

Getting Started Components

80/20 2040 Kit	1	<a href="http://www.e">http://www.e</a>	\$273.75	\$273.75
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Total Esitmate  
\$312.40

Stand Componets

Base extender 44" section WC	2	<a href="http://ww">http://ww</a> <a href="http://www.w">http://www.w</a>	\$49.99	\$99.98
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Base Leg set WC 148371	1	<a href="http://ww">http://ww</a> <a href="http://www.w">http://www.w</a>	\$54.99	\$54.99
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4' x 8' x 3/4" Particle Board	2	<a href="http://ww">http://ww</a> <a href="http://www.h">http://www.h</a>	\$19.55	\$39.10
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Bulk based on \$1.99 per lb

1/4-20 x 2" Carriage Bolts	32	0.5		\$1.99
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1/4-20 x 2-1/2" Carriage Bolts	16	0.6		\$1.19
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1/4 Washers	48	0.111111		\$0.66
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1/4 Lock Washers	48	0.038961		\$0.23
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1/4-20 Hex Nuts	48	0.107143		\$0.64
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Total Estimate  
\$198.79

Optional

1/2" Washers for Casters	4			
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1/2" Split Lock Washers for Cas	4			
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Caster 1/2" Lug WC 148595	4	<a href="http://ww">http://ww</a> <a href="http://www.w">http://www.w</a>	\$16.99	\$67.96
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2" x 2" x 1/4" x 48" Steel Angle	4	<a href="http://www.low">www.low</a> <a href="http://www.lc">http://www.lc</a>	\$26.49	\$105.96
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Y Beam

2" x 2" x 1/4" x 48" Steel Angle	4	<a href="http://www.onlir">www.onlir</a> <a href="http://www.o">http://www.o</a>	\$19.57	\$78.28
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1/4"-20 x 10' Threaded Rod	3	<a href="http://www.hom">www.hom</a> <a href="http://www.h">http://www.h</a>	\$4.47	\$13.41
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T-Track Oval Nut 1/4"-20	4	<a href="http://www.woo">www.woo</a> <a href="http://www.w">http://www.w</a>	3.99	\$15.96
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Bulk based on \$1.99 per lb

1/4-20 x 3" Hex Bolts	48	1		\$5.97
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1/4 Washers	128	0.111111		\$1.77
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1/4 Lock Washers	80	0.038961		\$0.39
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1/4-20 Hex Nuts	80	0.107143		\$1.07	Total Estimate
					\$116.84

Table

4' x 8' x 3/4" Particle Board	1	<a href="http://www.">http://www.</a>	\$19.55	\$19.55	
1-5/8" x 10' Superstrut	3	<a href="http://www.">http://www.</a>	18.97	56.91	
Bulk based on \$1.99 per lb					
1/4-20 Hex Nuts	50	0.107143		\$0.67	
1/4 Washers	50	0.111111		\$0.69	
1/4 Lock Washers	50	0.038961		\$0.24	
1/4-20 x 5" Carriage Bolts	35	1		\$4.35	
1/4-20 x 2-1/2" Carriage Bolts	15	0.6		\$1.12	
3/8 Washers	32	0.230769		\$0.92	
3/8 Lock Washers	16	0.111111		\$0.22	
3/8-16 Hex Nuts	16	0.25		\$0.50	
3/8-16 x 1-1/2" Hex Bolt	16	1		\$1.99	Total Estimate
					\$87.16

Y Rail

3/4" x 3/4" x 1/8" x 72" Alumin	4	<a href="http://www.">http://www.</a>	\$5.14	\$20.56	6063 T52
Bulk based on \$1.99 per lb					
1/4-20 Hex Nuts	56	0.107143		\$0.75	
1/4 Washers	56	0.111111		\$0.77	
1/4 Lock Washers	56	0.038961		\$0.27	
1/4-20 x 3/4" Carriage Bolts	56	0.3		\$2.09	Total Estimate
					\$24.44

