

V4 Sonar sensors			Vex cart	d124
Vex LED modules			Vex cart	d124
393 Motors	https://www.vexrobotics.com/motors.html		Vex cart	d124
84 tooth sprockets	https://www.vexrobotics.com/v5-sprockets.html		Vex cart	d124
Alligator clips			Vex cart	d124
Hex screws			Green Yellow Pink fasteners	D125
Standoffs	https://www.vexrobotics.com/standoffs-8-32.html		Green Yellow Pink fasteners	D125
Nylon spacers	https://www.vexrobotics.com/spacers-washers.html		Green Yellow Pink fasteners	D125
Keps nuts	https://www.vexrobotics.com/nuts-8-32.html		Green Yellow Pink fasteners	D125
Nylocks	https://www.vexrobotics.com/nuts-8-32.html		Green Yellow Pink fasteners	D125
Gussets	https://www.vexrobotics.com/gussets.html		Green Yellow Pink fasteners	D125
T-Joints	https://www.vexrobotics.com/gussets.html		Green Yellow Pink fasteners	D125
Bearing Flats	https://www.vexrobotics.com/v5-bearings.html		Green Yellow Pink fasteners	D125
Intake Rollers	https://www.vexrobotics.com/intake-roller.html		Green Yellow Pink fasteners	D125
License Plate bolts	https://www.vexrobotics.com/v5-bearings.html		Green Yellow Pink fasteners	D125
Lock Bars [bearing]	https://www.vexrobotics.com/v5-bearings.html		Green Yellow Pink fasteners	D125
Lock Bars [metal]	https://www.vexrobotics.com/275-1065.html		Green Yellow Pink fasteners	D125
Washers	https://www.vexrobotics.com/spacers-washers.html		Green Yellow Pink fasteners	D125
Standoffs	https://www.vexrobotics.com/standoffs-8-32.html		Green Yellow Pink fasteners	D125
Plus plates	https://www.vexrobotics.com/gussets.html		Green Yellow Pink fasteners	D125
Nylocks	https://www.vexrobotics.com/nuts-8-32.html		Green Yellow Pink fasteners	D125
Shaft Collars	https://www.vexrobotics.com/v5-shaft-collars.html		Green Yellow Pink fasteners	D125
3.5 inch trampoline spring			9 fastener hardware bin 5	
				D125
PVC				
Electrical bag			1 Cart C	
General tool bags				
Bungee Cords (electrical)			8	
Robot cameras			8 programming carts	
Brushless motors			19 Milwaukee bins	
Talon motor controllers			22 cart a	
			3	
Roborrios 2.0		4 working, 1 broken		
PDH			2 cart c	
PDP			3 cart c	
Radios			4 cart d	
Pneumatic Hub			2 cart d	
NEOs (Not tested)			35 milwaukee bins	
navX			2 cart c	
VRMs			5 cart d	
Circuit Breakers			6 cart c	
Falcons (Not tested)			9 cart c	
RPM (incomplete)			2 cart d	
BAG motor			9 cart c	
New Sparks			32 Milwaukee case + old sparks in cartD	
Planetary Gearbox			13 Build Cart A	
Dino Nuggets				
Old arm parts			Build Cart A	
Climb stuff			Build Cart A	
Bumper brackets and fasteners kit			1 Build Cart A	
Versaplanetary gearbox			14 Build Cart A	
MK2 Swerve			4 Build Cart A	
MK4 Swerve			5 Build Cart A	
Intake prototype parts			Build Cart B	
6" Mecanum wheels - hex bore			5 Build Cart B	
4" green compliant wheels			4 Build Cart B	
3" green compliant wheels			2 Build Cart B	
hex bore colson wheel			1 Build Cart B	
Chain gear 28 spokes			15 Build Cart B	
2" compliant wheels			1 Build Cart B	
