

Component	Brand	Description	Part Number
Controller	Digital Dream	DDCS Motion Controller	3.1
IDC40 Breakout	CZH-Labs Electronics-S&E	DIN Rail Mount Dual IDC40 Pitch 2.54mm Male Header Interface Module Breakout Board.	MD-D1154T-1
Arduino DIN Mount	Winford Engineering	DIN Rail Mounting Plate for Arduino, Right Angle L-Bracket Design	DINP03-RD01
Encloser	Vevor	Carbon Steel Electrical Enclosure IP65, 20x16x8"	DQXJSTCF550X40X20V0
Encloser Feet	McMaster-Carr	Load-Rated Threaded Bumper Rubber with Steel Base	93115K211
Handles	Uxcell	140mmx40mm Stainless Steel Pull Handle, 122mm	A18012400ux0076
Mounting Rail	Generic	DIN Rail Slotted Zinc Plated Steel , 35mmx7.5mm	
Stepper Driver	Generic	DM542	DM542
BDLC Driver	Generic	WS220	WS220
115v VFD	Teco Westinghouse	Micro VFD, 115V 1 Ph in	L510-101-H1-U
PWM to 10V converter	Hilitand	24V PWM to 0-10V Converter	K24P-10V
Power Supply, Motors	Delta	DIN Rail Power Supplies 48V 480W DIN Rail Power Supply	DRP048V480W1BN
Power Supply, Controller, etc	MeanWell	AC/DC DIN RAIL SUPPLY 24V 15W	HDR-15-24
Power Supply, Arduino etc.	MeanWell	AC/DC DIN RAIL SUPPLY 12V 15W	HDR-15-12
Power Connector, Arduino	Generic	12v DC Power Jack, 5.5mm x 2.1mm, Female, screw	
Power Monitor	Generic	DC 6.5-100V 0-20A LCD Display Digital Ammeter Voltmeter Multimeter	PZEM-031
Safety Circuit Contactor	Seimens	CONTACTOR, AC-3, 4KW/400V, 1NO, DC 24V, 3-Pole, SZ S00 Screw Terminal	3RT20161BB41
Safety Circuit Lamp Relay	Generic	DC 24V Coil 14 Pin 3A 4PDT LED Indicator Electromagnetic Power Relay	HH54P
Safety Circuit Lamp Relay	Generic	HH54P Socket, DIN Rail	PYF14A-E
Power Socket	Generic	Panel Mount Plug Adapter AC 250V 10A/15A	C14
Mains Power Switch	Generic	2 Positions 6 Terminals Universal Rotary Cam Selector Latching Switches 660V 25A	SYW30-25
AC Circuit Breaker	Generic	Miniature Circuit Breaker - AC 120V/240V Din Rail Mount 2P 25A	DZ47-63
DC Circuit Breaker	Langir	Circuit Breaker, 10A 1 Pole, DIN Rail, C Curve	JB-C-1P-10A
Ferrite	Generic	Clip-on Ferrite RFI EMI Noise Suppressor (9mm)	
EMI Filter	Generic	AC 115/250V 20A Noise Suppressor Power EMI Filter	CW4L2-20A-S
Power Distribution	Phoenix Contact	CLIPLINE PTFIX, 19 position, Red	3273114
Power Distribution	Phoenix Contact	CLIPLINE PTFIX, 19 position, Black	3273124
Power Distribution	Phoenix Contact	CLIPLINE PTFIX, 19 position, Green	3273118
Power Distribution	Phoenix Contact	CLIPLINE PTFIX, 6 position, Red	3273268
Power Distribution	Phoenix Contact	CLIPLINE PTFIX, 6 position, Black	3273408
Power Distribution	Phoenix Contact	CLIPLINE PTFIX, 6 position, Green	3273402
Power Distribution	Phoenix Contact	CLIPLINE PTFIX, DIN RAIL ADAPTER GRAY	3274054
Rail Mounting	Phoenix Contact	CLIPFIX 35 - End clamp	3022218
