Name 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 3 7 11 14 15 16 17 18 18.2 18.3 18.6 18.7 18.8 19 19.2 19.3 19.4 19.5 19.6 20 21 22 25 26 27 28 29 31 32 33 34 35 36 37

39 40

100uF Capacitor Panasonic

18 pin DIP Socket 7.62mm Weight

- 3D Printed Elements
- 3D Printed Elements 23
- 3D Printed Elements 24
- 3D Printed Elements 9
- 4.7K Ohm Resistor
- 40 pin DIP Socket 15.24mm Weight

A4988 Pololu Stepper Driver

Acrylic Elements

Acrylic Elements 10

Acrylic Elements 12

Acrylic Elements 13

Acrylic Elements 18.1

Acrylic Elements 18.5

Acrylic Elements 19.1

Acrylic Elements 2

Acrylic Elements 30

Acrylic Elements 38

Acrylic Elements 4

Acrylic Elements 5

Acrylic Elements 6

Acrylic Elements 8

Button Switch Arcade

Compuerta 74LS02 NOT

Compuerta 74LS32 OR

DC Motor

Electronic Copper Board

Female Pin Header

I298N H Bridge Driver

LED Strip 1m

Limit Switch

Male Pin Header 1.00mm

Microcontroller PIC18F4550

ON/OFF Switch

JF-0530B / JF-0630B Solenoide 6VDC

Stepper Motor Nema 17

Description

Strucure

2020 Alum 420

2020 Alum 450

2040 Alum 460

2020 Alum 460

Angles of 2 screws, R#5, P20

Flat Nut, Thread M5-0.8, R # 5, P20

BHSCS M5-0.8 x 8 MM screw

Motor Base Support

Flexible couple aluminium 5mm x 8mm

Husillo Cuerda Trapezoidal 12mm diámetro con dos tuercas

KP08 Chumacera

608ZZ Bearing

Base-Mounted Shaft Supports

Rotary Shafts

Solenoid Cart

GT2 toothed pulley 20 teeth for 6 mm belt

Alloy Steel Socket Head Screws

Metric Medium-Strength Steel Hex Nuts—Class 8

18-8 Stainless Steel Pan Head Phillips Screws

Solid Wheel V Polyoxymethylene 5mm Small

Y /Cart

GT2 toothed pulley 20 teeth for 6mm belt

Solid Wheel V Polyoxymethylene 5mm Small

18-8 Stainless Steel Pan Head Phillips Screws

Metric Medium-Strength Steel Hex Nuts—Class 8

Medium-Strength Metric Class 8.8 Steel Hex Head Screws

2040 Alum 467

18-8 Stainless Steel Pan Head Phillips Screws

18-8 Stainless Steel Pan Head Phillips Screws

Alloy Steel Socket Head Screws

Flat Nut, Thread M5-0.8, R # 5, P20

Alloy Steel Socket Head Screws

Metric Medium-Strength Steel Hex Nuts—Class 8

Alloy Steel Socket Head Screws

Alloy Steel Socket Head Screws

Metric Medium-Strength Steel Hex Nuts—Class 8

Alloy Steel Socket Head Screws

Flat Nut, Thread M5-0.8, R # 5, P20

Alloy Steel Socket Head Screws

Metric Medium-Strength Steel Hex Nuts—Class 8

Alloy Steel Socket Head Screws

Alloy Steel Socket Head Screws

Metric Medium-Strength Steel Hex Nuts—Class 8

Aluminum electrolytic capacitors 100µF 450V Radial,

encapsulated 2000 h at 105 ° C

Aluminum electrolytic capacitors 100 μF 50V Radial, encapsulated 2000 h at 85 ° C

14 (2 x 7) Pos DIP, row separation of 0.3" (7.62mm) Tin Socket

Through Hole

3D Printed

Bracket

Bracket cover

Copule central z axes

Through hole resistors Axial Fire retardant coating, safety Carbon film 4.7 kOhms ±5% 0.25W, 1/4W

Base for integrated circuit. 40 (2 x 20) Pos DIP, row separation of 0.6" (15.24mm) Tin Socket Through Hole

This breakout board for Allegro's A4988 microstepping bipolar stepper motor driver features adjustable current limiting, over-current and over-temperature protection, and five different microstep resolutions (down to 1/16-step). It operates from 8 V to 35 V and can deliver up to approximately 1 A per phase without a heat sink or forced air flow (it is rated for 2 A per coil with sufficient additional cooling). This board ships with 0.1" male header pins included but not soldered in.