Pulleys			Build Cart B	
Hex Shaft Collars		lots	Build Cart B	
Round shaft Collars		lots	Build Cart B	
Spacers		lots	Build Cart B	
Velcro				
Belt Chains			51 Build Cart B	
blue pleather		2 small sheets-	Right of cart D	
red pleather		1 small sheet		
blue cordura			1	
red cordura		check bumper materials		
Small L/C channel			Build Cart B	
3/4 milwaukee bins thick			18 Back of shop under tables	
3/4 milwaukee bins thin			15	
2/3 milwaukee bins thick			1	
2/3 milwaukee bins thin			10	
size 12 Socket 0460-204-12141 12, 14 Ni			32 Electrical Cart C	
size 16 Socket 0462-201-16141 16, 18, 20 Ni			144 Electrical Cart C	
ferres pins			45 Electrical Cart C	
size 20 Pin 0460-202-20141 20 Ni			15 Electrical Cart C	
size 16 Socket 0462-209-16141 14 Ni			9 Electrical Cart C	
size 20 Pin 0460-202-2031 20 Au			126 Electrical Cart C	
size 20 Socket 0462-201-2031 20 Au			112 Electrical Cart C	
size 16 Pin 0460-202-16141 16, 18, 20 Ni			104 Electrical Cart C	
size 16 Pin 0460-215-16141 14 Ni			9 Electrical Cart C	
Bag Motors			Electrical Cart C	
misc. motor ele. NEOS AND FALCONS			Electrical Cart C	
Spacers	Wooden?		16 Electrical Cart C	
RSL/RADIOS	there is two power cordes with them		4 Electrical Cart C	
			Electrical Cart C	
Pneumatic Hubs			3 Electrical Cart D	
Pneumatic Tanks/Compressors AVT-PP-35			7 cart d	
Pneumatic Mounts AVT-PF-CL			21 Electrical Cart D	
roboRIO pin saver kit			2 Electrical Cart D	
1/2" pinch clamps			9	
1/2" x 1/2" coupling			2	
assorted Pneumatic couplings/pipes		lots	Electrical Cart D	
BIMBA pneumatic acesyory supplies			Electrical Cart D	
BIMBA pneu-turn			1 Electrical Cart D	
Thomas piston air compressor			1 Electrical Cart D	
3D printer filament	Black, darkblue 2x, light blue, white			
Pneumatic tubing			Electrical Cart D	
Unsed crimped wires			Electrical Cart D	
SPARK MAX Mounting Bracket			19	
Assorted 3d printed electrical mounts			Electrical Cart D	
Heat shrink tube (kits)			Electrical Cart D	
Cable routing (zip ties)			Electrical Cart D	
Solenoid valves	Hard tubing also		Electrical Cart D	
Solder seal wire connectors			Electrical Cart D	
Data/Network Modular Plugs			Electrical Cart D	
VRRM			4 Electrical Cart D	
Electrical wire	Assorted, red, white, black, brown; gauge ranging from 10-20		Electrical Cart D	
Rev robotics joiner board			Electrical Cart D	
molex SL Modular connectors and cables			Electrical Cart D	
1" x 1.5" Housing				
Vex Pro 1M Cable			2	
			3 Electrical Cart D	
DVD writer			programming cart	
Speaker cable			Electrical Cart D	
Wire terminal assortmant	from performance tool			
Battery wires			Electrical Cart D	
RGB LEDs and controllers			Electrical Cart D	
Mixed Nuts			Under chopsaw workbench	
Misc. Parts			Under chopsaw workbench	
Gear Box			Under chopsaw workbench	
Electrical soldering			Under chopsaw workbench	
Spacers 1			Under chopsaw workbench	
Electrical			Under chopsaw workbench	
Pneumatics			Under chopsaw workbench	
Drive Train			Under chopsaw workbench	