Rail Mounting	Generic	C45 DIN Rail PCB Mounting Bracket Holder Carrier Clips for Width 35mm or 15mm Din Rail	KPRH-175
Rail Mounting	Winford Engineering	Steel Right Angle (90 Degree) DIN Rail Mounting Clips -- Left Hand	DINM30
Internal Display	Generic	20x4 LCD Display Module with I2C Interface Adapter	Z-0235
Temperature Control	Zhiyu	PWM Driver Module, DC24V, 4-Wire Fan Temperature Controller	FAN-1248 (1x4L)
Temperature Display	Generic	Digital Temperature Meter, K-Type, Red, 12v	1365
Cooling Fan	Noctua	Heavy Duty Cooling Fan, 4-Pin, 3000 RPM, 24V Version (140mm, Black)	NF-A14 iPPC-24V-3000
Fan Connection to Controller	JST	JST-VH-4P	JST-VH-4P
Fan Connection to Controller	Maxmoral	PWM fan 4-pin connection	PWNPSCC-M-5
Safety Circuit Button Switch	Auspicious	Red, 22mm 1NC Momentary Push Button Switch 24V AC DC LED Illuminated	LXL22-10C
Safety Circuit Button Switch	Auspicious	Green, 22mm 1NC Momentary Push Button Switch 24V AC DC LED Illuminated (Red)	LXL22-10C
Safety Circuit Button Switch	Auspicious	Estop, 22mm 1NC Push Button Switch Estop EPO Mushroom Switch 12V DC LED Illuminated	MBL22-1C
Aux Button Switch	Auspicious	Blue, 22mm 1NC Momentary Push Button Switch 24V AC DC LED Illuminated (Red)	LXL22-10C
Aux Mode Switch	Auspicious	22mm Selector Switch Maintained 2 Normally Open 3 Positions	CS223
Safety Circuit Button Switch	Auspicious	NO Contact Block	B-1/O
Safety Circuit Button Switch	Auspicious	NC Contact Block	B-1/C
Safety Circuit Button Switch	Auspicious	Lamp Holder	LH-1B
GX-16-5	Generic	Panel Metal Mount Circular Metal Aviation Female Plug Socket, Stepper Motors	
GX-16-4	Generic	Panel Metal Mount Circular Metal Aviation Female Plug Socket, BDLC Motor	
GX-16-2	Generic	Panel Metal Mount Circular Metal Aviation Female Plug Socket, Limit Switches	
USB Panel Socket	Switchcraft	Receptacle Panel Mount, USB-A, Thumb Drive & Keyboard	EHUSBAABX
USB Panel Socket	Switchcraft	Receptacle Panel Mount, USB-B, Arduino	EHUSBBABX
USB Panel Socket	Adafruit Industries	Receptacle Panel Mount, USB-C, Arduino & Others	4261
DB15 Panel Socket	Generic	IDC D-Sub Ribbon Cable Connector 15-pin 2-Row Male Plug	
DB15 Panel Screws	Generic	4#-40 5+12mm F/M Brass Hex Standoff Spacer Screws	
DB37 Connector	Generic	IDC D-Sub Ribbon Cable Connector 37-pin 2-Row Male Plug	
Connection to Control Breakout	Generic	IDC40 Pin Flat Cable IDC Socket Connector, 2.54mm Pitch, Female	
Wire Ferrule	XHF	XHF AWG 18/1.00mm ² Wire Ferrules, Black	
Wire Ferrule	XHF	XHF AWG 20/0.75mm ² Wire Ferrules, Black	
Wire Ferrule	XHF	XHF AWG 22/0.50mm ² Wire Ferrules, Black	
Wire Ferrule	XHF	XHF AWG 24/0.34mm ² Wire Ferrules, Black	
PCB/#P/5.08 Connector	Generic	Various	
PCB/#P/3.81 Connector	Generic	Various	