

makeblock



# Makerspace Catalogue

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Global STEAM Education Solution Provider

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Makerspace Solutions

## Electronic Modules

With 103 types of Electronic Modules packaged into 12 trays, the kits offer four kinds of mainboards (mCore, Me Auriga, MegaPi Pro, and NovaPi) and three series of electronic components (Neuron, RJ25, and mBuild) to experience the benefits of electronic technologies. The electronic module can be used to build the robotics master control system or the sensor systems, which meet the needs of electronic applications in different levels.

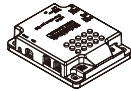


## mBot Modules

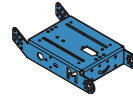
SKU: P1010069

mBot Modules includes modules such as mCore, Chassis and BT Module.

4x Mainboard mCore



4x Chassis



4x Bluetooth Module



## Electronic Modules 1

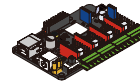
SKU: P1010070

Electronic Modules 1 includes Me Auriga, Megapi Pro and relevant modules.

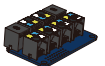
4x Me Auriga



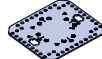
2x MegaPi Pro



2x MegaPi Pro Shield for RJ25



2x MegaPi Acrylic Bracket



2x Power Cord



6x Bluetooth Module



2x MegaPi Pro 4DC Motor Driver

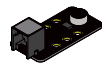


## Electronic Modules 2

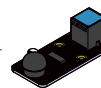
SKU: P1010071

Electronic Modules 2 includes multiple electronic modules with RJ25 interfaces.

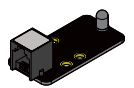
2x Sound Sensor



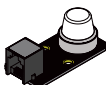
2x PIR Motion Sensor



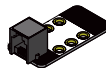
2x Flame Sensor



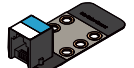
2x Gas Detection Module



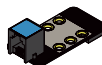
4x Light Sensor



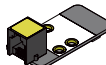
4x Color Sensor



4x Line Follower



8x RGB LED



4x RGB Line Follower





### Electronic Modules 3

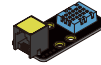
SKU: P1010072

Electronic Modules 3 includes multiple electronic modules with RJ25 interfaces.

4x Micro SD Card



2x Temperature and Humidity Sensor



4x Audio Player



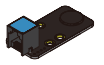
4x Ultrasonic Sensor



2x Compass



4x Touch Sensor



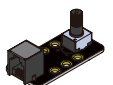
4x 4 Button



2x 3-Axis Accelerometer and Gyro Sensor



4x Potentiometer



4x 7-segment Display



2x Infrared Receiver decode



### Electronic Modules 4

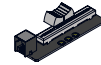
SKU: P1010073

Electronic Modules 4 includes electronic modules such as LED Strip, LED Panel and Me Temperature Sensor.

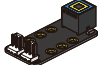
2x Temperature Sensor



2x Slide Potentiometer



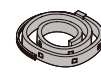
4x RJ25 Adapter



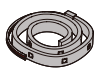
4x LED Matrix



4x LED RGB Strip(0.5M)



4x LED RGB Strip(1M)



2x Me TFT LCD Screen-2.4 Inch

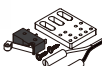


### Electronic Modules 5

SKU: P1010074

Electronic Modules 5 includes remote control related electronic modules such as Bluetooth Controller and Me Micro Switch.

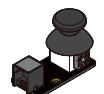
8x Micro Switch B



4x IR Controller



4x Joystick



4x Bluetooth Controller



4x Bluetooth Dongle





### Electronic Modules 6

SKU: P1010075

Electronic Modules 6 includes electronic components like Power, Battery and Cable.

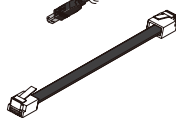
2x AC to DC 12V/3A Wall Adapter Power Supply For Arduino / Meduino



6x USB type B Cable



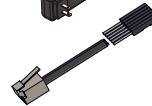
16x RJ25 Cable-50cm



4x Adapter For 18650 Lithium Battery



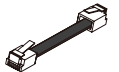
8x RJ25 to Dupont Wire



6x Micro USB Cable



16x RJ25 Cable-20cm

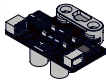


### MakeX Electronic Modules

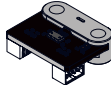
SKU: P1010100

MakeX Electronic Modules includes electronic modules intended for MakeX events.

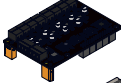
8x Dual RGB Color Sensor



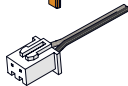
8x Ranging Sensor



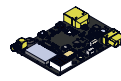
2x Power Expansion Board



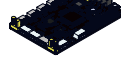
16x PH2.0 Motor Cable



2x Me Power Management Module



2x Mainboard NovaPi



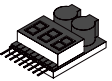
8x Smart Moter Cable-60CM



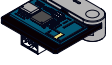
12x 5V General Cable-20cm



2x Low Voltage Buzzer Alarm



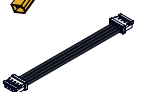
4x Bluetooth Module



2x XT60 XT30/DC One with Three Power Cords



12x 5V General Cable-60cm



### Battery Pack

SKU: P1010101

Battery Pack includes batteries you need, such as lithium battery, 18650 battery, and li-polymer battery. (Not available in Europe)

