

RoBico

ROBOT
for
Coding
Education



red**dot** award 2022
winner



the BACK-TO-BASICS



**Robot Friends that awaken
your coding skills**

Robot coding education,

which immediately shows the results of coding to children familiar with robots and part of the future generation, is an engaging and effective educational method.

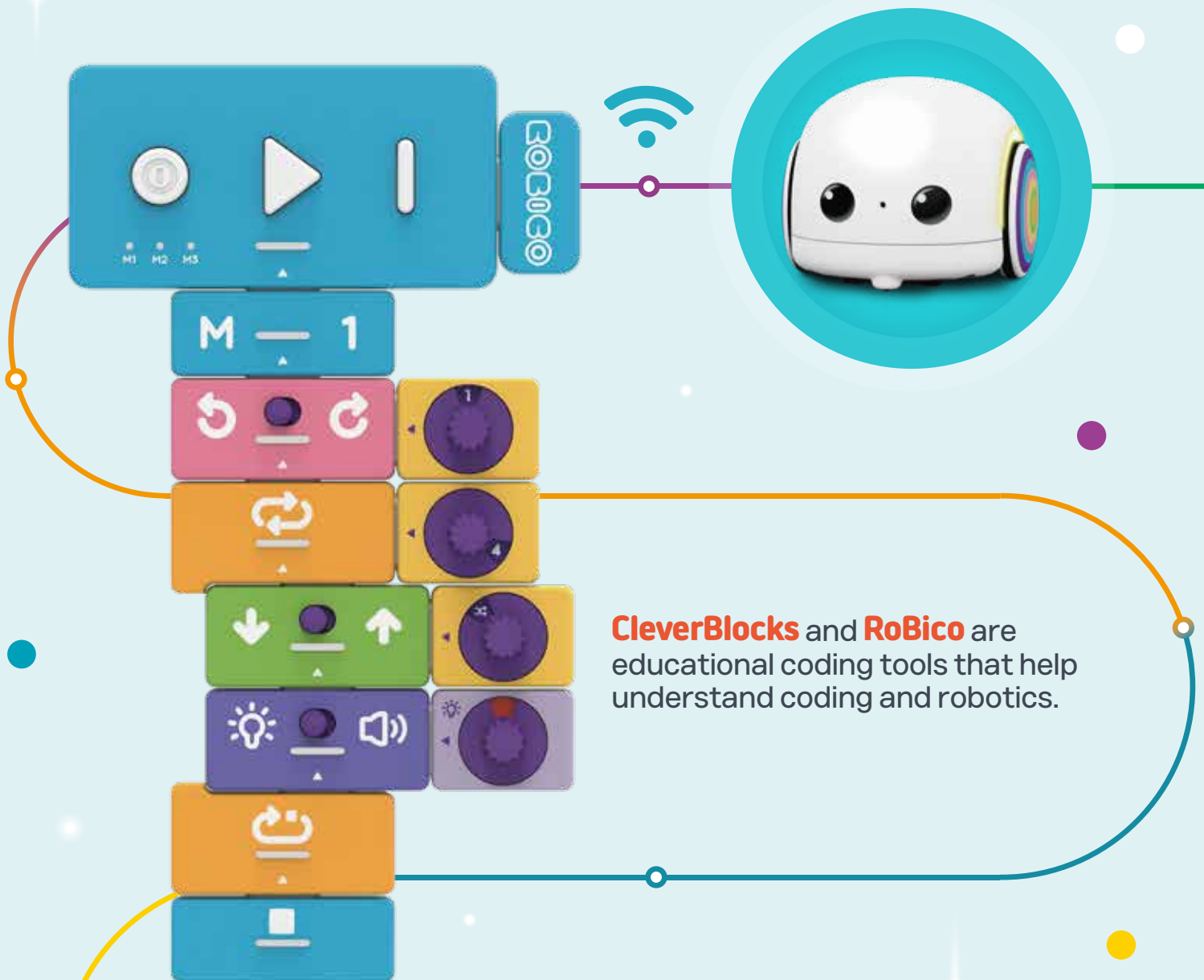
Eco Friendly



We use
recycled plastic for
the environment!



