

## MODSTER HeliX 150 Flybarless 1S RTF

# MODSTER Helix 150 Flybarless RC Helicopter User Manual

MODEL: HELIX 150 FLYBARLESS 1S RTF

## Introduction

Welcome to the user manual for your new MODSTER Helix 150 Flybarless RC Helicopter. The Helix 150 is designed for beginners, offering extremely stable flight behavior thanks to its sophisticated 6-axis stabilization sensor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your helicopter to ensure a safe and enjoyable experience.

## Safety Information

Please read and understand all safety warnings before operating the MODSTER Helix 150. Failure to do so may result in injury or damage to the product.

- **For external use only.** Do not operate indoors in confined spaces where damage to property or injury to persons may occur.
- **Avoid contact with eyes.** Keep the helicopter and its components away from your face, especially during operation.
- **Keep away from open flames and direct heat sources.** This applies to the helicopter, battery, and charger.
- **Adult supervision is recommended** for users under the age of 14.
- **Do not modify** the helicopter or its components.
- **Ensure the battery is fully charged** before each flight and disconnect it after use.
- **Operate in open areas** free from obstacles, people, and animals.

## Package Contents

Carefully unpack all items and check against the list below. If any items are missing or damaged, please contact customer support.

- MODSTER Helix 150 Helicopter
- Remote Control (Transmitter)
- 300 mAh LiPo Battery
- USB Charging Cable
- Spare Main Rotor Blades (Set)

- Spare Tail Rotor Blades (Set)
- Spare Swashplate Linkage Rod
- Phillips Head Screwdriver
- Allen Wrench
- User Manual (German/English)

## Product Overview

The MODSTER Helix 150 is a compact and stable RC helicopter, perfect for learning to fly. Its design incorporates features for ease of use and durability.



**Figure 1:** The MODSTER Helix 150 Flybarless RC Helicopter. This image shows the complete helicopter with its main rotor blades, tail rotor, landing skids, and sleek body design.

# FLYBARLESS HELI FÜR JEDEN

MODSTER HELIX 150  
FLYBARLESS RTF

Das stabile  
Flugverhalten  
erleichtert den Start  
und garantiert  
schnellen Lernerfolg.  
Weitere Highlights:  
Auto Starten/Landen &  
Stabilisierungen!



**Figure 2:** The MODSTER Helix 150 helicopter alongside its remote control. This image highlights the "Flybarless Heli for Everyone" concept, emphasizing ease of use for beginners with features like auto start/landing and stabilization.

# FLYBARLESS HELI FÜR JEDEN

MODSTER HELIX 150  
FLYBARLESS RTF



6-Achsen-  
Stabilisierung



RTF: aus-  
packen & los



Gyro  
Stabilisierung



268 mm



**Figure 3:** Visual representation of key features including 6-axis stabilization, RTF (Ready-To-Fly) out of the box, Gyro stabilization, and a length of 268 mm.



# FLYBARLESS HELI FÜR JEDEN

MODSTER

MODSTER HELIX 150  
FLYBARLESS RTF



horizontale  
Stabilisierung im  
Schwebeflug



**Figure 4:** The helicopter demonstrating horizontal stabilization during hover flight, a key feature for beginner pilots.

## Setup

### 1. Charging the Flight Battery

1. Connect the included USB charging cable to a USB power source (e.g., computer USB port, USB wall adapter).
2. Connect the 300 mAh LiPo battery to the USB charging cable.
3. The charging indicator light on the USB cable will show the charging status (e.g., red for charging, green for fully charged).
4. Charging typically takes approximately 30-60 minutes. Do not overcharge the battery.

### 2. Installing Batteries in the Remote Control

1. Open the battery compartment on the back of the remote control.
2. Insert the required batteries (typically 4x AAA, not included) ensuring correct polarity (+/-).
3. Close the battery compartment securely.

### 3. Binding the Helicopter and Remote Control

1. Ensure the helicopter's battery is disconnected and the remote control is turned off.
2. Turn on the remote control.
3. Connect the flight battery to the helicopter. Place the helicopter on a flat, stable surface.
4. The helicopter's indicator light will flash, and the remote control will beep.
5. Move the throttle stick (left stick for Mode 2) all the way up, then all the way down.
6. The indicator lights on both the helicopter and remote control should become solid, indicating a successful binding.

## Operating Instructions

### 1. Pre-Flight Checks

- Ensure the flight battery is fully charged.
- Check that the remote control batteries are sufficient.
- Inspect rotor blades for any damage or cracks.
- Ensure all linkages are securely connected.
- Choose an open, clear area for flight, away from people, animals, and obstacles.

### 2. Take-off (Auto Start)

After binding, place the helicopter on a flat surface. Press the "Auto Take-off" button (often marked with an arrow pointing up or a take-off icon) on the remote control. The helicopter will automatically ascend to a stable hover height.