Y Carriage

1" x 1" x 1/8" x 36" Steel Angle	1	<a href="http://www.">http://www.</a>	\$4.72	\$4.72	
2" x 2" x 3/16" X 24" Steel Angl	2	<a href="http://www.">http://www.</a>	\$9.12	\$18.24	
1/2-10 Acme 5 Start Nut	4	<a href="http://www.">http://www.</a>	\$18.50	\$74.00	Be sure to select 5-Start

V Groove Bearings	8	<a href="http://www.v">http://www.v</a>	\$8.88	\$71.04	
3/16" Washers	8	Pack of 30		\$1.99	
Bulk based on \$1.99 per lb					
1/4-20 Hex Nuts	32	0.107143		\$0.43	
1/4 Washers	56	0.111111		\$0.77	
1/4 Lock Washers	32	0.038961		\$0.16	
1/4-20 x 1-1/2" Hex Bolt	8	0.5		\$0.50	
1/4-20 x 1" Hex Bolt	24	0.3		\$0.90	
3/8 Washers	24	0.230769		\$0.69	
3/8 Lock Washers	8	0.111111		\$0.11	
3/8-16 Hex Nuts	16	0.25		\$0.50	
3/8-16 x 1-1/2" Hex Bolt	8	1		\$1.00	
					Total Estimate
					\$175.03
X Beam					
3/4" x 3/4" x 1/8" x 48" Alumin	2	<a href="http://www.o">http://www.o</a>	\$3.71	\$7.42	6063 T52
Bulk based on \$1.99 per lb					
1/4-20 Hex Nuts	30	0.107143		\$0.40	
1/4 Washers	30	0.111111		\$0.41	
1/4 Lock Washers	30	0.038961		\$0.15	
1/4-20 x 3/4" Carriage Bolts	30	0.3		\$1.12	
					Total Estimate
					\$9.50
X Carriage					
2" x 2" x 3/16" X 24" Steel Angl	1	<a href="http://www.o">http://www.o</a>	\$9.12	\$9.12	
1/2-10 Acme 5 Start Nut	2	<a href="http://www.c">http://www.c</a>	\$18.50	\$37.00	Be sure to select 5-Start
V Groove Bearings	4	<a href="http://www.v">http://www.v</a>	\$8.88	\$35.52	
3/16" Washers	8	Pack of 30		\$1.99	\$93.13
3/4" x 3/4" x 1/8" x 36" Alumin	1	<a href="http://www.o">http://www.o</a>	\$3.13	\$3.13	6063 T52
Bulk based on \$1.99 per lb					

1/4-20 Hex Nuts	16	0.107143		\$0.21	
1/4 Washers	16	0.111111		\$0.22	
1/4 Lock Washers	16	0.038961		\$0.08	
1/4-20 x 1-1/2" Hex Bolt	4	0.5		\$0.25	
1/4-20 x 3/4" Carriage Bolts	30	0.3		\$1.12	
1/4-20 x 1" Carriage Bolt	4	0.3		\$0.15	
3/8 Washers	12	0.230769		\$0.34	
3/8 Lock Washers	4	0.111111		\$0.06	
3/8-16 Hex Nuts	8	0.25		\$0.25	
3/8-16 x 1-1/2" Hex Bolt	4	1		\$0.50	
					Total Estimate
					\$89.94