CleverBlocks for ROBICO



CleverBlocks and **RoBico** are educational coding tools that help understand coding and robotics.

The First Hands-On Coding with **Robots**

- Growth of local muscles
- Unplugged Coding Activity
- Creativity & Logical Thinking
- Sense of Colors
- Computational Thinking
- Problem-solving Ability

CleverBlocks

The commands on-screen have turned into tangible blocks!
With **CleverBlocks**, you can easily attach and detach the command blocks using magnets, and assemble them to control the robot's movements.

Main Block

Interprets and executes commands like the brain of a computer.

Repeat Block

Repeats the commands of blocks in between.

Move Block

Moves the connected device forward and backward.

Fun Block

Turns on the light or sound of the connected device.

Rotate Block

Rotates the connected device by certain angles.

Device Block

Connects various robots and CleverBlocks.

Memory Block

Remembers and stores other blocks.

Variable Block

Sets the movement distance, rotation angle, color, sound, and number of repetitions.

End Block

Marks the end after all blocks are assembled.

Easy to Debug

When running the program, executing blocks light up, making it easy to identify errors. You can learn to code step by step by using the step button.

Use more blocks

You can save a program in the memory block and use it by assembling it onto other blocks. Complex coding can be done with a limited number of blocks.

Connect various devices

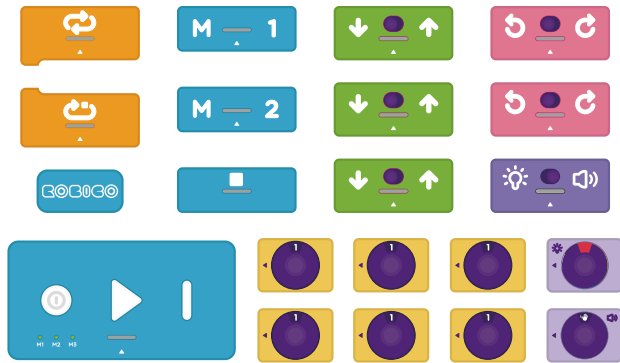
By changing the device block, you can connect various robots, so you don't need many tools to code.

Complete Wireless

It operates on AAA battery and Bluetooth, so charging or connecting lines are not needed. Blocks are lightweight and easy to assemble using magnets.

CleverBlocks is used in kindergartens, schools, learning centers, and senior education centers to develop **computational thinking** skills and **brain activity**.

CleverBlocks for RoBico Set



357×248×43mm 685g

• Manual • Guidebook

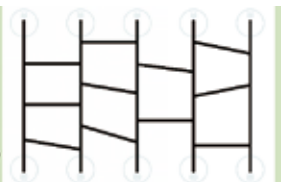
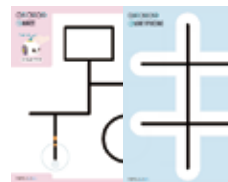
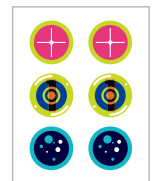
- Main Block ×1
- Device(RoBico) Block ×1
- End Block ×1
- Memory 1 Block ×1
- Memory 2 Block ×1
- Repeat Start Block ×1
- Repeat End Block ×1
- Move Block ×3
- Rotate Block ×2
- Fun Block ×1
- Number Variable Block ×6
- Light Variable Block ×1
- Sound Variable Block ×1



236×180×68mm 620g



- RoBico
- Marker
- Manual
- Challenge card
- USB-C cable
- 2 Maps(both sides)
- Binary code sticker
- Wheel decosticker



Jongsoo Kwak | Sales Manager

MARUSYSedu

jskwak@marusysedu.com

T + 82-70-8879-5999 M + 82-10-8560-5355

(Seowon BD 3F, Yeoksam-Dong) 7, Eonju-ro 85-gil, Gangnam-gu, Seoul 06222 KOREA

MARUSYSedu, Inc.

