



Makeblock
Construct Your Dreams

Product Catalogue

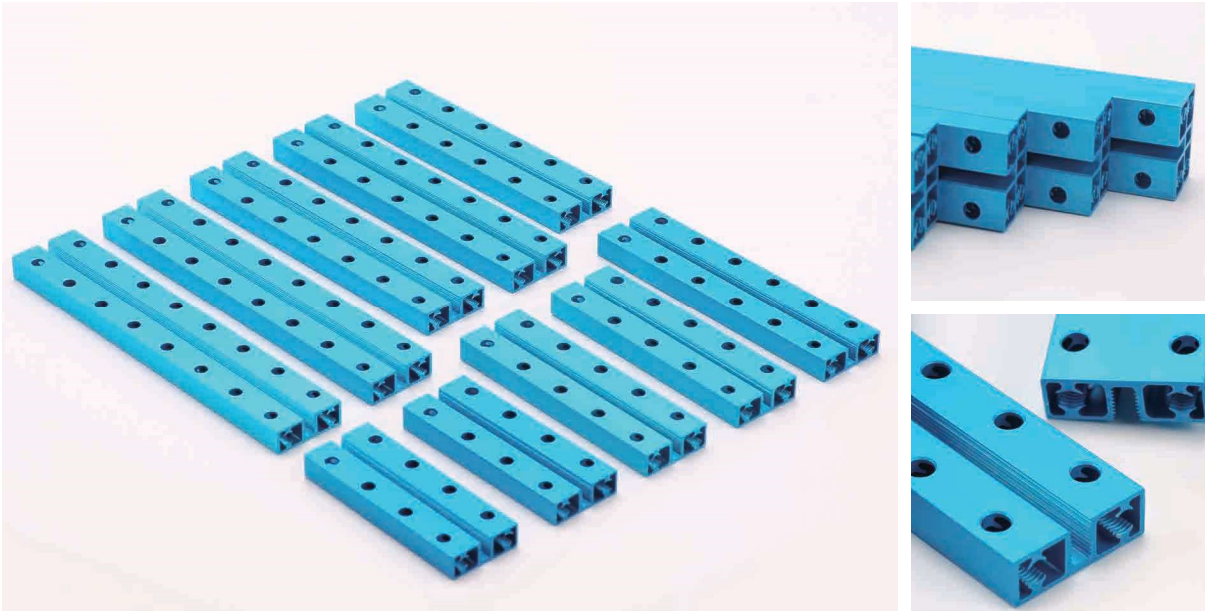
19~29

EXTENSION KITS

Short Beam 0824 Robot Pack - Blue

SKU : 95000

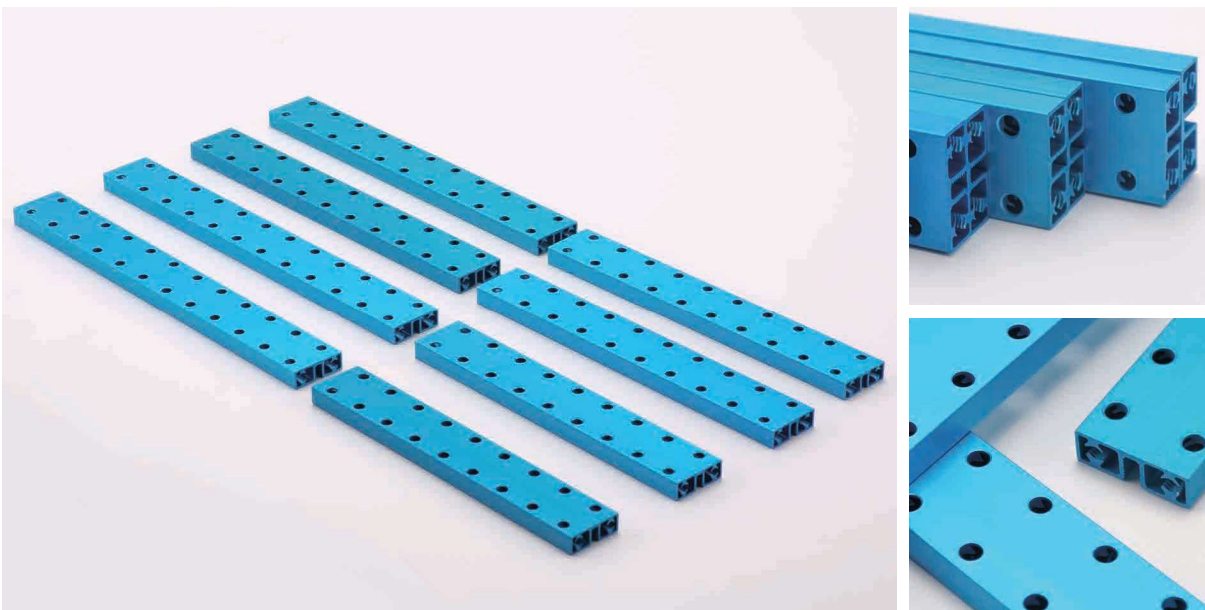
This Beam0824 Pack contains the shorter beams of Beam0824, from 64mm length to 128mm. Total number of beams is 10.



Medium Beam 0824 Robot Pack - Blue

SKU : 95002

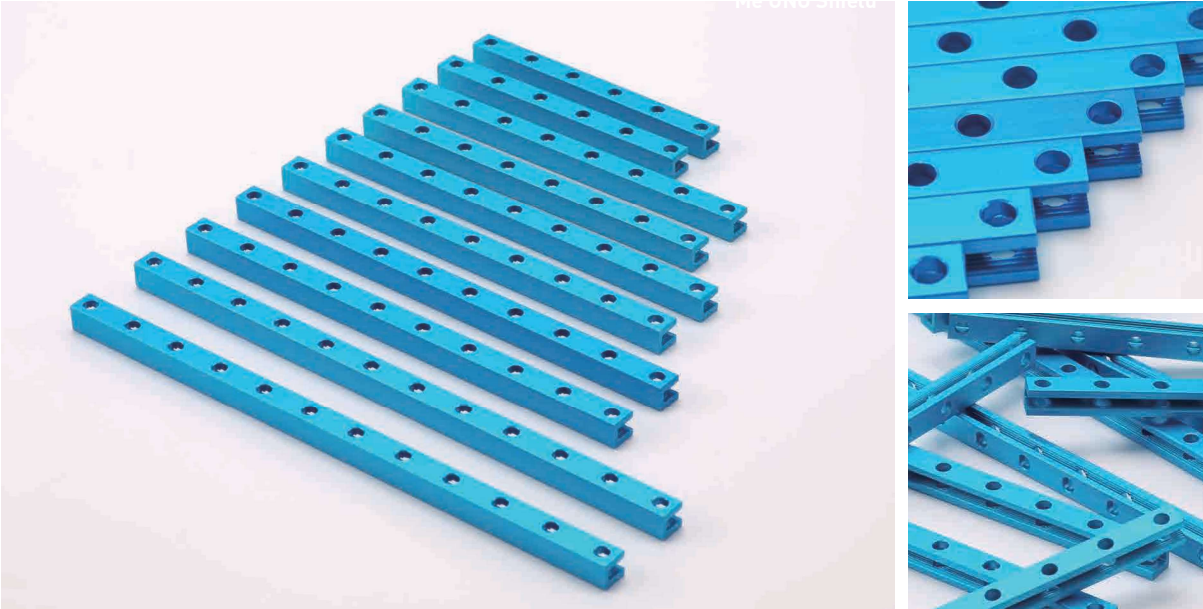
This Beam0824 Pack contains the medium length of Beam0824, from 144mm length to 192mm. Total number of beams is 8.



Beam Robot Pack - Blue

SKU : 95004

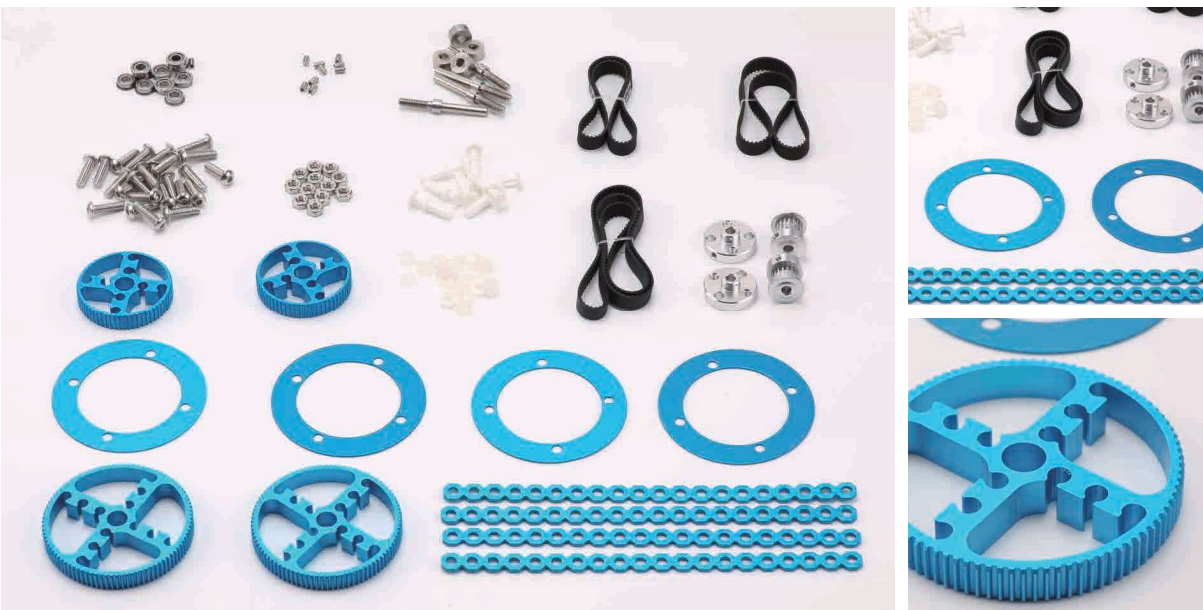
This beam robot pack contains the most frequently used parts in Makeblock platform, which are compatible with most Makeblock motion and structure components.



