



Makeblock Introduction

www.makeblock.cc

Makeblock

What is Makeblock?

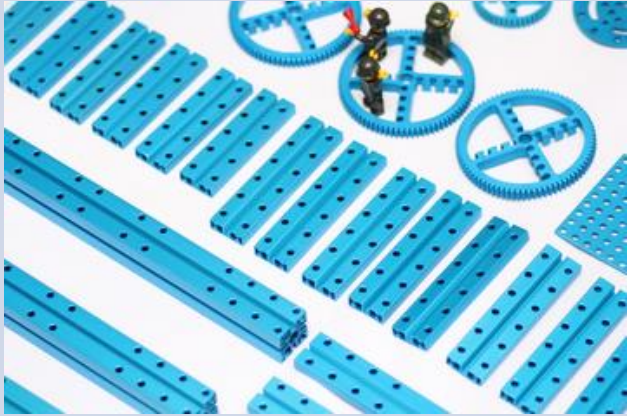


- Makeblock is an open source robot construction platform, which included strong aluminum parts, electronic modules and software solution.
- People can use Makeblock products to build varieties of really cool robots like remote controlled **robot tank**, **3-wheeled car**, **drawing robot**, **laser engraver** and even a **3D printer**.
- The **mission** of Makeblock is to lower the skill level requirement of making things!
- **Video:** <https://www.youtube.com/watch?v=talOsueekQA>

What is Makeblock?

• Makeblock is an open source construction platform to turn ideas into success, which included strong aluminum parts, electronic modules and software solution.

Mechanical “Blocks”: Well compatible aluminum extrusion



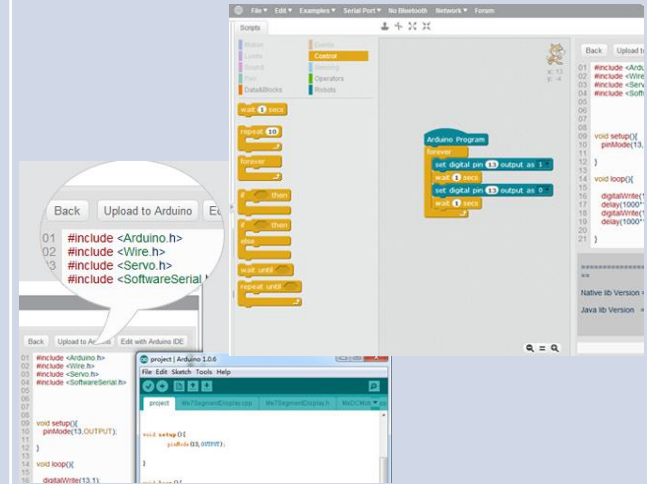
- Flexible block, professional building, free [prototyping](#).
- Compatible with [Lego](#) bricks.
- Industrial standard met.

Electronic “Blocks”: Easy to understand and wire



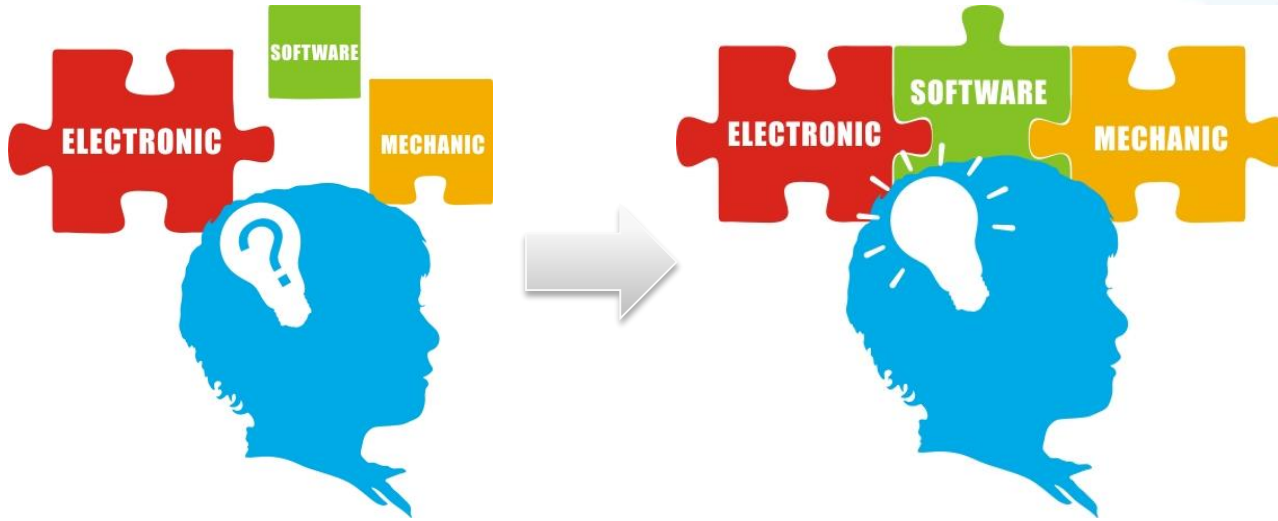
- Colorful labels, easy to [identify](#).
- RJ25 connector, easy to [wire](#).
- Compatible with [Raspberry Pi](#), [Arduino](#).

