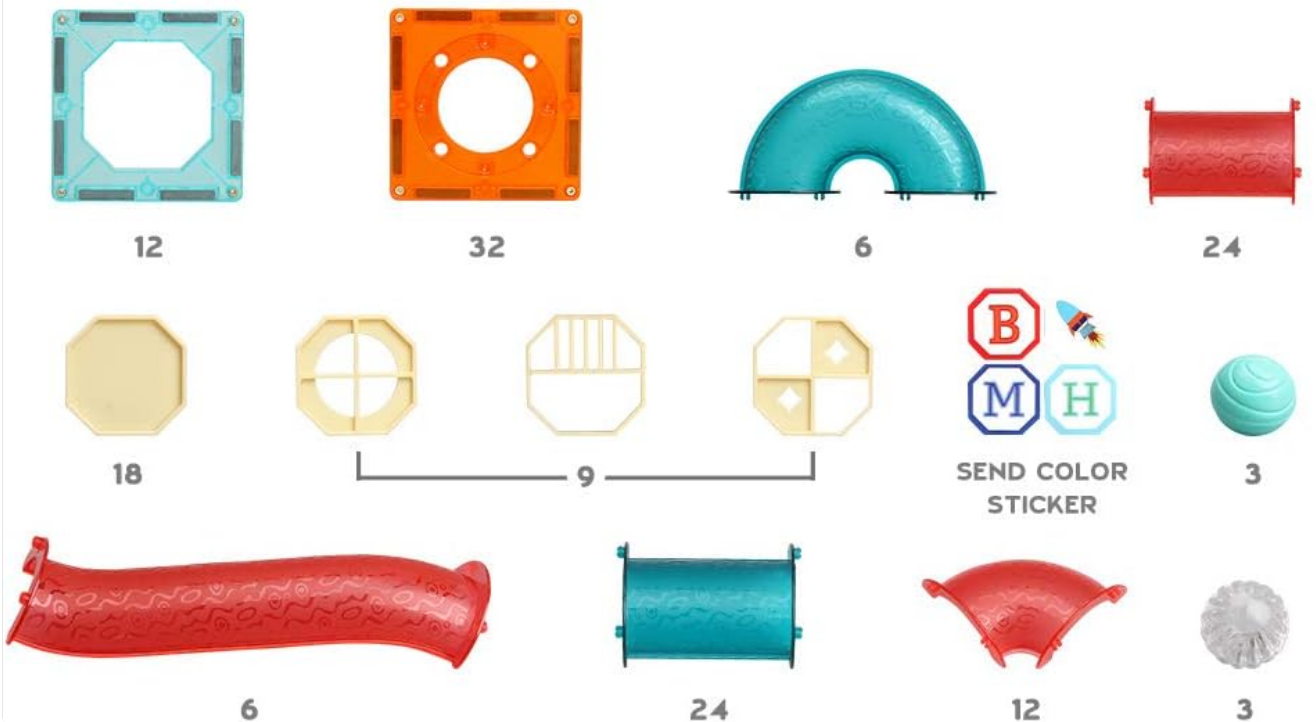


Image: Overview of the product packaging and included components.

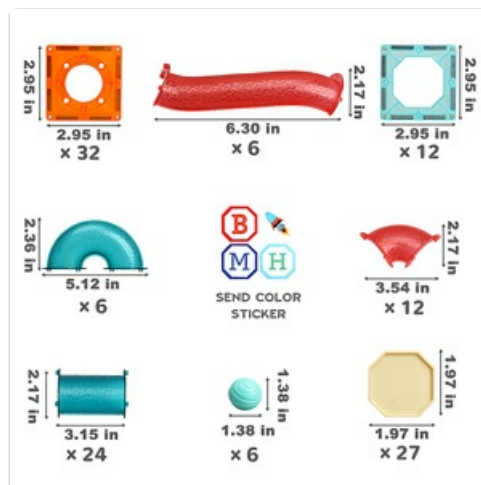


Image: Detailed illustration of various magnetic tile and pipe components with their respective quantities.

Component List

Component	Quantity
Square Magnetic Tiles (with circular hole)	12
Square Magnetic Tiles (solid)	32
U-shaped Pipe Sections	6
Long Straight Pipe Sections	6
Short Straight Pipe Sections	24
Curved Pipe Sections	12
Octagonal Magnetic Tiles	18
Various Inserts/Stickers	9 + Stickers
Marbles (light-up and regular)	3

4. SETUP AND ASSEMBLY

The LUKAT Magnetic Tiles are designed for easy assembly and disassembly, allowing for quick construction and reconfiguration of designs.