Z Carriage

2" x 2" x 1/8" X 36" Steel Angle	1	<a href="http://www.oi.com">http://www.oi.com</a>	\$7.10	\$7.10	
1" x 1" x 1/8" x 36" Steel Angle	1	<a href="http://www.oi.com">http://www.oi.com</a>	\$3.35	\$3.35	
1/2-10 Acme 5 Start Nut	2	<a href="http://www.cri.com">http://www.cri.com</a>	\$18.50	\$37.00	Be sure to select 5-Start
V Groove Bearings	4	<a href="http://www.vmi.com">http://www.vmi.com</a>	\$8.88	\$35.52	
3/16" Washers	8	Pack of 30		\$1.99	
KRMx01 Z Plate	1	<a href="http://www.kr.com">http://www.kr.com</a>	\$89.95	\$89.95	
Bulk based on \$1.99 per lb					
1/4-20 Hex Nuts	23	0.107143		\$0.31	
1/4 Washers	37	0.111111		\$0.51	
1/4 Lock Washers	22	0.038961		\$0.11	
1/4-20 x 1-1/2" Hex Bolt	16	0.5		\$1.00	
1/4-20 x 3/4" Hex Bolts	8	0.3		\$0.30	
1/4-20 x 1" Hex Bolt	4	0.3		\$0.15	
1/4-20 x 2" Carriage Bolts	1	0.5		\$0.06	
3/8 Washers	12	0.230769		\$0.34	
3/8 Lock Washers	4	0.111111		\$0.06	
3/8-16 Hex Nuts	8	0.25		\$0.25	
3/8-16 x 1-1/2" Hex Bolt	4	1		\$0.50	
					Total Estimate
					\$178.49

### Z Motor Mount

1" x 1" x 1/8" x 24" Steel Angle	5	<a href="http://www.">http://www.</a> <a href="http://www.o">http://www.o</a>	\$3.35	\$16.75	
1/2"ID x 1-1/8"OD X 5/16" bear	7	<a href="http://www">http://www</a> <a href="http://www.v">http://www.v</a>	\$3.95	\$27.65	Also Available form <a href="http://www.cncrouterparts.com">www.cncrouterparts.com</a>
2' x 4' Sheet of Particle Board	1		\$10.00	\$10.00	
2' x 4' x 1/8" Tempered hardbo	1	<a href="http://ww">http://ww</a> <a href="http://www.h">http://www.h</a>	4.38	4.38	

### Bulk based on \$1.99 per lb

1/4-20 Hex Nuts	127	0.107143		\$1.69	
1/4 Washers	184	0.111111		\$2.54	
1/4 Lock Washers	81	0.038961		\$0.39	
1/4-20 x 4-1/2" Hex Bolt	23	1		\$2.86	
1/4-20 x 3/4" Carriage Bolts	62	0.3		\$2.31	
1/4-20 x 2-1/2" Hex Bolts	35	0.6		\$2.61	
1/4-20 x 5" Carriage Bolts	7	1		\$0.87	
					Total Estimate
					\$72.06

### ACME Lead Screws

72" 1/2-20 5 Start Acme Lead S	3	<a href="http://ww">http://ww</a> 99030A704	\$57.50	\$172.50	
36" 1/2-20 5 Start ACME Lead S	1	<a href="http://ww">http://ww</a> 99030A304	\$28.75	\$28.75	
Speco 1/2" x 14 Guage Machin	7	<a href="http://ww">http://ww</a> <a href="http://www.tr">http://www.tr</a>	1.99	\$13.93	
1/2" Shaft Collar	14	<a href="http://ww">http://ww</a> <a href="http://www.m">http://www.m</a>	\$1.79	\$25.06	
					Total Estimate
					\$240.24

### Optional

72" 1/2-10 5 Start ACME Lead S	3	<a href="http://ww">http://ww</a> 98940A020	\$86.90	\$260.70	
36" 1/2-20 5 StartACME Lead S	1	<a href="http://ww">http://ww</a> 98940A627	\$43.45	\$43.45	