sliding robot carts and in the sliding robot FR FR ONG AMI RIGHT?!

Wood balls		
Metal balls		
Golf balls		
Stepping motor		Shelf a
Assorted Plastic		Shelf a
Heat Finder laser		around room on student resource cart
Mini solar panels		Shelf a
Thermomotors		Shelf a
Light		Shelf a
Light bulbs and lamps (assorted)		Shelf a
Tinker Boxes (nuts, bolts, screws, shaft		
16 Green Motors		vex cart
5 packs of 6 (30) High strength red gears v2		Shelf a
(28) High strength shaft insert kit		Shelf a
2 packs of Smart cables		Shelf a
2 packs of Screw 6-32x0.250"(200)		Shelf a
Smart motor threaded insert		Shelf a
24t sprocket		Shelf a
Turnable bearing kit		Shelf a
High strength shaft spacer		Shelf a
High strength 4 inch long shaft		Shelf a
9 V5 Optical sensor (Individually packed)		Shelf a
14 packs of 8 high strength gear v2		Shelf a
2 packs of 8-32 x0.500 (200)		Shelf a
10 v5 rotation sensors		Shelf a
20 high strength shaft spaces		Shelf a
6 New claws		Shelf a
Vex footballs		8 game piece bag outdoor
Vex green balls		19 game piece bag outdoor
wiffleballs		15 game piece bag outdoor
Basketballs		6 game piece bag outdoor
Foam balls (yellow, gray)		7 game piece bag outdoor
Soccer balls		1 game piece bag outdoor
frisbees		5 game piece bag outdoor
Large Tennis balls		8 game piece bag outdoor
kickballs	2 (deflated)	game piece bag outdoor
Purple cubes		9 game piece bag outdoor
Yellow cones		1 game piece bag outdoor
Small Tennis balls		18 game piece bag outdoor
Yellow gears		2 game piece bag outdoor
Giant frisbee		1 game piece bag outdoor

mecanum wheels - 6inch diam	box full
Omni wheels - 6inch diam	box full
8.5 inch diam wheels	4
Vex Versa Wheels	5
Sand paper	3 boxes
Diffy Wheels 6 inch	2 boxes
Thin wood bars	box full
crossbow	1
Tread	1 box
Structure axels	1 box
recycled tubing/rods	2412
Pneumatic pistons and air tanks	half a box
Plastic gearboxes	
Wood and polycarb sheets	
Batteries	

railing

ratchets

mounting brackets milwaukee

mounting rings for floor and wall

screws for anchoring

Sensory Mics - 4

- Grove PIR motion sensor
- Grove Airquality sensor
- Raspberry PI sense hat
- Grove Barometer sensor
- Grove Accelerometers

PI 3 - Z

- Raspberry pi3 model B

MBOT - 3

- Makeblock MBOT educational robot kits

DENA SPARKS 122/2801 - 4

- Makeblock MBOT educational robot kits

WIOS - 5

- WIO terminals

GROVE Starter kit - 6

- Grove starter kits for azure lot edge

GROVE AzureIoT Edge PI kit - 7

- Grove starter kit for azure lot edge

WIOS - 8

- Grove starter kits
- STM32 development tools
- Wioterminals

Grove starter kits - 4

- Grove starter kits

Pi 4

led screen

lcd screens

raspberry pi sensors

raspberry pi cases

raspberry pi power cords

raspberry pi

Name:		Quantity:
Pink Cable CAT 4	CAT 4 x 3	200 + ft
Grey Cable CAT 4		700 + ft
Orange Cable 2 Pairs Cat 2	CAT 2	30ft
Battery Holders		14
Belts		4
Turntable		1
Box of scrap aluminum		2
Omni Wheels		7
Traction Wheels		45
6in. Plaction Wheels		16
6 in smooth grip wheels		25
8 in smooth grip wheels		10
6 in high grip wheels		4
4 in Plaction Wheel		4
2 in dura-omni roller		60
3 in 3D Printed mechanum wheels		7
Performa Wheel 4 x 78		5
Box of partially built robot parts		1
Silver Shepard Castor Wheel		4
Mechanum rollers		35
Cheng shin tire 200 x 50		4

3.5in performance wheel with 0.5 in hex bore	6
Box of cables	1
Box of pneumatics parts	1
6 in performance wheel with 1 in bearing bore	2
8 in plaction weel with brown nitrile treat	2
10 in pneumatic tire with wwhite hub	2
casters (various sizes)	50
Box of screws and washers (various sizes)	1
Erector Robotics Kit (Some parts may be missing)	1
4 in pneumatic wheel w/ plastic interior	2
CIM Motor	6
Box of treads (various sizes)	1
Frasure MI-RR 754	2
Box of FRC electrical parts	1
Box of gears and chains	1
AL-KO replacement wheel	2
2 in smoot hgrip wheels	5
Rod end with female thread, EBRI igubal®, spherical ball iglide® various sides	40
Ladedda 70mm clear rubber wheel	2
3 in polyonifin whee lfor castor	2
mechanum wheel plates	8

