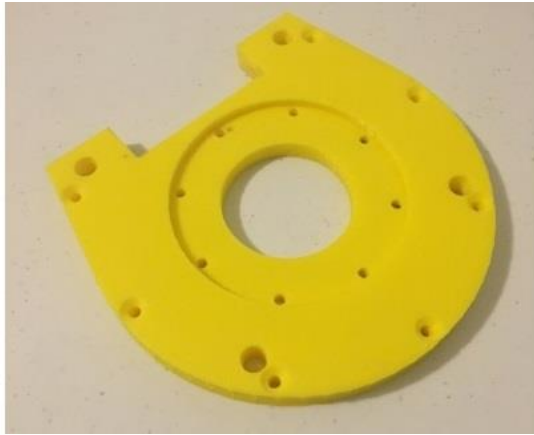


Model AR2 Robot

BILL OF MATERIALS

Printed Components

- ▶ Components printed out of ABS
- ▶ Printed with thick shells
- ▶ Printed 2mm thick layers
- ▶ Unless otherwise noted most parts printed 50% solid
 - ▶ (spindles and stress bearing components printed 100% solid)



J1 base plate part 1



J1 base plate part 2

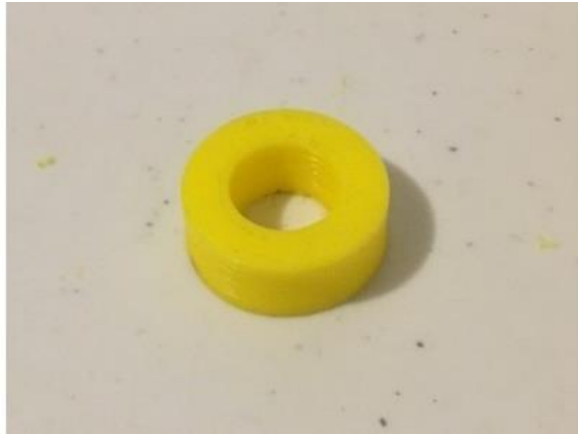


Base support part 1

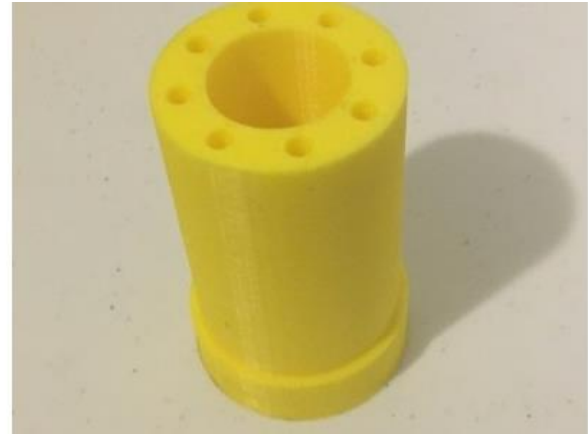


Base support part 2





J1 alignment plug



J1 spindle

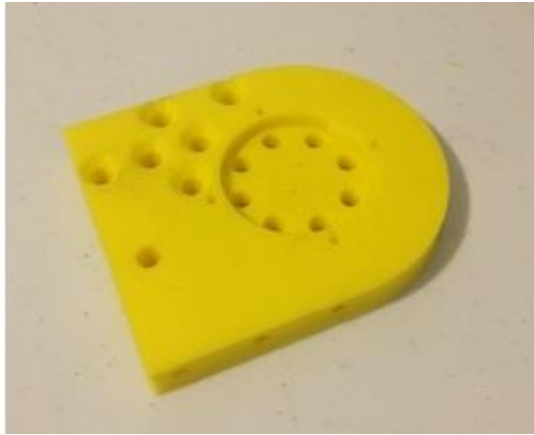


J1 turret housing

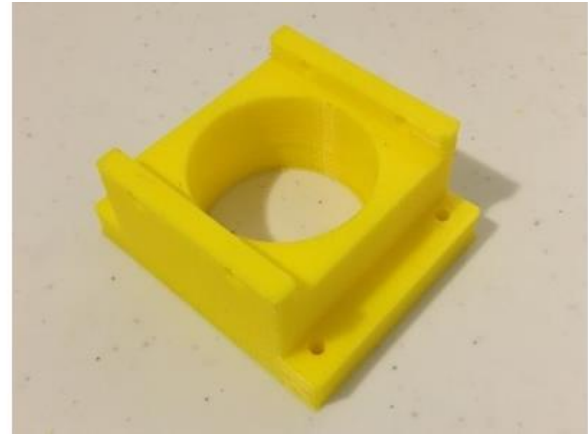


J2 turret housing





J1 platform



J1 motor mount

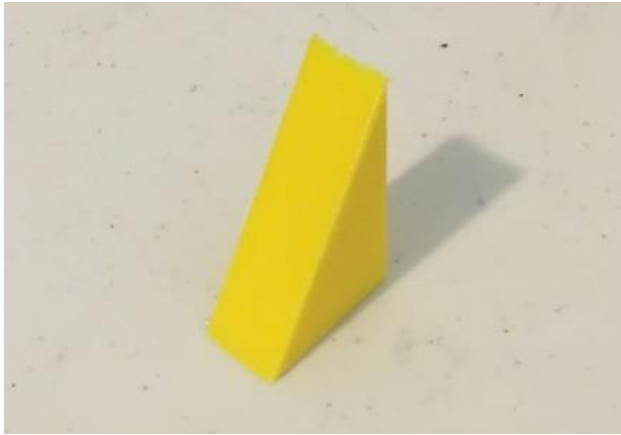


J2 arm parts 1 and 2



J2 spindle (PRINT SOLID)





J1 auxiliary support wedge



J2 retainer (PRINT SOLID)



J2 motor support

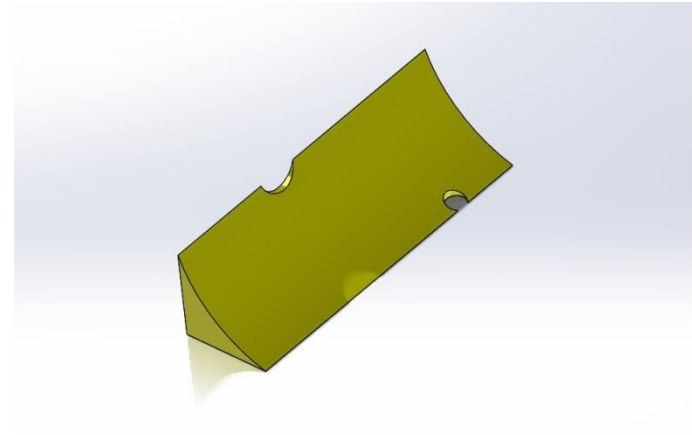


J2 spring housing (PRINT SOLID)





