

HUTT R10 (C7)

HUTT R10 Robot Window Cleaner User Manual

Model: R10 (C7)

1. IMPORTANT SAFETY INSTRUCTIONS

Before operating the HUTT R10 Robot Window Cleaner, please read and understand all safety instructions. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always attach the safety rope securely to a fixed object before placing the robot on any surface. The safety rope is rated for 220 kg.
- Ensure the power adapter is correctly connected and the cable is not tangled or obstructed during operation.
- The robot is equipped with a 30-minute emergency backup battery. In case of power loss, the robot will remain attached for this duration, allowing time for retrieval.
- Do not use the robot on broken glass or surfaces with significant cracks.
- Keep hands, hair, and loose clothing away from moving parts of the robot.
- Do not allow children or pets near the robot during operation.
- Use only the cleaning solution recommended by HUTT or plain water. Do not use corrosive or flammable liquids.
- Do not operate the robot in rainy or extremely humid conditions.
- Always remove the robot from the surface and disconnect power after use.

Multi-Layer Safety Protection

Safe and Reliable Cleaning for Hard-to-Reach Windows



- * **30-Min Emergency Backup Battery**
- * **6 m Safety Rope (220 kg Rated)**
- * **9 Precision Sensors for Real-Time Protection**

Image: The HUTT R10 features multi-layer safety protection, including a 30-minute emergency backup battery and a 6-meter safety rope rated for 220 kg, ensuring secure operation on elevated windows.

2. PRODUCT OVERVIEW

The HUTT R10 is an intelligent robot window cleaner designed for efficient and automated cleaning of various smooth surfaces. It features a hybrid wet/dry cleaning system, powerful suction, and smart navigation for comprehensive coverage.

Key Features:

- **Hybrid Wet/Dry Cleaning System:** Utilizes both rotating wet scrub pads and dry wipe pads for thorough cleaning and streak-free results in a single pass.
- **7000 Pa Max Suction:** Provides strong adhesion to surfaces, ensuring stability and effective cleaning.
- **HydroJet Dual Spray:** An 80ml visible water tank with a 120° wide-angle dual spray system ensures even moisture distribution for wet cleaning.
- **NAVI 7.0 Navigation:** Intelligent path planning for systematic and complete coverage, including automatic return.
- **3D Floating Chassis:** Adapts to uneven surfaces and maintains stable adherence.

- **Multi-Layer Safety:** Includes a 30-minute emergency backup battery, 6m safety rope (220 kg rated), and 9 precision sensors for real-time protection.

Package Contents:

- HUTT R10 Robot Window Cleaner
- Remote Control
- Cleaning Pads (6 pcs: 3 Square + 3 Round)
- Power Adapter
- Water Bottle
- Safety Rope
- Storage Case
- User Manual (this document)

Everything in One Case

Key Specifications

Rated Power	90W
Rated Voltage	24V
Robot Size	287 × 140 × 75 mm
Cleaning Pads	6 pcs (3 Square + 3 Round)



Image: The complete HUTT R10 package, including the robot, remote control, cleaning pads, power adapter, water bottle, safety rope, and a convenient storage case.