Elements Corated in Acrylic by the Developer Team

Module Base

Base extension

Acrylic cover2

X Axis cart (acrílico)

Extender Solenoid

Y axis coupling

Acrylic Base

Bearing spacer

Bearing spacer

Acrylic front part

Acrylic cover1

Acrylic back cover

Acrylic top cover

Standard SPDT button Panel mount, front

Inverter IC 6 Channel 14-PDIP

Gate OR IC 4 Channel 14-PDIP

12 V Direct Current Motor 30 mm diameter 46.3 rpm 392mNm and 2.1 A

Proto Board Fiberglass FR4 12.00 "x 12.00" (304.8mm x 304.8mm)

10 Position Header Connector Through Hole

Dual 4.8V-46V and 2A motor controller, which is the revised version of the DF-MDV1.0. Its performance has been highly improved. It can withstand a greater current because it has a greater heat dissipation. It is easy to control, since it uses the LG29 L298N high power motor control chip. This chip allows direct control of 2 bidirectional DC motors, and incorporates high speed short diodes for protection. Current output up to 2A. The controller uses a broad-brush design that reduces the resistance produced by the cables.

LED Lighting COBs, Engines, Modules LED Module F Series Gen3 Neutral white Linear light strip

SPDT switch Chassis mount

4 Positions Header Connector 0.100 "(2.54mm) Through Hole Gold

Microcontroller IC PIC PIC® 18F 8 bits 48MHz Flash Memory 32KB (16K x 16) 40-PDIP

Rocker Switch SPST 15A (AC) 125V Panel mount, snap Los solenoides son una gran manera de inducir el movimiento lineal para empujar, tirar o controlar interruptores y palancas. Este solenoide pequeño está diseñado para trabajar directamente con 6V y es genial para los proyectos integrados. Tiene una tirada de alrededor de 10mm y 2 agujeros M3 de montaje en el cuerpo. El cable de alambre es de 2" de largo. Bipolar Stepper Hybrid Motor Frame Size 17 200 Step 1.7A 3.4 VDC Supplier

PEI Productos y Equipos Industriales

Equipo Desarrollador - Impreso en 3D

Maquinaria y Control

Maquinaria y Control

Maquinaria y Control

Maquinaria y Control

McMaster-Carr

McMaster-Carr

Varios

Maquinaria y Control

McMaster-Carr

McMaster-Carr

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Digi-Key Electronics

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Digi-Key Electronics

Digi-Key Electronics

Pololu Robotics & Electronics

Equipo Desarrollador - Cortado en Acrílico

Digi-Key Electronics

Digi-Key Electronics

Digi-Key Electronics

Transmotec

Digi-Key Electronics

Digi-Key Electronics

MCI Electronics

Digi-Key Electronics

Digi-Key Electronics

Digi-Key Electronics

Digi-Key Electronics

Digi-Key Electronics

MicroJPM

Digi-Key Electronics

Supplier's Piece Number	Unit Cost USD
Various	NA
P20-2020-420CM	NA
P20-2020-450CM	NA
P20-2040-460CM	NA
P20-2020-460CM	NA
14060	0.74
14122	0.21
11-5308	0.32
3	NA
Cople flexible	NA
ACME 12MM	NA
KP08	
	NA
Balero 608ZZ	NA
61815K33	21.21
1265K67	46.87
Various	NA
Polea 20 dientes GT2	NA
91290A113	3.37
90592A095	1.76
91772A838	7.65
Rueda Solida V chica	NA
Various	NA
Polea 20 dientes GT2	NA
Rueda Solida V chica	NA
91772A838	7.65
90592A095	1.76
91280A102	8.49
P20-2040-460CM	NA
91772A838	7.65
91772A838	7.65
91290A113	3.37
14122	0.21
91290A113	3.37
90592A095	1.76
91290A113	3.37
91290A113	3.37
90592A095	1.76
91290A113	3.37
14122	0.21
91290A113	3.37
90592A095	
91290A113	1.76
91290A113 91290A113	3.37
	3.37
90592A095	1.76
493-11302-ND	3.82

P10397TB-ND	0.0817
AE9989-ND	0.22
Various 23 24 9	29 NA NA NA
CF14JT4K70CT-ND	0.04
ED90059-ND	1.82
2980	7.45
Various 10 12 13 18.A 18.E 19.A 2 30 38 4 5 6 8 1568-1476-ND 296-1629-5-ND	129 NA
10080018	95
V2041-ND 732-2859-ND	15.71 0.65

MCI05429	8.79
1510-2227-ND	25.7
SW156-ND	2.38
732-5317-ND	0.1272
PIC18F4550-I/P-ND	4.47
EG1510-ND	2.01
	8.95
AD40257	
1738-1036-ND	14.09