J2 spring housing auxiliary support



J1 platform auxiliary support

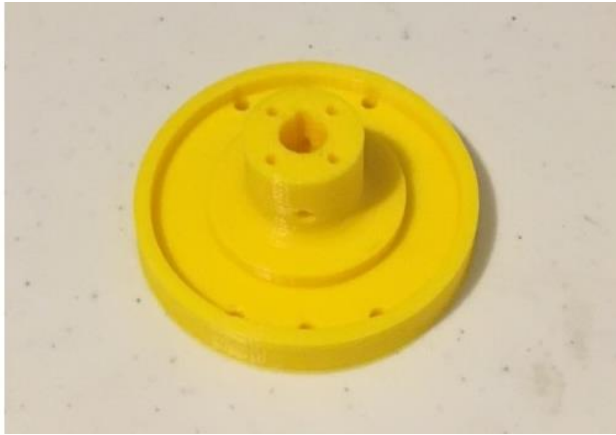


J3 motor mount



J3 bearing cup

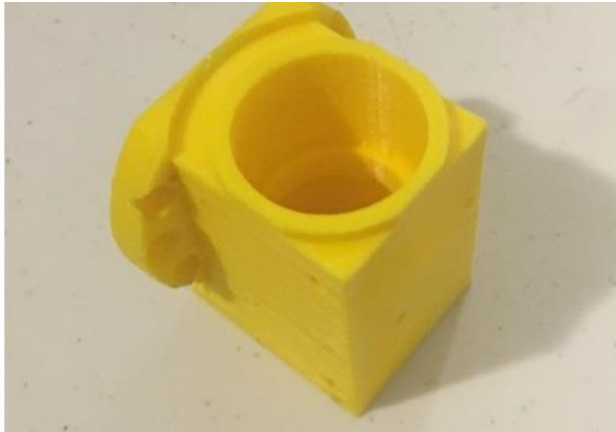




J3 spindle (PRINT SOLID)



J3 spindle retainer (PRINT SOLID)



J4 turret housing

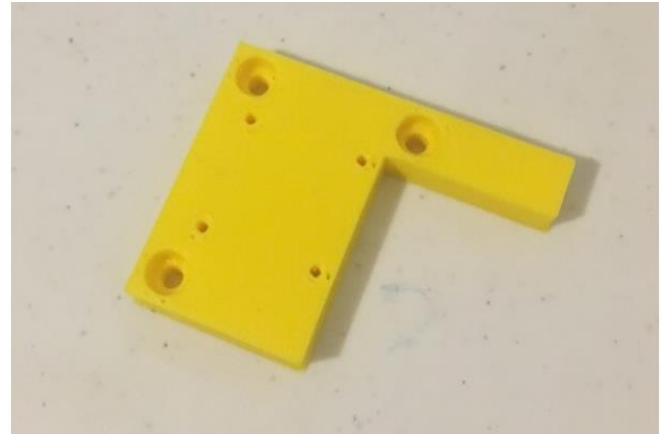


J5 motor mount

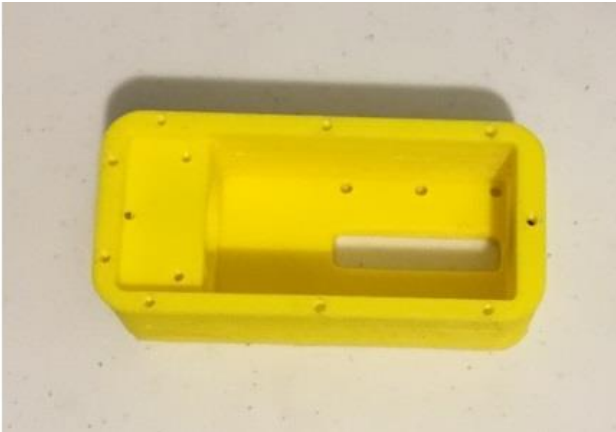




J4 driven pulley



J4 motor mount

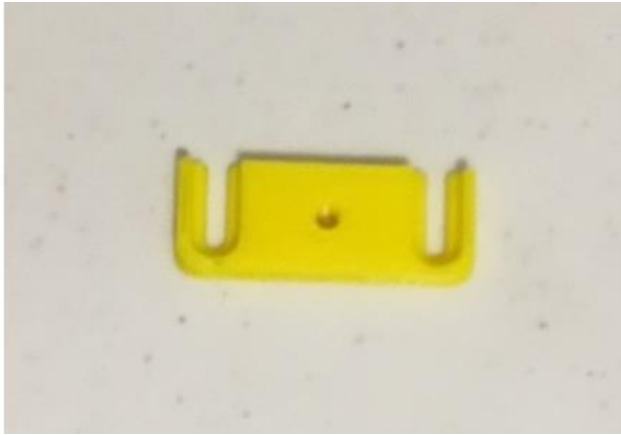


J5 housing



J5 carrier (PRINT SOLID)





