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## Clementoni 19132

# Clementoni Robomaker New Educational Robotics Kit Instruction Manual

Model: 19132

This manual provides detailed instructions for the assembly, setup, operation, and maintenance of your Clementoni Robomaker New kit.

## 1. INTRODUCTION

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The Clementoni Robomaker New kit is an innovative laboratory designed to introduce children aged 8 and above to the principles of robotics and coding through block programming. This kit allows you to construct and program three distinct robots: the X1-Drawer, X2-Elevator, and X3-Analyzer. It includes over 200 components, 2 electric motors, 1 speaker, and an infrared sensor to facilitate engaging activities that develop computational thinking skills.

The Robomaker system encourages creativity, allowing users to build and program additional robot models beyond the suggested designs. The kit is equipped with Bluetooth connectivity for interaction with a dedicated application.



Figure 1.1: The Clementoni RoboMaker New kit packaging, illustrating the main robot and two alternative builds (X1-Drawer, X2-Elevator, X3-Analyzer).

## 2. SAFETY INFORMATION

- **Adult Supervision:** This product is recommended for children aged 8 and above. Adult supervision is advised during assembly and initial use, especially for younger children, due to the complexity of construction.
- **Small Parts:** The kit contains small parts that may pose a choking hazard for children under 3 years old. Keep all components out of reach of infants and toddlers.
- **Battery Safety:** If batteries are required (not included), ensure they are inserted with correct polarity. Do not mix old and new batteries, or different types of batteries. Remove exhausted batteries promptly.
- **Electrical Components:** Handle electrical components with care. Do not expose them to water or extreme temperatures.
- **Disposal:** Dispose of electronic components and batteries responsibly according to local regulations.

## 3. PACKAGE CONTENTS

Your Clementoni RoboMaker New kit includes the following main components:

- Over 200 interchangeable building components
- 2 Electric Motors
- 1 Speaker

- 1 Infrared Sensor
- Control Module with Bluetooth connectivity
- Assembly and Programming Manual (physical or downloadable)

Please verify that all components are present before beginning assembly. If any parts are missing or damaged, contact Clementoni customer support.

## 4. ASSEMBLY INSTRUCTIONS

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The Robomaker kit allows for the construction of three primary robot models: the X1-Drawer, X2-Elevator, and X3-Analyzer. You can also design and build your own custom robots.

### 4.1. Accessing Assembly Guides

The physical manual included in the box primarily covers electronic and programming aspects. Detailed mechanical assembly instructions for the robots are typically provided digitally. You can download the comprehensive PDF manual from the official Clementoni website. Additionally, step-by-step video tutorials may be available through the dedicated Robomaker application.

**Note: Some users have reported that downloaded PDF diagrams may contain minor errors, and app-based video tutorials can be slow. Patience and careful observation are recommended during assembly.**

### 4.2. General Assembly Tips

- **Organize Components:** Before starting, sort the components to easily identify them.
- **Follow Steps Carefully:** Adhere strictly to the instructions provided in the digital manual or videos.
- **Adult Assistance:** For children, adult assistance is highly recommended, especially for intricate steps or when interpreting diagrams.
- **Component Quality:** Some plastic components may have irregularities from the molding process. Carefully detach parts from their supports.

