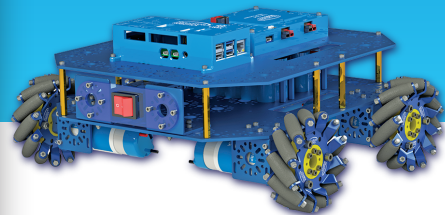
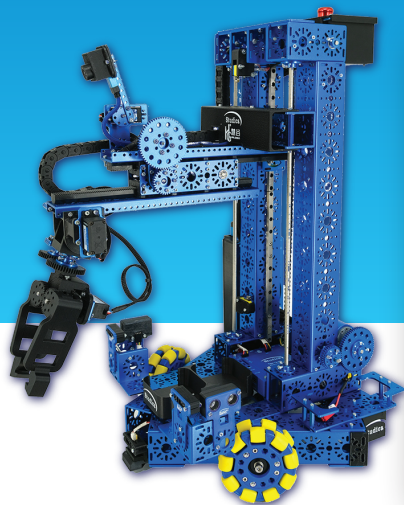


Studica ROBOTICS

Build Better Robots®



Everything You Need to Build, Learn & Compete

2024-25 Robotics Kits & Robot Parts Catalog



Structure Components Available in a Variety of Colors!

www.studica.com



Welcome to Studica Robotics

Studica Robotics is your ultimate destination for a complete robotics building platform ideal for competitions, comprehensive STEM education, and Industry 4.0 applications. Explore everything you need to build, learn, and compete at www.studica.com.

Discover Your True Building Potential!

At Studica Robotics, we offer a diverse range of structure components, such as aluminum channel, bearings, gears, and precision shafts. We also provide motion components including motors, pulleys, and slides, as well as a selection of electronics such as our VMX controller, sensors, 3D depth camera, and batteries. Additionally, we offer a selection of robot training and building kits.



Did You Know?

Studica Robotics is a leading developer, manufacturer, and distributor of mechanical, electronic, and software systems for the mobile robotics and STEM/STEAM education fields.

We take pride in being the exclusive supplier of robotics kits and components used in the prestigious WorldSkills Autonomous Mobile Robotics Competition. With over 40 countries participating globally, Studica Robotics has earned trust and recognition as an innovative player on the international stage.

Global Recognition

Studica Robotics is used in over 40 countries worldwide, making a significant impact on the STEM education, robotics competition communities, and Industry 4.0. Our products have been embraced by educators, students, and professionals, empowering them to explore their true building potential.

As a proud Global Partner and exclusive product supplier of the WorldSkills Autonomous Mobile Robotics Competition, we take responsibility for the development of the official competition kit required for this esteemed event.

The Studica Robotics Advantage

Studica Robotics prides itself on being a leading force in the field of robotics, driven by a commitment to technical expertise, innovation, and excellence. Catering to the needs of STEM education and robotics competition communities, we provide a range of components and resources designed to make robotics projects accessible and successful.

Key Features:

Effortless Integration & Compatibility

Our design philosophy revolves around seamless compatibility, eliminating the need for a machine shop or special equipment. Our innovative design pattern simplifies the connection of structures, sprockets, motors, and gears. A generously sized center hole facilitates the integration of flange bearings, providing unparalleled support for shafts and motors. The unique hole pattern ensures compatibility with most FRC and FTC systems, allowing for the seamless integration of structure and electronics.

Durable, Strong & Safe

Our channel components boast a robust 3mm thick 6061-T6 aluminum structure. Precision deburring, polishing, and anodizing ensure strength and safety for your robot and automation projects.

Resources & Support

Explore our resources to support your robotics journey, including an extensive library of STEP 3D files, instructional training videos, project instructions, build guides, and insightful robotics-focused blog articles.

Empowering Electronics

Our cutting-edge electronics, ranging from controllers to sensors, are meticulously designed to equip your robot with state-of-the-art capabilities. The VMX controller stands out with its versatility and programmability in multiple languages, making it the ideal choice for intricate projects and autonomous robots.

Comprehensive Robotics Line

Studica Robotics proudly offers a diverse array of robot parts and robotics kits. From wheels, motors, servo motors, to actuators, our durable and affordable structure components seamlessly connect with our extensive range of motion components. Assembling your robotic project has never been easier. Our comprehensive robotics building platform offers everything you need to build, learn, and compete.

Table of Contents

Robotics Kits	3-7	Chains	15	U-Channel*	24
Drones	8	Collars	16	Extrusions*	25
Training Kits	8	Gearing Solutions	16	Flat Beams*	25
Electronics	9-13	Hubs Solutions	17	Flat Brackets*	26
Batteries	9	Motors	18	Hinges	26
Cables & Wiring	9,11	Pulleys	18	Irregular Brackets*	27
Controllers	10	Servo Motors & Actuators	18-19	L-Beams*	28
Power Switches	11	Slides, Rack & Pinion	20	Mounting Brackets & Plates	28-29
Remote Devices	11	Sprockets	20	Spacers	29
Sensors	12-13	Wheels	21-22	Square Beams*	30
Motion	14-22	Shock Absorbers	22	Standoffs	30
Belts	14	Structure	23-30	Hardware	31-32
Bushings & Bearings	15	Shafts	23	Bumpers & Feet	31
		Channel*	23-24	Screws	31
		Low Profile U-Channel*	23	Nuts	31
				Tools	32



* These Structure components are now available in Blue, Green, Gold, Red, Black, and Clear Anodized.

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on your order!

Use promo code SRCAT24 at checkout to save 25% on your Studica Robotics order. Offer is only valid in the USA and expires 12/31/24 (11:59 P.M. PT). Studica Robotics may refuse or cancel orders due to promo and pricing errors, fraud, misuse, or unauthorized use. This promo is not retroactive.

Robotics Kits

FTC Drive Base Kit #70400

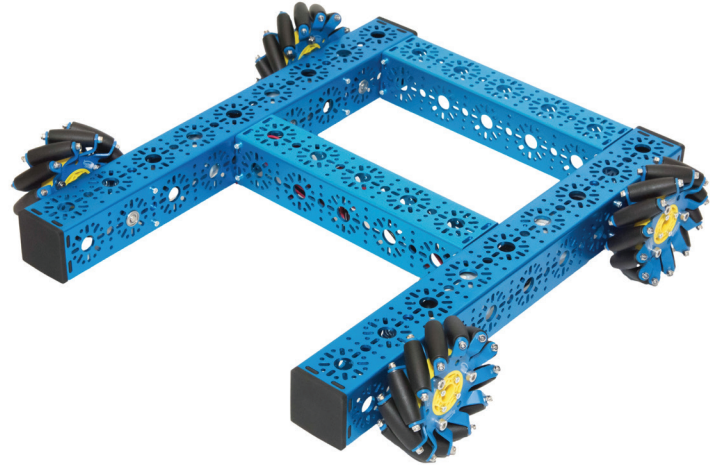
Everything You Need to Build a Mecanum Drivebase

The FTC Drive Base Kit from Studica Robotics is the perfect solution for your next drivetrain. This complete robot drive base kit includes all the materials needed to create a robust Mecanum chassis.

This complete drivetrain competition robot kit includes a wide variety of components including 4 - NeveRest Orbital 20 Gearmotors with encoder cables, new clamping shaft hubs, 4 bumpers, and complete hardware to complete the mecanum chassis. Studica Robotics also provides STEP 3D files for each part allowing you to easily design your robot in SOLIDWORKS, Inventor, Fusion 360, or Creo. The Mecanum wheels and NeveRest Orbital 20:1 gear motors create a very maneuverable and swift chassis.

Included in the Kit:

- U-Channel
- Mount Plates
- Gearmotors
- Encoder Cables
- End Piece Plates
- D-Shafts
- Bumpers
- Grommets
- Gears
- Bearings
- Hubs
- Clamps
- Assortment of Screws
- Spacers
- Wheels



Resources Available:

Studica Robotics offers instructions and a helpful Drivebase Build Guide that utilizes components from the FTC Drive Base Kit to build a mecanum drivetrain.