Software “Blocks”: Graphical programming software

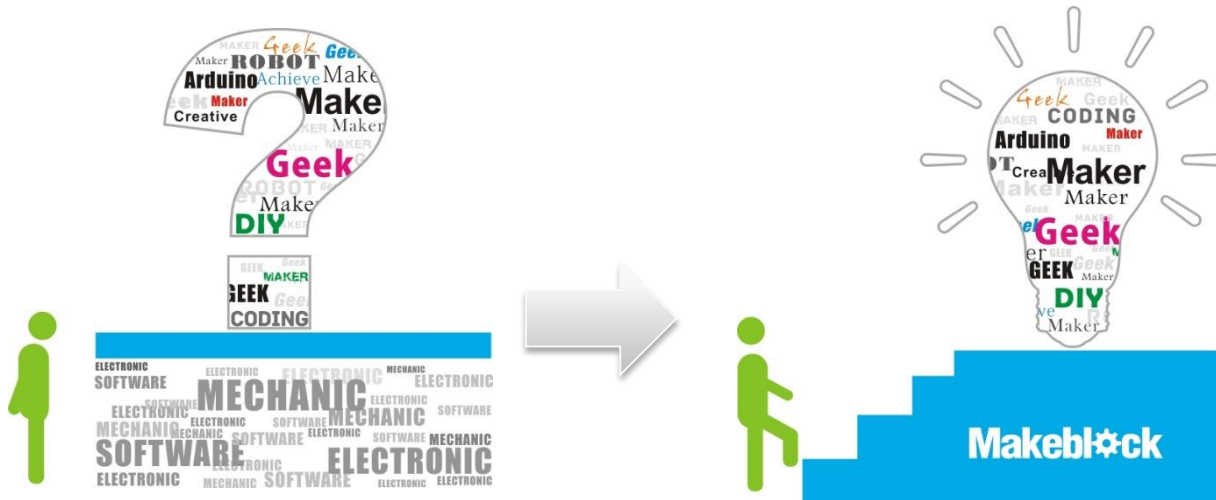


- Graphical programming software [mBlock](#) (base on [Scratch 2.0](#)).
- [Arduino code mode](#): seamless upgrade from graphical programming to coding.

Makeblock's Mission



Provide mechanics, electronics and software that are supported by each other.



Lower the skill level requirement of making things.

provides
Makeblock

mechanical parts
Beams, Gears, Bearings , etc

electronic modules
Sensors & Arduino boards

software solution
For Arduino ,Scratch, Raspberry Pi

Product features



Mechanics

High strength material: You can even stand on your robot!

Elaborate threaded slot: Connect parts everywhere you need.

Unified standard: All parts work together perfectly.

Compatibility: Compatible with Lego and many standard components.

Workmanship: Exactly like renderings.

Quantity: Over 260 mechanical parts.

Product features

Electronics

Elegance: No more messy wiring.

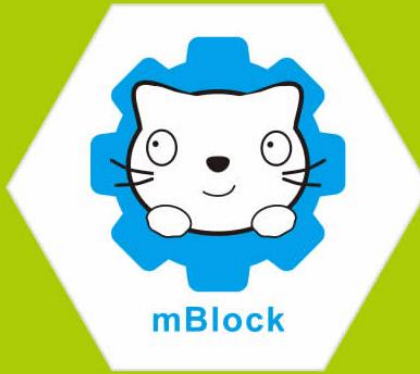
Colored tags: Throw away so-called wiring manuals!

Fault tolerance: Careless mistakes? Don't panic.

Compatibility: Working with Raspberry Pi and other modules .



Product features



Software

Programming: Using Arduino, Scratch, and Ardublock to control your robots.

Compatibility: Do more amazing things with Raspberry Pi.

Software Solution: Comprehensive softwares for all robot kits.

Convenience: Easy-to-use App on iOS and Android.



for Makeblock

Designer, engineer, maker
Aluminum robot part, robot kit

Education

[Inventor electronic kit](#), [mBot](#), [school packs](#)