MARUSYSedu

MARUSYSedu, Inc.
edu@marusysedu.com



MARUSYSedu
LinkedIn



RoBico Video



CleverBlocks
Video

www.robico.info

Made in Korea

From Basics to Advanced Coding



Learn to code without a smart device by coding with Binary codes and utilizing line tracing.



Create your own story with a variety of colorful lights, sounds and recording capabilities.



Enjoy various activities with sensors like obstacle detection, fall prevention, and mode change.



Code with RoBico app, CleverBlocks, block based coding software, Python, etc.

Exterior and Functions

- KC / CE Certified
- Child Safety Certified

R-R-Mdu-Robico
CB061A517-4001
CB067R2090-4001



- ① ② IR Sensors Detect obstacles
- ③ Microphone Detect sound
- ④ ⑤ LEDs Display various colors



- ① ⏻ Button IR sensor on/off Calibration
- ② ⏻ Button Record/Play sound
- ③ IR Sensor Detect obstacles
- ④ Charging port



- ① Color Sensor
- ② Line Sensors
- ③ Fall Prevention
- ④ Speaker
- ⑤ Power Switch

Size 60*67*48mm | Rated Voltage 5V1A | Charging time 2hrs | Using time 1hr

Made in Korea

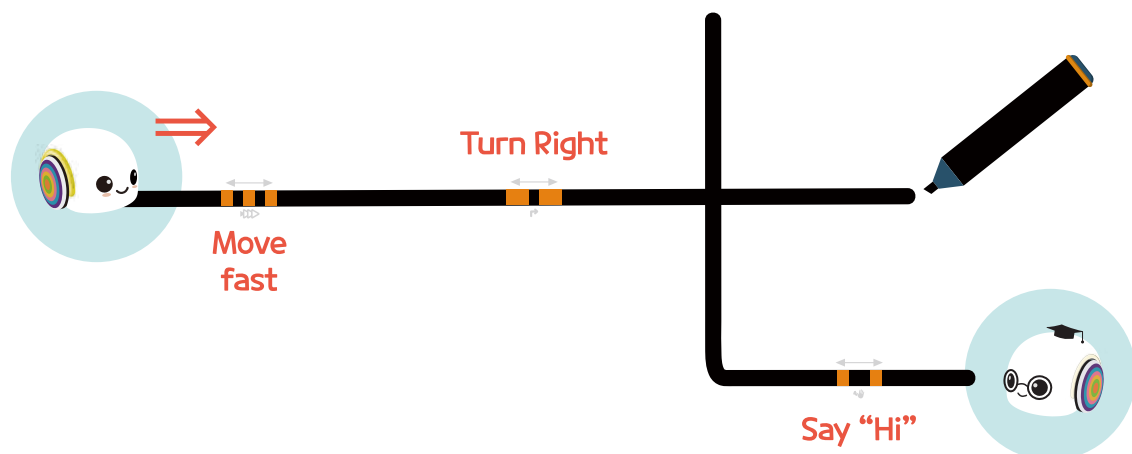
Binary Codes

Binary Codes are the special type of commands to control RoBico. Binary codes made up of long and short patterns change RoBico's speed and direction, and allow it to lit the lights, sound, and do the fun moves.



Use RoBico's Binary Codes stickers!

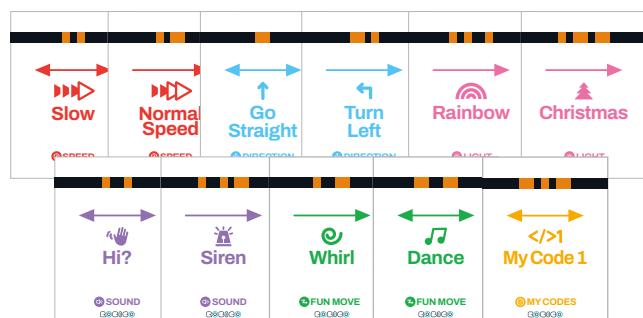
The Binary code consists of long and short patterns. When using it as a sticker, there should be a 5mm black line on both sides of the code.