Robotics Kits

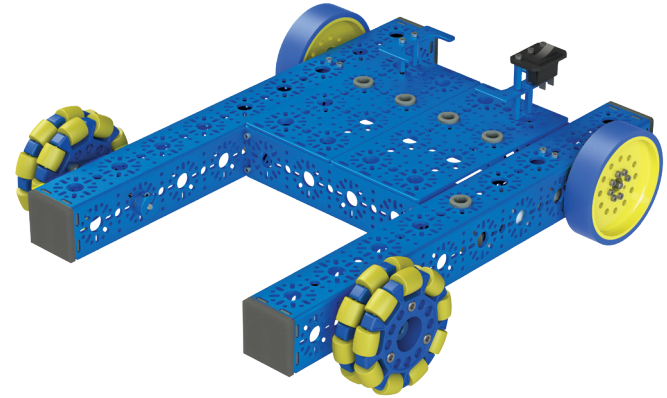
FTC Starter Kit #70404 Comprehensive Robotics Kit

The Studica Robotics FTC Starter Kit is a comprehensive robotics kit that features a variety of products. This set is ideal for teams wanting to improve their current robots or those that are just looking to get started with FTC. It includes U-Channel, flat beams, square beams, brackets, electronics, and accessories. With these resources, students can craft robots of their own design.

With the FTC Starter Kit creating, building, and prototyping unique designs is a breeze. All items in the FTC Starter Kit are *FIRST*[®] legal parts. STEP files are available for every part.

Included in the Kit:

- Flat Beams
- Square Beams
- Flats
- Brackets
- Belts
- Axles
- Rack & Pinion
- Standoffs
- Servos
- Couplings
- Collars
- Spacers
- Tools
- Storage Bin
- Gears
- Pulleys
- Wheels
- Bushings
- Bearings
- U-Channel
- Low Profile U-Channel
- High-Resolution Encoders
- FTC Legal Battery & Charger
- Assortment of Screws & Nuts
- Mounts for Motors & Servos



Resources Available:

Studica Robotics offers instructions and a helpful Pushbot Build Guide that utilizes components from the FTC Starter Kit to build a two-wheel drive robot.

Robotics Kits

VMX FRC Training Bot #74000

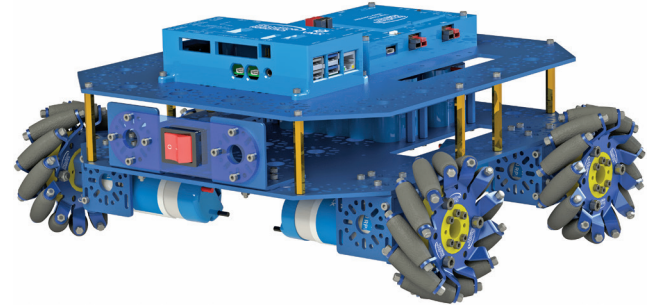
Hands-on Robotics Preparation for FRC and FTC

Let your students experience hands-on robotics with the convenient and compact VMX FRC Training Bot. This affordable robotics training tool is designed to give more students the opportunity to work on a robot. They can practice coding for teleoperated and autonomous control of the robot and learn the interface tools for devices such as a vision camera or sensor.

This versatile, intelligent, and autonomous robot uses the VMX Robotics Controller (#70176). Like roboRIO, used in FRC, the VMX allows for programming in C++, Java, and LabVIEW, but it can also be programmed in Python and ROS. Ideal for classroom learning, preparing for FRC, and for computer science to teach coding. Wi-Fi enabled, it offers a multitude of modern digital communications interfaces, and its Linux-based operating system allows users to directly access other input devices.

Included in the Kit:

- VMX Robotics Controller
- Titan Quad Motor Controller
- Assortment of Screws & Nuts
- Resource Materials
- Cables & Wires
- Remote Control
- Gear Motor
- Battery Pack
- U-Channel
- Power Switch
- Gear Motor
- Mount Plates
- Standoffs
- Brackets
- Charger
- Clips
- Tools
- Wheels
- Plates



Applications for Robotics Education:

The FRC platform is an extremely open environment allowing participants to explore cutting-edge technologies. With the VMX Training Bot students use WPILib, the standard software library used in FRC, to write code for the VMX Controller. They also have access to tools like the FRC Driver Station, SmartDashboard, and Shuffleboard to control the robot and provide visualization of the robot's data.

Due to its flexibility, the VMX FRC Training Bot offers many applications for robotics education and competition training.

Robotics Kits

Robotics Kits



The Stack Robot #70225

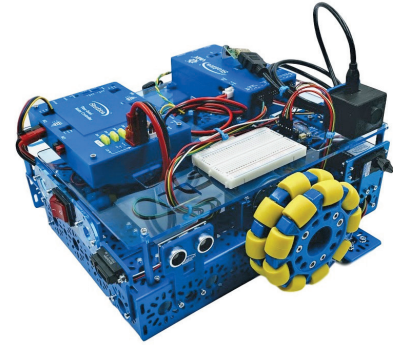
Equipped with an array of advanced sensors, including the 360 Degree LiDAR, Encoders, IMU, and the depth features from the 3D Depth Camera, the Stack Robot can be assembled quickly and the bare top plate allows you to add manipulators or other mechanisms. Ideal for exploring concepts such as SLAM, Teleoperation, Mapping, Localization, and Autonomous Mobile Robotics.



Classroom Robotics Kit

#70405

Teach coding, programming, and robotics with the Classroom Robotics Kit. This kit provides an array of parts from structural to electrical components, as well as robotics controllers essential to building a robot. Ideal for hands-on learning in the classroom and an excellent tool for preparing students for robotics competitions such as FTC, FRC, WorldSkills, WRO, and RoboCup.



Mobile Robotics VMX/Titan Workshop Kit #70203

Teach, test, and research autonomous mobile robotics and demonstrate CAN with the powerful and robust Mobile Robotics VMX/Titan Workshop Kit. This comprehensive educational resource includes a robotics controller, motor controller, various sensors, DC motor, servo motor, and omni wheel.

Robotics Kits

Robotics Kits



WorldSkills Autonomous Mobile Robotics Collection

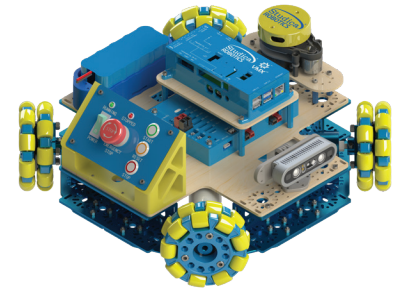
#70205

Everything needed to construct a fully operational robot capable of competing in the WorldSkills Autonomous Mobile Robotics Competition is included in this authorized collection that encompasses more than 1,600 components including the VMX Robotics Controller, 3D Depth Camera, 360 Degree LiDAR, structure, and motion components.



Mobile Robotics Junior Collection #70302

Comprised of over 1,400 items, the authorized Collected for the WorldSkills Mobile Robotics Junior Competition offers a controller, electronics, motors, structure, gears, sprockets, pulleys, belts, axles, slides, rack & pinion, wheels, bushings, bearings, coupling, collars, spacers, screws, nuts, and standoffs.



X-Drive Bot #70223

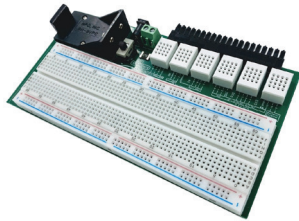
The X-Drive Robot is a robust holonomic drive base that provides equal speed in forward and sideways motions. It includes the VMX Robotics Controller, Titan Motor Controller, 360 Degree LiDAR, 3D Depth Camera and over 40 other robotics components. The X-Drive provides an ideal platform for educational and research robotics.

Drones | Training Kits



Aerial Robotics Collection #90001

Crafted with premium carbon fiber for premium performance and durability, this cutting-edge drone kit is ideal for aerial mobile robotics educational learning and competitions. The core components of this kit include Cube Orange+ and a Raspberry Pi 4B+ computer with a remarkable 4GB capacity that provides extensive programming capabilities.