Robot Motion Pack - Blue

SKU : 95006

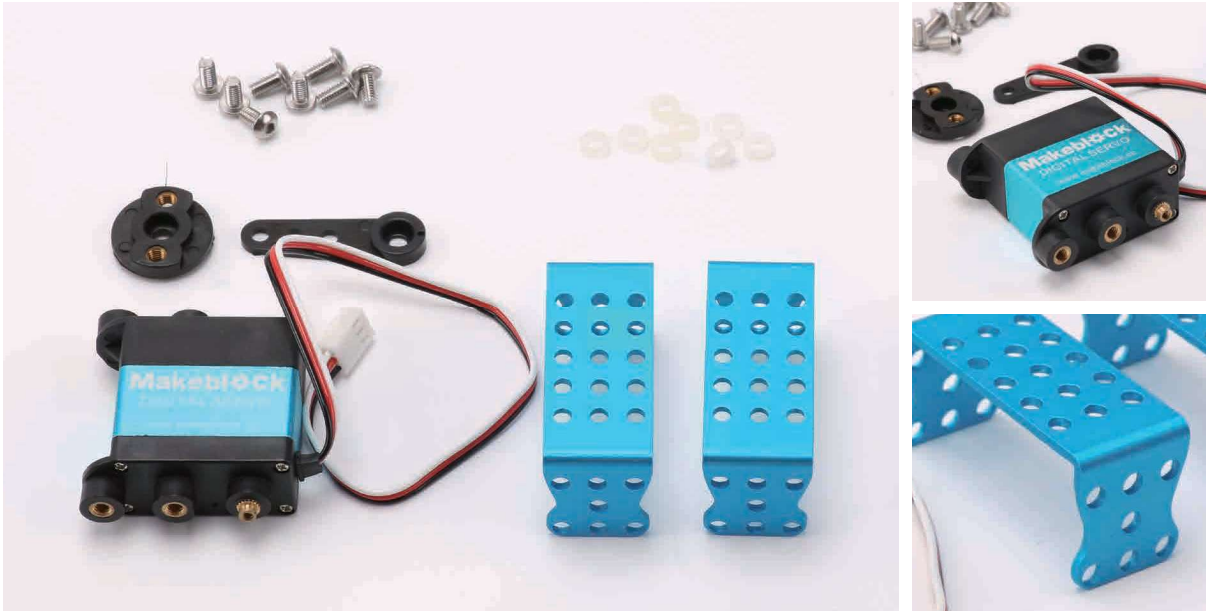
This Kit contains frequently-used parts in building motion mechanisms.



Robot Servo Pack- Blue

SKU : 95008

This Kit contains a Makeblock high torque (15kg.cm) digital servo and 2 servo bracket, with these bracket, it's easy to build a joint for a robot, and also there are a lot of ways to connect the servo with other Makeblock Parts.



25mm DC Motor Pack-Blue

SKU : 95010

A 25mm diameter DC metal geared motor, together with a motor bracket, a shaft connector and a multipurpose wheel. The multipurpose wheel included can be used as a timing pulley, a wheel hub, or a tank wheel.



37mm Dc Motor Robot Pack-Blue

SKU : 95012

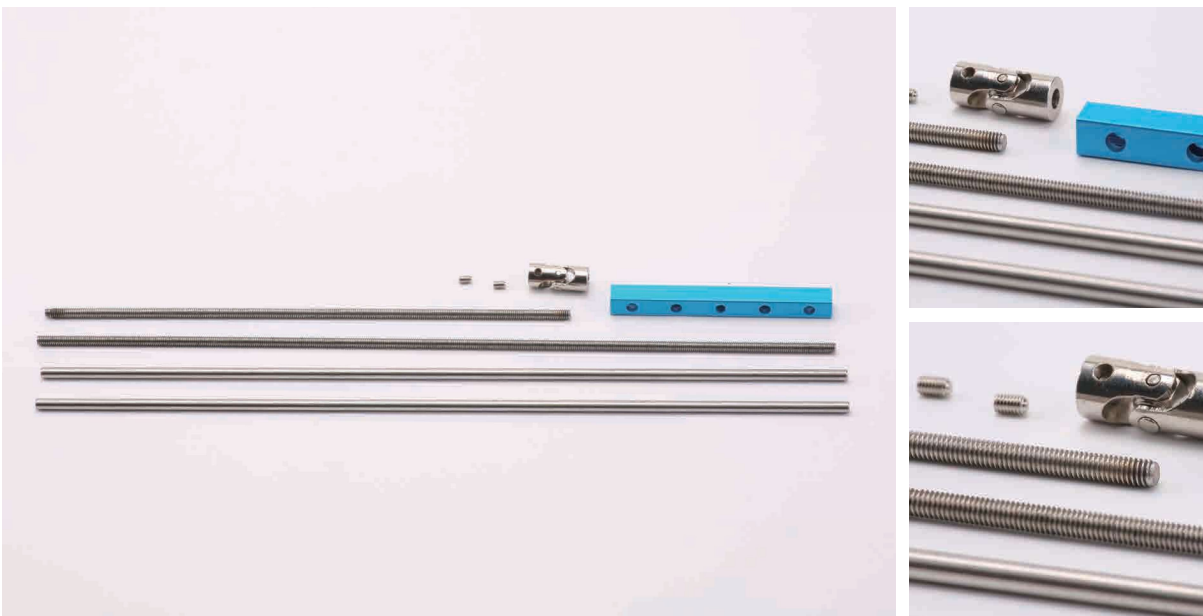
37mm diameter DC metal geared motor, together with a motor bracket, a shaft connector and a multipurpose wheel. The motor bracket included is suitable for 37mm motor and 25mm motor. The multipurpose wheel can be used as a timing pulley, or a wheel hub, a tank wheel.



Thread Drive Pack-Blue

SKU : 95014

This pack included two Fully Threaded Rods, two Linear Motion Shaft, a Universal Joint and a Thread Drive Beam.



Hardware Pack (Nickel-plated Screws)

SKU : 95017

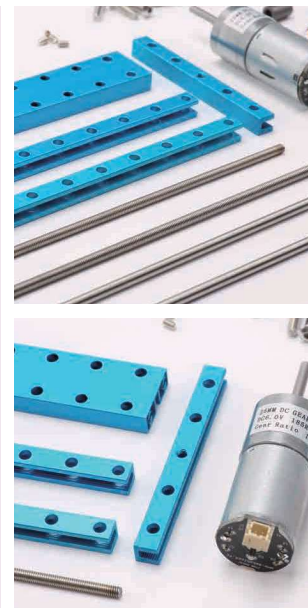
The Makeblock Hardware Robot Pack includes frequently-used hardware in an easily accessible, two-sided component box. The screws in this pack are stainless steel screws that can prevent Oxidation, they have no lubricating on the surface so they look beautiful and clean.



Thread Drive Pack V2.0

SKU : 95022

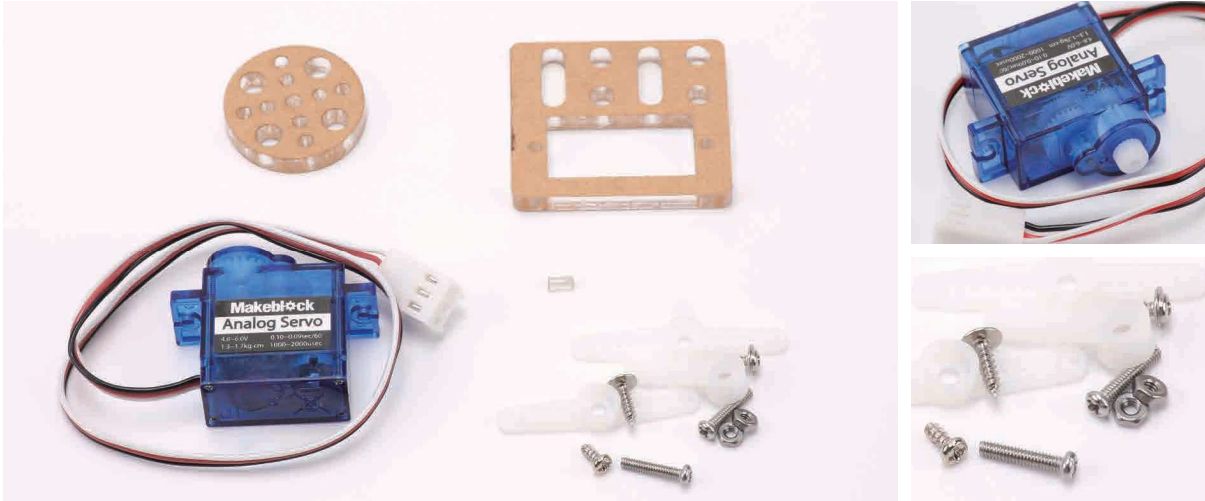
Thread Drive Pack V2.0 is the updated version of Thread Drive Pack V1.0. It can be used to build thread drive system. In this version, all parts in the demo below are included.