42 tooth 5 mm plastic pulley	1 box
48ish tooth 0.5 in nub bore 2.75 in wide aluminium pulley	2
bore pulley (various sizes)	12
metal gear 28 teeth 1/8 0.6	1
Box of Random Parts	1
5 new cim motors	
16 used cim motors	
5 mini cim motors	
1 PG71 gearmotor	
2 cim motor pneumatic gearboxes	
1 disassembled sim motor	

Link: <https://firstfrc.blob.core.windows.net/frc2023/KOP/2023KOPChecklist-BlackTote.pdf>

Item Description:	Quantity:
Scotch Linerless Rubber Splicing Tape	1
Temflex Black Vinyl Electrical Tape	1
Temflex Red Vinyl Electrical Tape	1
Assorted Terminal Kit	1
Wire Black 6 AWG 1 1/2ft length	1
Wire Red 6 AWG 1 1/2ft length	1
Wire 12 AWG Red and Black 15ft each	1
Wire 18 AWG Red and Black 10ft each	1
Vulcan Springs Packet	1
Grip Length 18 in length	1
Bumpon Sheet of 56	1
Bumpon Sheet of 24	1
Ethernet Cables	1
Main Circuit Breaker	1
POE Injector Cable	1

Wheel Kit	1
2 Wire Jumper Cable	1
CAN Wire	1
PWM Cable	5
igubal® spherical rod end bearing	2
igubal® spherical flange bearing	2
iglide® plastic sleeve bearing	2
iglide® plastic flange bearing	2
iglide® plastic thrust washer	2
iglide® clip bearing	4
drylin® N linear guide system	1
drylin® N Aluminum Shafting	2
e-chain® cable carrier	1
Energy Chain® cable carrier brackets	2
iglide® Tribo-Tape	1

chainflex cable	1
Circuit Breaker 20A	2
Circuit Breaker 30A	2
Circuit Breaker 40A	6
Dual Lock Reclosable Fastener 12 ft.	1
VHB Tape	1
High Performance Ultrasonic Rangefinder	1
CIM Motor	2
RSL	1
Battery Connector	1
Battery	1

Hex Shafts 1/2 in rounded, 36 in 4

MAX Tube 5

Max Tube Endcap 5

Analog Pressure Sensor 1

NEOs with pinions 4

48:1 Falcon Sport Gearbox 2
some Bearing Blocks/ Gearbox Blocks

Pack of 100 Nyloc 10-32 nuts 1

DualVee Wheels Size 2 18

36 in by 36in 1/4 polycarbonate sheet

12 intake mecanum wheels 2in

10 hex shaft collars

10 sushi wheel hex 2 in

2 in width : 1/16 in thickness rubber tape more 5 feetish

Usbc charger

Usb c adapter with hdmi usb, usb c

60 Wago in-line

Cat tongue tape 10 feet x 2

Chain assembly cresc 3

5.5 mm power supply 6

Toggle clamp quick re 4

Belt tensioner 1

Max planetary 90 deę 3

Max planetary base k 8mm xs rounded hex 2 m sensor	3
20dp .5 hex 18t	4

Magnetic limit switch
2m distance sensor
4 pin sensor cables
4 pin joiner board
Robótico i2c cable
Max 1/2 in hex coupler
Max 90 degree gearbox
Anderson copper battery cable assembly 6 gauge w/ lug terminal clamp red
10/32 keep nuts stainless
12 gauge red black cord
20 gauge red black cord
Power pole insertion tool
Tinned copper lug 6 gauge
90 degree usb adapter
3/8 hex x .165 thunder hex
Frc 2024 ti Mechanical parts did not arrive
1/4 in mdf