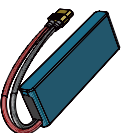
4x Lithium Battery



4x 18650 Lithium Battery Pack



2x FB4300HP-3SLI-PO Battery





## Makeblock Neuron Creative Lab Kit 2.0

SKU: P1030020

Makeblock Neuron is a series of programmable electronic building blocks for STEAM education.

|    |                      |  |    |                   |  |     |                         |  |
|----|----------------------|--|----|-------------------|--|-----|-------------------------|--|
| 2x | Power                |  | 1x | PIR Sensor        |  | 2x  | Dual Servo Driver Block |  |
| 2x | Bluetooth            |  | 1x | Color Sensor      |  | 4x  | Servo Pack              |  |
| 1x | Wireless Transmitter |  | 1x | Color Card        |  | 2x  | LED Panel Block         |  |
| 1x | Wireless Receiver    |  | 1x | Gyro Sensor Block |  | 2x  | LED Driver              |  |
| 1x | Joystick             |  | 1x | Temp Sensor       |  | 2x  | LED Strip Pack          |  |
| 2x | Button               |  | 1x | Humiture Sensor   |  | 1x  | Display Block           |  |
| 2x | Knob                 |  | 1x | Soil Moisture     |  | 12x | Neuron Board            |  |
| 1x | Funny Touch Block    |  | 1x | RGB LED           |  | 72x | Friction Pin Connector  |  |
| 1x | Light Sensor         |  | 1x | Buzzer Block      |  | 3x  | Magnet Wire(10cm)       |  |
| 1x | Dual IR Detector     |  | 2x | Dual DC Motor     |  | 3x  | Magnet Wire(20cm)       |  |
| 1x | Ultrasonic           |  | 4x | Motor Pack        |  | 2x  | USB Cable(100cm)        |  |
| 1x | Ranging Sensor       |  | 1x | Water Pump Pack   |  | 6x  | Double sided viscose    |  |
| 1x | Sound Sensor         |  |    |                   |  |     |                         |  |

## Structural Parts

With 107 types of Structural Parts packaged into 12 trays, they offer a range of beams, joint attachments, lean beams, fasteners, metal accessories, and other large-scale parts and tools. These structural components play a vital role in the structure of a robots' mechanical build-up. The components can be freely assembled to meet the requirements of various practical applications, and achieve up to 200 kinds of structural designs.



### Beam0824 Structural Parts

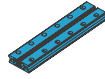
SKU: P1010076

Beam0824 Structural Parts includes two-hole beams of different lengths.  
Cross-section size: 8mmx24mm. Material: 6061 extruded aluminum.

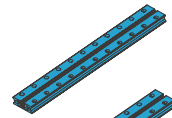
8x Slide Beam0824-016



8x Slide Beam0824-096



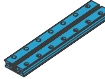
4x Slide Beam0824-176



8x Slide Beam0824-032



8x Slide Beam0824-112



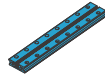
4x Slide Beam0824-192



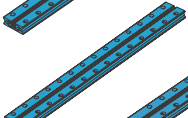
8x Slide beam0824-048



4x Slide Beam0824-128



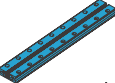
4x Slide Beam0824-224



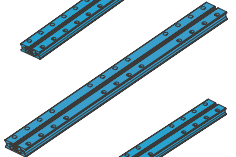
8x Slide Beam0824-064



4x Slide Beam0824-144



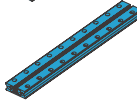
4x Slide Beam0824-256



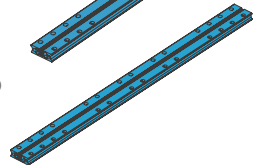
8x Slide Beam0824-080



4x Slide Beam0824-160



4x Slide Beam0824-320



### Beam0808 Structural Parts

SKU: P1010077

Beam0808 Structural Parts includes single-hole beams of different lengths.  
Cross-section size: 8mmx8mm. Material: 6061 extruded aluminum.

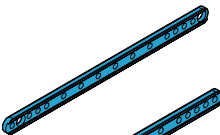
16x Beam0412-036



16x Beam0412-124



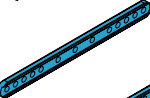
16x Beam0412-188-L2-R1



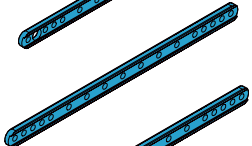
16x Beam0412-044



16x Beam0412-140



16x Beam0412-204



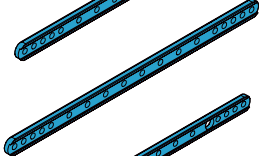
16x Beam0412-060



16x Beam0412-156



16x Beam0412-220



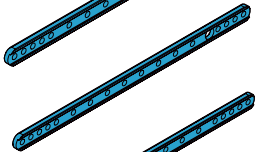
16x Beam0412-076



16x Beam0412-172



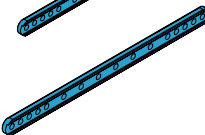
16x Beam0412-220-L5



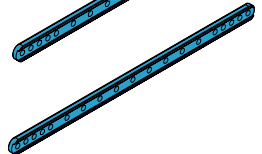
16x Beam0412-092



16x Beam0412-188



16x Beam0412-236



16x Beam0412-108





## Beam0412 Structural Parts

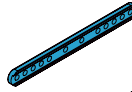
SKU: P1010078

Beam0412 Structural Parts includes single-hole beams of different lengths.  
Cross-section size: 4mmx12mm. Material: 6061 extruded aluminum.

