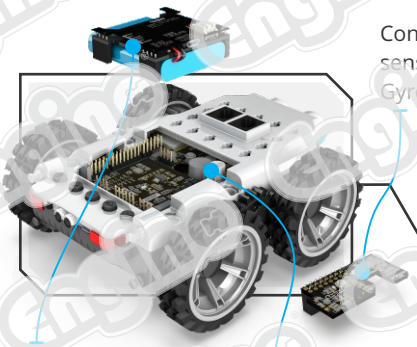
GinoBot

USER MANUAL

E49.1 Basic Edition / **E50.1** Advanced Edition / **E51.1** Professional Edition



Connectivity to extra add-on sensors such as Sound, Gyro & Magnetometer

With a rechargeable battery module

Option for Arduino® connectors for open source electronics & programming

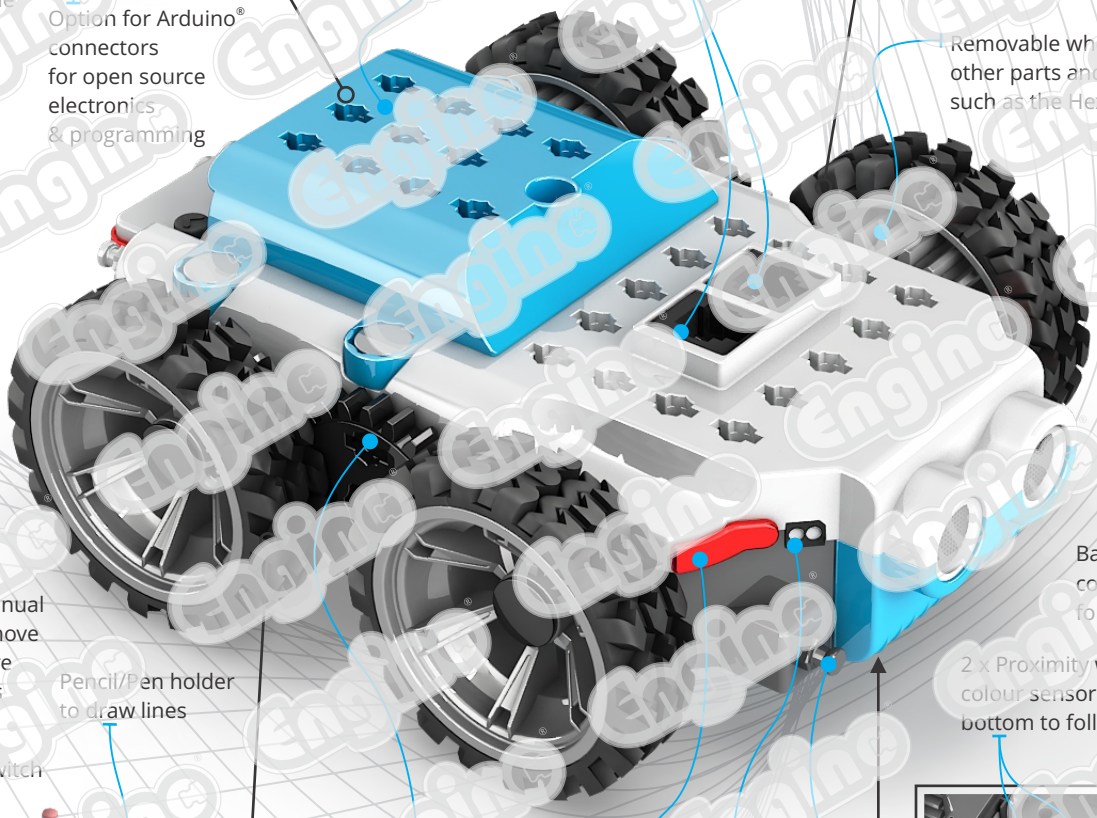
Removable cabin to access the PCB and connect extra hardware