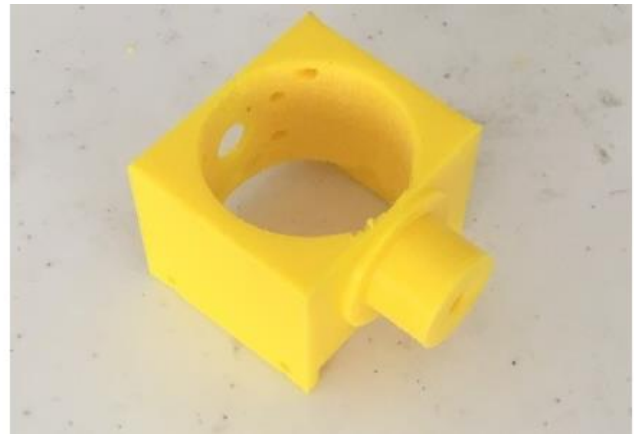
J5 idler tension block



J5 idler post

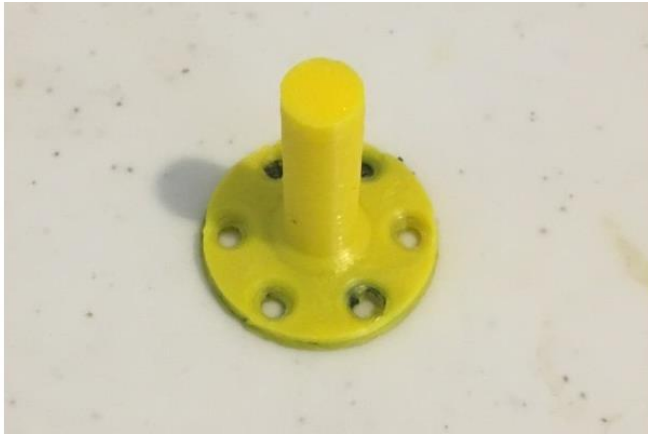


J5 bearing support arm



J6 turret housing





J6 spindle



J6 bearing cap

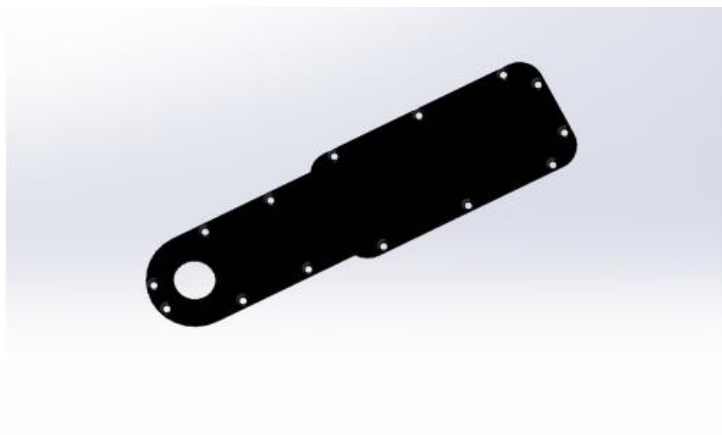


J5 side cover base



J5 side spacers





J5 side cover cap



J6 gripper mount

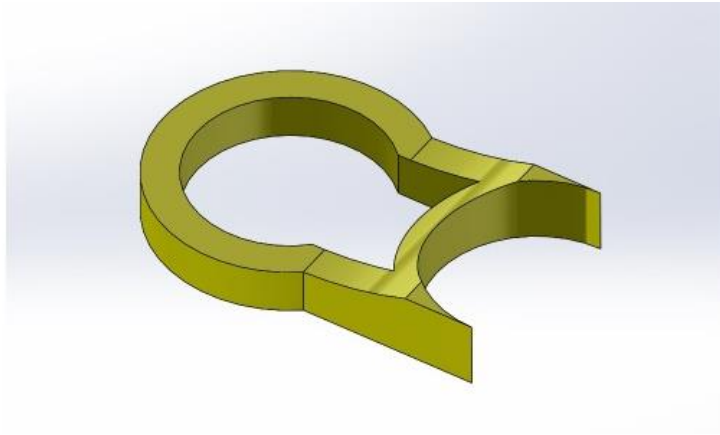


J3 side cover spacers



J3 side cover caps





J2 arm auxilliary support



Stepper Motors

- ▶ Geared and linear stepper motors as well as stepper drivers are available from Stepper Online <http://www.omc-stepperonline.com/>

The aluminum version uses 3 precision and 3 economy series motors:

- J1 = SKU: 17HS15-1684S-HG5
- J2 = SKU: 23HS22-2804S-HG50
- J3 = SKU: 17HS15-1684S-HG50
- J4 = SKU: 11HS20-0674S-PG5
- J5 = SKU: 17LS19-1684E-200G
- J6 = SKU: 14HS13-0804S-PG19

The printed version uses all 6 economy series motors:

- J1 = SKU: 17HS19-1684S-PG5
- J2 = SKU: 23HS30-2804S-PG47
- J3 = SKU: 17HS19-1684S-PG19
- J4 = SKU: 11HS20-0674S-PG5
- J5 = SKU: 17LS19-1684E-200G
- J6 = SKU: 14HS13-0804S-PG19

I used economy series motors when building the printed robot and then upgraded the aluminum robot to use precision series motors for J1, J2 and J3. I included the 3 motor mount print files so that you can build the printed robot either way. I would recommend the precision series motors if possible.

THE FOLLOWING PICTURES SHOW THE ECONOMY SERIES MOTORS ONLY



Gear Ratio 5:1 Planetary Gear 17HS19-1684S-PG5

Products item: #040

Price: **US\$ 29.65**

108 IN STOCK

Add to Cart:

Add to Cart

Price Break:

Quantity	Unit Price
5-9	US\$ 28.47

J1 motor



Gear Ratio 47:1 Planetary G 23HS30-2804S-PG47

Products item: #0282

Price: **US\$ 62.08**

15 IN STOCK

Add to Cart:

Add to Cart

Price Break:

Quantity	Unit Pri
----------	----------

J2 motor



Gear Ratio 19:1 Planetary Gearbox High Tor 17HS19-1684S-PG19

Products item: #042

Price: **US\$ 29.65**

44 IN STOCK

Add to Cart:

Add to Cart

Price Break:

Quantity	Unit Price	Save
5-9	US\$ 28.47	4 %
10-49	US\$ 27.28	8 %
50-99	US\$ 26.10	12 %

J3 motor



Gear Ratio 5:1 Planetary Gearbox With Nem 11HS20-0674S-PG5

Products item: #033

Price: **US\$ 34.68**

5 IN STOCK

Add to Cart:

Add to Cart

Price Break:

Quantity	Unit Price	Savi
5-9	US\$ 33.29	4 %
10-49	US\$ 31.91	8 %
50-99	US\$ 30.52	12 %

J4 motor





Threaded Rod Nema 17 External Lin 200mm T8 x 8

Products item: #0226

Price: **US\$ 39.41**

32 IN STOCK

Add to Cart:

Add to Cart

Price Break:



Gear Ratio 19:1 Planetary 14HS13-0804S-PG19

Products item: #0137

Price: **US\$ 32.34**

0 IN STOCK

Add to Cart:

Add to Cart

Price Break:

Quantitv

Unit P

I7LSI9-I684E-200G



NEMA 11 Stepper Motor (Geared Stepper Motor) Alloy Steel Motor Bracket

Products item: #0243

Price: **US\$ 3.45**

184 IN STOCK

Add to Cart:

Add to Cart

Price Break:

Quantity	Unit Price	Save
5-9	US\$ 3.14	9 %
10-49	US\$ 2.82	18 %
50-99	US\$ 2.51	27 %
100+	US\$ 2.20	36 %



J4 motor mount bracket

Drivers

- Drivers are available from Stepper Online <http://www.omc-stepperonline.com/>

The aluminum version used (5) digital DM-542T drivers and (1) digital DM320T driver :

The printed version used (6) analog ST-6600 drivers:



Digital Stepper Driver 1.0-4.2A 20-50VDC for Nema 17, 23, 24 Stepper Motor

★★★★★ 5 reviews | Write a review

SKU: DM542T

\$24.21 ~~\$32.66~~

Bulk quantity price break:

Qty	3	10	30	100
Price	\$23.41	\$22.60	\$21.79	\$20.99
Save	28%	31%	33%	36%



Digital Stepper Driver 0.3-2.2A 18-30VDC for Nema 8, 11, 14, 16, 17 Stepper Motor

★★★★★ 1 reviews | Write a review

SKU: DM320T

\$14.38 ~~\$18.40~~

Bulk quantity price break:

Qty	3	10	30	100
Price	\$13.97	\$13.56	\$13.15	\$12.74
Save	28%	30%	32%	34%



Bipolar Stepper Motor Driver Max 4A Current 40VDC ST-6600

Products item: #0246

Price: **US\$ 18.98**

98 IN STOCK

Add to Cart:

[Add to Cart](#)

Price Break:

Quantity	Unit Price	Save
5-9	US\$ 18.11	5 %
10-49	US\$ 17.25	9 %

Bearings





uxcell
uxcell 45mmx73mmx15mm 32009 Single Row Tapered F Rolling Wheel Bearing
[Be the first to review this item](#)

Price: **\$12.77** & FREE Shipping
 Note: Not eligible for Amazon Prime.
Only 6 left in stock - order soon.
 Get it as soon as Feb. 13 - 16 when you choose Expedited Shipping at checkout.
 Ships from and sold by uxcell.