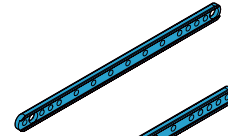
16x Beam0412-036



16x Beam0412-124



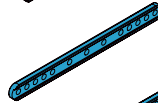
16x Beam0412-188-L2-R1



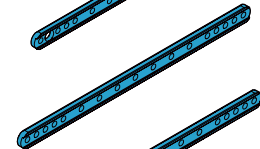
16x Beam0412-044



16x Beam0412-140



16x Beam0412-204



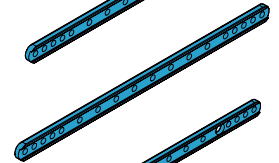
16x Beam0412-060



16x Beam0412-156



16x Beam0412-220



16x Beam0412-076



16x Beam0412-172



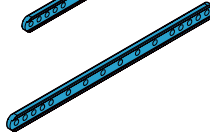
16x Beam0412-220-L5



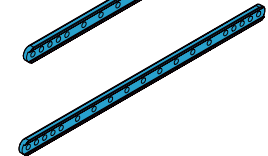
16x Beam0412-092



16x Beam0412-188



16x Beam0412-236



16x Beam0412-108



## Square Beam Structural Parts

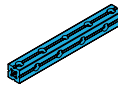
SKU: P1010079

Square Beam Structural Parts includes square beams of different lengths.  
Cross-section size: 8mmx8mm. Material: 6061 extruded aluminum.

16x Square Beam0808-016



16x Square Beam0808-072



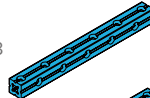
16x Square Beam0808-136



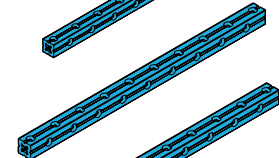
16x Square Beam0808-032



16x Square Beam0808-088



16x Square Beam0808-152



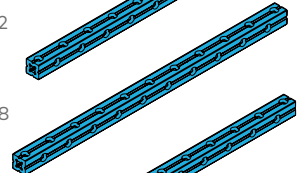
16x Square Beam0808-040



16x Square Beam0808-104



16x Square Beam0808-168



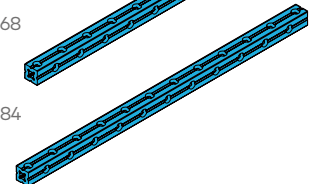
16x Square Beam0808-056



16x Square Beam0808-120



16x Square Beam0808-184





### Slide Beam2424 Structural Parts

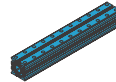
SKU: P1010080

Slide Beam2424 Structural Parts includes linear motion guide rails of different lengths. Cross-section size: 24mmx24mm. Material: 6061 extruded aluminum.

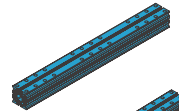
4x Slide beam2424-072



4x Slide Beam2424-168



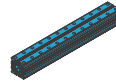
4x Slide Beam2424-248



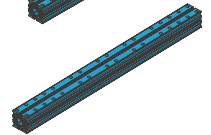
4x Slide Beam2424-104



4x Slide Beam2424-184



4x Slide Beam2424-312



4x Slide Beam2424-136



### Connecting Fittings

SKU: P1010081

Connecting Fittings includes plates and brackets of different shapes.

24x Cuttable Linkage 3 Hole



16x Plate0324-072



24x Plate 3\*5\*120



8x Stiffener 1616-008-M4



16x Pate0324-088



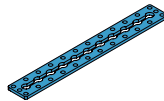
24x Bracket 3\*3\*120



8x Plate0324-040



16x Plate0324-184



8x Bracket U-C



8x Plate0324-056



### Lean Beam 1

SKU: P1010103

Includes lean beams of different lengths.

Cross-section size: 24mmx24mm. Material: 6061 extruded aluminum.

4x Lean Beam-072



4x Lean Beam-136



4x Lean Beam-248



8x Lean Beam-312





## Lean Beam 2

SKU: P1010104

Lean Beam 2 includes multiple connecting parts for lean beams.

8x Parallel Connector



8x Extension Connector



30x Socket Cap Screw  
M6\*16-Round Head



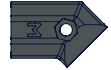
16x Lean Beam Adapter A



16x 90 Reinforce Connector



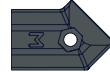
4x 45° Connector B



16x Lean Beam Adapter B



4x 45° Connector A



80x Hex Nut M6



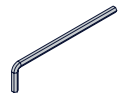
40x External Connector



20x Socket Cap Screw  
M6\*20-Round Head



2x Wrench M6



16x Cross Connector



30x Socket Cap Screw  
M6\*12-Round Head



## Large Parts



SKU: P1010082

Large Parts includes mechanical components longer than 320mm in length, such as lean beams, single-hole beams and two-hole beams, linear motion guide rails, sliders, linear motion shafts, aluminum sheet.