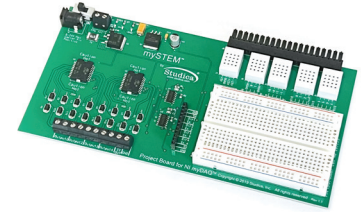
myDevBoard Prototype Board #70752

The myDevBoard is an accessory board designed to connect directly to the NI myDAQ hardware. The Protoboard consists of a prototyping space as well as each I/O line from NI myDAQ broken out through quad contact blocks to make wiring easier.



Earthquake Shaker Table #80002

Used in the classroom for STEM education, the Earthquake Shaker Table is used for data-driven design of safer buildings to simulate the shaking of structures allowing students to analyze data, test, research, and verify their designs. Use with data acquisition devices such as the NI myDAQ or similar instruments.



mySTEM™ Project Board for NI myDAQ #13-07-69007

Get more out of your NI myDAQ with the mySTEM™ Project Board, an essential tool for the introducing control systems. Ideal for STEM education, it includes learning resources to help users gather data, make decisions, and control output devices. It allows control of the state and direction of four output channels that support a wide range of field devices.

Electronics

Batteries



12V 3000 mAh NiMH Battery Pack - PP45 #70018

This nickel metal hydride, 10-cell, 12-volt rechargeable battery pack includes a 20-amp fuse. It brings long-lasting power to motors and electronics. Requires charger (#70019).



NiMH Battery Pack Charger - PP45 #70019

NiMH Battery Pack Charger, PP45, is used to recharge the 12V 3000 mAh NiMH Battery Pack - PP45 (#70018).

Cables & Wiring



Powerpole 45 Extension Cable #70021

The Powerpole Extension Cable is 50cm long and 14AWG wire gauge to handle heavier loads.



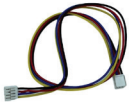
VMX Wallwart Adapter Cable #70166

The VMX Wallwart Adapter cable connects a VMX power connector to an external 12VDC Wallwart power supply.



VMX Battery Adapter Cable #70167

The VMX Battery Adapter cable connects a VMX-pi power connector to an external battery supply.



JST-GH to JST-GH Cable #70168

The JST-GH to JST-GH cable connects external sensors, breakout boards or other devices.



JST-GH to 4 Pin Dupont Cable #70177

4 Pack of JST-GH to 4 Pin Dupont cables can be used for the VMX Controller (#70716).



Servo Extension Cable #70188

This cable is 24AWG gauge, 450mm long with 3 positions, with TJC8 MH-FC on one end & TJC8 FH-MC on the other.

Electronics | Controllers

VMX Robotics Controller #70176

The VMX is a versatile Linux-based robot controller renowned for its robustness. It offers compatibility with a wide range of programming languages including Java, C++, Python, and LabVIEW, along with support for ROS.



- **Support for computer vision:** Supports OpenCV for computer vision tasks.
- **ROS compatibility:** Seamlessly integrates with the Robot Operating System (ROS).
- **NavX-IMU integration:** Integrates NavX-IMU for precise navigation and orientation sensing.
- **Vision/Motion processing:** Doubles as a Vision/Motion processor for enhanced functionality.
- **Machine learning compatibility:** Compatible with TensorFlow for machine learning applications.
- **Multi-language compatibility:** Supports Java, C++, Python, and LabVIEW programming languages.
- **Tele-op and autonomous control:** Equipped for both tele-operated and autonomous control applications.
- **SLAM technology support:** Supports SLAM (Simultaneous Localization and Mapping) for advanced navigation capabilities.
- **Connectivity options:** Features Gigabit Ethernet, USB3 ports, and built-in Wi-Fi/Bluetooth functionalities for versatile connectivity.
- **Software libraries and sample code:** Comes packed with a variety of software libraries and sample code for easy development.

Titan Quad Motor Controller #70152



The Titan is a high-performance, 4-channel CAN-based motor controller. It's an advanced device designed for precision control of up to four motors simultaneously. Its compact design and user-friendly interface make it ideal for integration into robotics and automation projects.

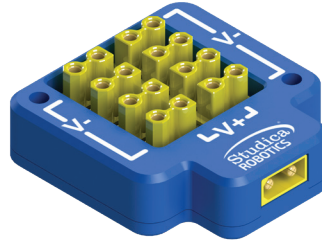
- **Powerful Control:** Capable of controlling up to four motors simultaneously.
- **Customizable:** Offers customizable speed and direction control.
- **User-Friendly Interface:** Easy to use, facilitating seamless integration.
- **Compact Design:** Its small size allows for easy incorporation into various projects.
- **Built-In Fuse-Box:** Comes with a built-in fuse-box for DC motors up to 20A.
- **Hardware Encoder Ports:** Features 4 hardware encoder ports.
- **Power Extension Ports:** Includes 2 power extension ports to power other 12VDC devices.
- **LED Controller:** Has a built-in LED controller for added functionality.

Electronics

Cables & Wiring

FTC Power Block #70407

Rev up your robot's performance with the FTC Power Block, a game-changer in facilitating seamless power connections for various devices throughout your FTC robot. This powerhouse accessory ensures that your robot operates at its full potential, delivering unmatched reliability and efficiency. Say goodbye to power-related hiccups and hello to a smoother, more robust robot performance with the FTC Power Block.



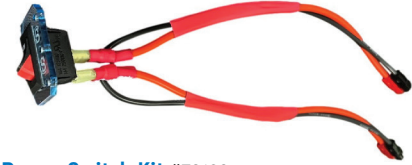
Remote Devices

Remote Control Device - USB & Bluetooth #70112

Optimized for use on many platforms, USB and Bluetooth connections are possible with this controller. Includes built-in gyroscope, accelerometer, and 3.5mm stereo interface for headphones and microphones.



Power Switches



On/Off Power Switch Kit #70182

This straightforward power switch provides seamless on/off control between a battery and your device. Equipped with a convenient mounting bracket and pre-crimped wires, it ensures easy installation. The switch comes with cURus, TUV and CQC ratings, and will fit a panel cutout of 29.2mm x 13.8mm.



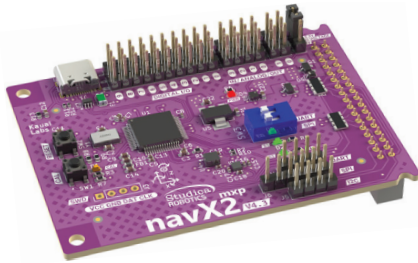
Power Control Panel #70170

The Power Control Panel includes a blue panel, emergency stop, indicator lights, an on/off switch, and 3 momentary switches for stopping, starting and resetting.



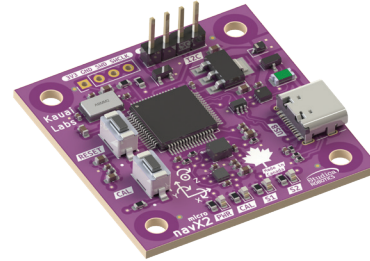
Power Switch #70183

A 16A, 125VAC on/off panel mount snap-in power switch for use with SR design builds.



NavX2-MXP Robotics Navigation Sensor #71042

Enhance your robot's movements and improve its performance of autonomous tasks with the NavX2-MXP Robotics Navigation Sensor, an IMU (inertial measurement unit) with features that calculate measurements including orientation and angular frequency. Use to perform tasks such as motion detection, automatic balancing, and field orientation driving. Designed to plug directly into the NI roboRIO, the main robot controller for FRC, this sensor gathers data and relays info to roboRIO to perform specific functions.



NavX2-Micro Robotics Navigation Sensor #71039

The NavX2-Micro stands out as the premier sensor for orientation in competitive robots. It boasts a second-generation 9-axis inertial/magnetic sensor and motion processor, tailored for seamless integration onto robots utilized in competitions like WorldSkills Robotics, FTC, and FRC. With its plug-and-play design, it elevates robot performance by providing advanced navigation capabilities.