New (1) from \$12.77 & FREE shipping.

Specifications for this item

Bore Diameter	1.77 inches inches
Brand Name	uxcell
Number of Items	1

Qty. (2) for J1 bearings - Amazon



30206 Taper Wheel Bearing 30x62x17.2
[Be the first to review this item](#)

Price: **\$11.97** ✓Prime
 Note: Available at a lower price from [other sellers](#), potentially with
In Stock.
 Want it Friday, Feb. 10? Order within **15 hrs 48 mins** and choos
[Details](#)
 Ships from and sold by Amazon.com.

New (2) from \$9.95 & FREE shipping.

Specifications for this item

Qty. (2) for J2 bearings - Amazon



uxcell
Uxcell 30204 Single Row 47mm Outside Diameter 14mm Thick T Roller Bearing
[Be the first to review this item](#)

Price: **\$8.30** & FREE Shipping
 Note: Not eligible for Amazon Prime. Available with fr shipping from [other sellers on Amazon](#).
Only 3 left in stock.
 Get it as soon as Feb. 27 - March 2 when you choo
 Expedited Shipping at checkout.

Qty. (1) for J3 bearing - Amazon



VXB
Thrust Needle Roller Bearing 35x52x4 Thrust Beari
[Be the first to review this item](#)

Price: **\$7.64** ✓Prime
 Note: Available at a lower price from [other sellers](#), potentially without free Prime shi
Only 6 left in stock (more on the way).
 Want it Thursday, Feb. 23? Order within **15 hrs 29 mins** and choose One-Day SI
[Details](#)
 Ships from and sold by Amazon.com.

New (2) from \$5.77 & FREE shipping.

Specifications for this item

Part Number	Kit8675
Brand Name	VXB
Inside Diameter	35 millimeters

Qty. (1) 35mm thrust bearing and washer set for J3 - Amazon



Thrust Needle-Roller Bearing

for 1" Shaft Diameter, 1-9/16" OD



Each

In stock
\$3.17 Each
5909K36

ADD TO ORDER

You ordered 4 each on 01/28/17.

Qty.(3) 1" thrust bearings (2 for J4 and 1 for J6) –
McMaster Carr

0.032" Thick Washer for 1" Shaft Diameter Thrust



Each

In stock
\$1.15 Each
5909K49

ADD TO ORDER

You ordered 6 each on 01/28/17.

RoHS Not Compliant

Qty.(4) (3 for J4 and 1 for J6) –McMaster Carr

0.126" Thick Washer for 1" Shaft Diameter Thrust



Each

In stock
\$5.00 Each
5909K63

ADD TO ORDER

You ordered 2 each on 01/28/17.

RoHS Not Compliant

Qty.(2) (1 for J4 and 1 for J6) –McMaster Carr



by Koyo

Koyo B-1616 Needle Roller Bearing, Full Complement Cup, Open, Inch, 1" ID, 1-1/4" OD, 1" Width, 4300rpm Rotational Speed, 16700lbf Static Load Capacity, 76 Dynamic Load Capacity

★★★★★ 4 customer reviews

Price: \$9.71

Note: Available at a lower price from other sellers, potentially without free Prime shipping.

In Stock.

Want it Tuesday, Feb. 28? Order within 4 hrs 19 mins and choose Two-Day Shipping Details

Ships from and sold by Amazon.com.

New (5) from \$1.71 + \$6.15 shipping

Qty.(2) for J4 bearings - Amazon



SKF HK 1612 Needle Roller Bearing, Caged Drawn C Ring and Roller, Open, 16mm Bore, 22mm OD, 12mm

★★★★★ 6 customer reviews

Price: \$10.59 Prime

Only 1 left in stock (more on the way).

Want it Monday, Feb. 20? Order within 11 hrs 48 mins and choose One-Day Shipping Details

Ships from and sold by Amazon.com.

Bore Diameter String:

16 mm

Item Diameter String:

22 mm

Item Width String: 12 mm

Qty. (1) for J5 belt idler - Amazon



uxcell

10Pcs 150 x 3mm Stainless Steel Cylinder Linear F Rod Shaft

★★★★★ 4 customer reviews

Price: \$7.50 Prime

In Stock.

Want it Thursday, March 9? Order within 2 hrs 23 mins and choose Two-Day Shipping checkout. Details

Sold by uxcell and Fulfilled by Amazon. Gift-wrap available.

- Product Name : Round Rod;Size : 150x 3mm / 5.9"x 0.12"(L*D)
- Material : Stainless Steel
- Color : Silver Tone
- Weight : 83g

Qty.(1) set of 10 shafts (you only need 2) - Amazon



CNC INC

8pcs LM3UU 3mm linear bushing linear bearing

Be the first to review this item

Price: \$11.76 (\$1.47 / Item) & FREE Shipping

Note: Not eligible for Amazon Prime.

In Stock.

Get it as soon as March 13 - 16 when you choose Expedited Shipping at checkout. Ships from and sold by Ogry.

New (1) from \$11.76 & FREE shipping.

Specifications for this item

Part Number
CNC000001-8

Qty.(1) set of 8 bearings (you only need 2) - Amazon



uxcell

10 Pcs 688Z Metal Sealed Deep Groove Radial Ball Bearing 16 x 16 x 5mm

★★★★★ 4 customer reviews

Price: \$8.91 Prime

Only 15 left in stock.

Want it Thursday, March 9? Order within 13 hrs 23 mins and choose One-Day Shipping checkout. Details

Sold by uxcell and Fulfilled by Amazon. Gift-wrap available.

New (2) from \$7.79 & FREE shipping.

Specifications for this item

Qty.(1) set of 10 bearings (you only need 1) - Amazon



30203 Taper Roller Wheel Bearing: 17x40x12 VXB Brand

[Be the first to review this item](#)

Price: **\$6.55**

Note: Not eligible for Amazon Prime.