RoBico follows the black line and reads the Binary codes to perform the command. The binary codes, which consists of long and short patterns, changes RoBico's speed and direction, and displays lights, sounds, and fun movements.



Binary Codes Stickers



Binary Codes Cards

RoBico App

Using the RoBico app, you can utilize the robot in various ways by using controller, Button coding and CleverBlocks.



RoBico

Download the app on phones or tablets.



Controller

You can control RoBico freely like a game. Choose between two modes (easy/hard).



Button Coding

Create and play commands in sequence by pressing buttons.



Binary Codes

Learn about Binary codes and create your 4 own codes.



CleverBlocks

Create and play programs using block based coding of sequential and repetitive algorithms. Choose from two levels.

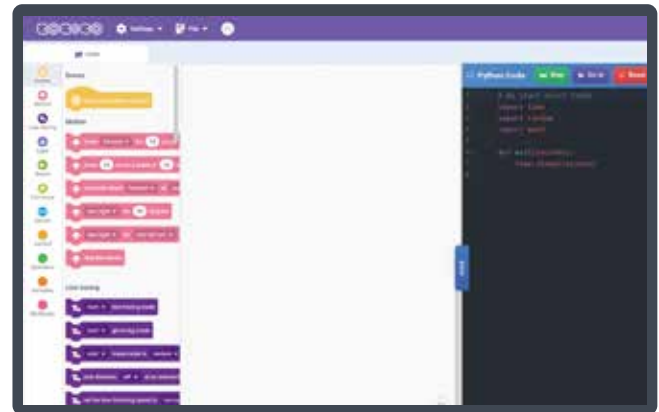
RoBico Code

Download the app on phones or tablets.

Enhance your coding skills with advanced tools, from Scratch block based coding to Python. Explore a variety of coding possibilities using RoBico's sensors that detect obstacles, colors, and floors.

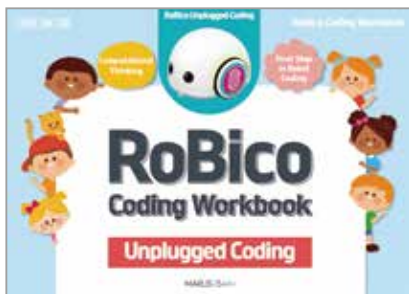


Block based coding



Python

RoBico Coding Curriculum



RoBico Basics Workbook : Unplugged Coding

A foundational RoBico coding workbook for unplugged learning, featuring line tracing, binary codes, sensors, and voice recording.

- 48 fun activities with marker and binary codes stickers
- 420*297mm



RoBico Basics Workbook : App Coding

A foundational RoBico coding workbook featuring app-based activities like controller use, button coding, custom code saving, and block coding.

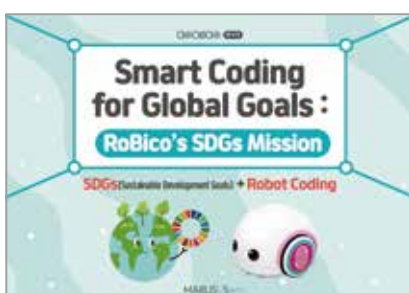
- 48 fun activities with coding maps
- 210*297mm



Smart RoBico

A play-based coding activity program linked to everyday themes, tailored to young children's developmental stages. There are two levels of difficulty.

- 12 Lessons per Level with marker, activity stickers, activity map
- 420*297mm
- This curriculum is under development.



Smart Coding for Global Goals : RoBico's SDGs Mission

A project integrating SDGs (Sustainable Development Goals) education and RoBico coding to introduce sustainability concepts and nurture future leaders.

- 12 Lessons with marker, binary codes stickers, and RoBico app
- 420*297mm
- Lecture material(PPT)

board game



Environmental Coding Game with RoBico : Eco Heroes, Eliminate Carbon!

An environmental coding game that tackles ecological issues and develops problem-solving skills through robot coding. All activities are done using the RoBico app.

- Coding map, coding cards, and carbon chips with RoBico app
- 750mm(map)
- Lecture material(PPT)