Kids

Manual, free software, free App



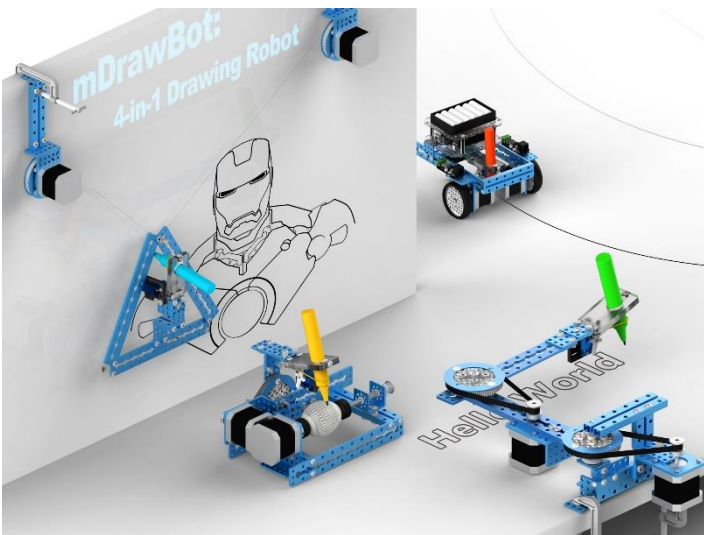
2015 New products

New Product mBot



Vendor	Makeblock
SKU	90050 (Bluetooth) / 90055 (2.4G)
Certificate	FCC, CE, RoHs
Target customer	K6-K12 Students
Slogan	O.R.P.K (ONE ROBOT PER KID)
Keywords	Easiest educational robot, robot for STEM education, kid's first robot.
Video	https://youtu.be/xeRpT6Lx_6A
<p>--mBot is the easiest educational robot for kids to get hands-on experience about graphical programming, Arduino and robotics. It is an all-in-one solution for robotics learning. Two wireless connection versions available, Bluetooth and 2.4G.</p> <p>--mBot will come with a Makeblock free software named mBlock, which is a graphical programming environment developed on the Scratch 2.0. We integrate Arduino with Scratch and do a lot of improvement. Girls and boys can use the mBlock to control the physical world without wiring. Tutorial is include!</p>	

New Product mDrawBot



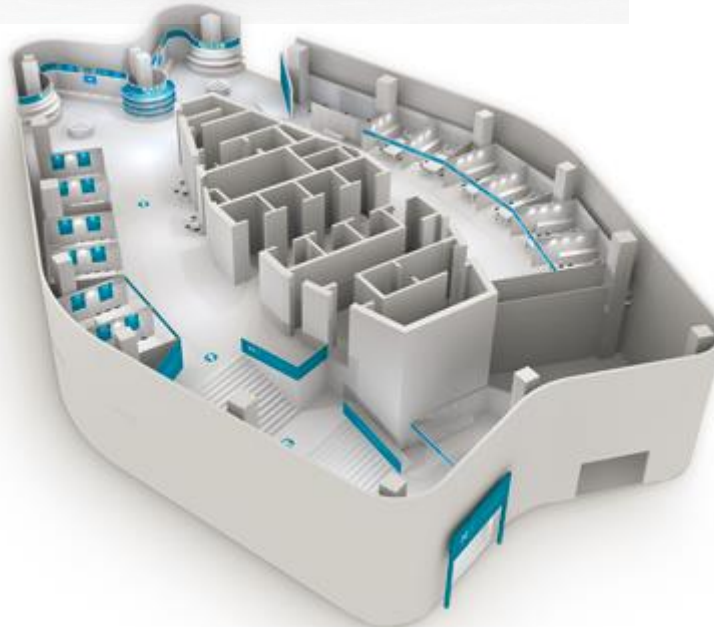
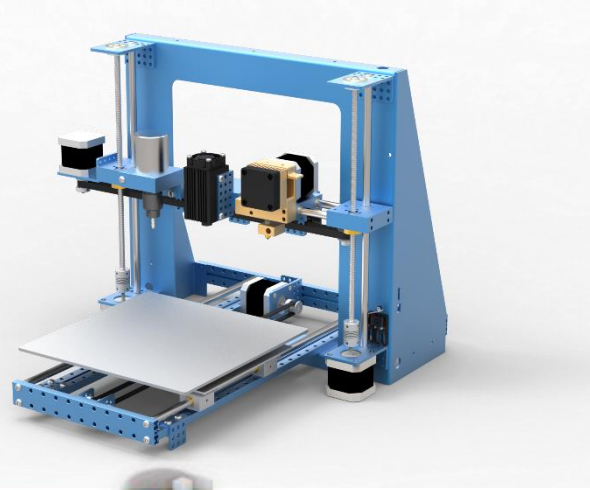
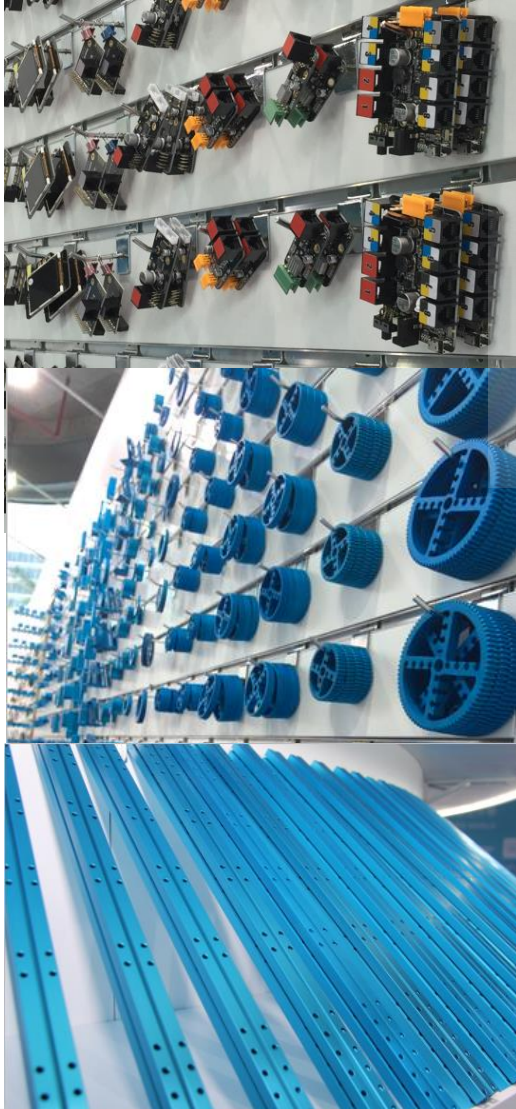
Vendor	Makeblock
SKU	90070 , 90078 , 90082 , 90086
Target customer	Makers, Engineers, hobbyist
Slogan	Draw your own legend
Keywords	Arduino robot, DIY robot kit , Robot artist, robotics projects.
Video	https://youtu.be/ZpsxgEsq788