HUTT Hybrid Cleaning Chassis

3D Floating Disc for Deep Scrub
Tread Drive for Dry Wipe

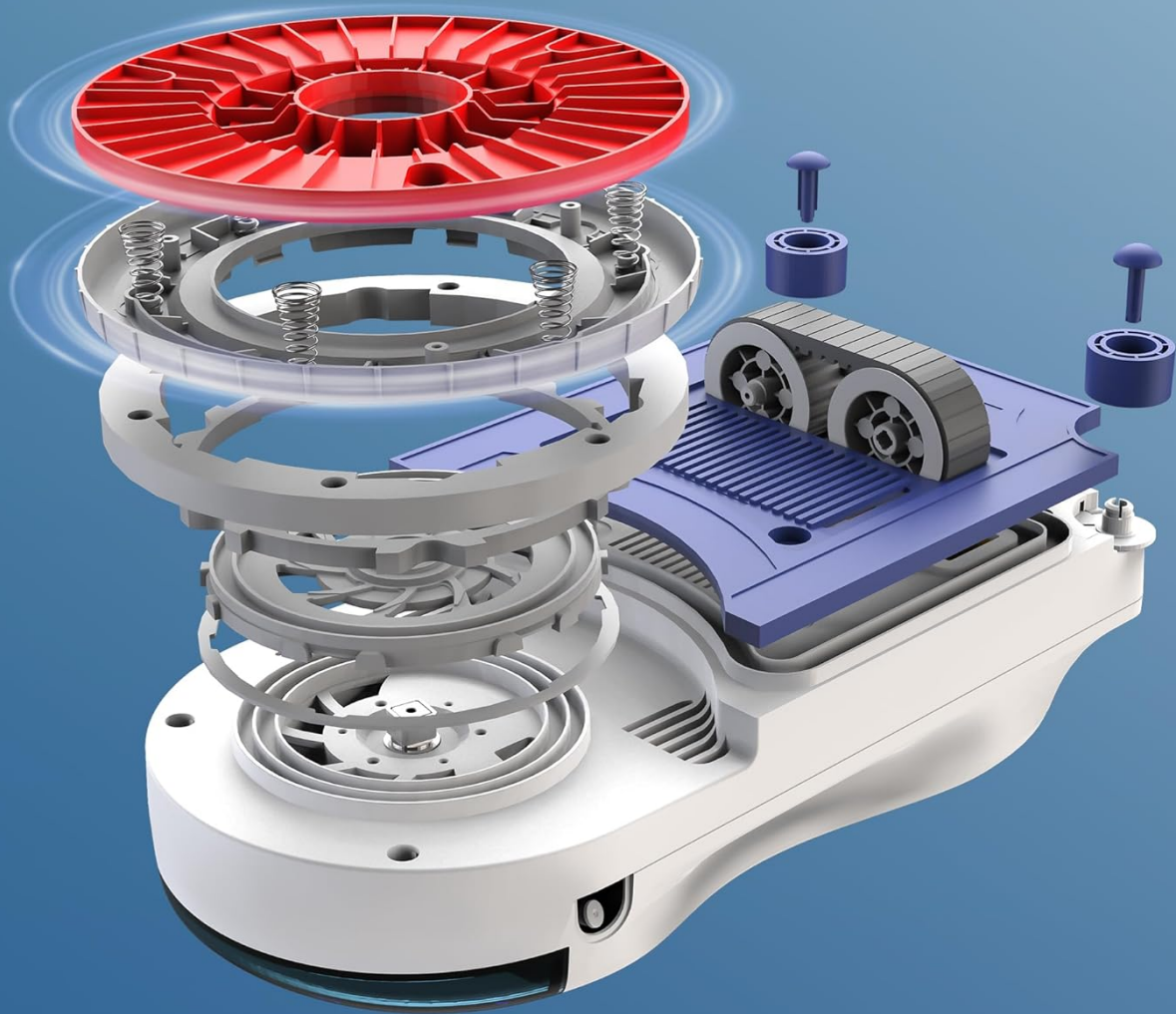


Image: An exploded diagram illustrating the HUTT Hybrid Cleaning Chassis, featuring a 3D floating disc for deep scrubbing and a tread drive for effective dry wiping.

HydroJet 120° Wide-Angle Dual Spray

An 80 ml visible tank and pump-driven dual spray support more even wet scrubbing.



- * 99% Wet Cleaning Coverage
- * 3000mg/min High Spray Volume
- * Cleans up to 60m² per Refill
- * Dissolves up to 15 Stubborn Stains

Image: The HydroJet 120° Wide-Angle Dual Spray system, with an 80ml visible tank, ensures even wet scrubbing by delivering a fine mist.

3. SETUP

Follow these steps for the initial setup of your HUTT R10 Robot Window Cleaner.

1. **Attach Cleaning Pads:** Secure the dry square pad to the front cleaning area and the round wet pad to the rotating disc at the rear of the robot. Ensure they are firmly attached.
2. **Fill Water Tank:** Open the water tank cap and fill the 80ml reservoir with clean water or a recommended window cleaning solution using the provided bottle. Close the cap securely.
3. **Connect Safety Rope:** Attach one end of the safety rope to the designated carabiner point on the robot and the other end to a sturdy, fixed object (e.g., a window frame, railing) that can support the robot's weight.
4. **Connect Power:** Plug the power adapter into an electrical outlet and then connect the power cable to the robot's power input port. Ensure a secure connection.
5. **Place Robot:** Place the robot firmly on the desired cleaning surface, ensuring it has full contact.
6. **Start Cleaning:** Press the power button on the robot or the Start/Pause button on the remote control to begin the

cleaning cycle.