9g Micro Servo Pack

SKU : 95026

Makeblock 9g Micro Servo Pack is a servo pack for beginners who like to make stuff move , it contains a 9g servo, a servo hub, a servo bracket and hardwares. The 9g Micro Servo can rotate approximately 180 degrees, and work like a standard servos .With the servo hub and servo bracket, it is convenient to connect the servo with other parts. A Me RJ25 Adapter also helps you to connect the servo with Me Orion easily.



MG995 Standard Servo Pack

SKU : 95029

MG995 Standard Servo Pack contains a MG995 standard servo, a Servo Hub, a servo bracket and some hardwares. MG995 servo is a simple, commonly used standard servo for your mechanical needs. It comes with a standard 3 pin power and control cable for easy using. With the servo hub and servo bracket, it is convenient to connect the servo with other parts. A Me RJ25 Adapter also helps you to connect the servo with Me Orion easily.



Timing Belt Motion Robot Pack-Blue

SKU : 95040

The Makeblock Timing Belt Motion Kit contains frequently-used parts in building motion mechanisms.



Rectilinear Motion Robot Pack

SKU : 95043

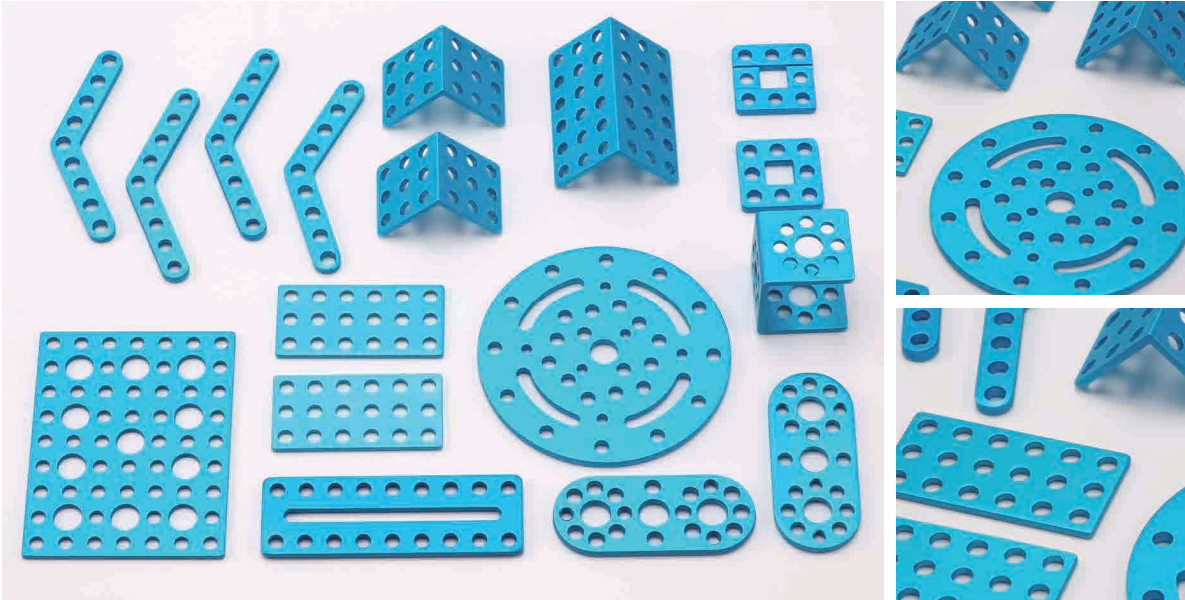
The Makeblock Rectilinear Motion Robot Pack contains four kinds of Makeblock components, mainly used to build linear motion mechanisms. For example, attach a nylon pulley to Makeblock beams to give your robot a smooth linear motion.



Bracket Robot Pack-Blue

SKU : 95045

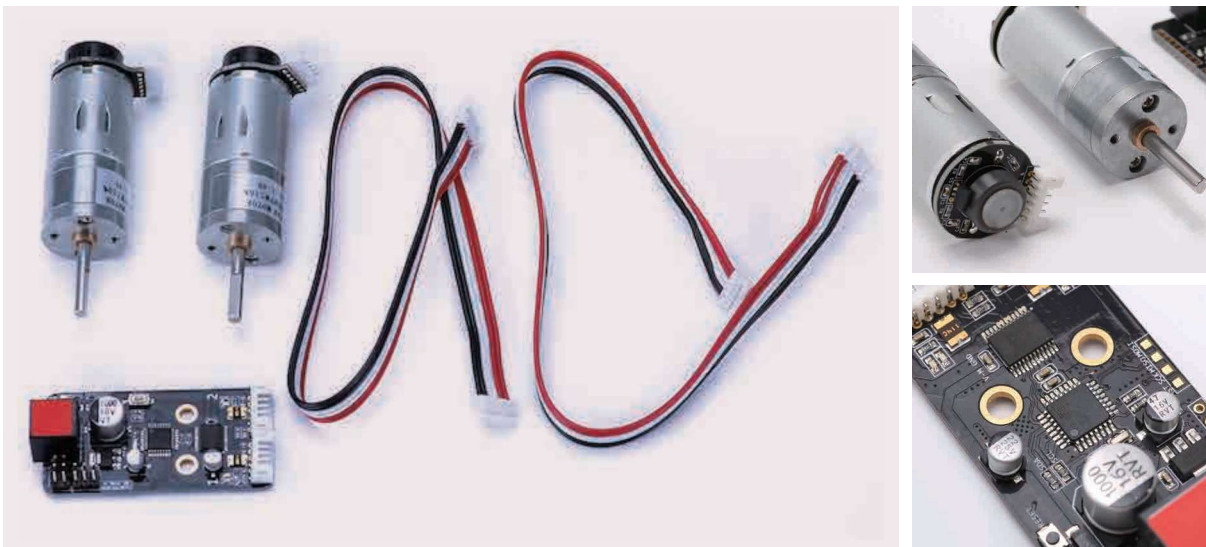
The Makeblock Bracket Robot Pack contains most frequently-used brackets and plates in Makeblock platform, which you can use to make special constructions.



Optical Encoder Motor Pack-25mm

SKU : 95051

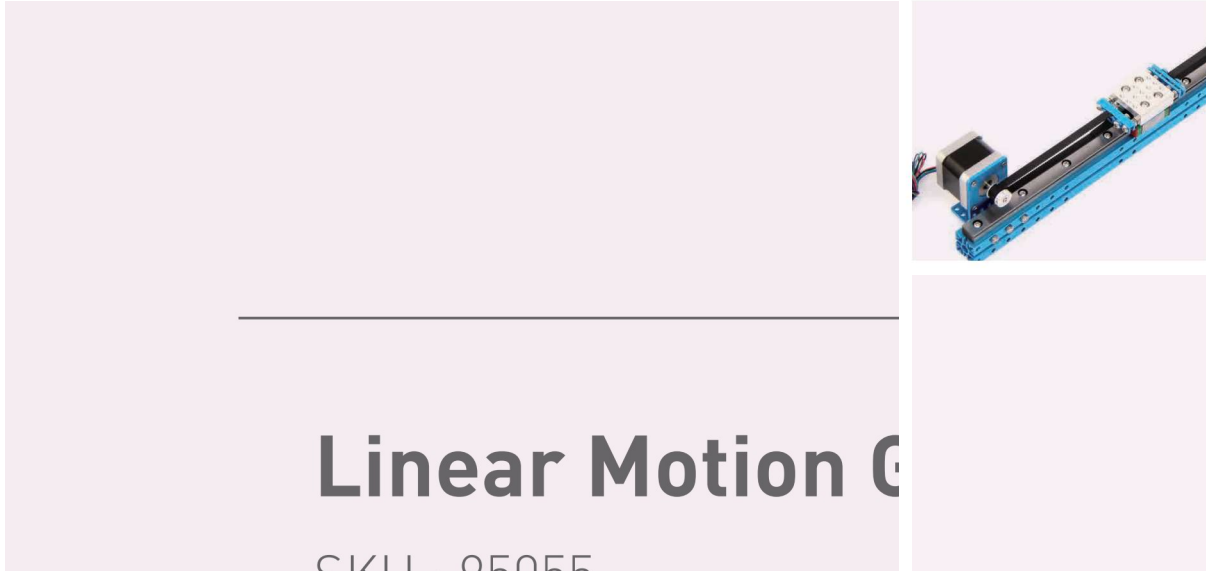
Me Encoder Motor Driver can control up to 2 DC Encoder Motor. Precise speed and position of 2 motors can be set and get separately. The motor driver IC is TB6612, same as Me Dual DC Motor Driver. We provide a software for tuning P-I-D parameters of the driver, so that it could work well in different conditions. The reduction-gear ratio of the motor is about 46. You can also edit the reduction-gear ratio in the software.