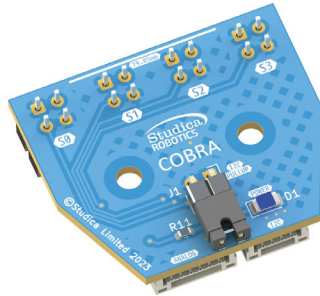
3D Depth Camera #71044

Crafted as an effective replacement for the RealSense D435, this high-definition 3D depth-sensing camera enables your robot to adapt to environmental changes on the go. It also serves as a UVC RGB webcam and supports machine vision tasks. With seamless integration with SLAM (Simultaneous Localization and Mapping) and object avoidance libraries, enabling effortless mapping of 3D environments.



360 Degree LiDAR #70500

This 2D LiDAR rotates 360 degrees to achieve high accuracy, stable performance, high-frequency, and high-precision distance measurement. Ideal for robot navigation and obstacle avoidance.



Cobra Line Follower Sensor V3

#70150

Unleash the next level of line-following prowess with the Cobra Line Follower V3. Equipped with an ADC Module, the Cobra V3 seamlessly plugs into any i2c port, offering precise sensor readings for unmatched control. A dedicated output port is available for those who prefer raw data. With an extended sensor range of 0.5mm to 20mm – the Goldilocks zone for precision tracking.



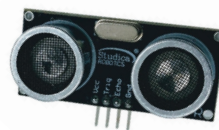
Cypher MAX Through Bore Encoder #75051

The Cypher Max combines absolute and incremental encoder technologies into one convenient solution. Achieve $\pm 1.2^\circ$ precision with PWM absolute output for precise arm movements or swerve mechanisms. The ABI incremental output features 2048 counts per rotation, ensuring unmatched control for odometry or RPM calculations. Versatile hub design accommodates various shaft sizes, allowing you to measure precisely where you need it.



Sharp IR Range Sensor (10cm to 80cm) with Wire #40117

This sensor uses infrared light to gauge distance by reflecting it off an object. Through triangulation, it delivers consistent, reliable readings, minimizing sensitivity to temperature changes or object reflectivity.



Ultrasonic Distance Sensor #70753

This high precision sensor allows for stable, accurate distance measurement and offers a full set of ranging processes and can detect blind spots up to 3 cm.



Short Lever Limit Switch with Terminals (4 Pack) #72060

A snap-action micro switch with hinged roller lever and terminals for easy wire connection.

Motion | Belts



Urethane 5mm Round Belt

3M Length #76400

5mm Round Groove Belt (aka U Groove Belt) is 3M long with a 10% stretch.



Urethane Belt Joining Kits

110V 220V

#76401 #76402

Kit provides the tools needed to cut and join a urethane belt. Recommended for Urethane Round Belt (#76400).



5mm Pitch GT2 Belts

64 Tooth 82 Tooth

#76446 #76447

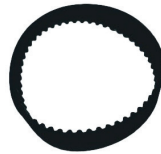
Belts are 9mm wide and made of black rubber.



GT2-6mm Timing Belt Clamp

with Set Screw #76456

GT2-6mm Timing belt clamp with set screw for use with all the GT2 belts.



GT2 Timing Belt

2mm Pitch, 6mm Width, Closed

Pack of two GT2 (aka 2GT) timing belts with a 2mm pitch and 6mm width, closed. Available length options:

108mm Length	#76457-2
140mm Length	#76458-2
160mm Length	#76465-2
190mm Length	#76459-2
240mm Length	#76460-2



GT2 Timing Belt

2mm Pitch, 6mm Width, 1000mm Open #76464-2

Pack of two GT2 (aka 2GT) timing belts with a 2mm pitch, 6mm width, and open 1000mm in length. Use with any SR GT2 pulleys and clamp kit (#76456).

Motion

Bushings & Bearings



Bronze Bushings

6mm ID x 8mm OD #76300-12

Pack of 12 bronze bushings, 6mm ID x 8mm OD, ideal for robotics design builds.



Bronze Bushings

6mm ID x 14mm OD #76301-12

Pack of 12 bushings that fit any channel and flat brackets with center hole pattern of 14mm, inside diameter fits any D-Shaft axles.



Face Bearing Block #76299

Block has an installed standard sealed bearing and 8 x M3 tapped through holes for easy mounting.



Flanged Ball Bearings

6mm ID, 14mm OD, 15mm FOD #76302-12

Pack of 12 bearings that fit any channel and flat brackets with center hole pattern of 14mm, inside diameter fits any D-Shaft axles.



Shaft Couplings

6mm ID, 12mm OD #76303-2

Pack of 2 shaft couplings ideal for use with 6mm D-Shaft axle and a 6mm shaft DC motor.



D-Shaft Collars

6mm ID, 12mm OD #76304-6

Pack of 6 D-Shaft collars with inside diameter that fits any D-Shaft axles.



Small Thrust Ball Bearings

6mm ID, 12mm OD #76325-12

Pack of 12 bearings with track grooves on the upper and lower track boards to reduce friction. Use for vertical and axial loads to withstand heavy loads.

Chains



#25 Chain

6mm ID, 12mm OD #76230

Steel roller chain with master links set with 4 master links for creating various lengths of the chain, works with SR and other #25 sprockets.



Chain Breaker Tool #76231

Tool for easily changing the length of your #25 chain. (Chain not included)

Motion

Gearing Solutions



Servo Spline Gear
30T Gear, 25T Spline #76153

Gear made of steel hardened zinc, for use with Multi-Mode Smart Servo (#75002) or Multi-Mode Smart Servo 200 (#75007).



30 Tooth Bevel Gears
1-to-1 Set #76219-2

Pack of two 30 tooth bevel gears for 1-1 drives made with steel, ideal for robotics design builds.



32 Tooth Gears #76220-2

Pack of two 32-tooth gears made with 6061-T6 aluminum, ideal for use with robotics design builds.



64 Tooth Gears #76221-2

Pack of two 64-tooth gears made with 6061-T6 aluminum, ideal for use with robotics design builds.



128 Tooth Gear #76222

Gear with 6.35mm thickness and 14mm hole diameter made with 6061-T6 aluminum, ideal for use with robotics design builds.



13 Tooth Bevel Gears #76223-2

Pack of two 13-tooth bevel gears made with 6061-T6 aluminum for use in robotics design builds.



26 Tooth Bevel Gears #76224-2

Pack of two 26 tooth bevel gears made with 6061-T6 aluminum for use in robotics design and competitions.



30 Tooth Gears #76500

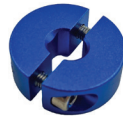
A 30-tooth gear made with 6061-T6 aluminum is ideal for robotics design builds.



90 Tooth Gears #76501

A 90-tooth gear made with 6061-T6 aluminum for use with robotics design builds.

Collars



6mm D-Shape Collar Clamp #76293

2 Piece $\Phi 20.0\text{mm} \times 8.0\text{mm}$ thick, $\Phi 6.0\text{mm}$ D hole, 2*M3 thread for M3 SHCS on the clamp side, made with 6061-T6 aluminum.



6mm D-Shape Collar Clamp #76320

$\Phi 20.0\text{mm} \times 8.0\text{mm}$ thick $\Phi 6.0\text{mm}$ D hole, 1*M3 thread for M3 SHCS on the clamp side, made with 6061-T6 aluminum.

Motion | Hubs Solutions



6mm D-Shaft Low Profile Clamping Hub #76292

Φ29.0mm*16.0mm thick Φ6.0mm D hole, an ideal fit for SR motors.



Servo Horn 25T #76148

The Servo Horn is made of anodized 6061-T6 Aluminum and is used to connect the 25T Smart Servos to the SR Building Structure.



6mm Servo Hub 25T #76149

Servo Hub made of anodized 6061-T6 aluminum, used to connect a servo motor to a D-Shaft axle.



