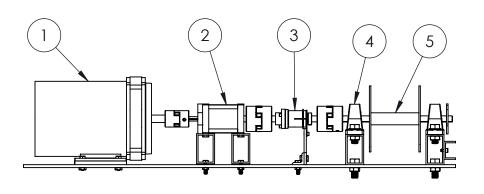
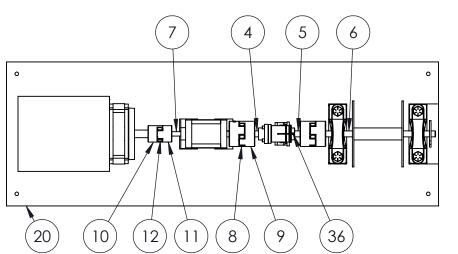


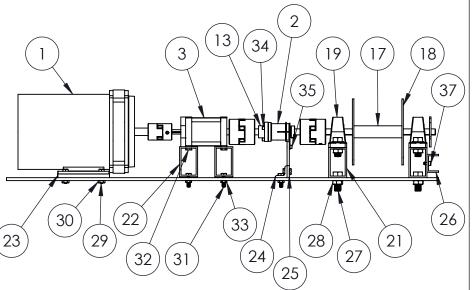
ITEM NO.	PART NUMBER	PART NAME	SOURCE	
1	MD0502F	DC Motor	Hallmark Industries	
2	P80S-333-14	P80 27:1 Gearbox	Banebots	
3	AD100A	Autodisconnect Clutch	Tiny Clutch	
4	UCP201-08	1/2" Pillow Block Bearings	The Big Bearing Store	
5	Custom Built	Spool	McMaster (Components)	



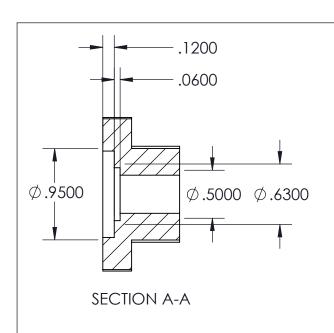
DRAWN BY Daniel McGinn			COURSE ME 93: Design for Emerging Markets SECTION 01			Ref Designation C2
Tufts School of Engineering	SHEET 1	^{OF} 2	TITLE	Base Plate Assembly		DATE 5/4/18
	APPROVED	N. Wright		ModRooster: Automated Fatigue Testing M	1achine	SCALE 1:8