4.1 Connecting Magnetic Tiles

Each magnetic tile contains strong magnets embedded within its edges. Simply bring two tiles close together, and the magnets will align and connect them. The stronger magnetism ensures stable structures.

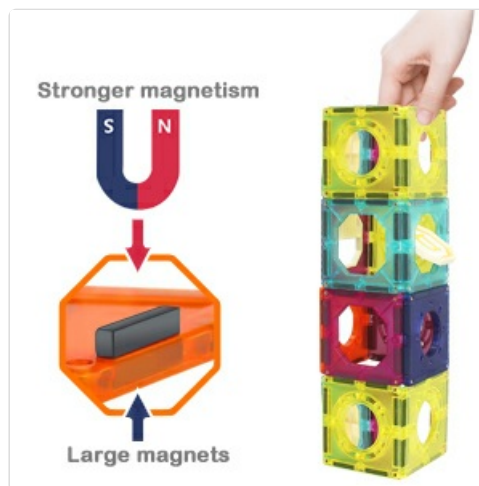


Image: Demonstrates the strong magnetic connection between individual tiles, highlighting the large magnets.

4.2 Assembling Pipe Sections

The pipe sections are designed to snap into the circular holes of the magnetic tiles. Ensure the pipe ends are fully inserted into the tile openings for a secure fit. Some pipe sections may also connect directly to each other to form longer or more complex pathways.

