

LEGO 42146

LEGO Technic Liebherr Crawler Crane LR 13000 (Model 42146) Instruction Manual

Brand: LEGO | Model: 42146

1. INTRODUCTION

Welcome to the world of advanced engineering with the LEGO Technic Liebherr Crawler Crane LR 13000 (Model 42146). This impressive building kit offers an immersive and rewarding challenge for adults, allowing you to construct one of the world's most powerful cranes. Standing over 38 inches (99 cm) high, this model is packed with realistic details and functions, providing a hands-on project that celebrates excellent design and mechanical precision.

The set contains 2,883 pieces and is designed for builders aged 18 and up. Once assembled, the crane can be operated using the intuitive CONTROL+ app, bringing its realistic movements to life.

2. SETUP AND ASSEMBLY

Assembling your LEGO Technic Liebherr Crawler Crane LR 13000 is a detailed process designed to be a mindful and engaging experience. Follow the included step-by-step building instructions carefully to ensure correct construction and functionality.

2.1 Unpacking the Components

The kit includes multiple numbered bags of LEGO elements. It is recommended to open bags sequentially as indicated in the instruction manual to manage the large number of pieces effectively.

2.2 Power Functions and Batteries

This model requires 2 Smart Hubs and 6 large motors (included) to power its articulated functions. Please note that 12x LR AA batteries are required and are **not included** in the set. Ensure fresh batteries are installed correctly into the Smart Hubs before attempting to operate the crane.

2.3 Assembly Tips

- Work on a clean, well-lit surface to prevent losing small pieces.
- Double-check each step against the instructions before proceeding.
- Take breaks as needed; this is a complex build that can take several hours to complete.



Image: The LEGO Technic Liebherr Crawler Crane LR 13000 during assembly, highlighting its impressive size and detail.

3. OPERATING INSTRUCTIONS

The LEGO Technic Liebherr Crawler Crane LR 13000 is controlled via the LEGO CONTROL+ app, available for download on compatible smart devices. This app provides an intuitive interface to manage all the crane's motorized functions.

3.1 Connecting to the CONTROL+ App

1. Download and install the LEGO CONTROL+ app from your device's app store.
2. Ensure your smart device's Bluetooth is enabled.
3. Turn on the Smart Hubs in your crane model.

4. Open the CONTROL+ app and follow the on-screen instructions to connect to your LR 13000 model.

3.2 Crane Functions via CONTROL+ App

The app allows you to control the following realistic functions:

- **Tank Steering:** Navigate the crawler tracks to move the crane across surfaces.
- **Rotating Turntable:** Rotate the crane's superstructure 360 degrees for precise positioning.
- **Luffing Jib:** Adjust the angle of the main boom for optimal reach and height.
- **Winch:** Raise and lower the hook to lift and move loads.
- **Load Sensing:** The app provides feedback on the load being lifted, enhancing realism.