In Stock.

Get it as soon as March 27 - 30 when you choose Exp
checkout.

Ships from and sold by [VXB Bearing](#).

Qty.(1) for J6 bearing - Amazon



Belts - Sprockets





Gates 180XL037 PowerGrip Timing Belt, Extra Light, 1/5" F 3/8" Width, 90 Teeth, 18" Pitch Length

Be the first to review this item

Was: \$13.80
Price: **\$7.51** ✓Prime
You Save: ~~\$6.29~~ (45%)

In Stock.

Want it Monday, Feb. 13? Order within **7 hrs 9 mins** and choose Two-Day Shipping at checkout.

Ships from and sold by Amazon.com.

New (2) from **\$7.51** ✓Prime

Specifications for this item

Brand Name	Gates	EAN	0072053663252
Part	180XL037	Item Weight	0.32 ounces

Qty. (1) J1 belt - Amazon



by Gates

Gates 210XL037 PowerGrip Timing Belt, Extra Light, 1/5" F 3/8" Width, 105 Teeth, 21" Pitch Length

★★★★★ 3 customer reviews

Price: **\$8.02** ✓Prime

Only 12 left in stock (more on the way).

Want it tomorrow, Feb. 24? Order within **8 hrs 14 mins** and choose Two-Day Shipping at checkout.

Ships from and sold by Amazon.com.

New (2) from **\$8.02** ✓Prime

Specifications for this item

Qty (1) J3 belt – or use chain option instead (see instructions) - Amazon

Metric Roller Chain

50 Number 04B, 6.00mm Pitch



Length, ft.
✓ 2

Each

ADD TO ORDER

In stock
\$7.45 Each
6027K71

2' length – J3 chain option (see instructions) – McMaster Carr

Connecting Link for ISO Number 04B Metric Roller Chain



Each

ADD TO ORDER

In stock
\$1.40 Each
6027K33

Qty.(1) link for J3 – McMaster Carr



Gates 84XL037 PowerGrip Timing Belt, Extra Light, 3/8" Width, 42 Teeth, 8.40" Pitch Length

Be the first to review this item

Price: **\$12.48** ✓Prime

Only 1 left in stock (more on the way).

Want it Tuesday, March 7? Order within 3 hrs 37 mins and choose Two-Day Shipping.

[Details](#)

Ships from and sold by Amazon.com.

New (2) from \$12.48 ✓Prime

Specifications for this item

Part Number	84XL037	Length	8.40 in
-------------	---------	--------	---------

Qty.(1) J4 belt – Amazon



Gates 150XL037 PowerGrip Timing Belt, Extra Light, 3/8" Width, 42 Teeth, 8.40" Pitch Length

Sold by: Amazon.com LLC

Return window closed on Mar 18, 2017

\$6.79

Buy it Again

Qty.(1) J5 belt – Amazon



Actobotics

60T Timing Hub Pulley

★★★★★ 1 customer review

Price: **\$7.99** + \$6.99 shipping

Note: Not eligible for Amazon Prime.

In Stock

Get it as soon as Wednesday, Feb. 15 when you choose Two-Day Shipping. Ships from and sold by ServoCity.

New (1) from \$7.99 + \$6.99 shipping

Specifications for this item

Brand Name	Actobotics
Part Number	615394
Number of Teeth	60

Qty.(1) driven pulley for J1 – Amazon



XL 15-Teeth 4/5/6/6.35/8/10/12mm Bore 11mm Width

Item condition: New

Bore Diameter: 8mm

Quantity: 1 More than 10 available / 90 sold

Price: **US \$3.49**

Buy It Now

Add to cart

5 watching

Add to watch list

Add to collection

90 sold

New condition

Longtime member

Qty.(4) 15 tooth 8mm bore sprocket (1 for J1 – 2 for J3 if using belt option and 1 for J6) - Ebay

Machinable-Bore Sprocket

for ISO #04B Roller Chain, 6mm Pitch, 13 Teeth



Each

In stock
\$12.45 Each
2302K72

ADD TO ORDER

2 each added to your [order](#).
Ships in the morning (from our
Chicago warehouse)

Qty.(2) for J3 chain option – McMaster Carr



2PCS 10 Tooth 6mm Bore XL Type Aluminum Timing

\$3.46

Buy It Now

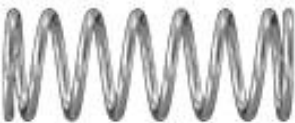
From China

Qty.(1) for J4 - Ebay

Hardware

Steel Compression Spring

Zinc-Plated Music Wire, 2.00" Long,.845" OD,.080" Wire



Packs of 6

ADD TO ORDER

In stock
\$7.80 per p.
9657K401

Qty.(1) – McMaster Carr

Forney 72649 Wire Spring Compression, 9 by-3-Inch-by-.054-Inch, 2-Pack

[Be the first to review this item](#)



Price: \$10.00 (\$5.00 / Pack) Prime

Only 2 left in stock (more on the way).

Want it Tuesday, March 7? Order within 32 mins and choose Two-Details

Ships from and sold by Amazon.com. Gift-wrap available.

- Used in light industry
- Zinc plated steel wire compression spring
- Baked for a rust resistant finish and heat treated for performance

Qty.(1) – McMaster Carr

Metric Key Stock

Undersized, Steel, 2mm x 2mm, 12" Length



Each

ADD TO ORDER

In stock
\$1.87 Each
92288A710

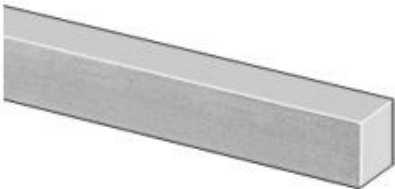
You ordered 1 each on 01/20/17.

Material	Steel
Size	2 x 2 mm
Length	12"

Qty.(1) – McMaster Carr

Metric Key Stock

Oversized, Zinc-Plated Steel, 4mm x 4mm, 12" Long



Each

ADD TO ORDER

In stock
\$3.81 Each
92288A110

You ordered 1 each on 02/09/17.

Qty.(1) – McMaster Carr

Keyed Rotary Shaft

1045 Carbon Steel, 8 mm Diameter, 300 mm Long



Each

In stock
\$20.27 Each
1439K211

ADD TO ORDER

You ordered 1 each on 01/20/17.