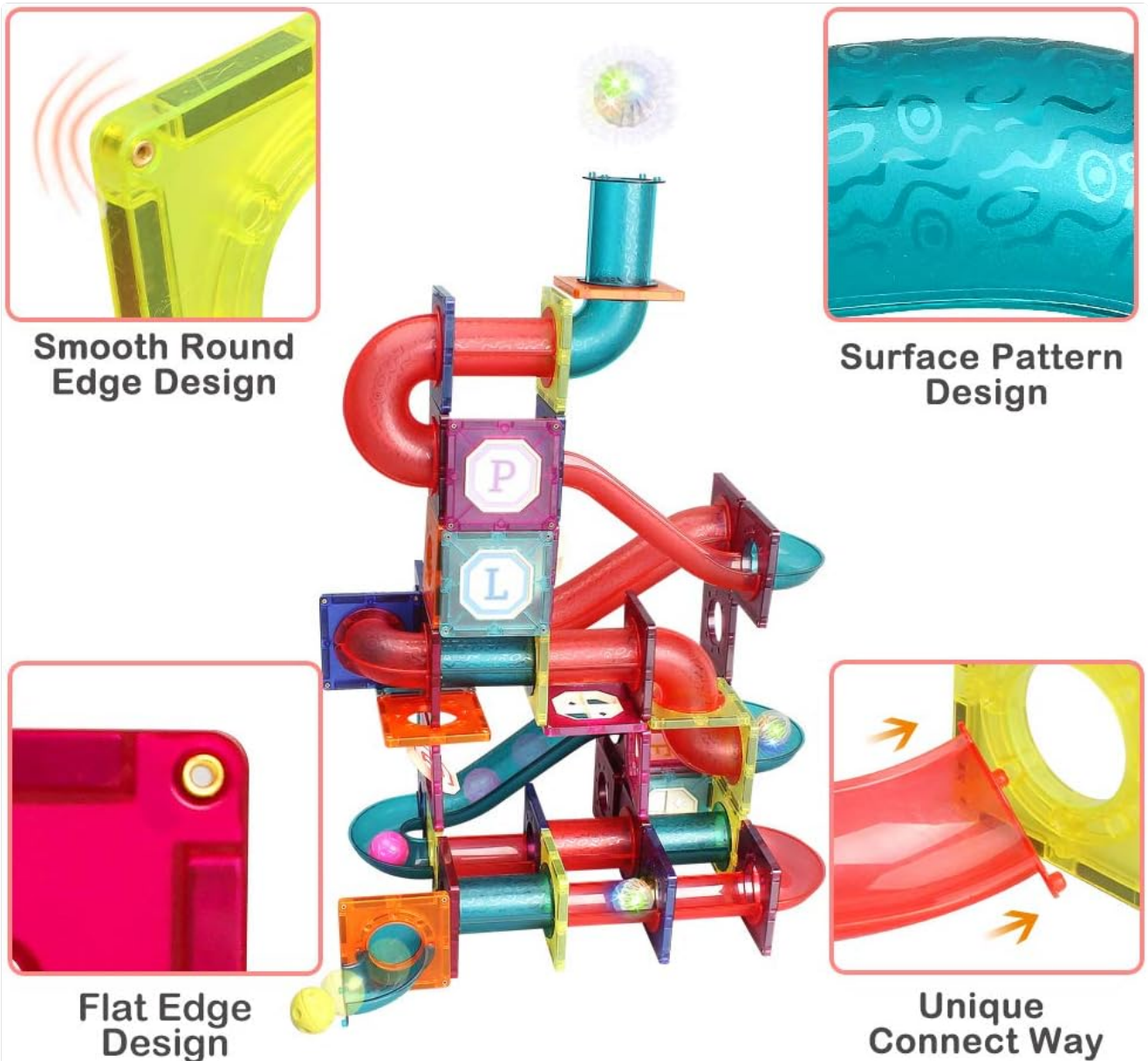


Image: Detailed view of the smooth, rounded edges of the tiles and the unique connection points for the pipe sections.

5. OPERATING INSTRUCTIONS

The LUKAT Magnetic Tiles Pipe Building Set encourages open-ended play and learning. Here are some guidelines for maximizing your building experience:

5.1 Basic Building Concepts

- **2D Shapes:** Start by creating flat shapes on a table, such as squares, triangles, and rectangles. This helps understand how the magnets connect.
- **3D Structures:** Once comfortable with 2D, begin building upwards to create cubes, pyramids, houses, and other three-dimensional forms.
- **Stability:** For taller or more complex structures, ensure a wide and stable base. Add support tiles or columns as needed to prevent wobbling.



Image: Children demonstrating different building techniques, from simple towers to more intricate designs.

5.2 Constructing Marble Runs

The unique pipe components allow for the creation of exciting marble runs. Plan your design before building to ensure a smooth flow for the marbles.

- **Gravity is Key:** Ensure a consistent downward slope for the marbles to travel through the pipes.
- **Connecting Pipes:** Use the various pipe shapes (straight, curved, U-shaped) to create turns, drops, and tunnels.
- **Entry and Exit Points:** Design clear entry points at the top of your run and exit points at the bottom.
- **Experimentation:** Try different configurations to see how they affect marble speed and path. This encourages experimentation and problem-solving.



Image: An example of a multi-level marble run constructed using the magnetic tiles and pipe components.

Develops All Valuable Skill



- ✓ 1. Imagination
- ✓ 2. Creativity
- ✓ 3. Fine motor skills



Image: Two children actively engaging with a magnetic tile marble run, highlighting the interactive nature of the toy.

5.3 Challenge Levels

The set supports various challenge levels, from simple structures for beginners to complex, multi-path marble runs for advanced builders.

Challenge Levels Ranked From Easy To Expert



Image: Visual representation of different building complexities, from simple towers to intricate marble run designs.

6. MAINTENANCE AND CARE

- **Cleaning:** Wipe the magnetic tiles and pipe pieces with a damp cloth. Do not submerge in water or use harsh chemicals, as this may damage the magnets or plastic.
- **Storage:** Store the set in a dry place, away from direct sunlight and extreme temperatures. The original packaging can be used for convenient storage.
- **Inspection:** Periodically inspect all pieces for any signs of damage, such as cracks or exposed magnets. Discontinue use of damaged pieces to ensure safety.

7. TROUBLESHOOTING

- **Structures Collapsing:** Ensure a stable base for your structure. For taller builds, add more supporting tiles or widen the base. The magnets are strong, but complex structures require proper foundational support.
- **Marbles Getting Stuck:** Check the slope of your pipe sections. Ensure there are no flat or uphill sections.

Adjust the angles to maintain a continuous downward path. Verify all pipe connections are fully inserted and smooth.

- **Tiles Not Connecting:** Ensure the magnetic edges are clean and free of debris. If a tile consistently fails to connect, inspect it for damage or exposed magnets.

8. SPECIFICATIONS

Product Specifications

Feature	Detail
Model Number	MT02820
Brand	LUKAT
Number of Pieces	125
Recommended Age	3 years and up
Material	Non-Toxic ABS Plastic, Magnets
Package Dimensions	16.02 x 12.76 x 3.35 inches
Item Weight	5.19 pounds

9. WARRANTY AND SUPPORT

LUKAT is committed to providing high-quality products. If you encounter any issues with your Magnetic Tiles Pipe Building Set or have questions regarding its use, please contact our customer support. While specific warranty details are not provided in this manual, we encourage you to reach out for assistance with any product-related concerns.

For support, please refer to the contact information provided on the product packaging or the official LUKAT website.