1. Attach Dry Square Pad



2. Attach Round Pad



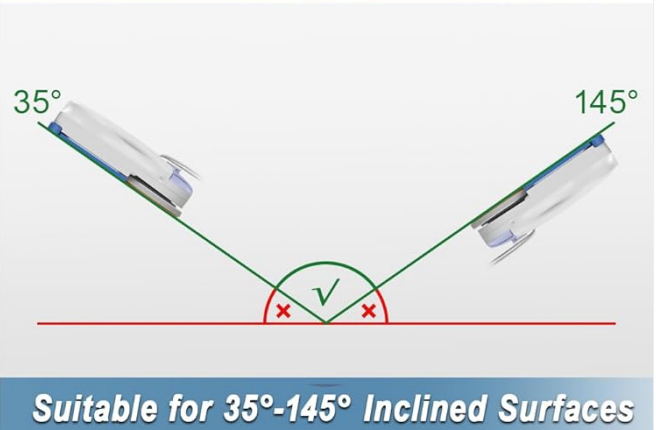
3. Fill with Water or Cleaner



4. Connect Safety Rope & Power



5. Press to Start



Suitable for 35°-145° Inclined Surfaces

Image: Visual guide for the setup process, showing how to attach cleaning pads, fill the water tank, connect the safety rope and power, and initiate cleaning.

4. OPERATING INSTRUCTIONS

The HUTT R10 offers various cleaning modes and controls for optimal performance.

Remote Control Functions:

Intelligent Path Planning

4 Cleaning Modes for Different Needs

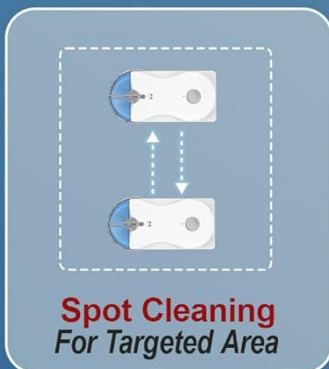
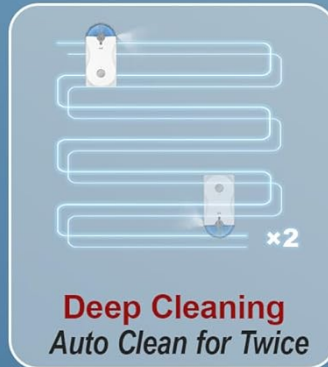
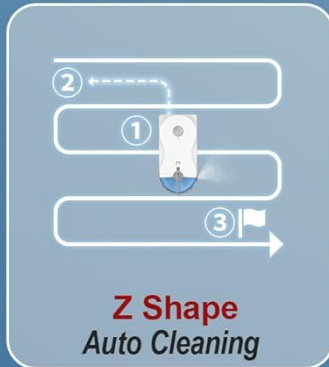


Image: The remote control for the HUTT R10, detailing buttons for manual movement, start/pause, water spray control, deep cleaning, spot cleaning, and mode selection.

- **Manual Control (Arrows):** Move the robot up, down, left, or right.
- **Start/Pause:** Begin or temporarily stop the cleaning cycle.
- **Water Spray On/Off:** Activate or deactivate the HydroJet dual spray.
- **Deep Cleaning:** Initiates a more intensive cleaning cycle.
- **Spot Cleaning:** Targets a specific area for concentrated cleaning.
- **Mode Switch (Standard/Deep):** Toggles between standard and deep cleaning modes.

Cleaning Modes:

- **Z Shape Auto Cleaning:** Standard automatic cleaning pattern.
- **Deep Cleaning:** Performs two passes for enhanced cleaning.
- **Spot Cleaning:** Focuses on a targeted dirty area.
- **Dry Cleaning:** For damp or pre-sprayed glass, primarily for polishing and streak removal.

Surface Compatibility:

The HUTT R10 is designed for vertical and inclined glass surfaces (35°-145°). It is suitable for windows, mirrors, wall tiles, shower walls, and other smooth glass surfaces. It is not suitable for horizontal surfaces.



Image: The HUTT R10 cleaning an inclined glass roof, highlighting its design for vertical and inclined glass surfaces (35°-145°).