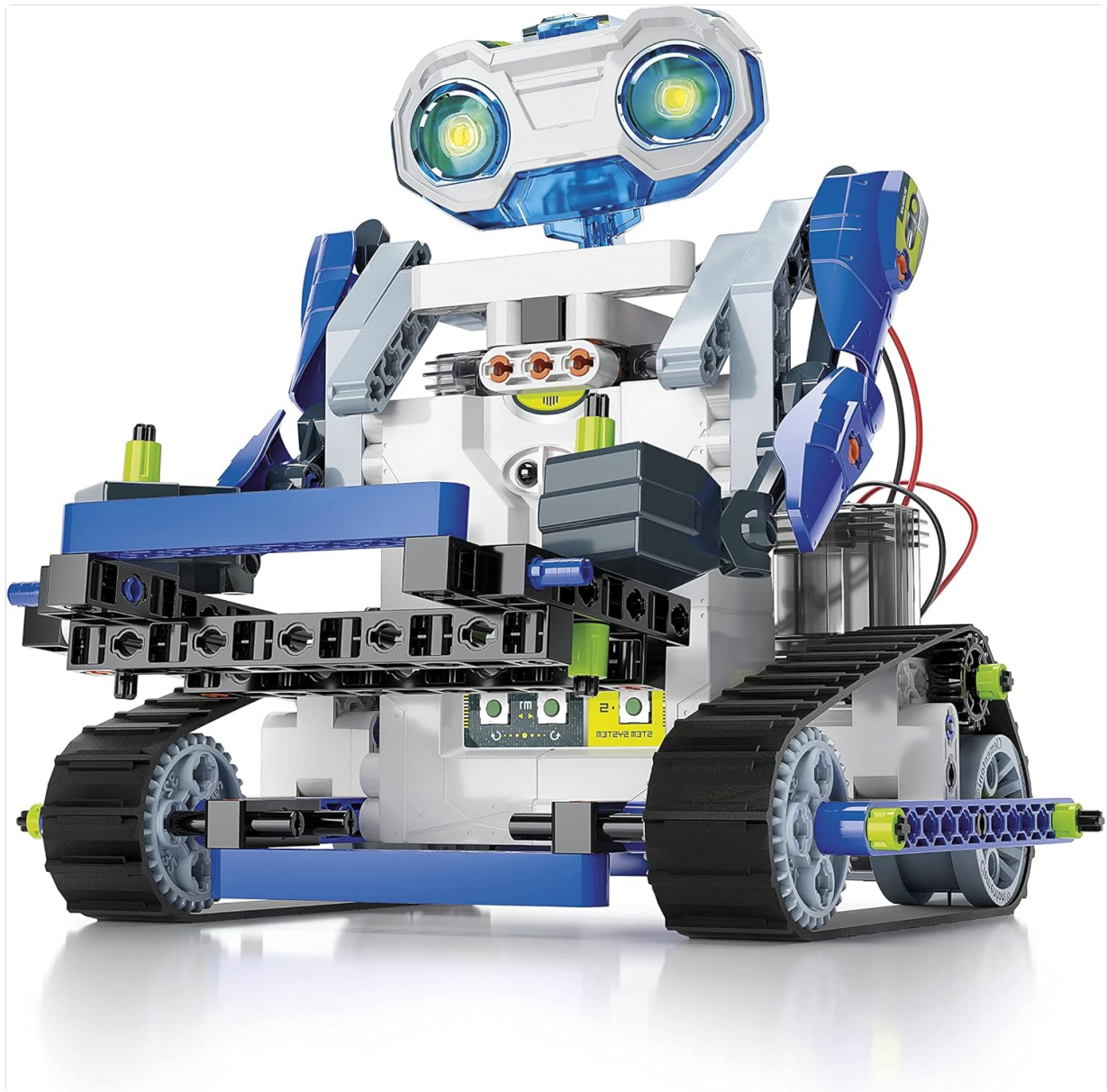


Figure 4.1: An example of an assembled Robomaker robot, showcasing its tracked movement system and central control unit.



Figure 4.2: The X1-Drawer robot (left) designed for drawing, and the X2-Elevator robot (right) configured for lifting or pushing objects.

## 5. SETUP AND CONNECTIVITY

### 5.1. Battery Installation

The robot requires batteries for operation. Insert the required batteries (not included) into the designated battery compartment, ensuring correct polarity. Refer to the assembly manual for specific battery type and placement.

### 5.2. App Installation

To fully utilize the Robomaker kit's programming capabilities, download the official Clementoni Robomaker app from your device's app store (e.g., Google Play Store for Android, Apple App Store for iOS).

- **Compatibility:** The application is not compatible with devices running the Windows operating system. Ensure your tablet or smartphone meets the minimum operating system requirements (e.g., Android 4.4 or later, iOS 8.0 or later). Older devices may experience compatibility issues.

### 5.3. Bluetooth Connection

The Robomaker robot connects to your smart device via Bluetooth. Follow these steps to establish a connection:

1. Ensure Bluetooth is enabled on your smartphone or tablet.
2. Turn on your assembled Robomaker robot.
3. Open the Clementoni Robomaker app.
4. Within the app, navigate to the connection or pairing section.
5. Select your Robomaker robot from the list of available Bluetooth devices.

**Note: Some users have reported difficulties in establishing the initial Bluetooth connection. If you encounter issues, try restarting both your device and the robot, and ensure no other Bluetooth devices are interfering.**

**RENDIAMO FACILI LE COSE DIFFICILI**

RoboMaker® è un kit che ha l'obiettivo di guidarti attraverso un vero e proprio percorso educativo alla scoperta della robotica e del coding. Utilizzando oltre 200 componenti potrai realizzare 3 differenti robot.