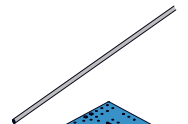
4x Lean Beam-424



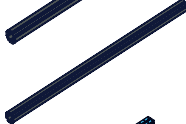
4x Beam0808-504(Blue)



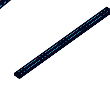
6x Shaft D8\*496mm-H



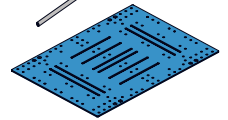
4x Lean Beam-504



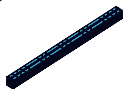
4x Slide Beam0824-496



2x 360\*256mm  
Aluminium Sheet



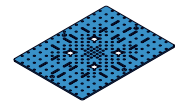
4x Slide Beam-424



4x Shaft D4\*512mm



2x Base Plate- S(Blue)



4x Slider 496(Blue)

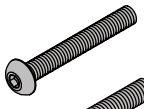
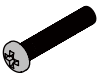
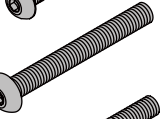
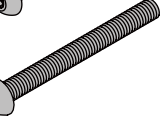
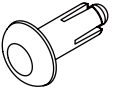
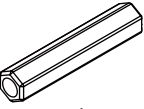
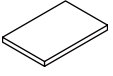
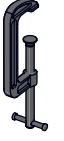
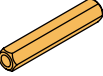




## Hardware and Tools 1

SKU: P1010083

Hardwares and Tools 1 includes metal components and assembling tools, such as screws and nuts.

|      |                                       |                                                                                     |     |                                                  |                                                                                      |      |                                         |                                                                                       |
|------|---------------------------------------|-------------------------------------------------------------------------------------|-----|--------------------------------------------------|--------------------------------------------------------------------------------------|------|-----------------------------------------|---------------------------------------------------------------------------------------|
| 200x | Socket Cap Screw<br>M4*8-Button Head  |    | 50x | Socket Cap Screw<br>M4*30-Button Head            |    | 50x  | Cross Recess Screw<br>M3*16-Button Head |    |
| 200x | Socket Cap Screw<br>M4*14-Button Head |    | 50x | Socket Cap Screw<br>M4*35-Button Head            |    | 50x  | Cross Recess Screw<br>M3*25-Button Head |    |
| 100x | Socket Cap Screw<br>M4*16-Button Head |    | 50x | Socket Cap Screw<br>M4*40-Button Head            |    | 50x  | Plastic Spacer 4*8*1                    |    |
| 50x  | Socket Cap Screw<br>M4*22-Button Head |    | 30x | Cross Recess Screw<br>M3*8-Countersunk Head      |     | 100x | Plastic Spacer 4*7*2                    |    |
| 50x  | Plastic Spacer 4*7*3                  |    | 60x | Plastic Rivet R4120(White)                       |     | 20x  | Nylon Cable Ties1.9*100                 |    |
| 20x  | Plastic Spacer 4*7*10                 |   | 40x | Tapping Screw with Washer<br>M2.2*9.5-Round Head |    | 100x | Hex Nut M3                              |   |
| 60x  | Plastic Rivet<br>R4060(Black)         |  | 10x | Nylon Stud M4*30                                 |  | 200x | Hex Nut M4                              |  |
| 60x  | Plastic Rivet<br>R4100(White)         |  | 10x | Velcro sticker pad                               |   | 100x | Hex Lock Nut M4                         |  |
| 10x  | Hex Nut M8                            |  | 50x | Headless Screw M3*5                              |   | 4x   | HEX Allen Key 1.5mm                     |  |
| 20x  | Brass Stud M4*8+6                     |  | 2x  | Cross & 2.5mm HEX<br>Screwdriver V2.0            |   | 4x   | HEX Allen Key 2.5mm                     |  |
| 20x  | Brass Stud M4*16                      |  | 3x  | Wrench M5+M7                                     |   | 1x   | 2 Inch G-clamp                          |  |
| 12x  | Brass Stud M4*32                      |  |     |                                                  |                                                                                      |      |                                         |                                                                                       |



## Hardware and Tools 2

SKU: P1010084

Hardwares and Tools 2 includes a variety of screws components.

50× Headless Screw M3\*8



100× Combination Screw M4\*8



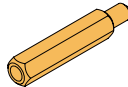
100× Combination Screw M4\*10



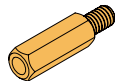
100× Combination Screw M4\*14



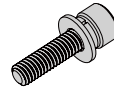
16× Brass Stud M4\*25+6



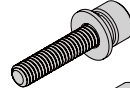
16× Brass Stud M4\*16+6



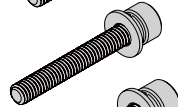
200× Combination Screw M4\*16



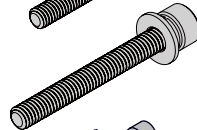
200× Combination Screw M4\*20



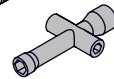
100× Combination Screw M4\*30



200× Combination Screw M4\*35



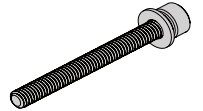
2× Small Four-way socket wrench



2× Rapid Steel Allen Driver 1.5mm(Black)



100× Combination Screw M4\*40



100× Hex Lock Nut M3



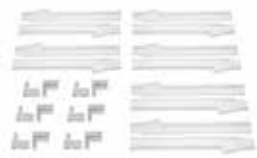
300× Hex Nut M4



100× Hex Lock Nut M4



2× Rapid Steel Allen Driver 3mm(Black)

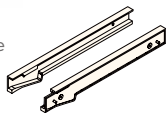


## Slide Guide Buckles Pack

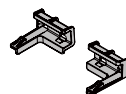
SKU: P1010106

Slide Guide Buckles Pack provides runners and clips compatible with GrateNells' trays. It is for customers who have storage shelves compatible with GrateNells' trays. The pack includes 8 pairs of runners, 8 pairs of clips and a GrateNells' F1 tray.