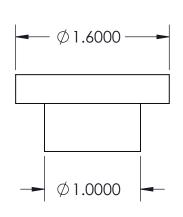
ITEM NUMBER	PART NAME	SUPPLIER	PART NUMBER	QUANTITY	PRICE PER	TOTAL PRICE	DESCRIPTION
	Aduatas						
001	Hallmark Industries DC Matar	Amazon	MD0502F	1	\$169.79	\$169.79	
002	Tiny Out ch AD-Series Autodsconnect Out ch	Helander Products	AD100A	1	\$283.26	\$283.26	
	Gears						
003	P80 Gearbac Standard Configuration, 27:1	Banebats	P80S-333-14	1	\$130.25	\$130.25	
	Shafts						
004	Keyed Rotary Shaft, 1/2' Diameter, 2' Length						
005	Keyed Rotary Shaft, 1/2' Diameter, 1.5' Length	MaMaster-Carr	1497K31	1	\$29.37	\$29.37	
006	Keyed Rotary Shaft, 1/2' Diameter, 10' Length	1 [
007	Keyed Rotary Shaft, 3/8' and 8mm Diameter, 25' Length	MaMaster-Carr	1497K4	1	\$6.25	\$6.25	
	Shaft Couplings						
008	Polyurethane Spider for 2-7/64' OD Flexible Shaft Coupling	MaMaster-Carr	2410K13	2	\$13.56	\$27.12	
009	1/2' Flexible Shaft Coupling Iran Hub	MaMaster-Carr	6408K14	4	\$5.89	\$23.56	
010	5/8' Flexible Shaft Caupling Iran Hub	MaMaster-Carr	6408K12	1	\$6.00	\$6.00	
011	3/8' Flexible Shaft Caupling Iran Hub	MaMaster-Carr	6408K12	1	\$6.00	\$6.00	
	Buna-NRubber Saider for 1-23/64' CDFlexible Shaft					·	
012	Caupling	MaMaster-Carr	6408K73	1	\$3.58	\$3.58	
013	Rigid 1/2'3 Hde Flange Mount	-	-	1	-	-	
	Shaft Kevs						
014	1/8' × 1/8' Steel Machine Key Stock	MaMaster-Carr	98491A100	1	\$1.09	\$1.09	For 1/2' Shoft
015	3/16"×3/16"Steel Machine Key Stock	MaMaster-Carr	98510A117	1	\$0.96	\$0.96	Far 5/8' Shaft
016	2mm×2mmSteel Machine KeyStack	MaMaster-Carr	92288A710	1	\$1.87	\$1.87	Far8mmShaft
0.0	Spool	manara car	72200 110		φιισ	ψιισ	TG OTTTIG GIT
017	1" CD.095" Wall Thickness Steel Round Tube, 4" length	MaMaster-Carr	9922K24	1	\$25.87	\$25.87	
018	5' × 5' Steel Disc, 1/4" Thickness	MaMaster-Carr	6544K22*	2	\$19.81	-	
Olo	Bearings	Wavasia cai	W441VZ		ψίλοι		
019	1/2' FillowBlock Bearing	The Big Bearing Sta	11CE301-08	2	\$6.90	\$13.80	
017	Mounting Components	III DAG BASIII GOIG	00120100		40.70	φιασ	
020	12"×36" Aluminum/Vounting Plate, 1/4" Thickness			1	\$30.00	\$30.00	
020	1-1/2' × 2-1/2' Aluminum Rectangular Tube, 1/8' Wall				φω.ω	φωω	
021	Thickness, 5' Length,						Bearing Spaper
021	1-1/2' × 2-1/2' Aluminum Rectangular Tube, 1/8' Wall	MaMaster-Carr	6546K59	1	\$26.04	\$26.04	Gearbax
022	Thickness, 2.5' Length						Spacers
022	0.31"MatarMount			2		_	sputas
023	10 Series 4 Hole-Wide Inside Corner Bracket	80/201nc.	4110*	1	\$4.05		
		80/2011C	4113*	1		-	
025	AluminiumT Plate	-	-	I	-	-	
~~	1-1/2' × 2-1/2' Aluminum Rectangular Tube, 1/8' Wall	Clare Consult		,			Co oo doo k to ook
026	Thickness, 3' Length Fosteners	Shap Supply	-	1	-	-	Encoder Mount
007		Harris Daniel	0.000	0	do 10	A+00	F4
027	1/2'-13× 1-1/4' Hex Bolt	Home Depot	96968	8	\$0.60	\$4.80	Fastening Pillow
028	1/2'-13 Galvarized Hex Nut	Home Depot	804076	8	\$0.38	\$3.04	Block Bearings
029	5/16"-18 × 1" Hex Bolt	Shap Supply	-	4	-	-	Fastening Moto
030	5/16'-18 Hex Nut	Shap Supply	-	4	-	-	
031	1/4'-20× 1" Hex Bolt	Shap Supply	-	6	-	-	Fastening
032	1/4'-20× 1/2' Hex Bolt	Shap Supply	-	6	-	-	Gearbax &
033	1/4'-20HexNut	Shap Supply	-	8	-	-	Out ch
034	8-32 1/4" Socket Head Sarew	Shap Supply	-	1	-	Fastenina	
035	10-24 1/2" Socket HeadSarew	Shap Supply	-	3	-	-	- Outch
036	Aluminium Fin 0.95" Diameter, 1.25" Length	Shap Supply	-	1	-	-	
					_		Fastening
037	M5x10 Socket Head Cap Sarew	Shap Supply	-	2		-	Encoder

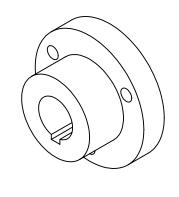


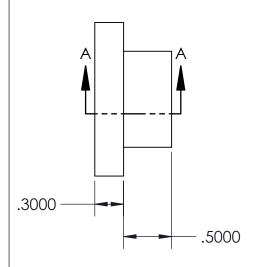


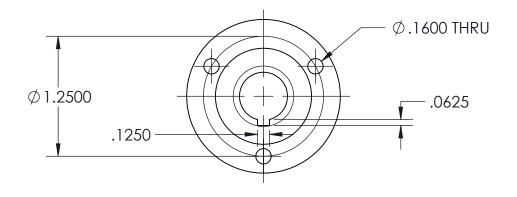
				E ME 93: Design for Emerging Markets	SECTION 01	Ref Designation C2
Tiffe School of	SHEET 2	^{OF} 2	TITLE	Base Plate Assembly		DATE 5/4/18
UNIVERSITY Engineering	School of Engineering SHEET 2 OF 2 APPROVED N. Wright	1	ModRooster: Automated Fatigue Testing	Machine	SCALE 1:8	











DRAWN BY Daniel McGinn		COURSE ME 93: Design for Emerging Markets SECTION 0	Ref Designation C1
School of Engineering A	HEET 1 OF 1	Aluminum Flange Mount	DATE 4/3/18
UNIVERSITY Engineering	APPROVED N. Wright	ModRooster: Automated Fatigue Testing Machir	scale 1:1