Linear Motion Guide Module Pack - Blue

SKU : 95055

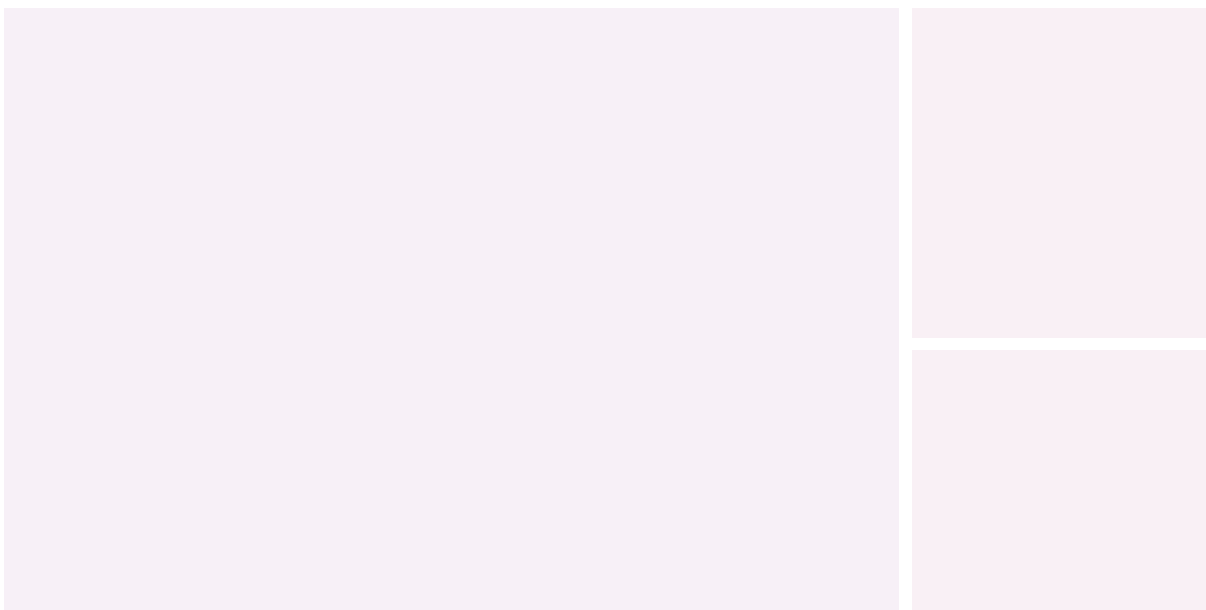
Makeblock Linear Motion Guide Module Pack is a ball linear guide which can be assembled as a linear motion guide robot. The pack can be assembled as a linear motion guide with electronic or without electronic. It is to support and guide the moving parts, meanwhile transform circular motion to linear motion, such as 3D printer, CNC machine. Please refer to below image of 3D printer with 4 Linear Motion Guide Modules.



Pneumatic Parts Connector Pack

SKU : 95060

Makeblock Pneumatic Parts Connector Pack includes 3 types of frequently-used pneumatic connectors: 2 x $\phi 4$ T-Coupling, 1 x $\phi 6 - \phi 4$ Reducing T-Coupling, and 1 x $\phi 4$ Cross Four-Way Connector.



Solenoid Valve (3/2way)Pack

SKU : 95061

Makeblock 3/2way solenoid valve is usually used with a single acting pneumatic actuator. Two-position means two controllable positions and three-way means that there are three air channels, one of which is connected with the air supply in general, one of the other two of which is connected with the air inlet of the actuator and the other connected with the air outlet of the actuator. Energize the coil and then the air circuit is connected. Deenergize the coil and then the air circuit is disconnected.



Solenoid Valve (5/2way)Pack

SKU : 95062

The 5/2way solenoid valve is usually used with a double-acting pneumatic actuator. It controls positive or negative direction of movement via powering on/off. The 5/2 way solenoid valve comes with M5 threaded straight hole and works well with $\phi 4$ pneumatic air tube.



100mm Mecanum Wheel Set with 4mm Shaft Connector

SKU : 95064

Mecanum wheels allow your robot to not only travel forward and backward, but also side to side. With 4 mecanum wheels, you can build a carrobot that can move in all direction.

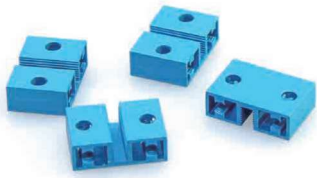


30~45

MECHANICAL
PARTS

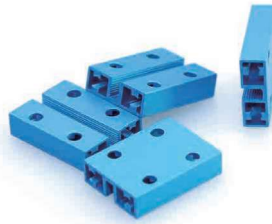
Beam0824-016-Blue (4-Pack)

SKU: 60000



Beam0824-032-Blue (4-Pack)

SKU: 60004



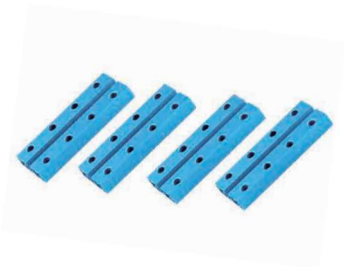
Beam0824-048-Blue (4-Pack)

SKU: 60008



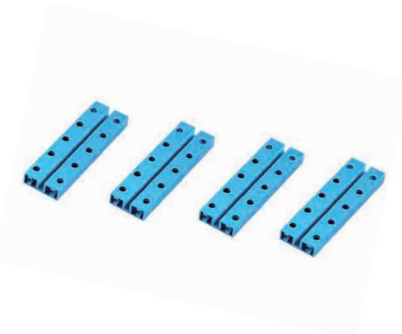
Beam0824-064-Blue (4-Pack)

SKU: 60012



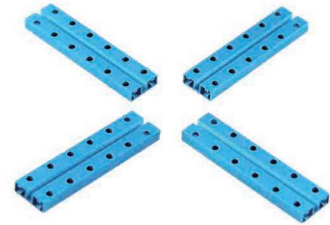
Beam0824-080-Blue (4-Pack)

SKU: 60016



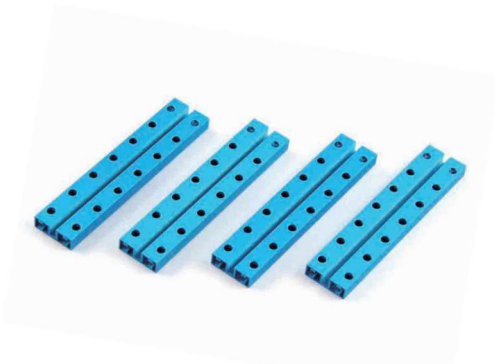
Beam0824-096-Blue (4-Pack)

SKU: 60020



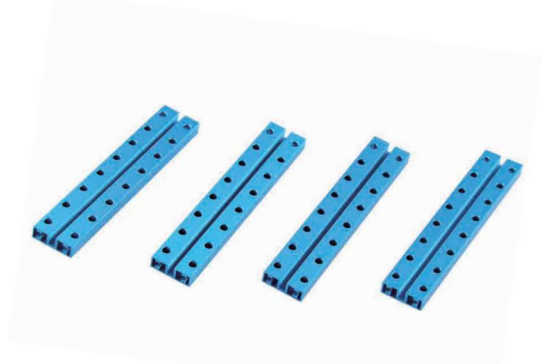
Beam0824-112-Blue (4-Pack)

SKU: 60024



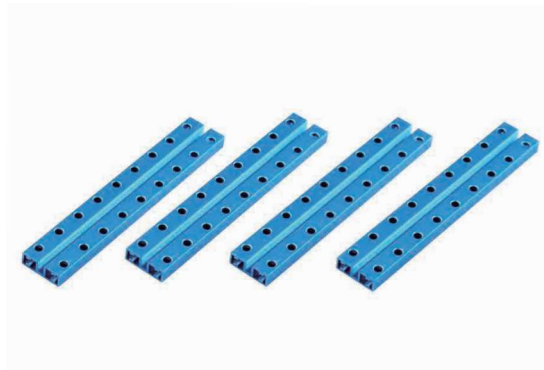
Beam0824-128-Blue (4-Pack)

SKU: 60028



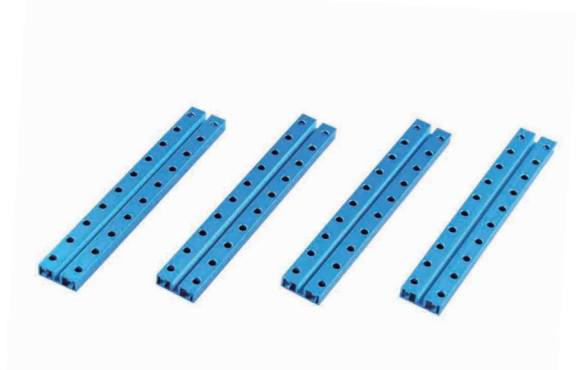
Beam0824-144-Blue (4-Pack)

SKU: 60032



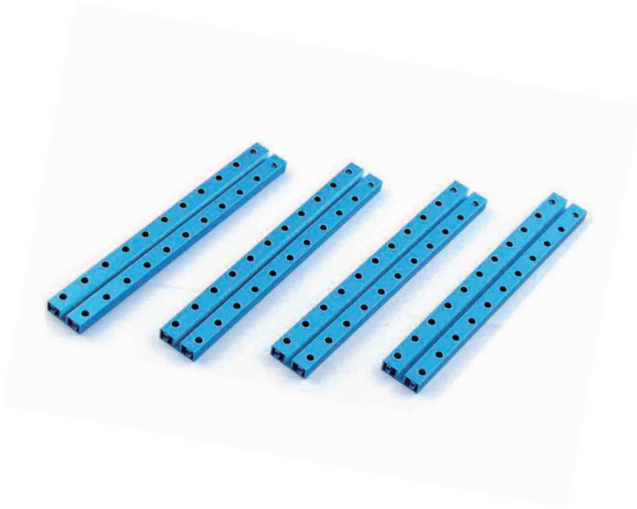
Beam0824-160-Blue (4-Pack)