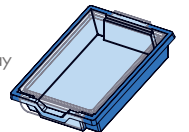
8× Plastic RunnersStop Safe Clear Pair For Wood



8× Clips for Trays Sold in Pairs



1× Cyan Blue GrateNells Tray



## Transmission & Motion Parts

With 83 types of Transmission & Motion Parts packaged into 8 separate trays, the kits provide a selection of gears, shafts, bearings, wheels, belt and chain drive components, etc.. These are fundamental elements to construct the motion control and transmission systems of a robot.



### Basic Drive Parts 1

SKU: P1010085

Basic Drive Parts 1 includes timing belts and threaded drive parts of different types.

|    |                           |  |     |                           |  |     |                           |  |
|----|---------------------------|--|-----|---------------------------|--|-----|---------------------------|--|
| 8x | Timing Belt 140T(112MXL)  |  | 8x  | Belt Connector            |  | 4x  | Timing Pulley 90T         |  |
| 8x | Timing Belt 300T(240MXL)  |  | 8x  | Timing Pulley Slice 90T-B |  | 4x  | Timing Pulley 62T         |  |
| 6x | Timing Belt-Open end(5m)  |  | 8x  | Timing Pulley Slice 62T-B |  | 4x  | Fully Threaded Rod M4*192 |  |
| 8x | Belt Connector-B          |  | 8x  | Plastic Timing Pulley 18T |  | 4x  | Fully Threaded Rod M4*288 |  |
| 4x | Fully Threaded Rod M4*248 |  | 32x | Aluminum Sleeve 4*6*4     |  | 16x | Nylon Wheel( No Bearing)  |  |
| 8x | Thread Drive Beam M4*40   |  | 32x | Aluminum Sleeve 4*6*6     |  | 8x  | V-slot Bearing 4*13*6     |  |
| 8x | Sliding Block A1          |  | 32x | Roller(With Bearing)      |  | 4x  | Slider 256                |  |



### Basic Drive Parts 2

SKU: P1010086

Basic Drive Parts 2 includes gears of different types.

|    |          |  |     |                  |  |     |                  |  |
|----|----------|--|-----|------------------|--|-----|------------------|--|
| 4x | Gear 16T |  | 16x | Double Gear Rack |  | 16x | Plastic Gear 56T |  |
| 4x | Gear 48T |  | 16x | Plastic Gear 8T  |  | 32x | Plastic Gear 72T |  |
| 4x | Gear 80T |  |     |                  |  |     |                  |  |



### Shaft Type Drive Parts

SKU: P1010087

Shaft Type Drive Parts includes shafts of different lengths, shaft bearings, bearing brackets, flexible couplings and other drive parts.

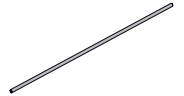
20x D Shaft 4\*56



8x Shaft 8\*128-H



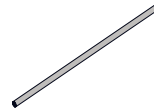
8x Shaft 4\*288



8x D Shaft 4\*128



8x Shaft 8\*312-H



8x Linear Box Slider D8



12x D Shaft 4\*160



24x Shaft 4\*88



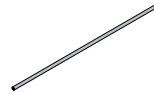
100x Flange Bearing 4\*8\*3



8x Shaft 8\*96-H



8x Shaft 4\*240



20x Bearing 4\*8\*3



20x Bearing 8\*16\*5



8x Universal Joint 4\*4



8x Shaft Clamping Hub 8mm



16x Threaded shaft 4\*39



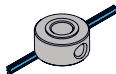
20x Bearing F688ZZ



16x 8mm Bearing Bracket A



80x Shaft Collar 4mm



30x Shaft Connector 4mm



30x Shaft Connector 4mm V3.0



40x Shaft Collar 8mm



16x Flexible Coupling 4\*4



### Chain Transmission Parts

SKU: P1010099

Chain Transmission Parts includes components for drive chains, such as chains and sprockets.

4x 04C 20T Sprockets



2x 04C Half Chain Unit



16x Headless Screw M5\*5



2x 04C 14T Double Sprockets



2x 04C Chain Unit



8x Shaft 8\*96-H



4x 04C 10T Sprockets



4x 04C One-hole Bending Chain



8x Shaft Collar 8mm



4x 04C Roller Chain-1.5m



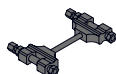
16x Headless Screw M3\*5



4x Bracket U-B



2x 04 Chain Rivet Extractor





## Motion Parts 1

SKU: P1010088

Motion Parts 1 includes plastic timing pulleys and tyre components.

16x Plastic Timing Pulley 62T



16x Plastic Timing Pulley 90T For Motor



8x Slick Tire



16x Plastic Timing Pulley 90T



16x Tyre 68.5\*22mm



8x Mini Caster Wheel



8x Plastic Timing Pulley 62T For Motor

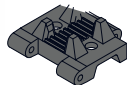


## Motion Parts 2

SKU: P1010089

Motion Parts 2 includes tracks, 58mm omnidirectional wheels and relevant motion parts.