Unit Cost MN	Quantity	Total Cost USD	Total Cost MN
NA	1	NA	2280
26	4	NA	104
28	4	NA	112
975	2	NA	1950
57	2	NA	114
NA	16	11.84	NA
NA	32	6.72	NA
NA	32	10.24	NA
NA	2	NA	NA
31	2	NA	62
997	2	NA	1994
40	2	NA	80
5.5	4	NA	22
0	4	84.84	0
0	4	187.48	0
NA	1	199.56	382
19	1	NA	19
NA	8	26.96	NA
NA	22	38.72	NA
NA	4	30.6	NA
43	4	NA	172
NA	2	103.28	191
19	1	NA	19
43	4	NA	172
NA	4	30.6	NA
NA	22	38.72	NA
NA	4	33.96	NA
496	1	NA	496
NA	4	30.6	NA
NA	4	30.6	NA
NA	8	26.96	NA
NA	32	6.72	NA
NA	8	26.96	NA
NA	22	38.72	NA
NA	8	26.96	NA
NA	8	26.96	NA
NA	22	38.72	NA
NA	8	26.96	NA
NA	32	6.72	NA
NA	8	26.96	NA
NA	22	38.72	NA
NA	8	26.96	NA
NA	8	26.96	NA
NA	22	38.72	NA
NA	3	11.46	NA

NA	2	0.1634	NA
NA	2	0.44	NA
NA	1	29	NA
NA	6	NA	NA
NA	6	NA	NA
NA	2	NA	NA
NA	17	0.68	NA
NA	1	1.82	NA
NA	3	22.35	NA
NA	2	258	NA
NA NA	2	NA	NA
NA	2	NA	NA
NA	1	NA	NA
NA	1	NA	NA
NA	1	NA	NA
NA	1	NA	NA
NA	1	NA	NA
NA	2	NA	NA
NA	2	NA	NA
NA	1	NA	NA
NA	1	NA	NA
NA	1	NA	NA
NA	1	NA	NA
NA	4	10	NA
NA	1	0.73	NA
NA	1	0.61	NA
NA	2	190	NA
NA	1	15.71	NA
NA	1	0.65	NA

NA	1	8.79	NA
NA	1	25.7	NA
NA	4	9.52	NA
NA	30	3.816	NA
NA	1	4.47	NA
NA	1	2.01	NA
NA		8.95	NA
	1		
NA	3	42.27	NA

Where to find

Varias

https://8020.net/20-2020.html

https://8020.net/20-2020.html

https://8020.net/20-2040.html

https://8020.net/20-2020.html

https://8020.net/14060.html

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http://maquinariaycontrol.com.mx/tienda/husillo12mm?search=Tornillo%20acme

http://maquinariaycontrol.com.mx/tienda/KP08?search=Chumacera

http://maquinariaycontrol.com.mx/tienda/608ZZ?search=Balero

https://www.mcmaster.com/shaft-holders

https://www.mcmaster.com/catalog/125/1171

http://maquinariaycontrol.com.mx/tienda/polea-20d-6mm?search=polea

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https://www.digikey.com.mx/product-detail/es/nichicon/UPZ2W101MHD/493-11302-ND/4319

https://www.digikey.com.mx/product-detail/es/panasonic-electronic-components/ECA-1HM10

https://www.digikey.com.mx/product-detail/es/assmann-wsw-components/A-14-LC-TT/AE998

https://www.homedepot.com/p/Dremel-White-KG-PLA-Filament-for-Idea-Builder-3D-Printer-D

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https://www.digikey.com.mx/product-detail/es/stackpole-electronics-inc/CF14JT4K70/CF14JT

https://www.digikey.com.mx/product-detail/es/mill-max-manufacturing-corp/110-44-640-41-00

https://www.pololu.com/product/2980

https://www.homedepot.com/p/OPTIX-48-in-x-96-in-x-1-8-in-Clear-Acrylic-Sheet-MC-100S/20

Equipo Desarrollador - Cortado en Acrílico

https://www.digikey.com.mx/product-detail/es/sparkfun-electronics/COM-09336/1568-1476-N https://www.digikey.com.mx/product-detail/es/texas-instruments/SN74LS04N/296-1629-5-ND https://www.digikey.com.mx/product-detail/es/texas-instruments/SN74LS32N/296-1658-5-ND

https://www.transmotec.com/product/SD3039-12-120-F/

https://www.digikey.com.mx/product-detail/es/vector-electronics/12X12WE/V2041-ND/18864 https://www.digikey.com.mx/product-detail/es/w-rth-elektronik/61301011821/732-2859-ND/25 https://www.mcielectronics.cl/en_US/shop/product/l298n-dual-h-bridge-dc-stepper-motor-driv

https://www.digikey.com.mx/product-detail/es/samsung-semiconductor-inc/SI-B8T521B20WVhttps://www.digikey.com.mx/product-detail/es/omron-electronics-inc-emc-div/SS-5GL2/SW15https://www.digikey.com.mx/product-detail/es/w-rth-elektronik/61300411121/732-5317-ND/48https://www.digikey.com.mx/product-detail/es/microchip-technology/PIC18F4550-I-P/PIC18F4https://www.digikey.com.mx/product-detail/es/e-switch/R1966ABLKBLKFF/EG1510-ND/2105

https://www.microjpm.com/products/ad40257/

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