Material	1045 Carbon Steel
Diameter	8 mm
Length	300 mm

Qty.(1) McMaster Carr

High-Strength 2024 Aluminum Tube

0.035" Wall Thickness, 1" OD



Length, ft.
✓ 1

Each

ADD TO ORDER

In stock
\$10.53 Each
1968T17

Qty.(1) McMaster Carr



Qty. (4) spacers purchased at hardware store these are
3/8" x 3/16" x 1" cut down to 15mm long

Metric Heavy Duty Ball Joint Linkage

M6 x 1 RH Thread Male Stud with Right-Hand Thread Female Sha



Each

In stock
\$10.79 Each
6275K53

ADD TO ORDER

Qty.(1) McMaster Carr



uxcell

uxcell M4x55mm Fully Thread Hex Socket Hex Cap Screw Bolt Black 10pcs

[Be the first to review this item](#)

Price: \$11.15 Prime

In stock on April 24, 2017.

Order it now.

Sold by [uxcell](#) and Fulfilled by Amazon. Gift-wrap available.

- Drive Type: Hex Socket Cap Head; Head Style: Socket Cap Head; Materi
- Package Content: 10pcs x Hex Socket Cap Screw; Product Name: Hex S
- Thread Size: M4 x 55mm/0.16" x 2.2"(D*L)
- Weight: 49g; Main Color: Black; Thread Pitch: 0.7mm
- Total Length: 59mm/2.3"; Thread Style: Fully Thread
- Grade: 14.9; Hex Width: 3.5mm/0.14"

[See more product details](#)

Qty.(1) set of 10 (you only need 4) - Amazon

Alloy Steel Shoulder Screw

8 mm Diameter x 14 mm Long Shoulder, M6 x 1 mm Thread Size



Each

ADD TO ORDER

In stock
1-4 Each \$2.94
5 or more \$2.50
92981A151

Qty.(2) – McMaster Carr

Square Head Extended Point Set Screw

Alloy Steel, M8 x 1.25 Thread, 25mm Long



Packs of 5

ADD TO ORDER

In stock
\$5.52 per pack
92635A314

Qty.(1) – McMaster Carr

Alloy Steel Shoulder Screw

8 mm Diameter x 80 mm Long Shoulder, M6 x 1 mm Thread Size



Each

ADD TO ORDER

In stock
1-4 Each \$3.93
5 or more \$3.33
92981A230

You ordered 4 each on 12/13/16.

Qty.(1) – McMaster Carr

Zinc-Plated Steel Tee Nut Inserts for Wood

M8 x 1.25 mm Thread Size, 11 mm Long



Packs of 50

In stock

\$9.44 per pack of 50

98965A410

ADD TO ORDER

Qty.(1) M8 – T nut – *Hardware store is more cost effective for a single piece than buying multiple from McMaster Carr*



SCREWS:

(hardware store or
order from McMaster
Carr)

QTY	ITEM
7	M3 x 10 flat head screws
4	M3 x 10 set screws
12	M3 x 14 socket head cap screws
14	M3 x 14 socket head cap screws
44	M3 x 25 flat head screws
5	M3 x 3 set screws
28	M3 x 35 flat head screws
9	M3 x 6 set screws
1	M3 x 6 socket head cap screw
6	M3 x 8 socket head cap screws
8	M4 nuts
16	M4 washers
4	M4 x 10 button head screws
4	M4 x 10 cap screws
16	M4 x 10 flat heads
24	M4 x 10 set screws
23	M4 x 10 socket head cap screws
2	M4 x 14 flat head screws
12	M4 x 20 socket head cap screws
4	M4 x 35 socket head cap screws
2	M4 x 6 set screws
31	M6 x 14 socket head cap screws
15	M6 x 18 flat head screws



Electrical Components





uxcell Switch Power Supply Driver for LED Strip 110/220V 5V 2A 10W

by uxcell

★★★★☆ 66 customer reviews | 12 answered questions

Price: \$6.99 **Prime**

Get \$50.00 off instantly: Pay \$0.00 upon approval for the Amazon.com Rewards more

Only 9 left in stock.

Want it Sunday, Feb. 26? Order within **37 mins** and choose **Two-Day Ship** Details

Sold by uxcell and Fulfilled by Amazon. Gift-wrap available.

Size: DC 5V 2A 10W

DC 5V 2A 10W

DC 5V 3A 15W

DC 5V 5A 25W

DC 5V 8A 4

DC 5V 10A 50W

DC 5V 12A 60W

DC 5V 20A 100W

DC 5V

Qty.(1) – Amazon



Hammond

Hammond 1591DSBK ABS Project Box Manufacturing

★★★★☆ 30 customer reviews | 5 answered questions

Price: \$6.25 + \$5.95 shipping

Note: Not eligible for Amazon Prime.

In Stock.

Get it as soon as Feb. 16 - 22 when you choose **Standard** at t Ships from and sold by **Parts Express**.

New (2) from \$6.25 + \$5.95 shipping

Specifications for this item

Brand Name Hammond

Qty.(1) – Amazon



JBtek 8 Channel DC 5V Relay Module for Arduino f Pi DSP AVR PIC ARM

by JBtek

★★★★☆ 147 customer reviews | 42 answered questions

Price: \$8.98 **Prime**

In Stock.

Want it Monday, Feb. 27? Order within **17 hrs 37 mins** and choose **Two-Day Sh** checkout. Details

Sold by JBtek and Fulfilled by Amazon. Gift-wrap available.

- 5V 8-Channel Relay interface board, and each one needs 15-20mA Driver Current
- Equipped with high-current relay, AC250V 10A ; DC30V 10A
- Standard interface that can be controlled directly by microcontroller (Arduino , 8 DSP, ARM, ARM, MSP430, TTL logic)
- Indication LED's for Relay output status

Qty.(1) – Amazon



Phanteks 24 Pin M/B Premium Sleeved Cable 19.68" Length, Black/Red(PH-CB24P_BF

★★★★☆ 8 customer reviews | 4 answered questions

List Price: \$46.99

Price: \$14.99 **Prime**

You Save: \$2.00 (12%)

Your cost could be \$9.99. Qualified customers get \$5 in Gift Card fu Amazon Gift Card Balance. Learn more

Only 20 left in stock (more on the way).

Want it Tuesday, Feb. 14? Order within **4 hrs 34 mins** and choo checkout. Details

Ships from and sold by Amazon.com. Gift-wrap available.

Color: **Black/Red**

Qty.(3) – Amazon



Switching Power Supply 350W 24V 14.6A for CNC Router S-350-24

Products item: #0177

Price: **US\$ 26.35**

326 IN STOCK

Add to Cart:

[Add to Cart](#)

Price Break:

Quantity	Unit Price	Save
5-9	US\$ 25.52	3 %
10-49	US\$ 24.70	6 %
50-99	US\$ 23.88	9 %

Qty.(1) – Stepper Online



Arduino Mega Case Enclosure New Black Computer B with Switch

by SB Components

★★★★☆ 8 customer reviews

Price: **\$6.99** Free shipping for Prime members when buying this Add-on Item. [Detail](#)

[i](#) Your cost could be **\$1.99**: Reload \$100, get \$5 free. [Learn more](#)

In Stock.