200x Track



4x 58mm Omni Wheel Coupling Pack



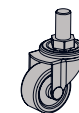
8x 58mm Omni Wheel



200x Track Axle



4x 1 Inch Nylon Pulley



## Motion Parts 3

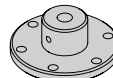
SKU: P1010097

Motion Parts 3 includes 100mm omnidirectional wheels and other parts.

8x 100mm Omni Wheel



8x 100mm Omni Wheel Coupling



40x Cuphead Screw M5\*40



40x Lock Nut M5



## Motion Parts 4

SKU: P1010098

Motion Parts 4 includes 100mm mecanum wheels and relevant parts.

4x 100mm Left Mecanum Wheel with 4mm Shaft



4x Right Mecanum Wheel



8x Mecanum Wheel Pack



## Motors & Actuators

The kits feature nine trays of Motors & Actuators, including 73 types of motors, servos and pneumatic modules. These parts are essentials for robots to actuate movements, perform grasping and dexterous manipulation.

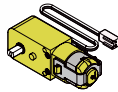


### Motor Modules 1

SKU: P1010091

Motor Modules 1 includes 130 High Speed DC Speed Reducing Motors and 130 Motors Fan Packs.

8x Geared Motor  
DC6V/312RPM



4x Me 130 Motor  
Pack-5V/10000RPM

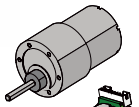


### Motor Modules 2

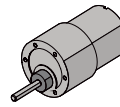
SKU: P1010092

Motor Modules 2 includes several DC Motor-25, Encoder Motor-25 and DC Motor-37.

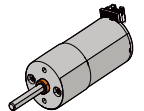
4x DC Motor-37 12V/50RPM



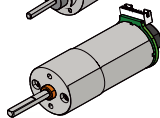
4x DC Motor-37 12V/200RPM



4x DC Motor-25 9V/185RPM



4x Optical Encoder  
Motor-25 9V/185RPM



### Motor Modules 3

SKU: P1010093

Motor Modules 3 includes Optical Encoder Motors and a variety of brackets, cables and motor drivers.

16x DC Motor-25 Bracket



8x 180 Optical Encoder Motor



8x 2.54mm 6P Encoder  
Motor Cable



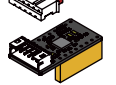
16x DC Motor-37 Bracket



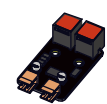
8x Dual Motor Driver



8x MegaPi Pro Encoder/DC  
Motor Driver



8x Dual Motor Driver



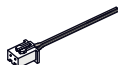
4x Encoder Motor Driver



8x 25 Encoder Motor Cable



32x PH2.0 Motor Cable



4x High-Power Encoder /DC  
Motor Driver



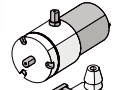


#### Motor Modules 4

SKU: P1010094

Motor Modules 4 includes Air Pumps , Water Pumps and Robot Gripper modules.

2x Air Pump Motor-DC  
12V/370-02PM



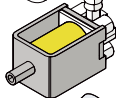
2x Silicone Air Tube 0507



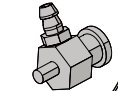
2x Vacuum Suction  
Cup-SP-30



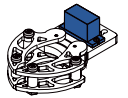
2x Solenoid Valves DC  
12V/0520E



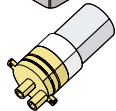
2x Vacuum Suction Head M4



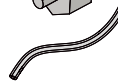
4x Mini Gripper



2x Water Pump Motor-DC  
12V370-04PM



2x Silicone Air Tube 0305



2x Robot Gripper-Black



#### Motor Modules 5

SKU: P1010095

Motor Modules 5 includes Stepper Motors, Brushless Motors and accessories.

4x 42BYG Stepper Motor  
Bracket-B



2x Brushless Motor



4x Friction Wheel Ring  
D28\*7



4x 42BYG Stepper Motor



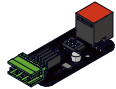
4x MegaPi Pro ESC Driver V1.0



4x Megapi Stepper  
Motor Driver



4x Me Stepper Motor Driver



4x Friction Wheel D45\*19.5

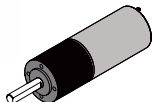


#### Motor Modules 6

SKU: P1010096

Motor Modules 6 includes 36mm DC Encoder Motors and brackets.

8x DC Planet Geared  
Motor 36mm



8x 36mm DC Motor Bracket





## Servos

SKU: P1010090

Makerspace Kits 2.0-Servos includes 9g Micro Servo, Smart Servo, MECDS-150 Servo and accessories.

8x 9g Micro Servo Robot Pack



8x Terminal Wire-20cm



8x Virtual Axis



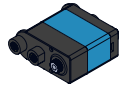
4x RJ25 Adapter



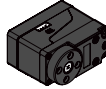
8x Terminal Wire 60cm



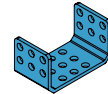
4x MEDS150 Servo Motor



8x Smart Servo MS-12A



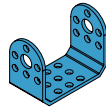
8x Mounting Bracket



8x Color Number Sticker



8x Rudder Bracket



## Pneumatic Parts

SKU: P1010105

Pneumatic Parts includes pneumatic parts such as pressure regulator, solenoid valve and pneumatic cylinder.