MDF
plywood
scrap bin

Size	Feet	Flat stock	What we want			
1 1/2 x 1 1/2	30ft	12 x 6 x 1/8	6 plates	12 x 12 x 1/4		
2 x 2	36ft	24 x 6 x 3/16	1 plate		3/16 3 Flute	2 - 3 bits https://www.the-carbide-end-mill-store.com/m5/120-3187-3-16-square-end-mill-standard-length-htc-120-3187-3fl-ap-30.html
1/2 x 1/2	59ft				1/8 3 Flute	2 - 3 bits https://www.the-carbide-end-mill-store.com/m5/120-3125-1-8-square-end-mill-standard-length-htc-120-3125-3fl-ap-30.html
2 x 1	10ft				Face mill?	1 bit https://www.amazon.com/CNC-Router-Shank-Wood-NITOMAK/dp/B07WCG85HJ/ref=pd_rhf_d_sr_s_pd_crtd_scd_2_1/145-798676-1706120?pd_rd_w=5GQwH&content-id=amzn1.sym.cce83ff1-8fc1-4533-a3f5-bd0998f5588d_of_rd_p=cce83ff1-8fc1-4533-a3f5-bd0998f5588d_of_r_n-DIPW5V9022ERFR200FApd_rd_wq=12a458pd_rd_r=ee95ebaf-49b-4610-b27b-f8aa566f792e&pd_rd_i=B07WCG85HJ&psc=1
1 1/2 x 1 1/2 C Channels	51ft				MDF spill boards	26x31 https://www.lowes.com/pd/MDF-Actual-0-75-in-x-49-in-x-8-083-fl/1000075253
1/2 x 1/2 C and U Channels	18ft				Adapters	
1 inch pipe piece (diameter)	6 1/2 ft				1/4 3 Flute	1/4 to 3/16 1 - 2 bits https://www.the-carbide-end-mill-store.com/m5/120-3250-1-4-square-end-mill-standard-length-htc-120-3250-3fl-ap-30.html
2 x 1	8ft					
3 x 1	8ft					
1 x 1 L Channel	32ft					
3/4 x 3/4 L Channel	30ft					
2 x 1 1/2	9ft					
Churros	21.5 ft					
1 x 1/2 (U Channels/Prototyping stock)	6ft					
45 1/8 x 1 Arrow beam	45 1/8 in					
1 x 1/2	71in					
1/2 hex rod	5ft					
2 x 1 L plank	85 in					

Wishlist:

[Dream Wishlist + Stuff \(google.com\)](#)

Size/Type:

Quantity: Found:

10-32 x 4 Socket Head Cap Screw	20	
Alloy Steel Hex Flat Head Cap Screw 10-32 x 2	100	
10-32 x 5 Socket Head Cap Screw	10	7
Socket Head Cap Screw 10-32 x 1/2	25	
Alloy Steel Hex Flat Head Cap Screw 10-32 x 1	100	
10-32 Rivet Nut	50	
8-32 Rivet Nut	25	
10-32 x 1 1/2 Socket Head Cap Screw	50	
Button Socket Head Cap Screw 10-32 x 1 1/4	15	
Socket Head Cap Screw 10-32 x 1	50	
1/4 Nut	50	
Steel Full Nylock Nut 10-24	20	
Mellewell #8-32 Nut	100	
Hex Flat Head Screw 10-32 x 3 1/2	20	
Hex Flat Head Screw 10-32 x 1/2	100	
Hex Flat Head Screw 10-32 x 3 1/2	20	

Inventory parts

Bin (label after evaluation)

Electrical

NEO Rev21-1650 Brushless motor	10 (one one gearbox)	B
Falcon 500 Talon FX motor	2	B
AndyMark gearbox	1	B
Light strip	1	A
REV Radio Power Mod.	1	
PDP	2	C
VRM	5	C
Circuit breaker	4	C

Air-related

43DP Piston	1	A
1.7MPa Piston	1	A
96DP Piston	1	A
VIAIR 090 air compressor	1	A
Pneumatic hose fitting	1	A

Cosmetic

Spare numbers for bumper	1	A
Double-digit RED bumper numbers	2	A
Pre-made mounts	17	D