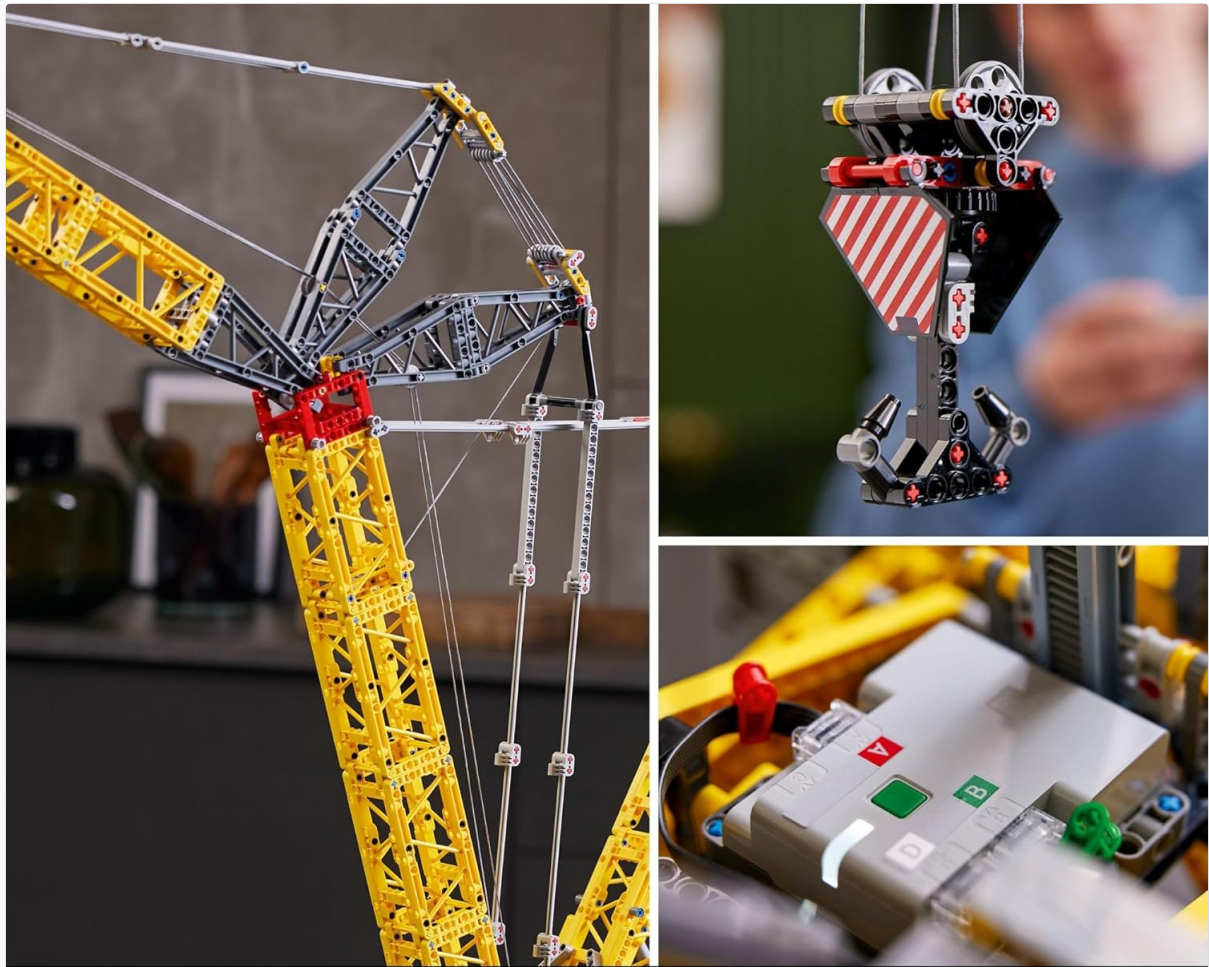
**REALISTIC MOVEMENT POWERED
BY THE CONTROL+ APP**

Image: Operating the crane's functions using the intuitive LEGO CONTROL+ app on a smartphone.



EXPLORE THE TANK STEERING AND ROTATING TURNTABLE

Image: Detailed view of the tank steering and rotating turntable, key features for crane maneuverability.



CHECK OUT THE LUFFING JIB, WINCH AND LOAD SENSING

Image: Highlighting the luffing jib, winch, and load-sensing capabilities of the crane.

3.3 Display and Play

Once built, the Liebherr Crawler Crane LR 13000 makes an impressive display piece, showcasing its intricate design and engineering. Its robust construction allows for interactive play, making it a dynamic addition to any collection.

