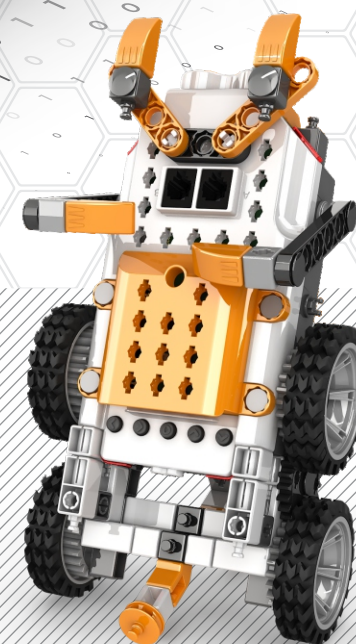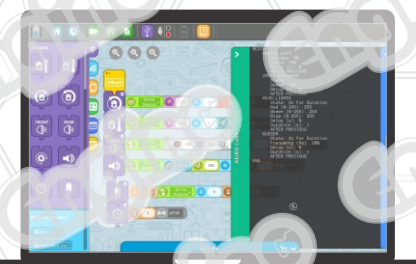CODINGLAB GINOBOT™ is the new expandable robot by ENGINO®! GINOBOT™ has built-in connectors of ENGINO®, enabling structural and mechanical expansion. Expandability extends also to open electronics as GINOBOT™ is connectable to Raspberry Pi®, Micro:bit® and Arduino® as well to ENGINO® ERP sensor modules (not included). This 4-wheel drive version of GINOBOT™ comes with wifi and bluetooth, and has 2 colour sensors built-in at the bottom to follow coloured lines, an ultrasound sensor at the front, 3 Infrared distance sensors and 4 programmable RGB lights!

Engino

Engino

CODINGLAB
GINOBOT EXPANDABLE ROBOT

9+

Wi Fi

Bluetooth

Adaptor plate provided to connect 3rd party microcontrollers such as Arduino®, Micro:bit & Raspberry Pi® (not included)

USB Cable to download program

Pencil/Pen holder to draw lines

12 x Proximity sensors, one at each corner to detect obstacles

5 x Buttons for manual programming and playback

Specially designed rims with grooves for crawler tracks

Gears to transfer motion from main motors to all wheels, leading to a 4-wheel drive vehicle

Patented lock cap to secure the wheels

Built-in Engino geometries to connect more parts and create larger models

2 x Programmable multi-colour LED lights

Removable cover to replace the included ultrasonic sensor if needed

CODE LEARN & INVENT
with flow icons & text programming

master engineers

EXTRA MODEL

EU OFFICE & FACTORY:
ENGINO-NET LIMITED
P.O.BOX 72100, 4200
LIMASSOL, CYPRUS
Tel.: +357 25821960
Fax: +357 25821961
E-mail: info@engino.com
Web: www.engino.com

Made in EUROPE

⚠ **WARNING:**
CHOKING HAZARD–Small parts. Not for children under 3 yrs.

Product Code:
ROB10

🔍 Contents

📋 User Manual

📝 Experiments

## 🔧 Building Instructions

📖 User Manual

MEET THE GINOBOT™

GINOBOT™ is a highly programmable robot ready to be used straight out of the box. Developed by a combination of engineers and academics, GINOBOT™ is a neat tool for teaching STEM disciplines, computational thinking and digital literacy with fun and hands-on experience activities.

GINOBOT™ is the robot that helps you explore divergent projects in a broad range of levels. It has literally unlimited expansion potential since it allows the attachment of add-on 3rd party electronics and hardware like a Raspberry Pi, Arduino, and micro:bit. Besides its internal sensors and its expandability with 3rd party electronics, the body of GINOBOT™ is also compatible with the Engino building system to construct larger and more sophisticated robots.

QUICK START

GINOBOT™ is equipped with multiple built-in sensors and output devices. In addition, the robot features two RJ ports for easy attachment of additional Engino® modules. Manual programming and real-time control is achieved by several soft buttons. It's main buttons, switches and ports are presented below.
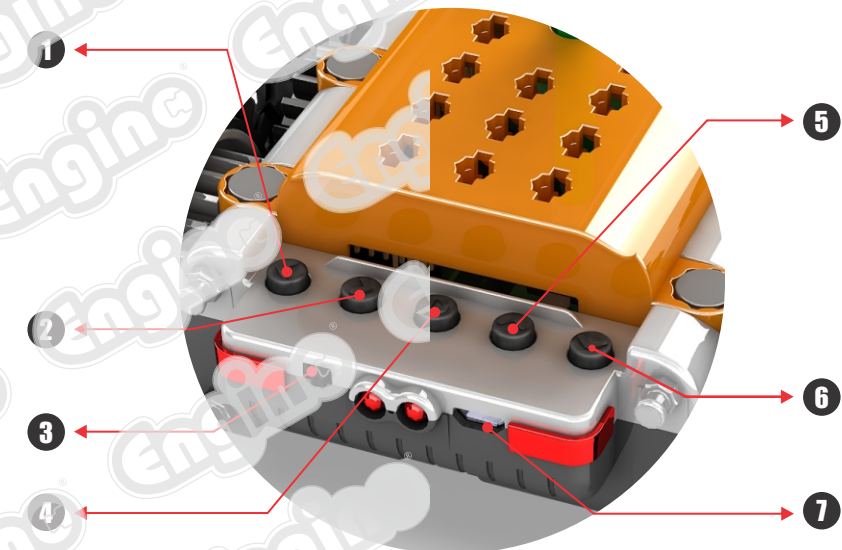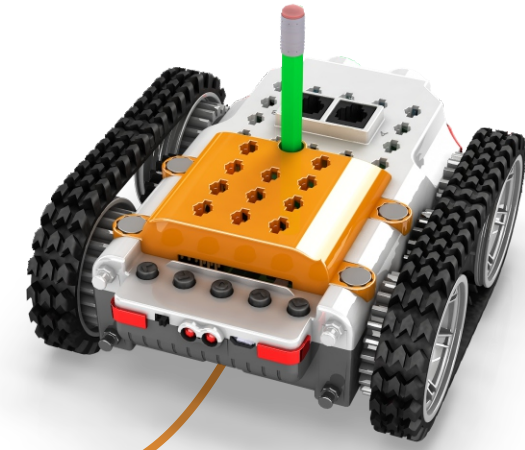
❶ TURN LEFT BUTTON
turns the robot to the left

❷ TURN RIGHT BUTTON
turns the robot to the right

❸ POWER SWITCH
ON/OFF switch of Ginobot

❹ PLAY BUTTON
Executes a program
Keep pressed to record a manual program

❺ FORWARD BUTTON
moves the robot forward

❻ BACKWARD BUTTON
moves the robot in reverse

❼ micro USB PORT
connects the robot to a PC

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