Adaptive Cleaning for Every Surface



Image: The robot demonstrating adaptive cleaning on various surfaces such as windows, wall tiles, and shower glass.

The robot can clean windows as narrow as 30 cm.

Cleans Windows as Narrow as 30 cm



Image: The HUTT R10 cleaning a window pane, illustrating its ability to clean surfaces as narrow as 30 cm.

Adaptive Suction and Pressing Force:

The R10 features adaptive suction up to 7000 Pa and a 55 N pressing force, ensuring stable adherence and effective cleaning across different angles and surface conditions.

Adaptive Suction for Different Conditions



The graph shows suction levels for different conditions: Max Suction (7000 Pa), Bird Droppings (4100 Pa), Rain Stains (2000 Pa), Wall Ash (4800 Pa), Sand Dirt (2700 Pa), Oil Stains (5500 Pa), and Mud Spots (3400 Pa). The 3D exploded view shows the robot's internal components, including the NIDEC motor, gears, and the red suction disc.

Up to 7000 Pa
Peak Suction with Adaptive Control

55 N Pressing Force
NIDEC Motor (26,000 RPM) with up to 60% More Power

Synchronized Hybrid Drive
Keeps tread movement and disc scrubbing balanced in motion

Image: An illustration of the HUTT R10's adaptive suction, demonstrating its ability to maintain stable adherence and apply 55 N pressing force for effective cleaning of various stains.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your HUTT R10.

- **Cleaning Pads:** After each use, remove the cleaning pads. They can be hand-washed or machine-washed with mild detergent. Ensure they are completely dry before reattaching. Replace pads when they show signs of wear or reduced cleaning effectiveness.
- **Water Tank and Nozzles:** Periodically clean the water tank to prevent residue buildup. If the spray nozzles become clogged, gently clean them with a soft brush or cloth.
- **Robot Body:** Wipe the exterior of the robot with a soft, dry cloth. Do not use abrasive cleaners or immerse the robot in water.

- **Sensors:** Keep the sensors clean and free from dust or debris to ensure accurate navigation and edge detection.
- **Storage:** When not in use, store the robot and its accessories in the provided storage case in a cool, dry place.