Servo Arm Extended #76150

Made of 6061-T6 aluminum, for use with flex and drive wheels, improved Clamping Shaft Hub for the strongest hold.



Servo Arm #76151

Servo Arm, made of 6061-T6 aluminum, for use with servos (#75002 & #75007) or servos with a 25-tooth gear.



Servo Hub Pro #76152

Servo Hub Pro, made of 6061-T6 aluminum, for use with servos (#75002 & #75007) or servos with a 25-tooth gear.



Clamping Shaft Hub - v2 #76280

Made of 6061-T6 aluminum, for use with flex and drive wheels, improved Clamping Shaft Hub for the strongest hold.



Clamping Shaft Hub #76281

Clamping Shaft Hub is made of 6061-T6 aluminum for use with flex and drive wheels.



Light Weight Shaft Hubs #76282-2

Pack of 2, Light Weight Shaft Hubs made of 6061-T6 aluminum, for use with 6mm D-Shafts. Includes 5mm set screw.



6mm Shaft Hubs #76284-4

Pack of 4, 6mm Shaft Hubs made of 6061-T6 aluminum used to connect any SR wheel and motor, or any motor with a 6mm shaft.



5mm Hex Shaft Hub Kit #76288

Kit allows users w/SR Omni (#76260) or Mecanum wheels (#76246) to use REV Robotics 5mm Hex shafts & Hex motors.



1-1 Motor Kit, 6mm D-Shaft #76290

Kit allows for full motor RPM output. Use with Maverick (#75001) or FTC legal motor, support shaft with bearing (#76302).



Enhanced Wheel Hub Kit #76291

Made of 6061-T6 aluminum, ideal for use with SR Omni (#76260) or Mecanum wheels (#76246) for a strong axle hold.



Intake Hub Kit #70210

Used to create intake systems with rubber tubing (#76410), this Kit is ideal for FTC and WRO competitions.



Silicone Rubber Tubing #76410

Flexible silicone rubber tubing for use with Intake Hub Kit (#70210) to create intake systems with various lengths.

Motion

Motors



Maverick 12V DC Gear Motor with Encoder #75001

The Maverick 12V DC Gear Motor with Encoder was designed for strength to endure competitions. It has a 61:1 gear ratio and provides a stall torque of 65 min. kgf-cm.

Pulleys



Round Groove Pulleys

Round groove pulleys for use with SR design builds are available in a variety of OD sizes:

10mm OD	#76234
20mm OD	#76235
30mm OD	#76236
40mm OD	#76237
50mm OD	#76238
60mm OD	#76239



GT2-6mm Timing Belt Pulleys

GT2-6mm timing belt pulleys, made of 6061-T6 aluminum, for use with any of the GT2 belts and available in a variety of Tooth sizes:

20 Tooth	#76450
30 Tooth	#76451
40 Tooth	#76452
60 Tooth	#76453
80 Tooth	#76454



GT2-6mm Smooth Idler Pulleys

#76455
GT2-6mm smooth idler pulleys, H Type, with 3mm inner bore bearing is ideal for robotics design.

Servo Motors & Actuators



Linear Servo RC Actuator 50S-95N

#75010

- Stroke: 50mm
- Length: 118mm
- Speed (no load): 13mm/s
- Max Force: 95N
- Stall Torque: 150N



Linear Servo RC Actuator 50S-190N

#75011

- Stroke: 50mm
- Length: 118mm
- Speed (no load): 6mm/s
- Max Force: 190N
- Stall Torque: 325N



Linear Servo RC Actuator 140S-95N

#75013

- Stroke: 140mm
- Length: 208mm
- Speed (no load): 13mm/s
- Max Force: 95N
- Stall Torque: 150N



Linear Servo RC Actuator 140S-190N

#75014

- Stroke: 140mm
- Length: 208mm
- Speed (no load): 6mm/s
- Max Force: 190N
- Stall Torque: 325N

Motion



Multi-Mode Smart Servo #75002

This angular programmable Servo is built with durable all-steel gears and high torque, can fill a variety of roles on your robot or project. In standard mode, it operates on a +/- 150 degrees range, but with the Smart Robot Servo Programmer (#75003 sold separately), it can be configured for continuous rotation, standard or custom angular mode. In continuous rotation, the servo offers proportional speed control based on the PWM signal from your servo controller.



Multi-Mode Smart Servo 200 - FAST #75007

The Multi-Mode Smart Servo 200 rotates at 200 RPM and is versatile for various roles in your robot or project. It operates in standard mode within a range of +/- 150 degrees. With the Smart Robot Servo Programmer (#75003 sold separately), you can configure it for continuous, standard, or custom angular modes. In continuous rotation mode, the servo provides proportional speed control based on the PWM signal from your servo controller.

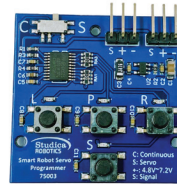


Servo Pack #70254



Servo Power Block #75006

This is a 6V, 60W power injector for high-power RC servos. It maintains input signals unaltered and delivers up to 60W of total output power across eight channels. The input and output channels accept standard 3-wire, 0.1" pitch, servo/PWM cables.



Smart Robot Servo Programmer #75003

Useful for programming the SR Multi-Mode Smart Servo motors (#75002, #75007) and for testing other standard Servos. Use it to program your Servo to switch between continuous mode, standard mode, or any custom angular mode. Requires 6V DC Battery Holder (#75004) or 6V battery pack with TJC8 connector.



6V DC Battery Holder #75004

Use it to power the Smart Robot Servo Programmer (#75003) or any other device requiring 6V output and a TJC8 connector. Uses 4 x 1.5V AA batteries (not included).

Motion

Slides, Rack & Pinion



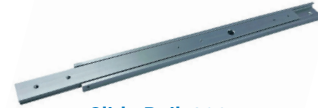
Linear Slide Sets
250mm 400mm
#72064 #72065

These linear slide sets provide precision and low friction for all your robot applications. They include a stainless-steel guide rail and ball bearing block.



Rack & Pinion Set #76170-2

Pack of 2, rack & pinion linear slide sets provides a total of 2 racks, 2 pinions, and 4 glides. The rack hole pattern matches that of the SR channel, flat beams, square beams, and flat brackets making it easy to mount on SR structure.



Slide Rail, 288mm
180mm Stroke #72066

Slide rail is made of light weight aluminum, is 24mm wide, and is perfect for building a multi-stage slide system. Closed length is 288mm, with a 180mm stroke, creating an extended length of 468mm.



Slide Rail, 384mm
240mm Stroke #72067

Slide rail is made of light weight aluminum, is 24mm wide, and is perfect for building a multi-stage slide system. Closed length is 384mm, with a 240mm stroke, creating an extended length of 624mm.

Sprockets



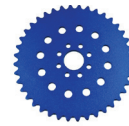
#25-24 Tooth Aluminum Sprockets
#76226-2

Pack of 2, #25 - 24 tooth sprockets for use with robotics design, made of 6061-T6 aluminum.



#25-32 Tooth Aluminum Sprockets
#76227-2

Pack of 2, #25 - 32 tooth sprockets for use with robotics design, made of 6061-T6 aluminum.



#25-40 Tooth Sprocket
#76228

A #25 - 40 tooth sprocket for use with robotics design, made of 6061-T6 aluminum.



#25-48 Tooth Sprocket
#76229

A #25 - 48 tooth sprocket for use with robotics design, made of 6061-T6 aluminum.

Motion | Wheels



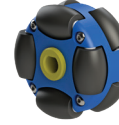
100mm Slim Mecanum Wheel Set #76246

This set includes 2 left and 2 right Mecanum wheels with steel ball bearings. Wheels have a blue steel frame and are comprised of 12 black rollers and can move in any direction. Rollers are set at 45° to the axis of rotation of the wheel. Rollers are mounted with steel ball bearings, making the roll more fluent.