mDrawBot is a 4-in-1 drawing robot kit, it can be assembled into 4 different drawing robots: mScara, mCar, mSpider and mEggBot.

—Designed to be customizable, the kits allow you to build robots that will draw on walls, floors, and even on eggs. The robot moves around each surface like an ink plotter, laying down a line here or there to make a cohesive whole. The kit includes a small programmable Arduino-like module, but you can supply your own and even add a Bluetooth system for uploading images wirelessly.

—If get a laser engraver pack that allows you to shoot high-powered lasers at your surface instead of a weak old ink blob. The kit includes a program called mDraw, which lets you set up drawings and send them to the robot to complete.

Maker Space Pack



Vendor	Makeblock
Target customer	School lab, Hacker space, Maker space, Fab lab, robot competition
Video	https://www.youtube.com/watch?v=ulmBOJ_KSHk https://youtu.be/FOFs6tJ57Is

Consist of Basic Kit and all kinds of extension pack.

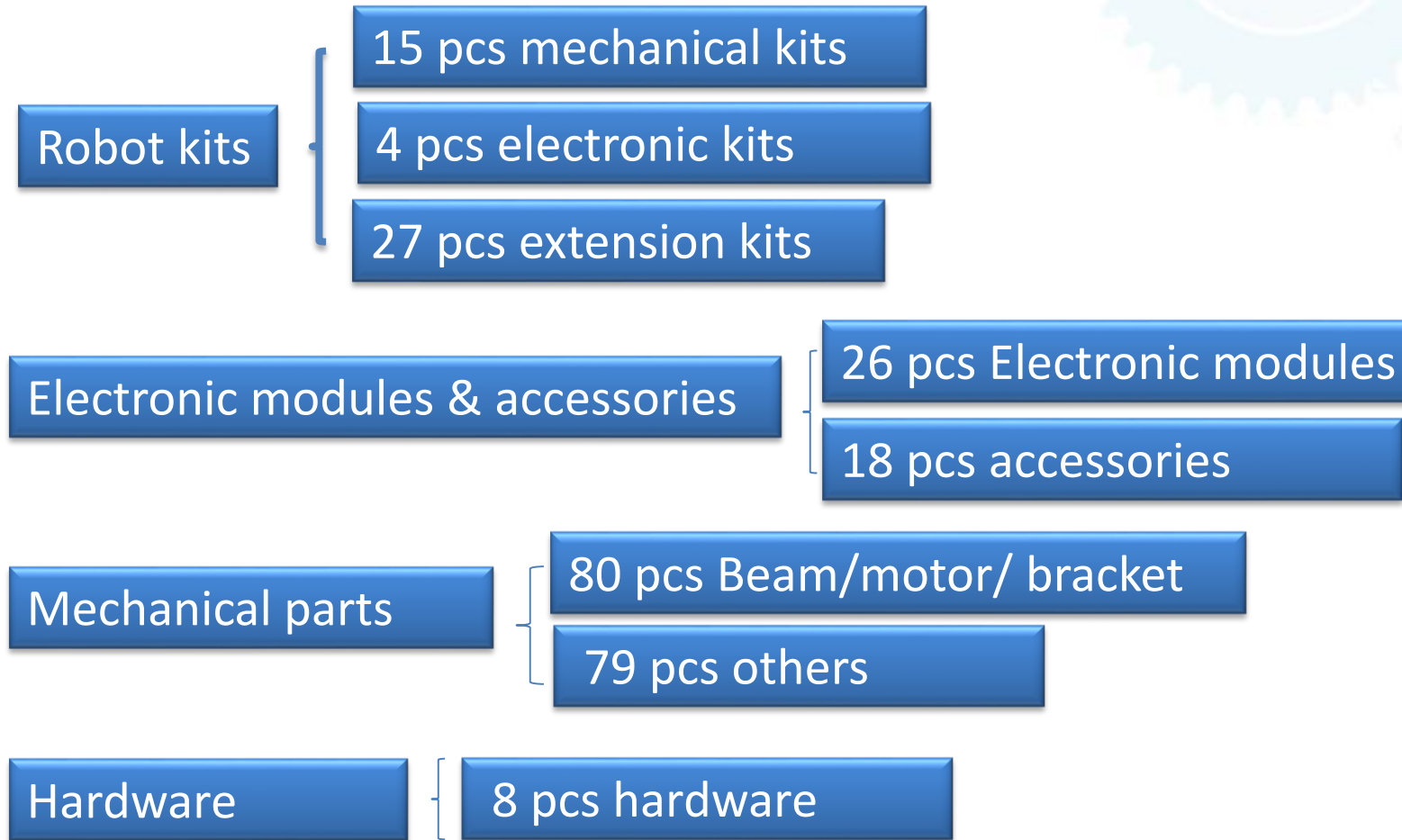
- 1) Maker Space Pack A: Basic Kit – For 3-5 people build project, all Makeblock parts included.
- 2) Large Mechanics Extension Pack B
- 3) Advanced driver and transmission components Pack C
- 4) Electronic Extension Pack D
- 5) Motor Power Expansion Pack E
- 6) XY Plotter + Laser Engraver Pack
- 7) 3D Printer Pack
- 8) Screws & Nut Expansion Pack
- 9) Storage Solution Pack