Specially designed rims with grooves for crawler tracks

Removable tires to convert to cat-trucks

2 x RJ connectors to expand with extra motors & sensors

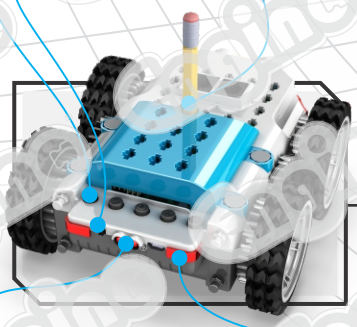
Removable wheels to connect other parts and create models such as the Hexapod



5 x Buttons for manual programming to move and turn. Also store and play programs

On-Off switch

Pencil/Pen holder to draw lines



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

1 x Proximity sensor to detect obstacles while moving backwards

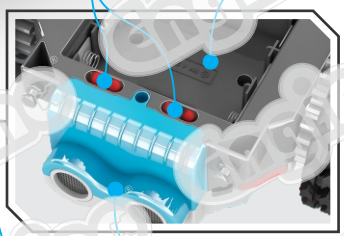
2 x Programmable multi colour LED lights

2 x Programmable multi-colour LED lights

2 x Proximity sensors, one at each corner to detect obstacle

Battery compartment for 3xAA batteries

2 x Proximity with colour sensors on the bottom to follow line



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

Removable cover to easily replace the ultrasonic sensor

Engino® EDUCATION

7-12+

Edition: 01/23

	Ginobot Body						
	Basic	ROB *(ultrasonic)*	EDU *(ultrasonic and LiPo battery)*	Mechanical Parts	PCB adaptor	Expansion board	Dual proximity/ color sensors
E49	✓						
IN 90	✓			✓			
ROB10		✓			✓		
E50			✓		✓		
E51			✓	✓	✓	✓	✓

Ginobot upgardes and add-ons

	Mechanical Parts	Expansion board	PCB adaptor	Dual proximity/ color sensors	Ultrasonic Sensor	LiPo Battery
E52	✓	✓	✓	✓		
E53					✓	✓

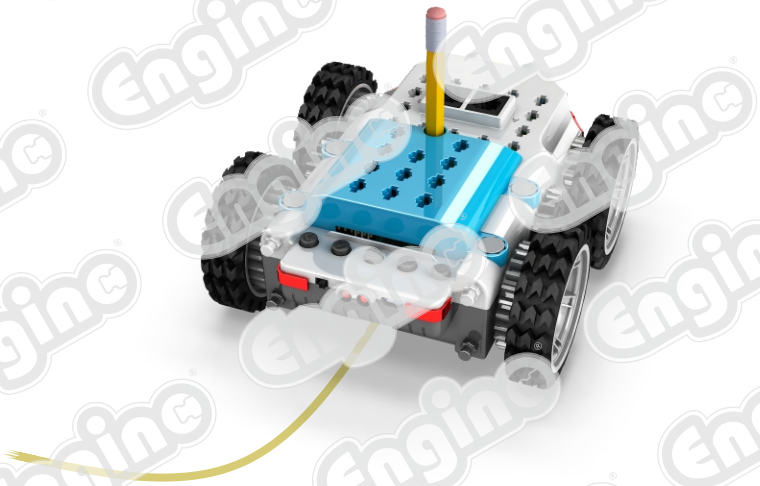
Table of Contents

User Manual

Experiments

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.

From Plug-&-Play robot...

The innovation of GINOBOT™ lies within its core design. It is expandable and adaptable to a very broad range of features to match the classroom needs of different ages. Plug-&-play robots are commonly used in pre-school and early primary classrooms in order to teach algorithmic and computational thinking. GINOBOT™ is an ideal plug-&-play robot since it allows manual programming and wireless control that allows teaching the fundamental steps of programming.

... To high-end coding and electronics

The upgrade potential of GINOBOT™ is essentially unlimited due to its compatibility with microcontrollers such as Arduino, Raspberry Pi and micro:bit. Teaching real programming languages such as C/C++ and Python can easily be adopted in a classroom, while maintaining fun, entertainment and motivation to the students. The advantage of working in open projects becomes materialized with a single holistic solution which can encompass the needs of different electronics and applications.

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