Want it Monday, Feb. 27? Add it to a qualifying order within **17 hrs 39 mins** and choose **Two-Day Shipping** at checkout. [Details](#)

Sold by SB Components and Fulfilled by Amazon. Gift-wrap available.

- This is a no-nonsense protective case designed specifically for the Arduino Mega 2560
- The case is a two-piece injection-molded ABS enclosure that snaps together around Arduino. Holds the Arduino firmly in place

Qty.(1) – Amazon



leik Mega 2560 R3 ATmega2560-16AU + ATMEGA16U2 USB Cable for Robot Arduino UNO MEGA2560 R3 Duemilanove 2013

by IEIK

★★★★☆ 89 customer reviews | 7 answered questions

Price: **\$11.89** [Prime](#)

In Stock.

Want it Sunday, Feb. 26? Order within **1 min** and choose **Two-Day Shipping** at checkout. [Details](#)

Sold by Smiles shopper and Fulfilled by Amazon. Gift-wrap available.

- Our development boards and modules are compatible with the Arduino
- 1 x IEIK Mega 2560 R3 Bule
- 1 x USB Cable

Qty.(1) – Amazon



by BUD Industries

BUD Industries NBX-32926-PL ABS Plastic Internal Panel, 14-1/4" Length x 10-27/64" Width x 9/64" Thick, for NBF Series Boxes

★★★★☆ 3 customer reviews

Price: **\$20.10** [Prime](#)

In Stock.

Want it Sunday, Feb. 26? Order within **39 mins** and choose **Two-Day Shipping** at checkout. [Details](#)

Ships from and sold by Amazon.com.

New (3) from **\$20.10** [Prime](#)

Specifications for this item

Part Number	NBX-32926-PL	Material Type	Plastic
-------------	--------------	---------------	---------

Qty.(1) – Amazon



by BUD Industries

BUD Industries NBF-32026 Plastic ABS NEMA Economy Box with Solid Door, 15-47/64" Length x 11-51/64" Width x 6-9/32" Height, Light Gray Finish

★★★★☆ 34 customer reviews | 11 answered questions

Price: **\$38.83** ✓Prime

In Stock.

Want it Sunday, Feb. 26? Order within **40 mins** and choose **Two-Day Shipping** at checkout. [Details](#)

Ships from and sold by Amazon.com in [easy-to-open packaging](#). Gift-wrap available.

[Used & new \(9\)](#) from \$32.23 ✓Prime

Specifications for this item

Part Number	NBF-32026	Length	15-47/64 inches
Number of Items	1	Material Type	Plastic

Qty.(1) – Amazon



by Amico

15 Pcs 35mm Width Slotted Design Aluminum DIN 9.8"

★★★★☆ 10 customer reviews

Price: **\$11.35** & FREE Shipping

Note: Not eligible for Amazon Prime.

Only 1 left in stock.

Get it as soon as March 2 - 7 when you choose **Expedited Shipping** at checkout. Ships from and sold by uxcell.

[New \(5\)](#) from \$11.35 & FREE shipping.

Specifications for this item

Part Number	a12022900ux0297
-------------	-----------------

Qty.(1) – Amazon



Uxcell Flexible Corrugated Conduit Tube Pipe Hose, 25', 16 x 13 mm

★★★★☆ 2 customer reviews

Price: **\$8.74** ✓Prime

Only 13 left in stock - order soon.

Want it Tuesday, May 9? Order within **13 hrs 29 mins** and choose **One-Day Shipping** at checkout. [Details](#)

Sold by [uxcell](#) and [Fulfilled by Amazon](#). Gift-wrap available.

[New \(3\)](#) from \$7.86 & FREE shipping.

Specifications for this item

Brand Name	uxcell
------------	--------

Qty.(1) – Amazon



Black 16pc 22 AWG Wire with .187 Quick Disconnect

\$7.25

Brand **Focus Attack**

SKU **BLK-187MWIREQCD16**

Weight **3.25 Ounces**

Availability **Ships within 1-2 business days**

Please note that FA Plexworks customer orders ship within 7 business days [\[info\]](#)

Shipping **Calculated at checkout**

1



Red 16pc 22 AWG Wire wit .187 Quick Disconnect

\$7.25

Brand **Focus Attack**

SKU RED-187MWIREQCD16

Weight 3.25 Ounces

Availability Ships within 1-2 business days

Please note that FA Plexworks
orders ship within 7 business da
[info]

Shipping Calculated at checkout



16pc 22 AWG Wire with .187 Quick Disconnect

★★★★★ (6)

\$7.25

Brand **Focus Attack**

SKU 187MWIREQCD16

Weight 3.25 Ounces

Availability Ships within 1-2 business days

Please note that FA Plexworks cu
orders ship within 7 business days
[info]



uxcell AC 600V 10A Red Mushroom Emergency Stop Button Switch 22mm NO NC

★★★★★ ☆ 33 customer reviews | 5 answered questions

Price: \$6.94 ✓ Prime

In Stock.

Want it Tuesday, May 16? Order within **11 hrs 22 mins** and choose **Two-Day Shippi**
checkout. [Details](#)

Sold by [uxcell](#) and [Fulfilled by Amazon](#). Gift-wrap available.

- Item Name : Emergency Stop Push Switch;Type : Self Locking Rotary;Ith : 10A
- Ui : 600V;Voltage Category : AC 125V, 5A; AC 300V, 3A;Button Diameter : 4cm/1.!
- Contact Type : 1 NO (Normally Open) + 1 NC (Normally Closed);Mount Hole Diam / 0.87"(7/8");Fit Panel Thickness(Adjustable) : Max 0.6cm / 0.24"
- Size : 3.7 x 3 x 7cm/ 1.4" x 1.2" x 2.8"(L*W*H);Material : Plastic and Metal;Main Co Fuchsia, Blue, Gray
- Net Weight : 45g;Package Content : 1 x Emergency Stop Switch

➤ [See more product details](#)



URBEST Inlet Module Plug 5A Fuse Switch UR an Certification Male Power Socket 10A 250V 3 Pin IE

by [URBEST®](#)
★★★★★ ☆ 91 customer reviews | 15 answered questions

Price: \$5.98 FREE Shipping for Prime members once available [Details](#)

In Stock.

Sold by [iauto](#) and [Fulfilled by Amazon](#). Gift-wrap available.

