

DMCdrive parts list

*Note, data acquisition system (e.g., Neuralynx Digital Lynx SX), cables, and headstages are not included in the list.

May-20

Supplies & tools	Product name	Price (approx.)	Provider
3D printer	MakerBot Replicator (<i>consistent performance 380,000 hrs</i>)	\$ 2,000.00	amazon.com
PLA filament	MakerBot Large Spool, 1.75 mm, 0.9 kg	\$ 40.00	
Shuttle screw	DIN 912, M1.6 x 10mm Cap head screw, 50 pack	\$ 9.00	accu.co.uk
Nut	DIN 439, M1.6 Thin hex. Nut, 50 pack	\$ 51.00	
Fixing & anchor screw	DIN 84, M1 x 5mm Cheese head screw, 100 pack	\$ 19.00	
	DIN 84, M1 x 2mm Cheese head screw, 100 pack	\$ 18.00	
EIB	2 layer, 3 x 10 PCBs	\$ 15.00	oshpark.com
Omnetics	A79042-001, 18 pin male nano dual row connector, 50 pack	\$ 1,750.00	omnetics.com
Shuttle tube	polyimide tubing, 0.0049" ID x 0.0064" OD, 30 cm, 5 pack	\$ 71.00	coleparmer.com
Guide tube	0.0120" ID x 0.0140" OD, 30 cm, 5 pack	\$ 60.00	
Tetrode wire	Sandvik Precision Fine Tetrode Wire, 30 Meter	\$ 150.00	amazon.com
Ground wire	Stainless steel, PFA coating, 0.003 inch, low kPSI, 30 Meter	\$ 138.00	a-msystems.com
Gold pin	Large EIB Pins, 1000 pack	\$ 200.00	neuralynx.com
Gold plating solution	Gold plating solution 1 oz (28 g)	\$ 200.00	
Electroplating device	Nano-Z Kit	\$ 4,000.00	
Fiber optic ferrule	CFLC230-10, Ø230 µm bore, 10 x 5 pack	\$ 275.00	thorlabs.com
Multimode optical fiber	FT200EMT, Ø200 µm core, 0.39 NA, 10 Meter	\$ 15.00	
Fiber-optic cleaver	S90R, Ruby DualScribe	\$ 56.00	thorlabs.com
Fiber polishing paper	LF6D, final lapping, 0.02 µm grit, 5 sheets	\$ 40.00	
	LF1D, 1 µm grit, 5 sheets	\$ 40.00	
	LF6D, 6 µm grit, 5 sheets	\$ 40.00	
	D50-LC polishing disc	\$ 93.00	
Fiber polishing plate	CTG913, glass polishing plate	\$ 40.00	
Glue	Z-poxy 5 minute set, 4 oz	\$ 13.00	amazon.com
	Loctite Super Glue Precision, 5g	\$ 7.00	
Cutter	Precision craft cutting knife	\$ 10.00	
	Precision soft wire cutting pliers	\$ 10.00	
Soldering	Soldering iron kit	\$ 20.00	
	Solder wire	\$ 10.00	
	Solder fume absorber	\$ 30.00	
	Helping hands	\$ 10.00	
Connecting	Precision tweezers	\$ 10.00	
	Serrated jaw pliers	\$ 10.00	
Drill bit set	Ø0.5-1.5 mm	\$ 10.00	
Screw driver	Whia precision screw driver, slotted 4 mm	\$ 10.00	
	Whia precision screw driver, hex 1.5 mm	\$ 10.00	
Forceps	Dumont #5 ceramic coated fine forceps	\$ 73.00	finescience.com
	Dumont #5 fine forceps	\$ 53.00	
Scissors	Tungsten Carbide & toughcut (serrated)	\$ 206.00	
	Sharp fine scissors	\$ 79.00	

\$ 9,891.00

Price/drive	Included parts
\$ 0.60	3D-printed parts on support 12g, 2h
\$ 0.18	Shuttle screw x1
\$ 1.02	Shuttle nut x1
\$ 0.38	Fixing screw x2
\$ 0.90	Anchor screw x5
\$ 0.50	EIB x1

\$ 3.58