2x Regulator GR20006F1



2x Cylinder M10X60CA



4x Tube Connector PE6



2x Pressure Relief Valve



2x Cylinder M10X150CA



2x  $\phi 6$  Cross Four-Way Connector PZ6



4x Solenoid Valve 4V110M5F1



4x Bottle Cap



4x Hand Control Valve 6-6



4x Plug 3.96-2P



2x  $\phi 8$ - $\phi 6$  Reducing Straight Connector



2x Tube Connector PCFT6-02



4x Tube Connector PC6-01



4x  $\phi 6$  Pneumatic Tube -Blue



4x Rod End Joint M4



8x Speed Valve PSL6M5A



2x Sealing Tape



16x Lock Nut M3



30x Tube Connector PC6M5



4x Solenoid Valve Bracket(6061-T6)



16x Socket Cap Screw m3\*25-Button Head



10x Universal Copper Silencer



4x  $\phi 10$  Cylinder Bracket(6061-T6)



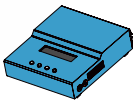


**MakeX Motor Modules**

SKU: P1010102

MakeX Motor Modules includes essential motor parts intended for MakeX events.

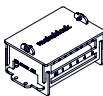
1x Skyrac B6AC V2



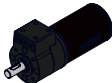
4x 180 Smart Encoder Motor



2x NovaPi Case



4x 36 Encoder Motor-Brushless



## Makerspace Solutions

Three levels of STEAM education solutions are available: primary, intermediate, and advanced. We offer different solutions from which schools can choose based on your teaching needs. You can also contact us for custom solutions.



## STEAM Education Primary Solution

The solution contains 24 boxes of parts, engaging 100+ creative projects and serving the needs of four groups of students for MakeX Starter.

|    |                                                                               |                                                                                     |    |                                                              |                                                                                     |    |                                                                 |                                                                                       |
|----|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1x | Makeblock Neuron Creative Lab Kit 2.0<br>SKU:P1030020                         |    | 1x | mBot Modules<br>SKU:P1010069                                 |    | 1x | Electronic Modules 1<br>SKU:P1010070                            |    |
| 1x | Electronic Modules 2<br>SKU:P1010071                                          |    | 1x | Electronic Modules 3<br>SKU:P1010072                         |    | 1x | Electronic Modules 4<br>SKU:P1010073                            |    |
| 1x | Electronic Modules 5<br>SKU:P1010074                                          |    | 1x | Electronic Modules 6<br>SKU:P1010075                         |    | 2x | Beam0824 Structural Parts<br>SKU:P1010076                       |    |
| 1x | Beam0808 Structural Parts<br>SKU:P1010077                                     |    | 1x | Beam0412 Structural Parts<br>SKU:P1010078                    |    | 1x | Square Beam Structural Parts<br>SKU:P1010079                    |    |
| 1x | Connecting Fittings<br>SKU:P1010081                                           |    | 1x | Hardwares and Tools 1<br>SKU:P1010083                        |    | 1x | Basic Drive Parts 1<br>SKU:P1010085                             |    |
| 1x | Basic Drive Parts 2<br>SKU:P1010086                                           |    | 1x | Shaft Type Drive Parts<br>SKU:P1010087                       |    | 1x | Motion Parts 1<br>SKU:P1010088                                  |    |
| 1x | Motion Parts 2<br>SKU:P1010089                                                |   | 1x | Servos<br>SKU:P1010090                                       |   | 1x | Motor Modules 1<br>SKU:P1010091                                 |   |
| 1x | Motor Modules 2<br>SKU:P1010092                                               |  | 1x | Motor Modules 3<br>SKU:P1010093                              |  | 4x | mBot Li-polymer Battery<br>SKU:P3090003                         |  |
| 4x | 18650 Lithium Battery Pack<br>SKU:14026                                       |  | 2x | Gratnells Shallow Tray, CyanBlue (Pack of 4)<br>SKU:P4050001 |  | 2x | Lid for Standard Trays, Translucent (Pack of 4)<br>SKU:P4050004 |  |
| 6x | Gratnells Tray Runners with Clips for Trays (Pack of 6 pairs)<br>SKU:P4050005 |  |    |                                                              |                                                                                     |    |                                                                 |                                                                                       |



## STEAM Education Intermediate Solution

SKU: P1010110

The solution contains 34 boxes of parts, engaging 150+ creative projects and serving the needs of a group of students for MakeX Challenge.