Programmando tramite l'APP o manualmente i 3 modelli nell'ordine che ti proponiamo, il tuo livello di apprendimento crescerà costantemente e al termine di questo percorso avrai acquisito tutte le capacità per poter costruire e programmare robot di qualsiasi forma in modo autonomo!

**SEZIONI DI GIOCO DELL'APP**

- 1 COSTRUISCI** I 3 differenti robot possono essere selezionati uno alla volta. Per ogni modello di robot che ti proponiamo, per poi andare a costruire il tuo pezzo dopo pezzo, in modo dinamico e divertente.
- 2 IMPARA** I manuali teorici ti verranno illustrati i concetti base della programmazione attraverso gli attività guidate, per affrontare le quali ti verrà chiesto di creare delle sequenze di comandi specifiche, utilizzando la programmazione a blocchi.
- 3 CREA** Una volta avuti i 3 robot, potrai creare i tuoi programmi basati sulla programmazione a blocchi. In questa area, dopo aver costruito un robot di qualsiasi forma, potrai programmarlo come meglio credi.
- 4 CONTROLLA** La modalità controllo ti permetterà di controllare i 3 robot, sia quelli che noi progettiamo che quelli da te inventati.

**PROGRAMMABILE ANCHE MANUALMENTE!**

Il tuo Alessandro Boglio ha collaborato con Clementoni per creare questo prodotto, fornendo assistenza, informazioni e contenuti sulle modalità di programmazione.

Per saperne di più sui programmi di collaborazione della informazione e della robotica, visitate il sito [www.clementoni.com](http://www.clementoni.com) o contattate il Servizio Clienti al numero 02.82.52.52.

**RoboMaker**

il laboratorio di robotica educativa Bluetooth

Con l'APP sarà possibile programmare sia da tablet che da smartphone tutti i robot, per imparare la programmazione a blocchi e apprendere i principi del CODING.

Il robot riceve il programma tramite Bluetooth® e inizia ad eseguire la SEQUENZA

- 1 Per prima cosa va avanti e accende i led per 2 secondi
- 2 Poi gira a sinistra per altri due secondi, emettendo un suono
- 3 Infine va avanti per buttare giù lo scivolino dal tavolo e si ferma quando il sensore IR percepisce la fine del piano d'appoggio

Fai cadere l'oggetto dal tavolo...

**Attività a difficoltà crescente**

- X1-DRAWER • DISEGNA CON IL PANNELLO • IL CUSTODE DELLA SCATOLINA
- X2-ELEVATOR • LA STRETTA DI MANO • SOLLEVA E TRASPORTA GLI OGGETTI
- X3-ANALYZER • ELTA GLI GLI OGGETTI • TAGLIA IL TRAGUARDO

**Livello di apprendimento**

**ATTENZIONE:** Non adatto a bambini di età inferiore a 36 mesi. Contiene piccole parti che possono essere ingerite o inalate. Pericolo di soffocamento.

Leggere le indicazioni riportate e conservare la scatola per futura riferimento. Leggere il manuale del costruttore prima di iniziare il montaggio. Prima di iniziare il montaggio assicurarsi che il robot sia completamente assemblato e che il software sia correttamente installato.

**AVVERTENZE:** Solo per bambini di almeno 10 anni. Il robot deve essere sempre tenuto in mano o collegato a un cavo di alimentazione. Evitare di toccare le parti elettriche del robot.

**ATTENZIONE:** Contiene punti funzionali non protetti.

**ATTENZIONE:** Contiene apparecchiature elettriche ed elettroniche soggette a normale interferenza dei robot.

**Attenzione:** 6-11 anni. Batteria a 1,5V AA/AAA. Leggere attentamente il manuale del costruttore.

Durante la procedura di connessione, alcuni dispositivi Android® potrebbero avere dei rallentamenti legati alla caratteristica del software. Questo causa un rallentamento durante la prima connessione, ma non ha pregiudizio sulla durata di vita del robot. Evitare di toccare le parti elettriche del robot durante la procedura di connessione.

**PARAMETRI DI COMPATIBILITÀ**

Il kit è dotato di un Bluetooth® a risparmio energetico (BLE 4.1 - Bluetooth® Low Energy) che è compatibile solo con dispositivi Android™, Tablet e lo smartphone. Per l'uso della modalità APP deve essere dotato di BLE.

Per informazioni dettagliate sulla compatibilità dei dispositivi e per la procedura di connessione, consultare la sezione FAQ contenuta nel sito [www.clementoni.com/robot](http://www.clementoni.com/robot).

**REQUISITI MINIMI**

Apple®: Il dispositivo deve essere dotato di software iOS 8 (o versioni successive).