- Total Size : 5.8 x 4.8 x 3.4cm / 2.3" x 1.9" x 1.3"(LxWxH);Plug Type : 3 Pin IE
- Product Name : Power Socket w Switch Fuse;Material (External) : Plastic, Me Silver Tone, Silver Tone
- Weight : 24g;Package Content : 1 x Power Socket
- Hole Center Distance : 3.9cm / 1.5";Bottom Size : 4.7 x 2.7cm / 1.9" x 1.1"(Lx and CE certification
- Voltage/ Current : 10A, 250V AC;Hole in Top Face Diameter : 0.42cm / 0.16";

New (1) from \$5.98 ✓ Prime

Qty.(1) – Amazon

Qty.(1) – Amazon



Hilitchi 30 Piece Nylon Plastic Waterproof Adjustable 3.5 13mm Cable Glands Joints Cable Gland - PG7, PG9, PG13.5, PG16

★★★★★ 2 customer reviews

Price: \$10.41 ✓ Prime

Your cost could be \$5.41: Qualified customers get \$5 in Gift Card funds on first \$100 reload of Amazon Gift Card Balance. [Learn more](#)

In Stock

Sold by Hilitchi and Fulfilled by Amazon. Gift-wrap available.

Color: Black 30pcs



- High Quality Cable Gland Kit, Applied to Cable Fixing, Waterproof Design
- Package Includes: 30pcs (6 each size)
- Model: PG7, PG9, PG11, PG13.5, PG16

Qty.(1) – Amazon



JawayTool

JawayTool 127 Pieces Assortment Heat Shrink Tube V Wrap Kit Electrical Connection Cable Sleeve Tubing S With Durable Storage Case – Assorted Diameters- 2:1 Shrink Ratio

★★★★★ 205 customer reviews | 3 answered questions

Price: \$42.99

Sale: \$6.99 ✓ Prime

You Save: \$6.00 (46%)

In Stock

Want it Tuesday, Feb. 14? Order within 4 hrs 30 mins and choose Two-Day Shipping checkout. [Details](#)

Sold by M.Y House and Fulfilled by Amazon. Gift-wrap available.

Size Name: Heat Shrink

Heat Shrink

Heat Shrink + Helping Hand

Qty.(1) – Amazon



Smraza

Smraza 120pcs Multicolored Jumper Wire Female, 40pin Male to Male, 40pin Female Breadboard Jumper Wires Ribbon Cables connections S02

★★★★★ 10 customer reviews

Price: \$7.99 ✓ Prime

In Stock

Want it Thursday, March 9? Order within 2 hrs 26 mins and choose checkout. [Details](#)

Sold by SmrazaDirect and Fulfilled by Amazon. Gift-wrap available.

- Multicolored 3 pieces Breadboard Jumper Wires as a set, High-gr

Qty.(2) – Amazon



OdiySurveil

OdiySurveil (TM) XV-152-1C25 Hinge Lever Micro Switch(Pack of 5)

★★★★★ 15 customer reviews | 4 answered questions

Price: \$8.29 ✓ Prime

In Stock

Want it Friday, April 21? Order within 3 hrs 24 mins and choose Two-D

[Details](#)

Sold by Overseasymall and Fulfilled by Amazon. Gift-wrap available.

- Product Name : Micro Switch;Model No. : XV-152-1C25;
- Actuator Type : Straight Hinge Lever;

Qty.(1) – Amazon



25 x Black Nylon Plastic P Clips - Fasteners for Cable, Tubing & Sleeving [16mm]

★★★★★ • 1 customer review

Price: **\$8.00** & **FREE Shipping**

Note: Not eligible for Amazon Prime.

In Stock.

Get it as soon as **May 9 - 12** when you choose **Expedited Shipping** at checkout. Ships from and sold by **Homesmart-uk**.

Size: **Ø 16mm**

Qty.(1) – Amazon



UGREEN Ethernet Extension Cable Network Patch Cable RJ45 Cords Shielded Male to Female Connector, 1.5ft/0.5m

★★★★★ • 182 customer reviews | 5 answered questions

Sale: **\$5.59** ✓Prime

Your cost could be **\$0.59**. Qualified customers get \$5 in Gift Card funds on 1 Amazon Gift Card Balance. [Learn more](#)

In Stock.

Want it **Tuesday, Feb. 14**? Order within **4 hrs 37 mins** and choose **Two-day checkout**. [Details](#)

Sold by **UGREEN GROUP LIMITED** and Fulfilled by **Amazon**. Gift-wrap available.

Size: **1.5ft**

1.5ft	3ft	6ft	10ft
\$5.59 ✓Prime	\$6.99 ✓Prime	\$7.55 ✓Prime	\$8.55 ✓Prime

Qty.(2) – Amazon



SV-166-1C25 Limit Switch Long Hinge Roller A Action 3-16A 250VAC (10 pieces)

[Be the first to review this item](#)

Price: **\$7.56** (\$0.76 / item) + \$4.49 shipping

Note: Not eligible for Amazon Prime.

Only 2 left in stock - order soon.

Get it as soon as **Feb. 14 - 17** when you choose **Expedited Shipping** at checkout. Ships from and sold by **Standard Supply Co.**

New (1) from **\$7.56** + \$4.49 shipping

Specifications for this item

Brand Name	Yueqing Saigo Electronics
------------	---------------------------

Qty.(1) – Amazon



ASI ASIUK5N Din Rail Mounted Terminal Block, Screw Clamp (Pack of 50)

★★★★★ • 4 customer reviews

List Price: **\$24.42**

Price: **\$21.01** (\$0.42 / DIN Rail Terminal) ✓Prime

You Save: **\$3.41** (14%)

In Stock.

Want it **tomorrow, Feb. 26**? Order within **11 hrs 11 mins** and choose **One-Day Shipping** at checkout. [Details](#)

Ships from and sold by **Amazon.com**. Gift-wrap available.

Used & new (4) from **\$15.76** ✓Prime

Specifications for this item

Part	ASIUK5N	Current	Amp
------	---------	---------	-----

Qty.(1) – Amazon

Automation Systems Interconnect

ASI ASIEB106 Din Rail Terminal Block Bridge (Pack of 10)



4 customer reviews



Price: **\$21.60** (\$2.16 / Din Rail Terminal) Prime

In Stock.

Want it Monday, May 29? Order within **2 hrs 10 mins** and get it by **Monday, May 29**. **Shipping** at checkout. [Details](#)

Ships from and sold by Amazon.com. Gift-wrap available

Qty.(1) – Amazon (The ASI terminal blocks list this as the correct jumpers but I had screw type on hand shown in manual)

Gripper



SMC MHF2-8D1 Parallel Air Gripper



Baomain Pneumatic Air Control Solenoid Valve 4V210-08 DC24V 5 Way 2 Position PT1/4" Internally Piloted Acting Type Single Electrical Control

by Baomain

\$11⁷⁹ ✓prime

Get it by **Saturday, Dec 30**

Or FREE One-Day Pickup

More Buying Choices

\$11.69 (2 new offers)

Product Features

... Pneumatic Solenoid Valve ... 5 Way; Power Consumption : 1
24V ...