2014 Products introduction

2014 Product Information

Makeblock platform structure divided into four different product series (**257 SKU**)



Starter Robot Kit (IR version)



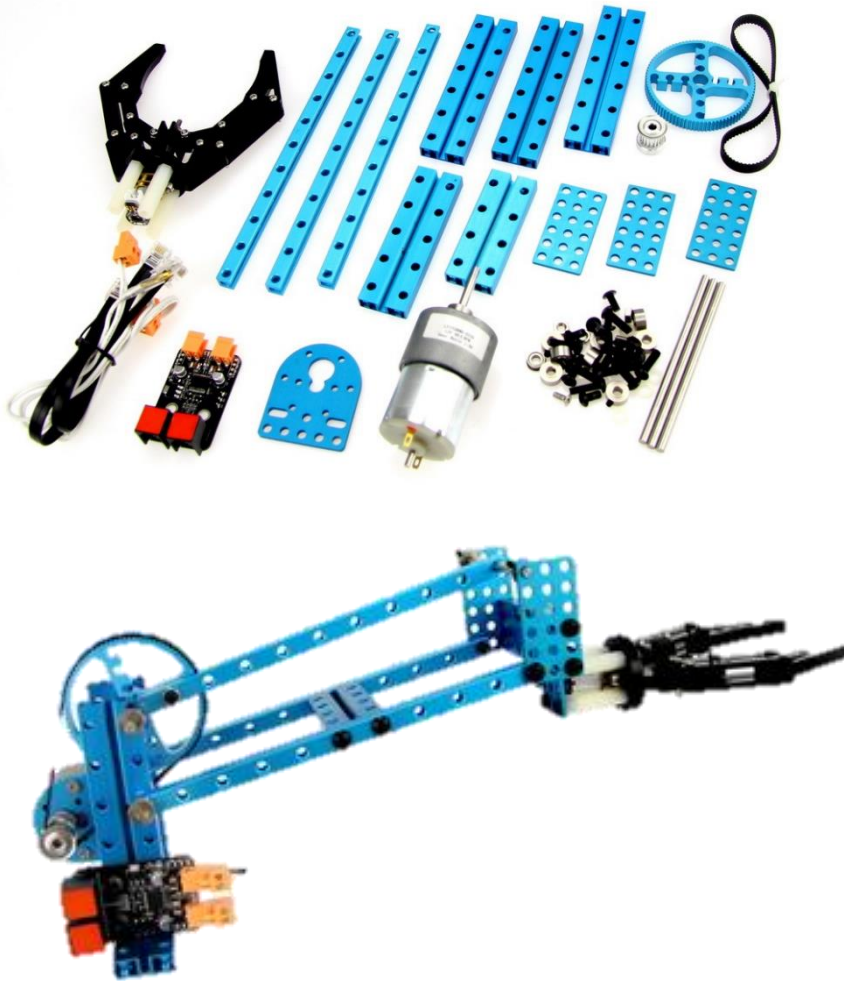
Vendor	Makeblock
SKU	90004
Release time	September 2014
Target customer	DIY Hobbyist, new robot lover
<p>This Kit is a great choice to start in robotics when you are not an expert, it is easy to build and the result is really good.</p> <ul style="list-style-type: none">-- Aluminum extrusion structure.-- Build a Robot Tank or a Three-Wheeled Robot Car-- Easy wiring, no soldering required	




Starter Robot Kit (Bluetooth version)



Vendor	Makeblock
SKU	90020
Release time	September 2014
Target customer	Young Geek
<ul style="list-style-type: none">— This Kit is the improvement version of Starter Robot Kit (IR version), Bluetooth control instead of IR control.— Remote control through App (iOS and Android)— Support Scratch programing and remote control.— Strong aluminum extrusion parts, corrosion resistant(long time to shelve with barely rusting) and beautiful appearance (blue or gold).— Can be used to build a robot tank or a three-wheel robot car, the only limit is your imagination!	