SKU: 60036



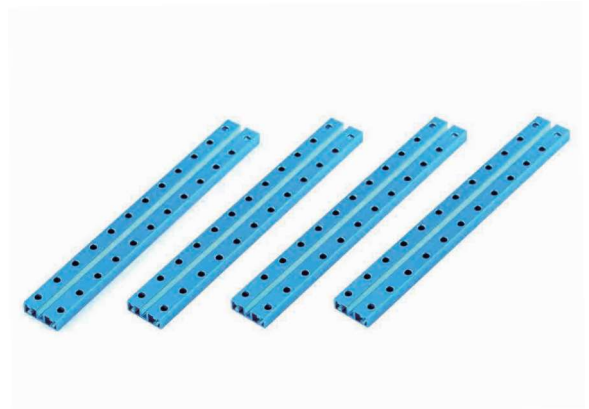
Beam0824-176-Blue(4-Pack)

SKU: 60040



Beam0824-192-Blue(4-Pack)

SKU: 60044



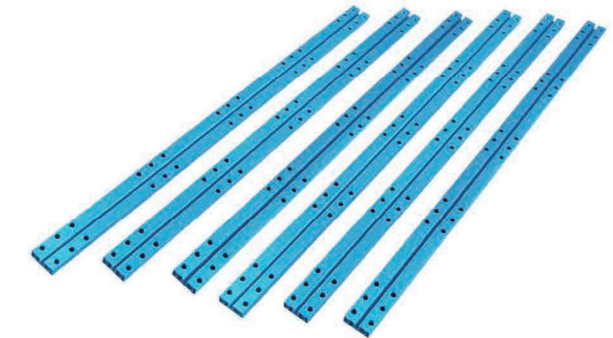
Beam0824-320-Blue(Pair)

SKU: 60076



Beam0824-496-Blue(6-Pack)

SKU: 60120



Beam0808-024-Blue (4-Pack)

SKU: 60504



Beam0808-040-A-Blue (4-Pack)

SKU: 60508



Beam0808-040-B-Blue(4-Pack)

SKU: 60510



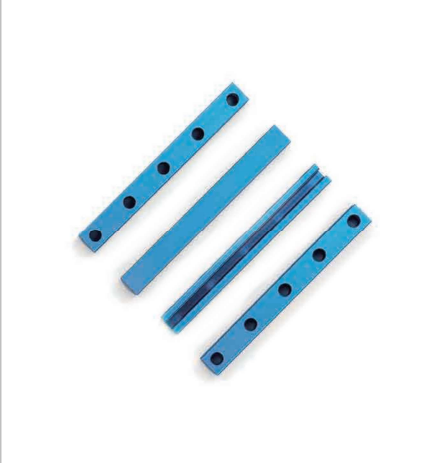
Beam0808-056-Blue (4-Pack)

SKU: 60512



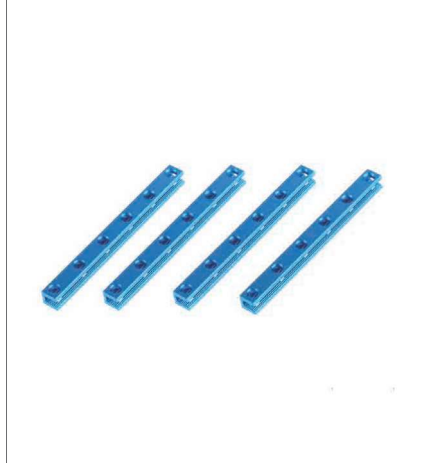
Beam0808-072-Blue (4-Pack)

SKU: 60516



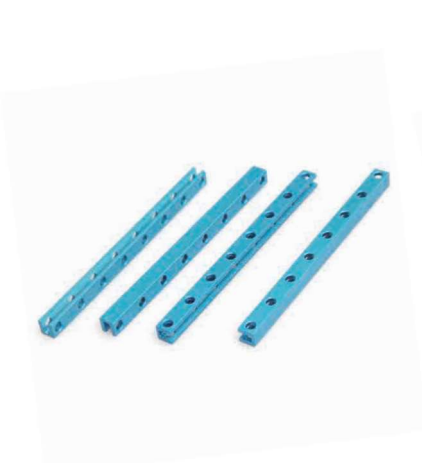
Beam0808-088-Blue (4-Pack)

SKU: 60520



Beam0808-120-Blue (4-Pack)

SKU: 60528



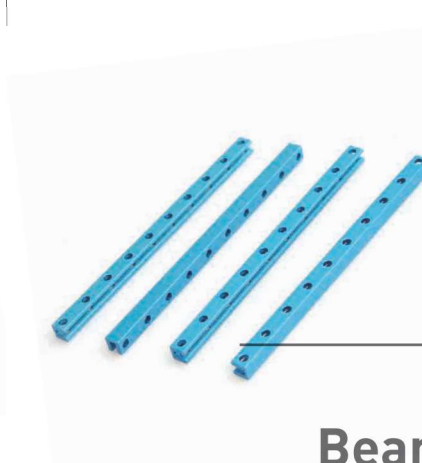
Beam0808-136-Blue (4-Pack)

SKU: 60532



Beam0808-152-Blue (4-Pack)

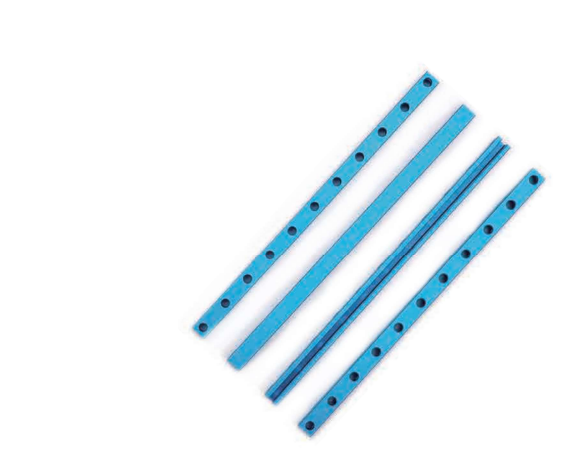
SKU: 60536



Beam0

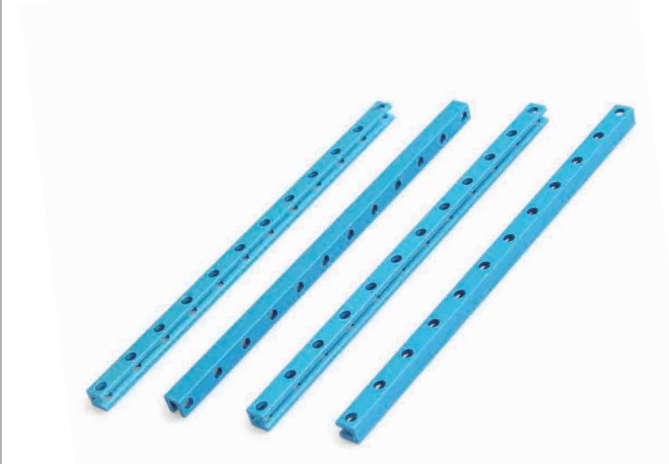
Beam0808-168-Blue (4-Pack)

SKU: 60540



Beam0808-184-Blue(4-Pack)

SKU: 60544



Beam0808-312-Blue (Pair)

SKU: 60576



Beam0808-504-Blue (Pair)

SKU: 60624



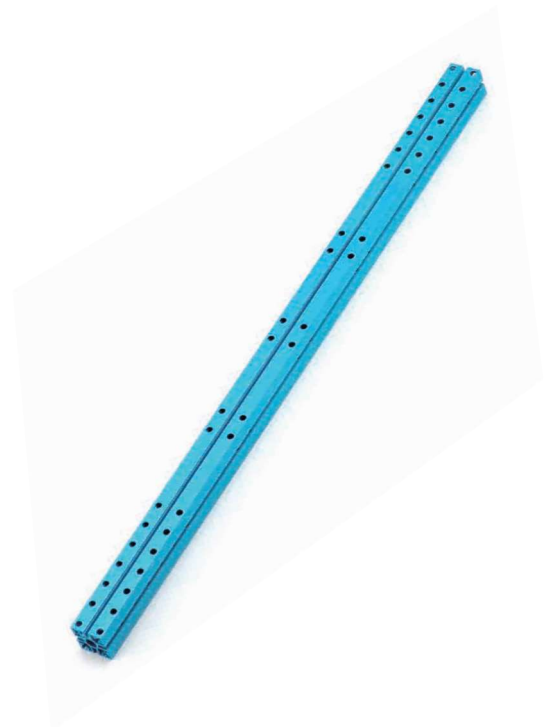
Beam2424-312-Blue (Single Pack)

SKU: 60872



Beam2424-504-Blue (Single Pack)

SKU: 60920



Thread Drive Beam M4*40 (Pair)

SKU: 61110



DC Motor-25 9V/185RPM

SKU: 80038



DC Motor-25 9V/30RPM

SKU: 80044



DC Motor-25 9V/86RPM

SKU: 80041



DC Motor-25 9V/325RPM

SKU: 80035



DC Motor-25 9V/700RPM

SKU: 80032



DC Encoder Motor-25 6V/185RPM

SKU: 80086



DC Motor-37 12V/50RPM

SKU: 80402



DC Motor-37 12V/200RPM

SKU: 80417



**36 DC Geared Motor
12V/240RPM**

SKU: 80501



MECHANICAL PARTS

MG995 Standard Servo

SKU: 80801



MEDS15 Servo Motor

SKU: 80802



42BYG Stepper Motor

SKU: 81042



57BYG Stepper Motor

SKU: 81057



820 Coreless Motor (Pair)

SKU: 81300



555 High-Speed CNC motor 24V/10000RPM

SKU: 81310



DC Motor-25 Bracket B-Blue (Pair)

