

Bill of Materials: P17665	Rotating Dynamometer
As of Date: 5/8/17	Document Owner: Joe Amoia

Total Cost:	\$1,571.29
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Remaining Budget:	\$428.71
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Total Safe Cost:	\$2,014.03
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Remaining Safe Budget	-\$14.03
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Order Phase	Manufacturer Part #	Manufacturer	Description	Identity	Qty	Price	Shipping	Total Cost	Purchase Request #	Lead Time	Status	Vendor	Vendor Part #	Link	Notes
1	RN42XVP-I/RM	Roving Networks	Bluetooth Transceiver	EE	1	\$24.95	\$5.09	\$30.04	#1989			SparkFun	WRL-11601 ROHS	<a href="https://www.sparkfun.com">https://www.sparkfun.com</a>	
1	MSP-EXP430G2	Texas Instruments	TI Launchpad	EE	1	\$9.99	\$7.99	\$21.58	#1994			Mouser	595-MSP-EXP430G2	<a href="http://www.mouser.com">http://www.mouser.com</a>	
1	LM358N	Fairchild Semiconductor	Operational Amplifiers	EE	10	\$0.36						Mouser	512-LM358N	<a href="http://www.mouser.com">http://www.mouser.com</a>	
3	INA122PA	Texas Instruments	Operational Amplifiers	EE	6	\$6.04	\$8.44	\$44.68	#5136			Digi-Key	INA122PA-ND	<a href="http://www.digikey.com">http://www.digikey.com</a>	
3	497-1492-5-ND	Texas Instruments	Voltage Regulators	EE	3	\$0.59	\$8.84	\$10.61				Digi-Key	497-1492-5-ND	<a href="http://www.digikey.com">http://www.digikey.com</a>	
1	USB-BT400	ASUS	USB 2.0 Bluetooth Adapter	EE	1	\$12.99	\$0.00	\$12.99	#1999			Newegg	USB-BT400	<a href="http://www.newegg.com">http://www.newegg.com</a>	
1	PRT-12702	SparkFun	Prototype Board for Electronics	EE	2	\$2.95	\$2.83	\$8.73	#2004			Digi-Key	1568-1083-ND	<a href="http://www.digikey.com">http://www.digikey.com</a>	
1	B00DW8AX68	TrustFire	2500 mAh Rechargeable Battery	EE	2	\$25.05	\$4.69	\$54.79	#2094			Amazon	53580	<a href="https://www.amazon.com">https://www.amazon.com</a>	
1	B00A7L1MTU	TrustFire	TR-006 Dual-Slot Battery Charger	EE	1	\$12.79	\$6.43	\$19.22	#2029			Amazon	B00A7L1MTU	<a href="https://www.amazon.com">https://www.amazon.com</a>	
1	BG-US-48962	C.J. Shop	Battery Storage Case	EE	1	\$3.98	\$0.00	\$3.98	#2034			Amazon	BG-US-48962	<a href="https://www.amazon.com">https://www.amazon.com</a>	
2	INA122PA	Texas Instruments	Operational Amplifiers	EE	3	\$6.04	\$8.44	\$26.56	#2279			Digi-Key	INA122PA-ND	<a href="http://www.digikey.com">http://www.digikey.com</a>	
1	2AHL2	Grainger	Carbon Steel, 1215, 3 in. Dia x 3 Ft.	ME	1	\$219.15	\$0.00	\$219.15	#2024			Grainger	2AHL2	<a href="https://www.grainger.com">https://www.grainger.com</a>	
2	1015595	Kennemetal	Tool Holder	ME	1	\$176.02						Fastenal	3373557	<a href="https://www.fastenal.com">https://www.fastenal.com</a>	
2	1014935	Kennemetal	1/2 in. Diameter Collet	ME	1	\$19.59	\$9.96	\$225.16	#3470			Fastenal	3373439	<a href="https://www.fastenal.com">https://www.fastenal.com</a>	
2	1014726	Kennemetal	1/4 in. Diameter Collet	ME	1	\$19.59						Fastenal	3373359	<a href="https://www.fastenal.com">https://www.fastenal.com</a>	
2	9031790127000	Guhring	1/2 in Diam. X 1 in. Length, 6 Flute	ME	2	\$71.82						MSC	89478671	<a href="http://www.msdirect.com">http://www.msdirect.com</a>	
2	N85610	Niagara Cutter	1/2 in. Diam. X 1 in. Length, 4 Flute	ME	1	\$69.54	\$0.00	\$295.88	#3425			MSC	36702702	<a href="http://www.msdirect.com">http://www.msdirect.com</a>	
2	9031790063500	Guhring	1/4 in. Diam. X 3/4 in Length, 6 Flute	ME	2	\$28.85						MSC	89478705	<a href="http://www.msdirect.com">http://www.msdirect.com</a>	
2	N85594	Niagara Cutter	1/4 in. Diam x 3/4 in. Length, 4 Flute	ME	1	\$25.00						MSC	36702546	<a href="http://www.msdirect.com">http://www.msdirect.com</a>	
2	SGD-3/350-LY41	Omega	Strain Gauges	EE	4	\$56.00	\$16.00	\$240.00	#3480			Omega	SGD-3/350-LY41	<a href="http://www.omega.com">http://www.omega.com</a>	1 Qty = 10 Gauges
2	BTP-1	Omega	Bondable Terminal Pads	EE	1	\$41.00	\$0.00	\$41.00				Omega	BTP-1	<a href="http://www.omega.com">http://www.omega.com</a>	
2	SGD-3/350-LY11	Omega	Strain Gauges	EE	4	\$68.00	\$0.00	\$272.00	#4271			Omega	SGD-3/350-L141	<a href="http://www.omega.com">http://www.omega.com</a>	1 Qty = 10 Gauges
4	810632	Everbilt	Wire Rope Kit	ME	1	\$12.87	\$0.00	\$12.87				Home Depot	810632	<a href="http://www.homedepot.com">http://www.homedepot.com</a>	
4	43064	Everbilt	Wire Clamps	ME	1	\$1.98	\$0.00	\$1.98	#6261			Home Depot	43064	<a href="http://www.homedepot.com">http://www.homedepot.com</a>	
4	42994	Everbilt	Pulley	ME	1	\$4.26	\$0.00	\$4.26				Home Depot	42994	<a href="http://www.homedepot.com">http://www.homedepot.com</a>	
5	1756T2	McMaster	Spring Scale	ME	1	\$55.85	\$8.61	\$55.85	#10371			McMaster	1756T2	<a href="https://www.mcmaster.com">https://www.mcmaster.com</a>	
-	-	-	Wiring	EE	1							-	-	-	
-	-	-	Adhesive	ME	1							-	-	-	
Customer Provided															

Key	
	Not Ordered
	Ordered
	Shipped
	Delivered
	Returned
	Same Order
Safe Cost	Cost when doubling EE Costs