Robot Arm add-on pack for Starter Kit



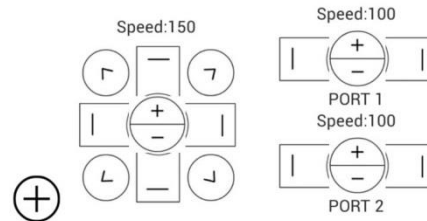
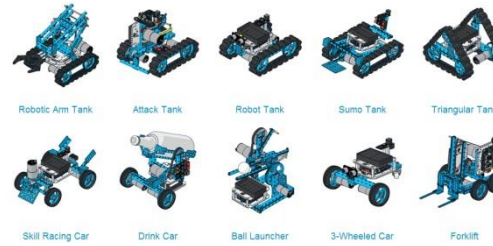
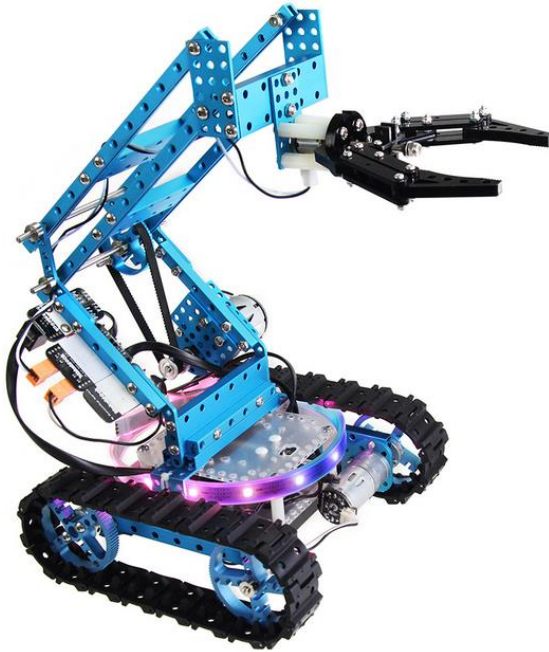
Vendor	Makeblock
SKU	98000
Release time	September 2014
Target customer	Customers who already have a Makeblock Starter Kit
<p>——It is an extension pack to expand on the Makeblock Starter Robot Kit.</p> <p>+  =  or </p> <p>——It contains all the parts needed to build the robotic arm including a DC motor, robot gripper, beams, timing pulleys and hardware.</p> <p>——The arm has up to 500 gram lift capacity. Can make the tank with arm to lift things.</p>	

Inventor Electronic Kit



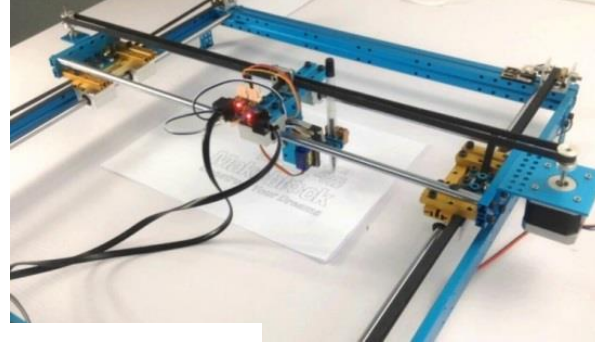
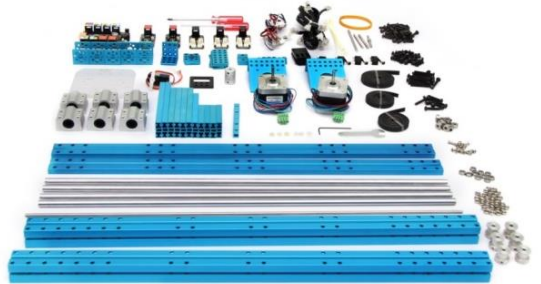
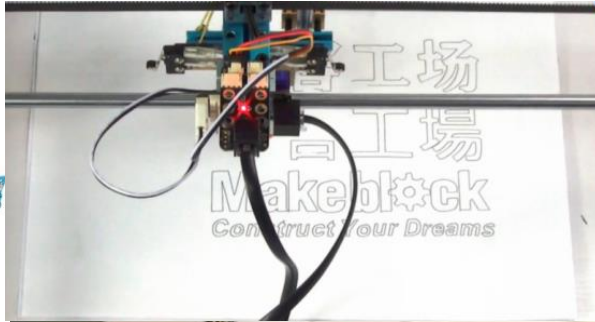
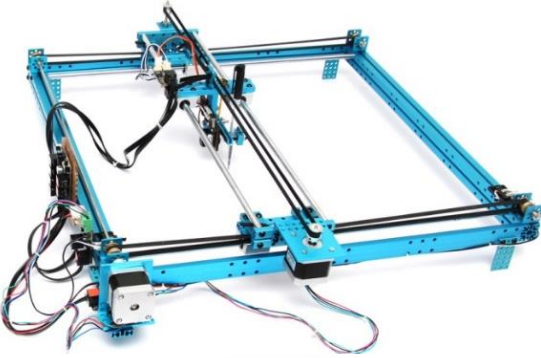
Vendor	Makeblock
SKU	94004
Release time	September 2014
Target customer	Primary school students
Keywords	Kid's first coding kit. STEM education.
Video	https://www.youtube.com/playlist?list=PLuuf1TKEkEqQnAx5ZLADlvib_IUofg5Yb
<p>—— This Kit is suitable for beginners to learn electronics , Scratch and Arduino.</p> <p>—— This is the first Arduino electronic kit that support Scratch programming well.</p> <p>—— Use App (iOS and Android) to interact with electronic modules without coding.</p> <p>—— 14 different type of modules included.</p> <p>——10 interesting application scenarios case included, interesting photos make robot playing more fun.</p>	