### Basic Electrical Hookup

M3-.5 x 10mm machine screw	1	<a href="http://www.ama">www.ama</a> <a href="http://www.ai">http://www.ai</a>	\$4.68	\$4.68	For Pack of 100
6-Position Dual-Row Barrier Str	1	<a href="http://www.radic">www.radic</a> <a href="http://www.re">http://www.re</a>	\$2.59	\$2.59	274-659
4-Position Dual-Row Barrier Str	1	<a href="http://www.radic">www.radic</a> <a href="http://www.re">http://www.re</a>	\$2.19	\$2.19	274-658
15 ft Extension Cord	1	<a href="http://www.homedepot.com">www.homedepot.com</a>	\$12.98	\$12.98	
1-1/2" angle bracket	1	<a href="http://www.homedepot.com">www.homedepot.com</a>	\$2.00	\$2.00	
#6-32 x 3/8 Machine Screws	1	<a href="http://www.homedepot.com">www.homedepot.com</a> #27511	\$1.88	\$1.88	
#6-32 x 1/2 Machine Screws	1	<a href="http://www.homedepot.com">www.homedepot.com</a> #27521	\$1.88	\$1.88	
#6-32 x 3/4 Machine Screws	1	<a href="http://www.homedepot.com">www.homedepot.com</a> #27541	\$1.88	\$1.88	
#6 washers	1	<a href="http://www.homedepot.com">www.homedepot.com</a> #19791	\$1.88	\$1.88	
16 gauge Wire	1	<a href="http://www.homedepot.com">www.homedepot.com</a>	\$5.00	\$5.00	
48V Power Supply	1	<a href="http://www.jameco.com">www.jameco.com</a> <a href="http://www.jameco.com">http://www.jameco.com</a>	\$114.95	\$114.95	
Gecko G540 40 Axis Controller	1	<a href="http://www.cncrobotics.com">www.cncrobotics.com</a> <a href="http://www.cncrobotics.com">http://www.cncrobotics.com</a>	\$290.00	\$290.00	
2' x 4' x 1/4" Lauan Handypanel	1	<a href="http://www.homedepot.com">www.homedepot.com</a> #28516	\$5.47	\$5.47	

Total Estimate  
\$447.38

### Mach 3

380oz Stepper Motor	4	<a href="http://www.cncrobotics.com">www.cncrobotics.com</a> <a href="http://www.cncrobotics.com">http://www.cncrobotics.com</a>	\$52.50	\$210.00	
10 Foot Parallel Port Cable	1	<a href="http://www.cncrobotics.com">http://www.cncrobotics.com</a> <a href="http://www.cncrobotics.com">http://www.cncrobotics.com</a>	\$11.95	\$11.95	

### Software

Mach3 Controller Software Der	1	<a href="http://machsupport.com">http://machsupport.com</a>	\$0	\$0	
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Total Estimate

\$221.95

Motors

1/4-20 x 3/4" Standoffs (rod co	26	<a href="http://www.homedepot.com">www.hom</a> 30699191161	\$0.41	\$10.66	1.24 for pack of 3
Zero Backlash Helical Shaft Cou	4	<a href="http://www.homedepot.com">http://www</a> <a href="http://www.c">http://www.c</a>	\$20.00	\$80.00	
#10-24 x 1-1/4" Machine Screw	16	<a href="http://www.homedepot.com">www.hom</a> 30699277612	\$0.24	\$3.84	5, machine screws and nuts per pack
#10-24 Hex Nut	16	<a href="http://www.homedepot.com">www.homedepot.com</a>			Included in #10 machine screw pack
#10 Washer	16	<a href="http://www.homedepot.com">www.homedepot.com</a>	\$0.04	\$0.64	Singl Pack 1.18 for 30 items

Bulk based on \$1.99 per lb

1/4-20 Hex Nuts	26	0.107143		\$0.35	
1/4 Washers	52	0.111111		\$0.72	
1/4 Lock Washers	26	0.038961		\$0.13	