SKU: 61802



DC Motor-37 Bracket-Blue (Pair)

SKU: 61804



42BYG Stepper Motor Bracket B-Blue

SKU: 62003



Bracket P1-Blue (Pair)

SKU: 62400



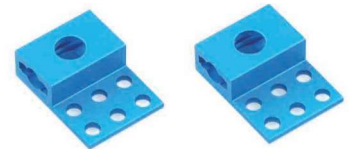
MEDS15 Servo Motor Bracket-Blue(Pair)

SKU: 62208



Bracket P3-Blue(Pair)

SKU: 62404



57BYG Stepper Motor Braket pack-Black

SKU: 62040



Servo Bracket A

SKU: 62216



Linear Motion Block Bracket A

SKU: 62412



3D Printer nozzle Bracket A

SKU: 62414



MECHANICAL PARTS

Plate 3*6-Blue(4-Pack)

SKU: 61200

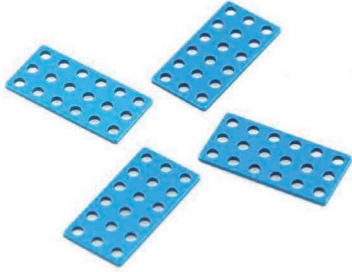


Plate 7*9 B-Blue (Pair)

SKU: 61210

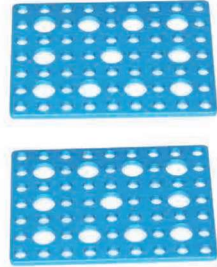


Plate I1-Blue (Pair)

SKU: 61216



Plate O1-Blue (Pair)

SKU: 61220



Disc D72-Blue (Pair)

SKU: 61354



Plate 45°-Blue (Pair)

SKU: 61400



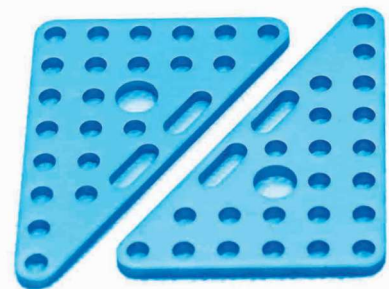
Plate A-Blue(Pair)

SKU: 61404



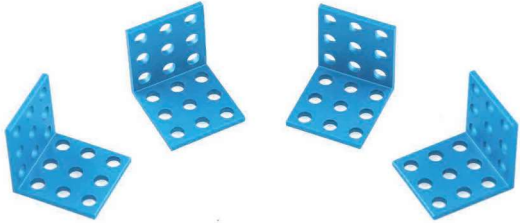
Triangle Plate 6*8 (Pair)

SKU: 61408



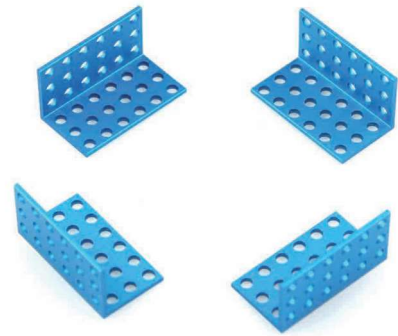
Bracket 3*3-Blue (4-Pack)

SKU: 61500



Bracket 3*6-Blue(4-Pack)

SKU: 61508



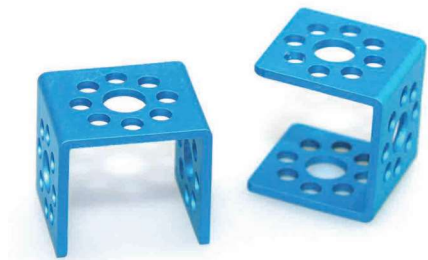
Bracket L1-Blue (Pair)

SKU: 61512



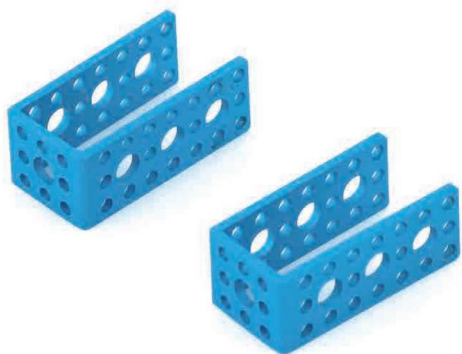
Bracket U1-Blue (Pair)

SKU: 61516



U Bracket B-Blue

SKU: 61520



MG995 Servo Hub

SKU: 69001



MECHANICAL PARTS

HE* Allen Key 1.5mm(Pair)

SKU: 70002



**Headless Set Screw
M3*5(50-Pack)**

SKU: 70512



**Socket Cap Screw
M4*8-Button Head (50-Pack)**

SKU: 70552



**Socket Cap Screw
M4*14-Button Head (50-Pack)**

SKU: 70555



**Socket Cap Screw
M4*16-Button Head (50-Pack)**

SKU: 70558



**Socket Cap Screw
M4*22-Button Head (50-Pack)**

SKU: 70561



**Socket Cap Screw
M4*30-Button Head (25-Pack)**

SKU: 70564



**Socket Cap Screw
M4*35-Button Head (25-Pack)**

SKU: 70567



Nut 4mm(50-Pack)

SKU: 71002



**Nylon Lock Nut 4mm
(50-pack)**

SKU: 71004



**Plastic Rivet R4060
(50-Pack)**

SKU: 71543



**Socket Cap Screw
M4*40-Button Head (25-Pack)**

SKU: 70570



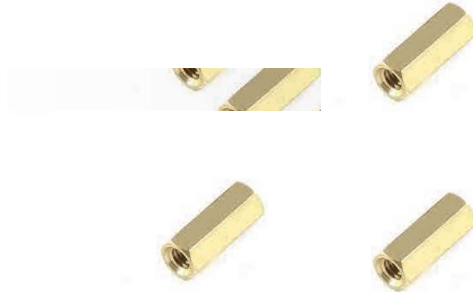
Brass Stud M4*8+6(10-Pack)

SKU: 71942



Brass Stud M4*16(10-Pack)

SKU: 71944



Cross & 2.5mm HE* Screwdriver

SKU: 70015



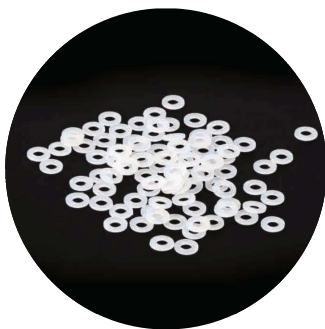
DC Frame Type Solenoid HCNE1-0530

SKU: 81500



Plastic Spacer 4*8*1(100-Pack)

SKU: 72341



Plastic Spacer 4*7*2(100-Pack)

SKU: 72342



Plastic Rivet R4120(50-Pack)

SKU: 71546



MECHANICAL PARTS

Timing Pulley 18T(Pair)

SKU: 83002



Timing Pulley 32T(Pair)

SKU: 83005



Timing Pulley 62T-Blue (4-Pack)

SKU: 83008



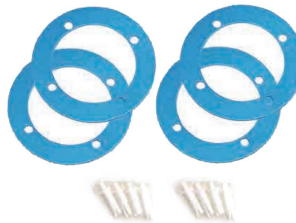
Timing Pulley 90T-Blue (4-Pack)

SKU: 83016



Timing Pulley Slice 90T B-Blue(4-Pack)

SKU: 83022



Timing Belt 123T(Pair)

SKU: 83040



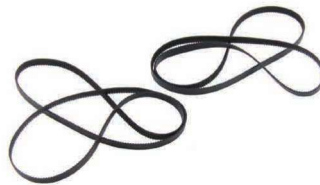
Timing Belt 216T(Pair)

SKU: 83042



Timing Belt 378T(Pair)

SKU: 83044



Timing Belt (2m), Open-end

SKU: 83046



Timing Belt (5m), Open-end

SKU: 83048



Belt Connector Blue (Pair)

SKU: 83090



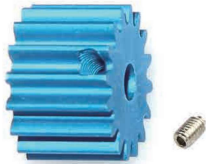
Belt Connector B

SKU: 83092



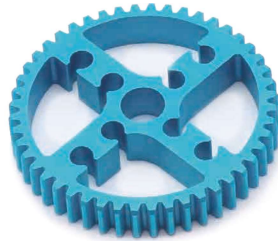
Gear 16T

SKU: 83410



Gear 48T

SKU: 83420



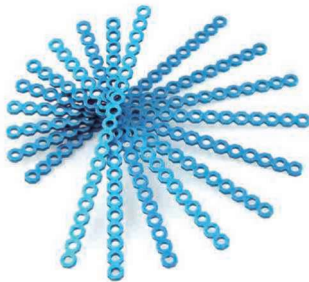
Gear 80T

SKU: 83430



**Cuttable Linkage Blue
(10-Pack)**

SKU:84420



**Thread Drive Beam
M4*80-Blue (Pair)**

SKU: 84004



**Fully Threaded Rod
M4*288mm (Pair)**

SKU: 84044



**Threaded Shaft
4*39mm(4-Pack)**

SKU:85008



**Linear Motion Slide
Unit 8mm (Pair)**

SKU: 86050



**Linear Motion
Shaft D8*312mm-H**

SKU: 85421



MECHANICAL PARTS

D Shaft 4*56mm (4-Pack)