Ultimate Robot Kit



Vendor	Makeblock
SKU	90024
Target customer	Makers, Engineers, hobbyist
Slogan	Build your own robot
Video	https://youtu.be/-ZrLiY-qOpE
<p>This is a comprehensive robot kit for makers and DIY hobbyist to explore the robotic world or experts to build complex robots. It contains everything you need to construct your robot dreams: metal geared motors, Arduino-compatible controller, programmable RGB LED strip, different kinds of sensors, robotic gripper and other mechanical parts.</p> <p>--It is great for learning Arduino and Scratch programming. You can control your robot with your smart device through a Bluetooth connection.</p> <p>--In this kit, you can start with the included step-by-step tutorial on building a robotic arm car or visit 3D Model of 10 other robotic projects.</p>	

XY-Plotter Robot Kit v2.0



Vendor	Makeblock
SKU	90014
Target customer	Makers, Engineers, researchers, hobbyist
Video	https://youtu.be/gY0xMYrWBDg

One of the engineers favorite robot kit. It's bought by engineers in Apple, Google, Intel, Microsoft...

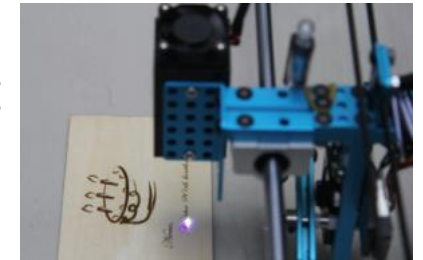
- Can be built into a 2D moving platform.
- Strong aluminum extrusion structure.
- Can be upgrade to laser engraver.

Laser Engraver Upgrade Pack(500mW) for XY-Plotter Robot Kit V2.0:

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--No electronic Version is available, compatible with Arduino electronics.

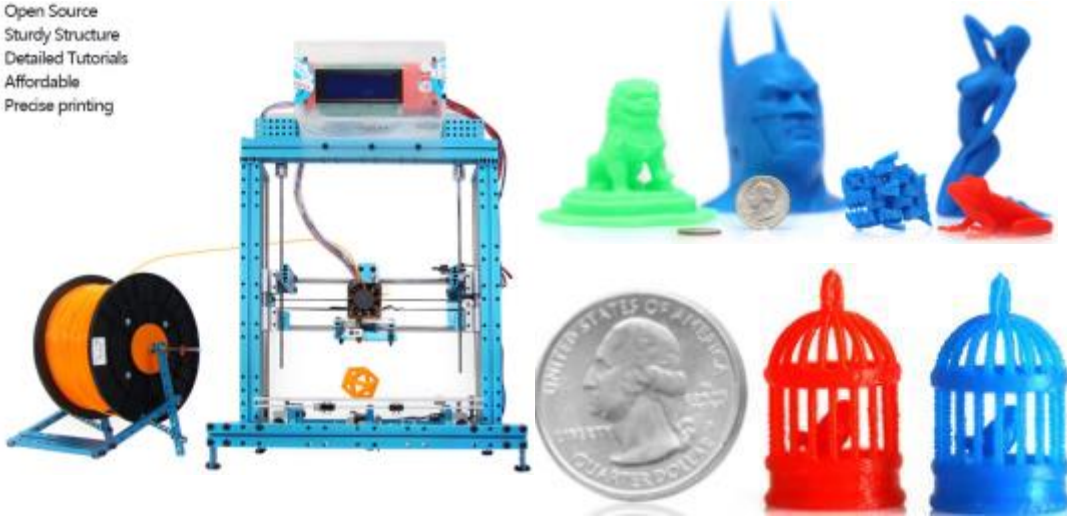
Laser Engraver Upgrade Pack (500mW) for XY plotter 2.0



Vendor	Makeblock
SKU	98004
Release time	October 2014
Target customer	Young Makers and Experienced Makers
<p>This kit is a laser engraving extension kit for XY plotter 2.0.</p> <ul style="list-style-type: none">— Customer can use it to update XY plotter 2.0.— With more simple software operation .— Make the plotting function more powerful, support bitmap and Vector graph.— It can engrave the artwork with wood board, colorful paper cards, dark opaque acrylic, etc., also can cut colorful paper cards, foam papers and some other thin material.	