Total Estimate  
\$138.33

Cable Hookup

24" x 48" x 3/4" Particle Board	1	<a href="http://www.homedepot.com">www.hom</a> <a href="http://www.homedepot.com">www.homede</a>	\$10.87	\$10.87	
Hook and Loop straps	1	<a href="http://www.homedepot.com">www.hom</a> <a href="http://www.homedepot.com">www.homede</a>	\$4.47	\$4.47	
Rubber Bands #64	1		\$3.00	\$3.00	
String Tags	1		\$4.00	\$4.00	
20' Motor Cable	1	<a href="http://www.cncr.com">www.cncr</a> <a href="http://www.cncr.com">http://www.c</a>	\$19.95	\$19.95	
12' Motor Cable	3	<a href="http://www.cncr.com">www.cncr</a> <a href="http://www.cncr.com">http://www.c</a>	\$15.95	\$47.85	

Bulk based on \$1.99 per lb

1/4-20 Hex Nuts	8	0.107143		\$0.11	
1/4 Washers	8	0.111111		\$0.11	
1/4 Lock Washers	8	0.038961		\$0.04	
1/4-20 x 3" Carriage Bolts	15	0.7		\$1.31	
3/8 Washers	8	0.230769		\$0.23	

Total Estimate

\$91.93

Clamp Table

#6 1-5/8" Coarse Tread Drywal	1	<a href="http://www.h">www.hom</a> <a href="http://www.h">http://www.h</a>	\$6.47	\$6.47	1Lb Box
24" x 96" X 3/4" White Melimir	1	<a href="http://www.h">www.hom</a> #85630700011	\$27.98	\$27.98	
Build-It System 1/4-20 Knob Kit	1	<a href="http://www.woodcraft.co">www.woodcraft.co</a> <a href="http://">http://</a>	\$10.99	\$10.99	
Baltic Birch 12 x 12 x 11/16"	1		\$5	\$5	

Bulk based on \$1.99 per lb

1/4-20 x 1-1/2" Cariage Bolt	10	0.5		\$0.62	
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Total Estimate  
\$51.06

Router Hookup

Festool MFK700 Router	1				
MFK700 Router Mout kit	1		\$29.95	\$29.95	
15 ft Extension Cord	1	<a href="http://www.h">www.hom</a> <a href="http://www.h">http://www.h</a>	\$12.98	\$12.98	

Optional

K2CNC Router Mount	1	<a href="http://www.k">http://www.k</a>	\$70		
Router of your choice					

Total Estimates  
\$42.93



Fences

Build-It System 1/4-20 Knob Kit	1	<a href="http://www.woodcraft.com">www.woodcraft.com</a>	\$10.99	\$10.99
MDF Handy Panel 1/4" Thick	1		\$5	\$5

Bulk based on \$1.99 per lb

1/4-20 x 1" Cariage Bolt	4	0.5		\$0.25
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Dragon Cable

1/2" 4 hole 90 degree Angle Br.	1	<a href="http://www.homedepot.com">www.homedepot.com</a>	\$1.97	\$1.97
24" x 48" x 1/8" Hardboard	3	<a href="http://www.homedepot.com">www.homedepot.com</a>	4.38	13.14
#6 x 1/4 Machine Screw	260	<a href="http://www.jameco.com">www.jameco.com</a>	\$0.04	\$10.40
#6 x 3/8 Machine Screw	135	<a href="http://www.jameco.com">www.jameco.com</a>	\$0.04	\$5.40

Bulk based on \$1.99 per lb

3/8 Washers	29	0.230769		\$0.83
3/8 Lock Washers	4	0.111111		\$0.06
3/8-16 Hex Nuts	5	0.25		\$0.16
3/8-16 x 1-1/2" Hex Bolt	2	1		\$0.25
1/4-20 x 1-1/2" Cariage Bolt	2	0.5		\$0.12
1/4-20 Hex Nuts	2	0.107143		\$0.03
1/4 Washers	6	0.111111		\$0.08
1/4 Lock Washers	2	0.038961		\$0.01

Total Estimates  
\$32.45

Total Cost  
\$2,624.05