125mm All-Terrain Wheel Set #76249

This set includes two left and two right rubber wheels. They have a foam core and therefore, do not require air. Wheels grip well on smooth, hard surfaces and are perfect for travel on uneven surfaces such as mulch, sand, dirt, or gravel and have been tested up to 40kg (88 lbs) using all four wheels.



38mm Omni Wheel #76259

Designed as an odometry wheel, this wheel can fit inside most channel sizes. For ease of use, three cores were designed to fit 6mm D-Shaft, 5mm Hex Shaft, and 7mm Hex Shaft. The wheel is open for easy use in any ecosystem with the provided different sized cores. Also available in a 3 Pack (#76259-3).



100mm Omni Wheel #76260

This 100mm (4 inch) double plastic Omni wheel with 6mm hub provides rotational and sideways 360° maneuverability. Great for omni directional movement and rotation, easy direction control and tracking, and for fast turning.

100mm Flex (Compliant) Wheels, 25mm wide, 1/2" Inner Hex

These 100mm (4") flex (compliant) wheels can be used for intake systems and conveyors with your robotics design builds. Available in a variety of different durometer hardness options and colors:



35A, Green
#76263



40A, Orange
#76264



50A, Blue
#76265

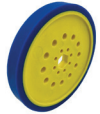


60A, Black
#76266

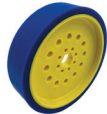
Motion | Wheels

100mm Drive Wheels, 50A, 1/2" Inner Hex, Blue

The 100mm Drive Wheels (4") can be used as a simple wheel providing good traction on carpet and tile flooring. They can also be used for intake systems. Use with 1/2" hex shaft or use 6mm shaft hub to use connect 6mm D-Shaft axles. Available in a variety of widths:



12.5mm Wide #76261



25mm Wide #76262

75mm Drive Wheel, 60A, 12.5mm Wide, 1/2" Inner Hex, Black

This 75mm drive wheel can be used as a simple wheel providing good traction on carpet and tile flooring. Ideal for intake systems and with 1/2" hex shafts or 6mm shaft hubs to connect 6mm D-shaft axles.



#76271

50mm Drive Wheels, 25mm Wide, 1/2" Inner Hex

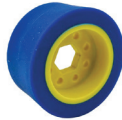
These 50mm (2") drive wheels can be used as a simple wheel providing good traction on carpet and tile flooring. Ideal for intake systems and with 1/2" hex shafts or 6mm shaft hubs to connect 6mm D-shaft axles. Available in a variety of different durometer hardness options and colors:



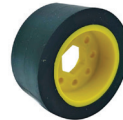
35A, Green #76267



40A, Orange #76268



50A, Blue #76269



60A, Black #76270

Shock Absorbers



Shock Absorbers

Pack of 2, 1/10 aluminum alloy shock absorbers for use with your design builds.

Lengths available:

55mm Length	#76350-2
100mm Length	#76351-2

Structure

6mm D-Shafts

Our 6mm diameter D-Shafts are made of stainless steel and are used throughout the Studica Robotics building system as drive components. The D-Shaft profile is used with pulleys, gears, and hubs when tightening the set screws and creating a non-slip connection. Available in a variety of lengths:



35mm, 6 Pack #76159-6



70mm, 6 Pack #76160-6



96mm, 6 Pack #76161-6




140mm, 6 Pack #76164-6



432mm, 2 Pack #76162-2

Low Profile U-Channel*

Our Low Profile U-Channel components are 3mm thick and have a 48mm x 14mm profile. As with all Studica Robotics building components, they have a common hole pattern which makes it easy to connect to other structure with very little or no additional machining required. Easily connects to other channel, extrusions, bushings, bearings, mounting brackets, and more allowing for quick assembly and disassembly of robots and automated systems. STEP 3D files are available for all SR components. Available in a variety of lengths:

*Available in Blue, Green, Gold, Red, Black, and Clear Anodized. 



48mm Length	#76033
96mm Length	#76032
144mm Length	#76031
192mm Length	#76030
240mm Length	#76029
288mm Length, 2 Pack	#76028-2
336mm Length	#76027
384mm Length	#76026
432mm Length	#76025




Low Profile Pack #70252

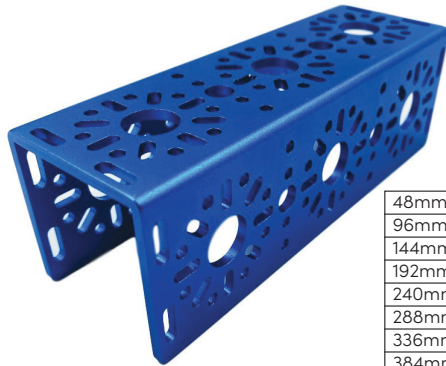
Structure

Structure

U-Channel*

*Available in Blue, Green, Gold, Red, Black, and Clear Anodized. 

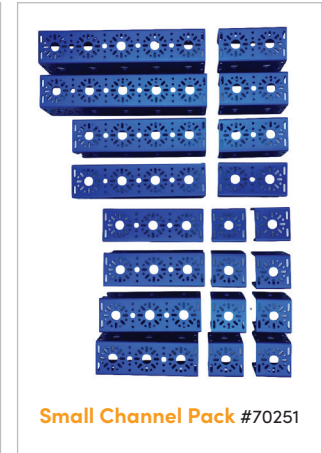
Our U-Channel components, made of 6061-T6 aluminum, are 3mm thick and have a 48mm x 48mm profile. As with all Studica Robotics building components, they have a common hole pattern which makes it easy to connect to other structure with very little or no additional machining required. Easily connects to other channel, extrusions, bushings, bearings, mounting brackets, and more allowing for quick assembly and disassembly of robots and automated systems. STEP 3D files are available for all SR components. Available in a variety of lengths:



48mm Length, 2 Pack	#76018-2
96mm Length, 2 Pack	#76017-2
144mm Length, 2 Pack	#76016-2
192mm Length	#76015
240mm Length	#76014
288mm Length, 2 Pack	#76013-2
336mm Length	#76012
384mm Length	#76011
432mm Length	#76010



Large Channel Pack #70250




Small Channel Pack #70251

Note: Color may vary from images above.

Structure

Structure

T-Slot Extrusions*

*Available in Blue, Green, Gold, Red, Black, and Clear Anodized. 

Our T-Slot Extrusions are available in 10 different lengths from 48mm to 1000mm. Made with 6061-T6 aluminum, it is both strong and light weight. You can easily cut to your own custom size. There is a 14mm through hole that will fit the SR 6mm ID x 14mm OD Flanged Bearing (#76302-12) or Bronze Bushing (#76301-12). It uses the M3 T-Slot Nut Hammer Head Series 20 (#76130). There are four M3 threaded holes on each end. Use it as structure on infinite applications. STEP 3D files are available for all SR components. Available in a variety of lengths:



48mm Length	#76128
96mm Length	#76127
144mm Length	#76126
192mm Length	#76125
240mm Length	#76124

288mm Length	#76123
336mm Length	#76122
384mm Length	#76121
432mm Length	#76120
1000mm Length	#76119

Flat Beams*

*Available in Blue, Green, Gold, Red, Black, and Clear Anodized. 