Fewer Streaks, One Pass Clean

Rotating Wet Scrub and Dry Wipe in Sync

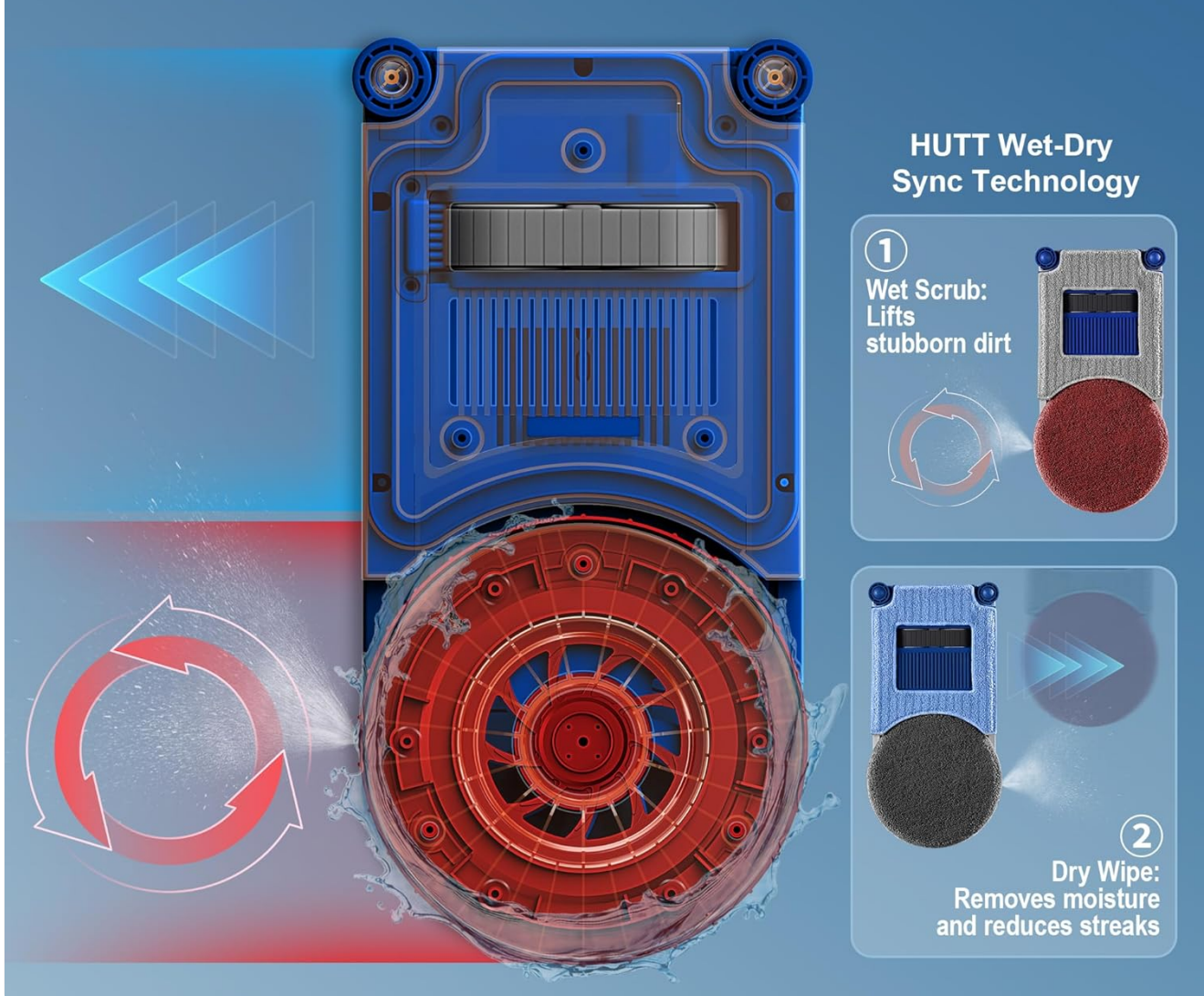


Image: The HUTT Wet-Dry Sync Technology, illustrating the function of the wet scrub pad for lifting stubborn dirt and the dry wipe pad for removing moisture and reducing streaks.

6. TROUBLESHOOTING

If you encounter issues with your HUTT R10, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Robot does not adhere to the surface.	Insufficient suction; surface too dirty or wet; power issue.	Ensure the surface is relatively clean and dry before starting. Check power connection. If the surface is extremely dirty, pre-clean manually.

Problem	Possible Cause	Solution
Leaves streaks or marks.	Dirty or worn cleaning pads; insufficient water/solution; very dirty surface.	Clean or replace cleaning pads. Ensure water tank is filled. For very dirty windows, perform a pre-clean or use Deep Cleaning mode.
Robot stops or gets stuck.	Obstruction; sensor dirty; power interruption.	Clear any obstructions. Clean sensors. Check power connection. If on battery backup, retrieve the robot.
Water spray not working.	Empty water tank; clogged nozzles; spray function off.	Refill water tank. Clean spray nozzles. Ensure water spray is activated via remote control.
Remote control not responding.	Dead batteries; out of range.	Replace AAA batteries in the remote control. Ensure you are within operating range.

7. SPECIFICATIONS

Detailed technical specifications for the HUTT R10 Robot Window Cleaner.

Feature	Specification
Model Name	R10
Model Number	C7
Brand	HUTT
Dimensions (L x W x H)	33.4 x 28.4 x 12.4 cm
Weight	1.18 kg (2.6 lbs)
Rated Power	90W
Rated Voltage	24V
Max Suction Power	7000 Pa
Pressing Force	55 N
Water Tank Capacity	80 ml
Battery Type	Lithium-ion
Emergency Backup Battery	30 minutes
Safety Rope Length/Rating	6 meters / 220 kg
Noise Level	Around 65 dB
Control Type	Remote Control
Compatible Surfaces	Windows, Mirrors, Wall Tiles, Shower Walls, Smooth Glass Surfaces
Minimum Window Width	30 cm

65 dB Ultra-Quiet Operation



Image: The HUTT R10 operating quietly at approximately 65 dB, allowing for undisturbed activities nearby.

8. WARRANTY AND SUPPORT

The HUTT R10 Robot Window Cleaner is designed for durability and performance.

- **Spare Parts Availability:** Spare parts for the HUTT R10 are available for up to 20 years from the date of manufacture.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact HUTT customer support through the official website or your retailer.
- **Warranty Information:** Refer to the warranty card included in your package for specific terms and conditions regarding your product's warranty.