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## HSANHE YC177

# HSANHE STEM 8 in 1 Building Toys YC177 User Manual

Model: YC177 | Brand: HSANHE

### 1. INTRODUCTION

The HSANHE STEM 8 in 1 Building Toys YC177 set is designed to provide an engaging and educational building experience. This kit allows for the construction of 8 distinct mechanical engineering models from a single set of 336 pieces, fostering creativity and problem-solving skills.



Figure 1.1: Overview of the HSANHE STEM 8 in 1 Building Toys YC177 set, showcasing various models that can be constructed and a child interacting with one of the creations.

This building set is intended for children aged 6 years and up, promoting the development of hand-eye coordination, logical thinking, and an understanding of basic mechanical principles.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before allowing children to use this product. Failure to follow these instructions may result in injury or damage to the product.

- **Small Parts Warning:** This product contains small parts which may pose a choking hazard for children under 3 years of age. Adult supervision is recommended for all users, especially younger children.
- **Material Safety:** The building toys are made from non-toxic, durable ABS plastic. They are designed with a smooth polish to prevent scratches and ensure safe handling. The materials are Phthalate-safe, BPA-safe, Lead-safe, and Non-Toxic.

- **Intended Use:** This product is designed for educational building and play. Do not use for purposes other than its intended design.
- **Storage:** Store all components in a safe place away from extreme temperatures or direct sunlight to prevent material degradation.



Figure 2.1: Safety assurances for the HSANHE STEM building toys, highlighting the non-toxic and safe material composition.

### 3. COMPONENTS

The HSANHE STEM 8 in 1 Building Toys YC177 set includes the following:

- Total of 336 building pieces.
- Instruction manual for assembling various models.
- Assorted gears, axles, beams, and connectors required for mechanical construction.
- Base plates for stable model construction.

Please verify that all pieces are present before beginning assembly. Refer to the included instruction booklet for a detailed list of parts.

## 4. ASSEMBLY INSTRUCTIONS

Assembly of the HSANHE STEM 8 in 1 Building Toys YC177 requires careful attention to the provided instruction booklet. Each of the 8 models has specific step-by-step building guides.

1. **Unpack Components:** Carefully open the packaging and lay out all building pieces. It is recommended to sort pieces by color or type to facilitate assembly.
2. **Select Model:** Choose one of the 8 available models you wish to construct.
3. **Follow Instructions:** Refer to the dedicated section for your chosen model in the instruction booklet. Each step illustrates the pieces required and their placement.
4. **Secure Connections:** Ensure all pieces are firmly connected to create a stable structure. The pieces are designed for a secure fit.
5. **Verify Assembly:** Once completed, compare your assembled model with the images in the instruction booklet to ensure accuracy.

The assembly process enhances hand-eye coordination and problem-solving skills. Children can also use their imagination to create personalized designs beyond the provided models.

## 5. OPERATING THE MODELS

Once assembled, the HSANHE STEM models are designed for interactive play, demonstrating basic mechanical principles.

- **Interactive Features:** Many models include movable parts, such as cranes with rotating arms, vehicles with rolling wheels, or windmills with spinning blades.
- **Mechanism Exploration:** Encourage observation of how gears, levers, and other components interact to create movement.
- **Creative Play:** The models are robust enough for imaginative play scenarios, allowing children to apply their understanding of the structures.



Figure 5.1: Examples of the interactive features and movements possible with the assembled HSANHE STEM models.

Playing with these models helps children acquire a strong sense of color, geometrical shapes, 3D forms, and develops their ability for logical thinking and engineering design.



Figure 5.2: The educational benefits of the building set, promoting thinking, creativity, practical skills, and teamwork.

## 6. MAINTENANCE AND CARE

Proper care and maintenance will ensure the longevity of your HSANHE STEM building toys.

- **Cleaning:** To clean the building pieces, wipe them with a damp cloth. For stubborn dirt, a mild soap solution can be used, followed by thorough rinsing and air drying. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store all pieces in a clean, dry place away from direct sunlight and extreme temperatures. The original packaging or a dedicated storage container is recommended to prevent loss of pieces.
- **Handling:** While durable, avoid excessive force when connecting or disconnecting pieces to prevent damage.

## 7. TROUBLESHOOTING

This section addresses common issues that may arise during the use of the HSANHE STEM building toys.

Problem	Possible Cause	Solution
Model is unstable or falls apart easily.	Pieces not fully connected; incorrect assembly step.	Ensure all pieces are pressed firmly together until they click into place. Review the instruction manual for the specific model to verify each step.
Missing a piece.	Piece misplaced during unpacking or play; manufacturing error (rare).	Thoroughly check the play area and packaging. If a piece is genuinely missing from a new set, contact customer support.
Movable parts are stiff or do not move smoothly.	Incorrect assembly of gears or axles; debris caught in mechanism.	Disassemble the affected section and reassemble carefully, ensuring all parts are aligned correctly. Check for any small debris and remove it.

For issues not listed here, please refer to the customer support section.

## 8. SPECIFICATIONS

Feature	Detail
Model Name	YC177 (Manufacturer reference: 123-508-511)
Brand	HSANHE
Number of Pieces	336
Material	ABS Plastic (Non-Toxic, Phthalate-safe, BPA-safe, Lead-safe)
Color	Yc177 (Multi-color as depicted)
Product Dimensions (L x W x H)	25.4 x 25.4 x 25.4 cm (approximate packaging/assembled size)
Item Weight	0.57 Kilograms
Assembly Required	Yes
Batteries Required	No
Recommended Age	6 years and up (Manufacturer Minimum Age: 72 months)
Educational Objective	Team Building Skills, STEM (Science, Technology, Engineering, Mathematics)

## 9. WARRANTY INFORMATION

Specific warranty details for the HSANHE STEM 8 in 1 Building Toys YC177 are typically provided with the product

packaging or can be obtained from the retailer at the time of purchase. Generally, products are covered against manufacturing defects for a limited period from the date of purchase.

Please retain your proof of purchase for any warranty claims. Warranty coverage usually does not include damage resulting from misuse, accidents, unauthorized modifications, or normal wear and tear.

## 10. CUSTOMER SUPPORT

For any questions, concerns, or assistance regarding your HSANHE STEM 8 in 1 Building Toys YC177, please contact the retailer or manufacturer's customer service department.

When contacting support, please be prepared to provide the following information:

- Product Model: YC177
- Date of Purchase
- Place of Purchase
- A detailed description of the issue

Contact information can typically be found on the product packaging or the retailer's website.