Our Flat Beams are 3mm thick and 8mm wide and made of 6061-T6 aluminum. As with the other Studica Robotics building components, it has the common hole pattern which makes it easy to connect to other structure with very little or no additional machining required. You can easily connect to other channels, extrusions, bearings, bushings, mounting brackets and more so you can quickly assemble and disassemble robots and automated systems. Ideal for rapid prototyping. STEP 3D files are available for all SR components. Available in a variety of lengths:



48mm Length	#76048
96mm Length, 2 Pack	#76047-2
144mm Length	#76046
192mm Length	#76045
240mm Length	#76044

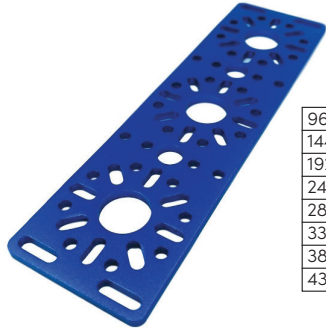
288mm Length, 2 Pack	#76043-2
336mm Length	#76042
384mm Length	#76041
432mm Length	#76040

Structure

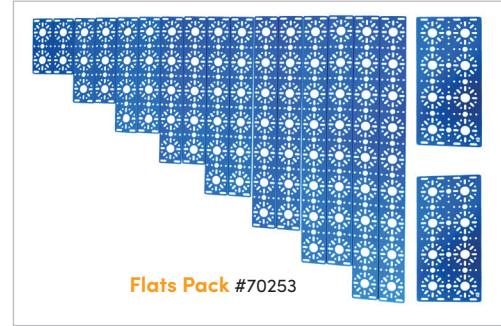
40mm Flat Brackets*

Our Flat Brackets, made of 6061-T6 aluminum, are very strong with a thickness of 3mm. STEP 3D files are available for all SR components. Available in a variety of lengths:

*Available in Blue, Green, Gold, Red, Black, and Clear Anodized. 



96mm Length, 2 Pack	#76065-2
144mm Length, 2 Pack	#76064-2
192mm Length, 2 Pack	#76063-2
240mm Length	#76062
288mm Length, 2 Pack	#76061-2
336mm Length	#76060
384mm Length	#76059
432mm Length	#76058



192mm x 96mm Flat Brackets*


#76066-2
Pack of 2 Flat Brackets, made of 6061-T6 aluminum, are very strong with a thickness of 3mm. As with the other Studica Robotics building components, they have the common hole pattern which makes it easy to connect to other structure with very little or no additional machining required. STEP 3D files are available for all SR components.



42mm Hinge with Bearings*

#76312
Made from 6063 aluminum and anodized in blue, the 42mm Hinge with Bearings connects to the SR structure hole pattern such as the channel, plates, and beams. The holes are 3.2mm diameter to use with the M3 screws.



*Available in Blue, Green, Gold, Red, Black, and Clear Anodized. 

Structure

Structure | Irregular Brackets

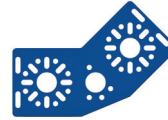
*Available in Blue, Green, Gold, Red, Black, and Clear Anodized. 



120 Degree Brackets* #76080-2
Pack of 2 brackets ideal for connecting two channel pieces at 120 degrees from each other. Each side is 48mm wide to fit perfectly on the channel.



90 Degree Brackets* #76081-2
Pack of 2 brackets ideal for connecting two channel pieces at a 90 degree angle from each other. Each side is 48mm wide to fit perfectly on the channel.



135 Degree Brackets* #76082-2
Pack of 2 brackets ideal for connecting two channel pieces at 45 degrees from each other. Each side is 48mm wide to fit perfectly on the channel.



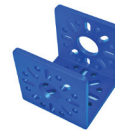
96mm Adjustable Flat Brackets* #76083-2
Pack of 2 brackets that are 3mm thick and are ideal for connecting two channel pieces together at various angles.



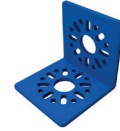
T Brackets* #76084-2
Pack of 2 T brackets ideal for connecting two or three channels together. Each side is 48mm wide to fit on the U-Channel, low profile U-Channel, or other brackets.



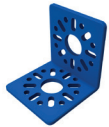
X Brackets* #76085-2
Pack of 2 X brackets ideal for connecting four channel pieces together. Each of the 4 sections is 48mm wide and the overall dimension is 144mm x 144mm.



Inside U Brackets* #76086-2
Pack of 2 brackets that are 42mm x 45mm made from 3mm thick heavy 6061-T6 aluminum for use inside U-Channels or low profile U-Channels.



L Brackets* #76087-2
Pack of 2 L brackets that are 48mm x 48mm made from 3mm thick heavy 6061-T6 aluminum for use outside U-Channels or low profile U-Channels.



Inside L Brackets* #76089-2
Pack of 2 brackets that are 42mm x 45mm made from 3mm thick heavy 6061-T6 aluminum for use inside U-Channels or low profile U-Channels.



IR Range Sensor Brackets #40118
This bracket can be used to secure the IR Range Sensor (#40117) to the SR build structure.




Ultrasonic Distance Sensor Brackets #40238
This bracket can be used to secure the Ultrasonic Distance Sensor (#70753) to the SR channel.



Structure

Structure

L-Beams*

*Available in Blue, Green, Gold, Red, Black, and Clear Anodized. 

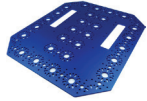
Our L-Beams, made of 6061-T6 aluminum, are very strong, 3mm x 14mm wide and light weight. They can be easily cut to a custom size. The hole pattern matches the hole patterns in the Studica Robotics U-Channel, Low Profile U-Channel, and the various plates. Ideal for rapid prototyping. STEP 3D files are available for all SR components. Available in a variety of lengths:



48mm Length, 2 Pack	#76118-2
96mm Length, 2 Pack	#76117-2
144mm Length, 2 Pack	#76116-2
192mm Length, 2 Pack	#76115-2
240mm Length, 2 Pack	#76114-2

288mm Length, 2 Pack	#76113-2
336mm Length, 2 Pack	#76112-2
384mm Length, 2 Pack	#76111-2
432mm Length, 2 Pack	#76110-2

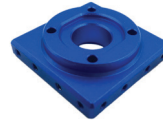
Mounting Brackets & Plates



Robot Base Plate
(288mm x 336mm x 3mm) #74001
This base plate is 3mm thick and designed to connect easily to other structures.



Battery Clips #76088-2
Pack of 2 battery clips used to attach the Studica Robotics battery to the channel.



Orbital Motor Mount #76138
The orbital motor mount is used to fasten an orbital motor to U-Channel.



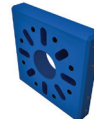
Motor Mount Plate Leaf #76139
Designed for use with the Maverick 12V DC Gear Motor (#75001) to attach it inside any of the SR U-Channels.



Motor Mount Plate #76140
Designed for use with the Maverick 12V DC Gear Motor (#75001) to attach it inside any of the SR U-Channels.



Motor Mount Clamp Kit #76141
Use this kit when fastening motors on body and attaching the kit to channel and other structure.



End Piece Plates #76143-2
Pack of 2 end piece plates, commonly fastened to the inside end of the U-Channel.



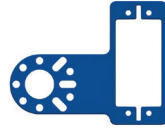
Servo Standard Front #76144
This mounting bracket is an option for mounting Multi-Mode Smart Servo (#75002) to SR structure.

Structure

Structure | Mounting Brackets & Plates



Servo Mount Flat Plate #76145
The servo mount flat plate is an option for mounting Multi-Mode Smart Servo (#75002) to SR structure.



Servo Mount Offset Plate #76146
The servo mount offset plate is an option for mounting Multi-Mode Smart Servo (#75002) to SR structure.

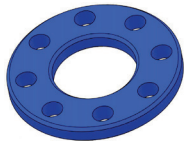


Threaded Joiner Plates #76502-6
Pack of 6 threaded joiner plates used for joining two different structure components together, like U-Channel and brackets.



Threaded Pattern Plates #76503-6
Pack of 6 threaded pattern plates used for joining two different structure components together.

Spacers



3mm Pattern Spacers #76294-10
Pack of 10 pattern spacers, made of Delrin, OD Φ 20.0mm*ID14.0mm, *3.0mm thick, with 8* Φ 3.50mm holes.



Nylon Shaft Spacers

Our nylon shaft spacers are ideal for spacing gears, sprockets, wheels, and other parts along a 6mm shaft. OD Φ 10.0mm*ID6.0mm. Mix and match various spacer thickness. Thickness options available:

1mm Thick, 24 Pack	#76305-24
2mm Thick, 24 Pack	#76306-24
5mm Thick, 12 Pack	#76307-12
20mm Thick, 6 Pack	#76308-6



3M Screw Spacers

Our nylon screw spacers are ideal for spacing gears, sprockets, wheels, and other parts along a 6mm shaft. OD Φ 10.0mm*ID6.0mm. Mix and match various spacer thickness. Thickness options available:

1mm Thick, 25 Pack	#76309-25
2mm Thick, 25 Pack	#76310-25
5mm Thick, 10 Pack	#76311-10

Structure

Structure

Square Beams*

*Available in Blue, Green, Gold, Red, Black, and Clear Anodized. 