### 3. Basic Flight Controls (Mode 2)

The remote control supports both Mode 1 and Mode 2. This manual describes Mode 2, which is common for RC helicopters. Refer to your remote control's specific instructions for switching modes if needed.

- **Left Stick (Throttle/Yaw):**
  - *Up/Down:* Controls altitude (throttle).
  - *Left/Right:* Controls yaw (rotation around its vertical axis).
- **Right Stick (Pitch/Roll):**
  - *Up/Down:* Controls pitch (forward/backward movement).
  - *Left/Right:* Controls roll (sideways movement).

### 4. Landing (Auto Landing)

To land the helicopter, press the "Auto Landing" button (often marked with an arrow pointing down or a landing icon) on the remote control. The helicopter will automatically descend and land gently.

Alternatively, you can manually land by slowly lowering the throttle stick until the helicopter gently touches down. Once landed, immediately pull the throttle stick all the way down and hold for a few seconds to stop the rotors.

## Maintenance

- **Cleaning:** Use a soft, dry cloth to wipe down the helicopter after each flight. Avoid using water or solvents.

- **Rotor Blade Inspection:** Regularly check main and tail rotor blades for any signs of damage (cracks, bends, chips). Replace damaged blades immediately using the included spare parts and screwdriver.
- **Battery Care:**
  - Always disconnect the battery from the helicopter after use.
  - Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
  - Do not store fully charged or fully discharged for extended periods. For long-term storage, charge to approximately 50%.
- **Linkage Check:** Periodically check all control linkages for looseness or damage. Use the provided tools for adjustments or replacements.

Troubleshooting

Problem	Possible Cause	Solution
Helicopter does not respond to remote control.	Not bound, low remote control battery, helicopter battery low.	Re-bind the helicopter and remote. Replace remote control batteries. Charge helicopter battery.
Helicopter drifts during hover.	Trim settings incorrect, minor damage to blades, strong wind.	Adjust trim buttons on remote. Inspect and replace damaged blades. Fly in calm conditions.
Rotors spin but helicopter does not lift off.	Low helicopter battery, damaged main rotor blades, motor issue.	Charge helicopter battery. Replace main rotor blades. Contact support if motor issue suspected.
Short flight time.	Battery not fully charged, aging battery, aggressive flying.	Ensure full charge. Battery life decreases over time; consider replacement. Practice smoother flying.

Specifications

Feature	Detail
Model Name	Helix 150
Model Number	HeliX 150 Flybarless 1S RTF
Rotor Diameter	245 mm
Length	268 mm
Weight	52 g
Flight Stabilization	6-Axis Gyro Stabilization
Flight Time	Up to 15 minutes
Battery	300 mAh LiPo

Feature	Detail
Control Type	Radio Control (Mode 1 & Mode 2 switchable)
Special Features	Auto Start/Landing, Horizontal Hover Stabilization
Recommended Age	14 years and up
Main Material	Plastic
Color	Bordeaux




### Warranty and Support

For warranty information, please refer to the documentation provided at the time of purchase or visit the official MODSTER website.

If you encounter any issues not covered in this manual or require further assistance, please contact MODSTER customer support. You can typically find contact details on the product packaging or the official MODSTER website. When contacting support, please have your product model number (HeliX 150 Flybarless 1S RTF) and purchase information ready.

© 2024 MODSTER. All rights reserved.  
This manual is subject to change without notice.

### Related Documents

 <p>MODSTER</p>	<p><a href="#">MODSTER ROOKIE User Manual: RC Car Operation and Safety Guide</a></p> <p>Comprehensive user manual for the MODSTER ROOKIE RC car. Covers setup, operation, safety guidelines, troubleshooting, and technical specifications for this 1:18 scale radio-controlled vehicle.</p>
<p><b>EC-135</b></p>  <p>BETRIEBSANLEITUNG/ USER MANUAL</p> <p>MODSTER</p>	<p><a href="#">MODSTER EC-135 Helicopter User Manual</a></p> <p>Comprehensive user manual for the MODSTER EC-135 remote-controlled helicopter, covering safety instructions, battery handling, flight operation, troubleshooting, and parts replacement.</p>
 <p>MODSTER</p>	<p><a href="#">MODSTER Super Cub S2 RC Airplane User Manual &amp; Setup Guide</a></p> <p>Comprehensive user manual and setup guide for the MODSTER Super Cub S2 RC airplane. Learn about safety, charging, setup, flight controls, and maintenance.</p>





### [MODSTER Digger 1:14 RC Metal Excavator User Manual](#)

Comprehensive user manual for the MODSTER Digger 1:14 RC Metal Excavator, covering setup, operation, safety guidelines, and maintenance.