SKU: 85001



D Shaft 4*128mm

SKU:85003



D Shaft 4*160mm (4-Pack)

SKU: 85004



Linear Motion Shaft D4*240mm

SKU: 85407



Linear Motion Shaft 4*288mm (4-Pack)

SKU: 85020



Shaft D8*96mm

SKU: 85403



Shaft D8*96mm-H

SKU: 85404



Shaft D8*128mm

SKU:85405



Shaft D8*128mm-H

SKU: 85406



Linear Motion Shaft D8*312mm-H

SKU: 85412



Linear Motion Shaft D8*272mm-H

SKU: 85408



Linear Motion Shaft D8*400mm-H

SKU: 85416



Universal Joint 4*4mm

SKU: 84700



Flexible coupling 4*4mm

SKU:84720



Shaft Connector 4mm(Pair)

SKU: 84740



Shaft Collar 4mm(10-Pack)

SKU:84750



Shaft Collar 8mm

SKU: 84754



Shaft Clamping Hub 8mm

SKU: 84780



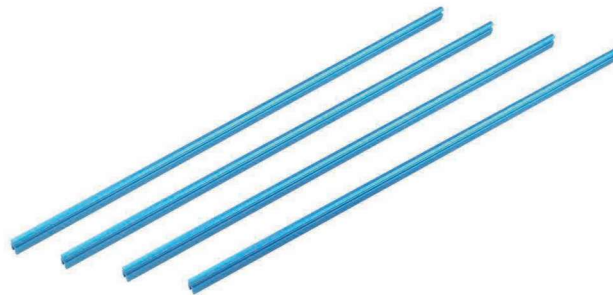
Slider256Blue(4-Pack)

SKU: 86004



Slider496Blue(4-Pack)

SKU:86008



Linear Motion Guide Rail 496mm (Single Pack)

SKU: 86020



Linear Motion Block (Single Pack)

SKU: 86060



Robot Gripper-Black

SKU: 86502



MECHANICAL PARTS

Caster Wheel(Pair)

SKU: 87000



Tyre 68.5*22mm(4-Pack)

SKU:87030



Track With Track A*le(40-Pack)

SKU: 87050



Nylon Pulley with bearing (4-Pack)

SKU:87300



Female Rod End Bearing 4mm (3-Pack)

SKU: 87301



Male Rod End Bearing 4mm (3-Pack)

SKU: 87302



8mm Bearing Bracket A

SKU: 87303



Flange Bearing 4*8*3mm (10-Pack)

SKU:87330



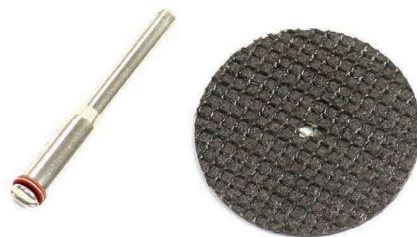
V-slot Bearing(4-Pack)

SKU: 87370



Electric Grinder cut sheet

SKU: 89001



High-Speed Steel Saw

SKU: 89002



46~55

ELECTRONIC
MODULES

Megapi

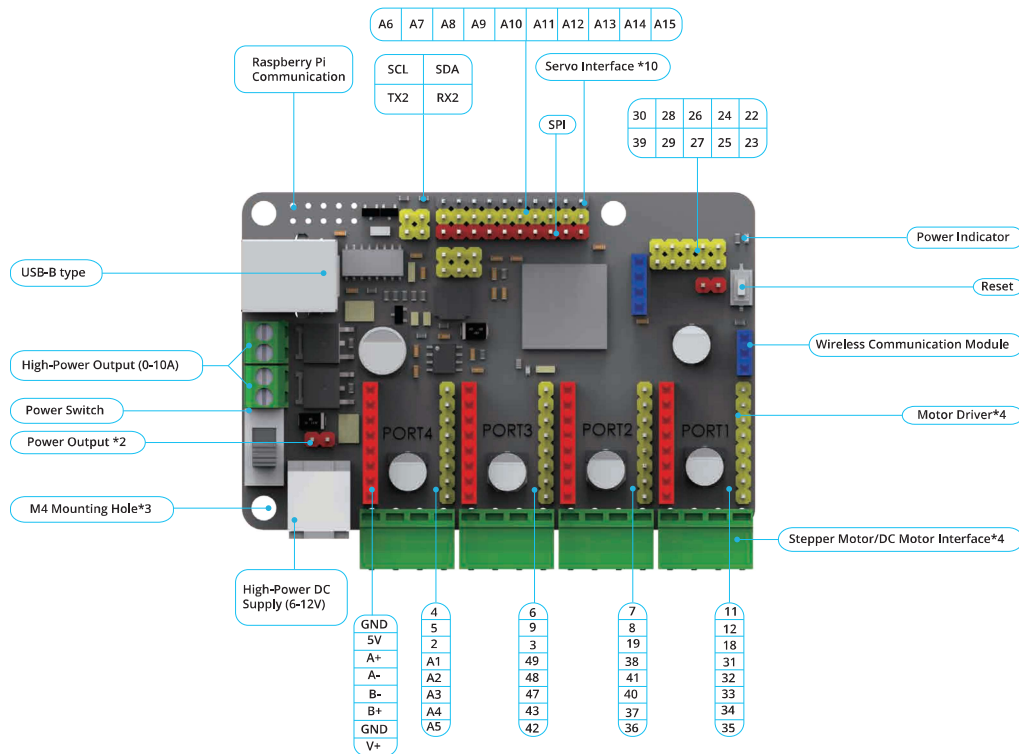
SKU : 10050

The Most Powerful Main Control Board In Motion Control.



- MegaPi is mainboard based on the ATmega2560. And it can be programmed with the Arduino Software (IDE). MegaPi comes with a 16 MHz crystal oscillator and a USB connection to download programs.
- It has two high-power output interfaces which have a maximum output current of 10A. MegaPi is the recommended board for various application scenes, such as 3D printer, CNC and robotic projects. Moreover, MegaPi can also be applied in education, game and entertainment field.
- MegaPi has the same size as Raspberry Pi. With the support of serial ports and programs, Raspberry Pi then will be able to drive motors and sensors.

Mainboard structure



The various colors on MegaPi represents s

- Red pin--power output/motor output
- Blue pin--wireless communication interface
- Green pin--motor/power output
- Yellow pin--I/O pin
- Black pin--power GND

Technical Specifications

Microcontroller chip	ATMEGA2560-16AU
Input Voltage	DC 6V-12V
Operating Voltage	DC 5V
I/O Pins	43
Serial Ports	3
I2C Interface	1
SPI Interface	1
Analog Input Pins	15
DC Current per I/O Pin	20mA
Flash Memory	256KB
SRAM	8KB
EEPROM	4KB
Clock Speed	16 MHz
Dimension	85*63mm

Features

- Four motor driver interfaces for adding encoder motor driver and stepper motor driver, and thus to drive DC motors, encoder motors and stepper motors;
- One wireless communication interface for adding Bluetooth module or 2.4G module;
- Ten servo interfaces which enable the board to drive up to 10 servos at the same time;
- Two high-power MOS driver interface which is able to drive devices with a maximum current of 10A. Maximum output: DC 5V 3A;
- One Raspberry Pi switch interface (requires manual soldering) to realize 5V to 3.3V serial communication;
- Three M4 mounting holes which allow the board to be connected with Raspberry Pi; Slide switch for controlling the power supply;
- B-type USB interface for downloading programs and communications. It uses the CH340G USB to serial chip which can realize communication between the computer and MegaPi easily and stably;
- High-power DC input interface with an over-current protection of 2A and anti-reverse measurement;
- One reset key, one power indicator (red) and one I/O indicator (blue).

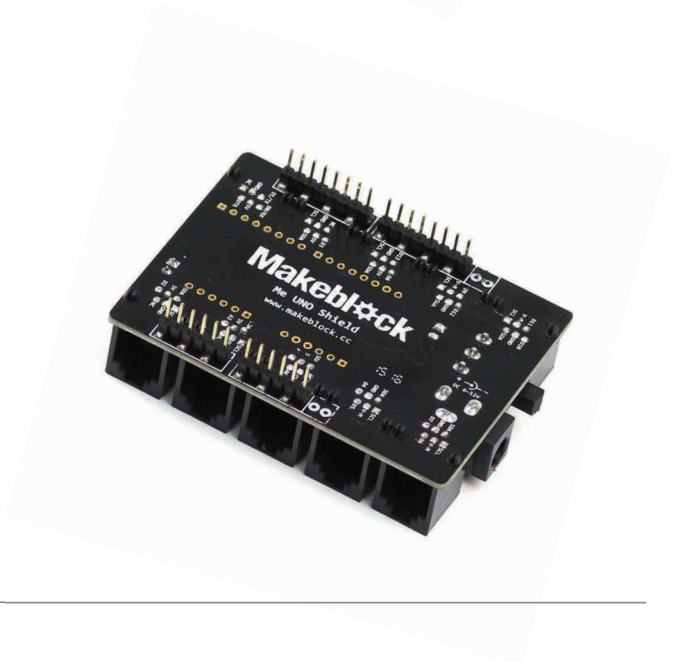
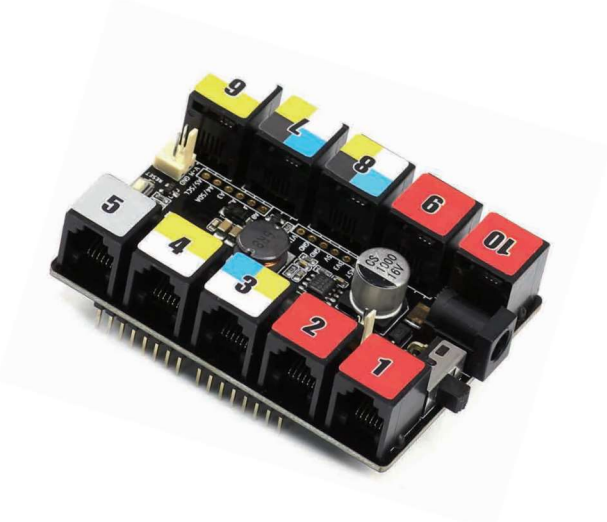
Me Orion