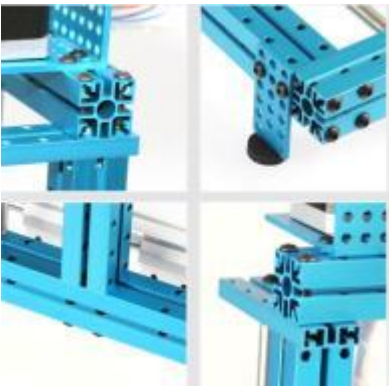
Makeblock Constructor I 3D Printer Kit

- Open Source
- Sturdy Structure
- Detailed Tutorials
- Affordable
- Precise printing



Vendor	Makeblock
SKU	90016
Release time	September 2014
Target customer	Experienced Makers, school, scientific and technical corporation.

- The first DIY 3D printer kit with a lot of customization as customers want, and keep relative high print quality.
- It is the only one robot kit can used to build 3D printer in the open source robot field, also the only one 3D printer which can used to build different robot.
- Come with very detailed assembly guide, bring endless DIY fun for users.
- Based on open source hardware and the Makeblock platform, easy to modify and scalable to fit users project's needs. Reusable parts are interchangeable with other 3D printers and Makblock robot
- With more parts, the 3D printer can turn to be a CNC,XY plotter.



Advanced Robot Kit-Blue (No electronics)



Vendor	Makeblock
SKU	91004
Release time	2013
Target customer	Experienced Makers, school, scientific and technical corporation.

—This kit can be used to build a moving platform, wheeled robot or tracked robot, different wheel configuration and track configuration are available. a robot arm and a robot gripper can be added on the moving robot, there are spare parts for building other kind of structure. The robot arm is driven by a DC motor through timing belt transition mechanism.

— No electronic modules are included, you can combine other Open source electronic parts with Makeblock mechanical parts, Such as Arduino, Raspberry, Seedstudio, Sparkfun and so on.

Endless Possibilities



Company Outline

Name: Maker Works Technology Co.Ltd.,

Brand: **Makeblock**

Product tag: - Open source hardware

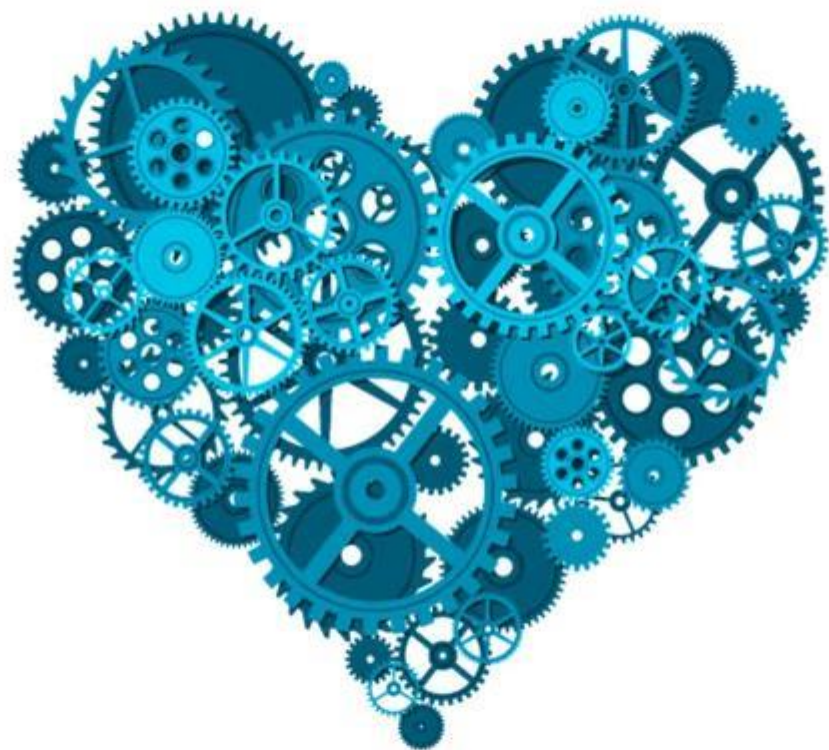
- Robot Platform
- 3d printer
- education robot
- entertainment robot

Team: total **85** staffs (45 in R&D)

Established Time: Mar 2012



News: Makeblock got 6 million USD investment from Sequoia Capital(China) in Dec 2014



Makeblock

Construct Your Dreams

www.makeblock.cc