|    |                                                                 |                                                                                     |    |                                                                               |                                                                                     |    |                                                              |                                                                                       |
|----|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1x | mBot Modules<br>SKU:P1010069                                    |    | 1x | Electronic Modules 1<br>SKU:P1010070                                          |    | 1x | Electronic Modules 2<br>SKU:P1010071                         |    |
| 1x | Electronic Modules 3<br>SKU:P1010072                            |    | 1x | Electronic Modules 4<br>SKU:P1010073                                          |    | 1x | Electronic Modules 5<br>SKU:P1010074                         |    |
| 1x | Electronic Modules 6<br>SKU:P1010075                            |    | 1x | Beam0824 Structural Parts<br>SKU:P1010076                                     |    | 1x | Beam0808 Structural Parts<br>SKU:P1010077                    |    |
| 1x | Beam0412 Structural Parts<br>SKU:P1010078                       |    | 1x | Square Beam Structural Parts<br>SKU:P1010079                                  |    | 1x | Slide Beam2424 Structural Parts<br>SKU:P1010080              |    |
| 1x | Connecting Fittings<br>SKU:P1010081                             |    | 1x | Large Parts<br>SKU:P1010082                                                   |    | 2x | Hardwares and Tools 1<br>SKU:P1010083                        |    |
| 2x | Hardwares and Tools 2<br>SKU:P1010084                           |   | 1x | Basic Drive Parts 1<br>SKU:P1010085                                           |   | 1x | Basic Drive Parts 2<br>SKU:P1010086                          |   |
| 1x | Shaft Type Drive Parts<br>SKU:P1010087                          |  | 1x | Motion Parts 1<br>SKU:P1010088                                                |  | 1x | Motion Parts 2<br>SKU:P1010089                               |  |
| 1x | Servos<br>SKU:P1010090                                          |  | 1x | Motor Modules 1<br>SKU:P1010091                                               |  | 1x | Motor Modules 2<br>SKU:P1010092                              |  |
| 1x | Motor Modules 3<br>SKU:P1010093                                 |  | 1x | Motors Modules 4<br>SKU:P1010094                                              |  | 1x | Motors Modules 5<br>SKU:P1010095                             |  |
| 1x | Motion Parts 3<br>SKU:P1010097                                  |  | 1x | Chain Transmission Parts<br>SKU:P1010099                                      |  | 1x | MakeX Electronic Modules<br>SKU:P1010100                     |  |
| 1x | Battery Packs<br>SKU:P1010101                                   |  | 1x | MakeX Motor Modules<br>SKU:P1010102                                           |  | 2x | Gratnells Shallow Tray, CyanBlue (Pack of 4)<br>SKU:P4050001 |  |
| 2x | Lid for Standard Trays, Translucent (Pack of 4)<br>SKU:P4050004 |  | 7x | Gratnells Tray Runners with Clips for Trays (Pack of 6 pairs)<br>SKU:P4050005 |  |    |                                                              |                                                                                       |



## STEAM Education Advanced Solution

SKU: P1010111

The solution contains 45 boxes of parts, engaging 200+ creative projects and serving the needs of a group of students for MakeX Premier.

|     |                                                                                     |                                                                                     |    |                                                                 |                                                                                     |    |                                                                    |                                                                                       |
|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-----------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1x  | mBot Modules<br>SKU:P1010069                                                        |    | 1x | Electronic Modules 1<br>SKU:P1010070                            |    | 1x | Electronic Modules 2<br>SKU:P1010071                               |    |
| 1x  | Electronic Modules 3<br>SKU:P1010072                                                |    | 1x | Electronic Modules 4<br>SKU:P1010073                            |    | 1x | Electronic Modules 5<br>SKU:P1010074                               |    |
| 1x  | Electronic Modules 6<br>SKU:P1010075                                                |    | 2x | Beam0824 Structural<br>Parts<br>SKU:P1010076                    |    | 1x | Beam0808<br>Structural Parts<br>SKU:P1010077                       |    |
| 1x  | Beam0412 Structural<br>Parts<br>SKU:P1010078                                        |    | 1x | Square Beam<br>Structural Parts<br>SKU:P1010079                 |    | 2x | Slide Beam2424<br>Structural Parts<br>SKU:P1010080                 |    |
| 1x  | Connecting Fittings<br>SKU:P1010081                                                 |    | 1x | Large Parts<br>SKU:P1010082                                     |    | 2x | Hardwares and Tools 1<br>SKU:P1010083                              |    |
| 2x  | Hardwares and Tools 2<br>SKU:P1010084                                               |   | 1x | Basic Drive Parts 1<br>SKU:P1010085                             |   | 2x | Basic Drive Parts 2<br>SKU:P1010086                                |   |
| 1x  | Shaft Type Drive Parts<br>SKU:P1010087                                              |  | 2x | Motion Parts 1<br>SKU:P1010088                                  |  | 2x | Motion Parts 2<br>SKU:P1010089                                     |  |
| 1x  | Servos<br>SKU:P1010090                                                              |  | 1x | Motor Modules 1<br>SKU:P1010091                                 |  | 2x | Motor Modules 2<br>SKU:P1010092                                    |  |
| 1x  | Motor Modules 3<br>SKU:P1010093                                                     |  | 1x | Motors Modules 4<br>SKU:P1010094                                |  | 1x | Motors Modules 5<br>SKU:P1010095                                   |  |
| 1x  | Motors Modules 6<br>SKU:P1010096                                                    |  | 1x | Motion Parts 3<br>SKU:P1010097                                  |  | 1x | Motion Parts 4<br>SKU:P1010098                                     |  |
| 1x  | Chain Transmission Parts<br>SKU:P1010099                                            |  | 1x | MakeX Electronic Modules<br>SKU:P1010100                        |  | 1x | Battery Packs<br>SKU:P1010101                                      |  |
| 1x  | MakeX Motor Modules<br>SKU:P1010102                                                 |  | 1x | Lean Beam 1<br>SKU:P1010103                                     |  | 2x | Lean Beam 2<br>SKU:P1010104                                        |  |
| 1x  | Pneumatic Parts<br>SKU:P1010105                                                     |  | 3x | Gratnells Shallow Tray,<br>CyanBlue (Pack of 4)<br>SKU:P4050001 |  | 3x | Lid for Standard Trays,<br>Translucent (Pack of 4)<br>SKU:P4050004 |  |
| 10x | Gratnells Tray Runners with<br>Clips for Trays (Pack of 6<br>pairs)<br>SKU:P4050005 |  |    |                                                                 |                                                                                     |    |                                                                    |                                                                                       |

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