Android™: Il dispositivo deve essere dotato di BLE, del software Android™ 4.4 (o versioni successive) ed almeno 512 MB di RAM.

Amazon®: Kindle Fire dotato di sistema operativo Fire OS 5 (o versioni successive).

**NON COMPATIBILE** con sistemi operativi Windows®

**Clementoni** licenzia BigBotz production apparecchiature elettriche ed elettroniche e i loro componenti per loro stessi. Componenti elettronici di provenienza extra UE.

**Clementoni S.p.A.**  
Zona Industriale Fontenose S.n.c.  
03019 Roccasecca (MC) Italy  
Tel.: +39 071 75811  
[www.clementoni.com](http://www.clementoni.com)  
Assistenza Clienti  
Tel.: 02.82.52.52  
[assistenza@clementoni.it](mailto:assistenza@clementoni.it)

**Clementoni**

Figure 5.1: The Robomaker app interface, demonstrating block-based programming and various robot functionalities like drawing, lifting, and analyzing.

## 6. OPERATING INSTRUCTIONS

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Once your robot is assembled and connected to the app, you can begin programming and controlling its actions.

### 6.1. Block Programming

The Robomaker app utilizes a visual block-based programming interface. Drag and drop command blocks to create sequences of actions for your robot. These blocks can control movement, activate the speaker, respond to the infrared sensor, and more.

- **Movement:** Program the robot to move forward, backward, turn, and stop using the electric motors.
- **Sound:** Utilize the integrated speaker to add sound effects to your robot's actions.
- **Infrared Sensor:** The infrared sensor allows the robot to detect objects in its path, enabling it to avoid obstacles or interact with its environment.

### 6.2. Robot Specific Functions

- **X1-Drawer:** Program this robot to create drawings by controlling its movement and the attached drawing tool.
- **X2-Elevator:** Use this model to practice lifting or pushing small objects.
- **X3-Analyzer:** Experiment with the X3-Analyzer to explore different interactions with its environment, potentially using its sensors to gather information.



Figure 6.1: A detailed view of the robot's head, highlighting the eyes (LEDs) and the infrared sensor module for environmental interaction.

## 7. MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the robot's surfaces. Do not use abrasive cleaners or immerse the robot in water.
- **Storage:** When not in use, store the robot and its components in a dry, cool place, away from direct sunlight.
- **Battery Replacement:** Replace batteries when the robot's performance diminishes. Always use the recommended battery type.
- **Component Check:** Periodically inspect all connections and moving parts to ensure they are secure and functioning correctly.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Robot does not turn on.	Batteries are dead or incorrectly installed.	Check battery polarity and replace with fresh batteries.
App cannot connect to the robot via Bluetooth.	Bluetooth is off on the device; robot is off; app compatibility issue; interference.	Ensure Bluetooth is on, robot is powered, and app is compatible with your device OS. Restart both device and robot. Try pairing in a different location to reduce interference.
Robot does not respond to programming.	Incorrect program logic; loose connections; low battery.	Review your program in the app. Check all physical connections on the robot. Replace batteries.
Difficulty assembling the robot.	Complex instructions; unclear diagrams.	Refer to the downloadable PDF manual and available video tutorials. Seek adult assistance. Take breaks if frustrated.
App crashes or performs poorly.	Device is too old; OS is incompatible; app bug.	Ensure your device meets minimum system requirements. Update the app to the latest version. Try on a different, compatible device if possible.

## 9. SPECIFICATIONS

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- **Product Dimensions (L x W x H):** 9 x 4.5 x 20 cm
- **Product Weight:** 110 grams
- **Recommended Age:** 8 years and up
- **Educational Value:** To Build, Robotics, Coding
- **Manufacturer Reference:** 19132
- **Number of Pieces:** 1 (referring to the kit as a whole, contains over 200 components)
- **Assembly Required:** Yes
- **Batteries Required:** Yes (not included)
- **Main Material:** Plastic
- **Color:** Multicolored
- **Connectivity:** Bluetooth
- **UPC:** [8005125191321](#)

## 10. WARRANTY AND SUPPORT

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For information regarding product warranty, spare parts availability, or technical support, please refer to the official Clementoni website or contact their customer service directly. Contact details can typically be found on the product packaging or Clementoni's official online channels.

### **Clementoni S.p.A.**

Zona Industriale Fontenoce

62019 Recanati (MC) - Italy

Tel: +39 071 75811

Website: [www.clementoni.com](http://www.clementoni.com)