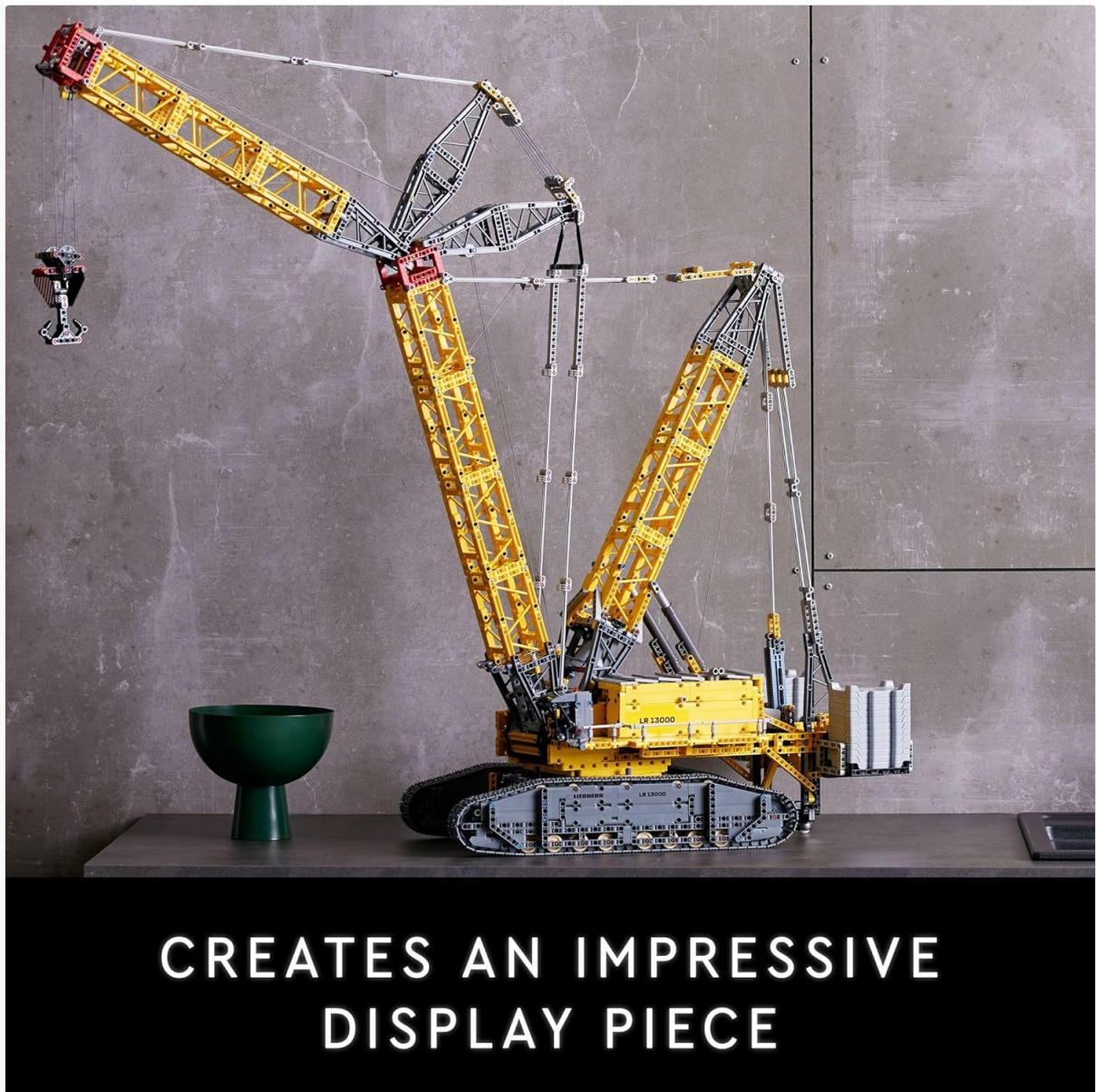


Image: The completed crane model, an impressive display piece for enthusiasts.

4. MAINTENANCE

To ensure the longevity and optimal performance of your LEGO Technic Liebherr Crawler Crane LR 13000, follow these simple maintenance guidelines:

- **Cleaning:** Dust the model regularly with a soft brush or compressed air. For deeper cleaning, disassemble parts and wash them gently with mild soap and water. Ensure all parts are completely dry before reassembly.
- **Storage:** Store the model in a cool, dry place away from direct sunlight to prevent discoloration or warping of plastic elements.
- **Battery Care:** Remove batteries from the Smart Hubs if the model will not be used for an extended period to prevent leakage and damage.

5. TROUBLESHOOTING

If you encounter any issues with your LEGO Technic Liebherr Crawler Crane LR 13000, please refer to the following common troubleshooting steps:

- **Missing Pieces:** In the rare event of missing pieces, please contact LEGO Customer Service directly through their official website.
- **Motor/App Connectivity Issues:**
 - a. Ensure batteries in the Smart Hubs are fresh and correctly inserted.
 - b. Verify Bluetooth is enabled on your smart device.
 - c. Restart the CONTROL+ app and attempt to reconnect.
 - d. Ensure your smart device meets the minimum system requirements for the CONTROL+ app.
- **Functionality Problems:** If a specific crane function is not working, carefully review the assembly instructions for that section to ensure all gears, axles, and connections are correctly aligned and secured.

6. SPECIFICATIONS

Feature	Detail
Product Dimensions	14.88 x 20.59 x 10.12 inches
Item Weight	2.1 pounds
ASIN	B0BSRFQLD6
Item Model Number	6379505
Manufacturer Recommended Age	18 years and up
Release Date	August 1, 2023
Manufacturer	LEGO
Number of Pieces	2,883
Power Functions	2 Smart Hubs, 6 Large Motors (12x LR AA batteries not included)
Control Method	LEGO CONTROL+ App

7. OFFICIAL PRODUCT VIDEOS

7.1 LEGO Technic Liebherr Crawler Crane LR 13000 42146 360 Spin

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Video: A 360-degree view of the LEGO Technic Liebherr Crawler Crane LR 13000, showcasing its complete design from all angles.

7.2 LEGO Technic Liebherr Crawler Crane LR 13000 42146

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Video: An overview of the LEGO Technic Liebherr Crawler Crane LR 13000, demonstrating its key features and operational capabilities.

8. WARRANTY AND SUPPORT

LEGO products are manufactured to high-quality standards. For information regarding warranty, missing parts, or technical support, please visit the official LEGO Customer Service website or contact their support team directly. Keep your purchase receipt as proof of purchase may be required for warranty claims.

Official LEGO Website: www.lego.com