Our Square Beams, made of anodized 6061-T6 aluminum, are 8mm x 8mm wide. As with all Studica Robotics building components, they have a common hole pattern which makes it easy to connect to other structure with very little or no additional machining required. You can easily connect to other channel, extrusions, bushings, bearings, mounting brackets and more so you can quickly assemble and disassemble robots and automated systems. Ideal for rapid prototyping. STEP 3D files are available for all SR components. A variety of length options are available.



48mm Length	#76108
96mm Length	#76107
144mm Length	#76106
192mm Length	#76105
240mm Length	#76104

288mm Length	#76103
336mm Length	#76102
384mm Length	#76101
432mm Length	#76100

Standoffs

Our standoffs are made of 6061-T6 aluminum with a thread of M3. They can be used to space parallel plates, channels, brackets, and more. STEP 3D files are available for all SR components. A variety of length options are available.



25mm Length, 12 Pack	#76182-12
42mm Length, 12 Pack	#76180-12
48mm Length, 12 Pack	#76181-12
52mm Length, 10 Pack	#76183-10

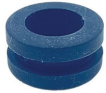


25mm Male to Female Standoffs #76184-12

Pack of 12, 25mm male to female standoffs made of made of 6061-T6 aluminum with a thread of M3. They can be used to space parallel plates, channels, brackets, and more. STEP 3D files are available for all SR components.

Hardware

Bumpers & Feet



Rubber Grommets #76504-10

Pack of 10 rubber grommets made for SR channel, plates, or any structure with a 14mm hole. Perfect for wire protection or as a bumper.



U-Channel Bumpers #76505-4

Pack of 4 bumpers that attach to the end of the SR 48mm U-Channel, preventing damage.



Rubber Feet #76506-4

Pack of 4, nylon rubber feet for use with SR structures and beyond.

Screws

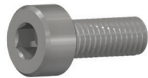


M3 x 10mm Button Head Cap Screws, 50 Pack #76203-50
Pack of 50 M3 x 10mm button head cap screws that are zinc plated.



M3 Socket Head Cap Screws
100 Pack - Available in a variety of lengths.
Pack of 100, zinc plated M3 socket head cap screws.

8mm Length, 100 Pack	#76200-100
10mm Length, 100 Pack	#76201-100
12mm Length, 100 Pack	#76202-100



M3 Socket Head Cap Screws
50 Pack - Available in a variety of lengths.
Pack of 50, zinc plated M3 socket head cap screws.

6mm Length, 50 Pack	#76213-50
20mm Length, 50 Pack	#76209-50
25mm Length, 50 Pack	#76214-50
30mm Length, 50 Pack	#76206-50

Nuts



M3 Kep Nuts #76204-100
Pack of 100 M3 Kep nuts.



M3 Nyloc Nuts #76205-100
Pack of 100 M3 Nyloc nuts.



M3 T-Slot Nuts #76130
Pack of 100 M3 T-Slot nuts.

Hardware | Tools



2.5mm Hex Ball End Screwdriver #70142

This 2.5mm hex ball end screwdriver for use with most of the M3 screws.



5.5mm Nut Driver #70146

A 5.5mm nut driver tool for use with robotics build designs.



5.5mm Combination Wrench #70145

This 5.5mm combination wrench for use with robotics build designs.



5.5mm Combination Flex Head Ratchet Wrench #70147

A 5.5mm combination flex head ratchet wrench for use with robotics build designs.



Hex Key Metric 7 Piece Set #70144-7

There are 7 color pieces with sizes ranging from 1.5 to 6mm. They feature a non-slip handle, and come with both ball-end and straight-end options.



Powerpole Crimp Tool 15, 30, 45 #70143

The Powerpole Crimp Tool 15, 30, 45 crimping tool provides a positive crimp on the 15, 30 & 45 amp contacts manufactured by Anderson Power Products.



iCrimp Insulated Terminal Ratchet Wire Crimping Tool Kit

IWS-03C+KIT285

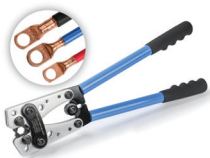
Insulated terminal ratchet wire crimping tool kit that comes with 285pcs -18 types of insulated wire terminals connectors-spades/rings/butt connectors from AWG 22-10/0.5-6mm².



iCrimp Ferrule Crimping Tool Kit

HSC86-4+E-770

iCrimp Ferrule Crimping Tool Kit, AWG 23-10 is a self-adjustable Ratchet Ferrule Crimper Plier with 770End Sleeve Ferrules Connector Terminals.



iCrimp Cable Lug Crimping Tool

HX-50BI

A cable lug crimping tool for use with your robotics builds and competitions.



iCrimp Open Barrel Crimper

IWS-2412M

This open barrel crimper tool is designed to crimp non-insulated open barrel, OEM-style terminals.



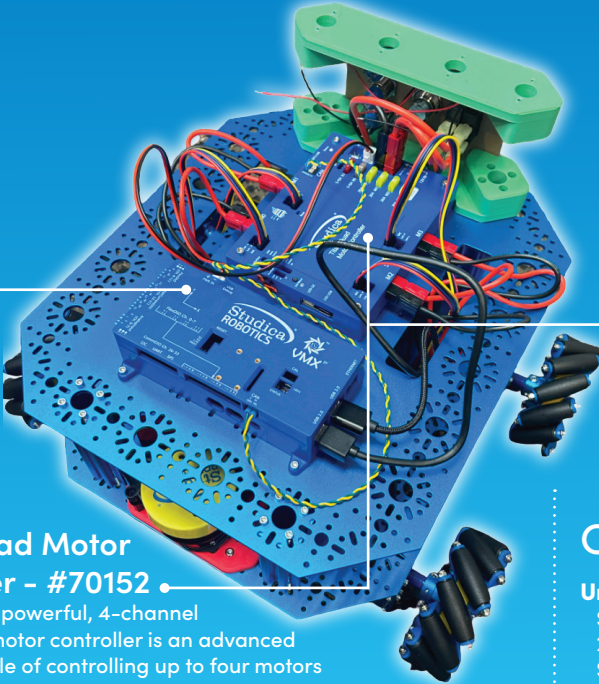
iCrimp Mini Micro Open Barrel

Crimper - IWS-2820M

A mini micro open barrel crimper for use in your robotics designs for competitions.

VMX Robotics Controller - #70176

The VMX stands out as a powerful robotics controller and a Linux-based desktop computing platform in one! This controller can be programmed with Java, C++, Python, LabVIEW, and supports ROS. It comes packed with software libraries, sample code, and doubles as a Vision/Motion processor. - See Page 10



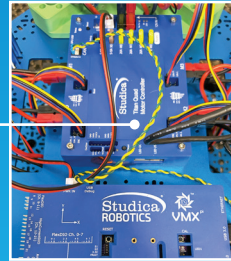
Titan Quad Motor Controller - #70152

The Titan is a powerful, 4-channel CAN-based motor controller is an advanced device capable of controlling up to four motors simultaneously with precision. It offers customizable speed and direction control with a user-friendly interface and compact design to ensure easy integration. - See Page 10



Cypher MAX Through Bore Encoder - #75051

Elevate your robotic precision with the Cypher Max – the ultimate fusion of absolute and incremental encoder technology in one user-friendly package. - See Page 13



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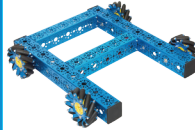


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on your order!

See page 2 for details.

Innovative Robotics for Competitions and STEM Education

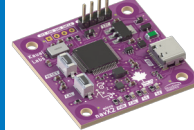
Robotics Kits



Training Robots



Electronics



Motion



Structure



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