SKU: 10021



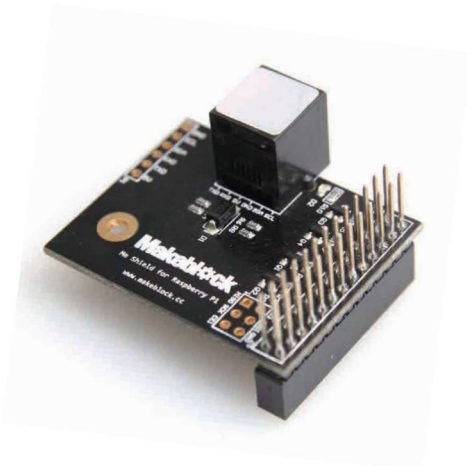
Me UNO Shield

SKU: 10031



Me Shield for Raspberry Pi

SKU: 10504



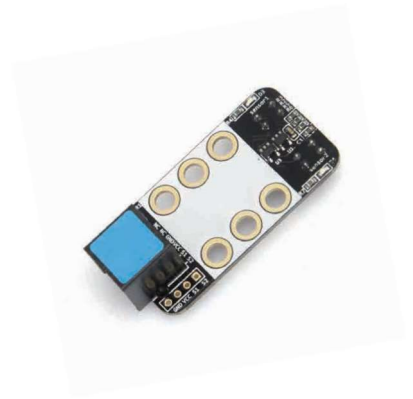
Me Ultrasonic Sensor

SKU: 11001



Me Line Follower

SKU: 11005



Me Light Sensor

SKU: 11007



Me Sound Sensor

SKU: 11008



Me PIR Motion Sensor

SKU: 11010



Me 3-Axis Accelerometer and GYRO Sensor

SKU



Me Temperature Sensor-Waterproof

SKU: 11014



Me Touch Sensor

SKU: 11020



Me Compass

SKU: 11024



Me 2H Microstep Driver

SKU: 12008



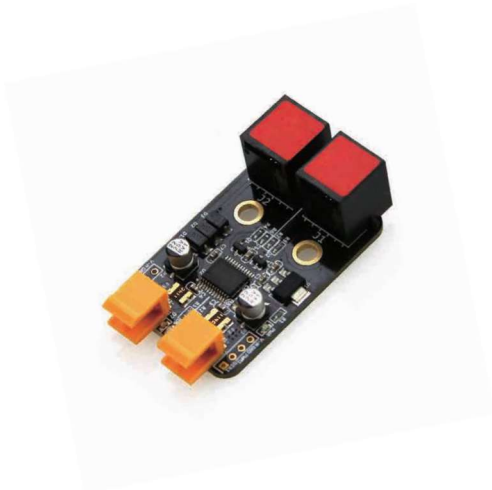
Me Stepper Motor Driver

SKU: 12009



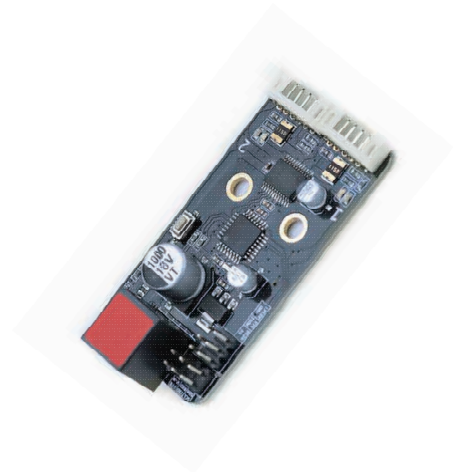
Me Dual DC Motor Driver

SKU: 12015



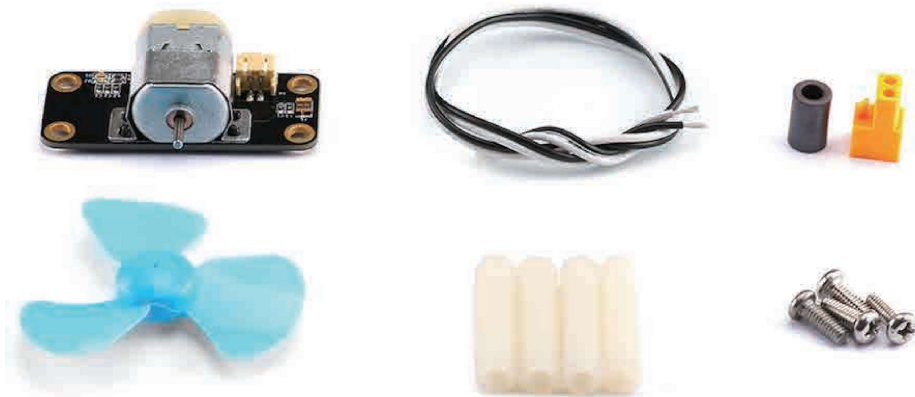
Me Encoder Motor Driver

SKU: 12020



Me 130 DC Motor Pack

SKU: 12802



Me Bluetooth Module (Dual Mode)

SKU: 13002



Me Infrared Receiver Decode

SKU: 13005



Me USB Host

SKU: 13010



Me Wifi Module

SKU: 13020



2.4G Wireless Serial for mBot

SKU: 13030



Bluetooth Module for mBot

SKU: 13035



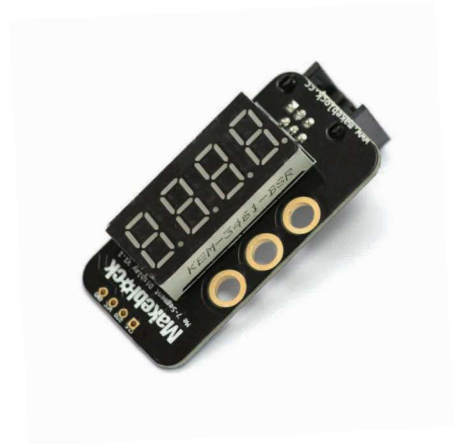
Me RGB LED

SKU: 13400



Me 7-segment serial display-Red

SKU: 13402



LED RGB Strip-Addressable, Sealed(0.5M)

SKU: 13404



LED RGB Strip-Addressable, Sealed(1M)

SKU: 13406



Me TFT LCD Screen - 2.2 Inch

SKU:



Base Bracket B

SKU: 14403



Me micro Switch A

SKU: 13600



Me 4 Button

SKU: 13602



Me Joystick

SKU:



Me Potentiometer

SKU: 13604



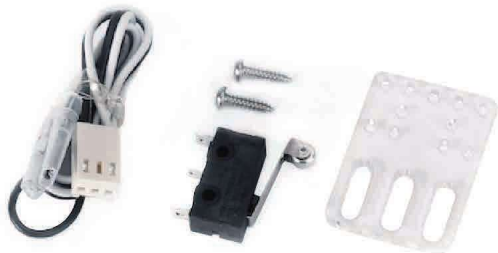
Me Shutter

SKU: 13605



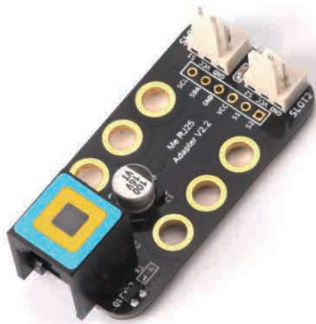
Me Micro Switch B

SKU: 13610



Me RJ25 Adapter

SKU: 13801



6AA Battery Holder

SKU: 14000



AC to DC 12V/2A Wall Adapter for Arduino/Meduno

SKU: 14008



Universal Plug Adapter Type G

SKU: 14016



Universal Plug Adapter Type E/F

SKU: 14017



Universal Plug Adapter for Europe (Type C)

SKU: 14018



Me RJ25 Ad

SKU: 13801

6P6C RJ25 cable-20cm(4-Pack)

SKU: 14202



6P6C RJ25 cable-35cm(4-Pack)

SKU: 14204



6P6C RJ25 cable-50cm(Pair)

SKU: 14206



**USB 2.0 A-Male to
Micro B-Male Cable**

SKU: 14221



Shutter Cable C1 for Canon

SKU: 14225



Shutter Cable C3 for Canon

SKU: 14226



Shutter Cable N1 for Nikon

SKU: 14227



Shutter Cable N3 for Nikon

SKU: 14228



**1.75mm PLA Filament -1Kg
(Blue)**

SKU: 20201



**1.75mm PLA Filament -1Kg
(Red)**

SKU: 20201



**1.75mm PLA Filament -1Kg
(Yellow)**

SKU: 20202



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