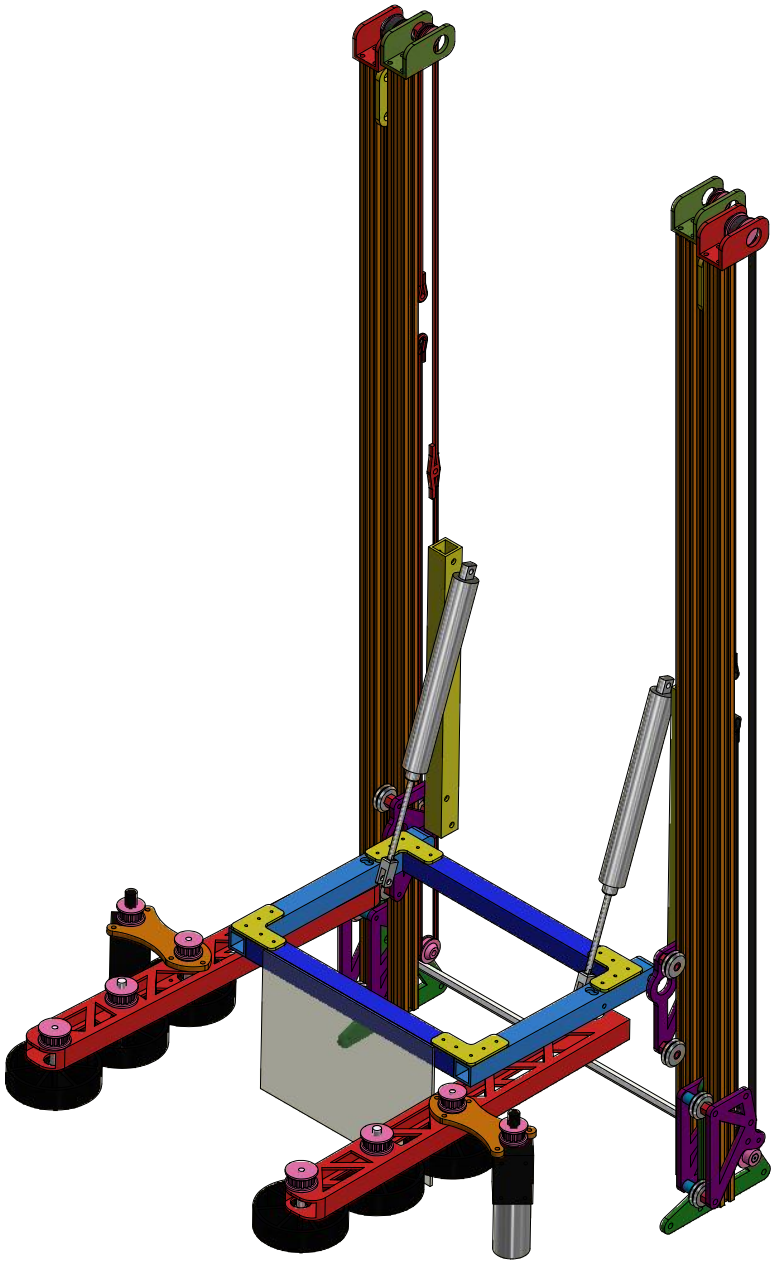
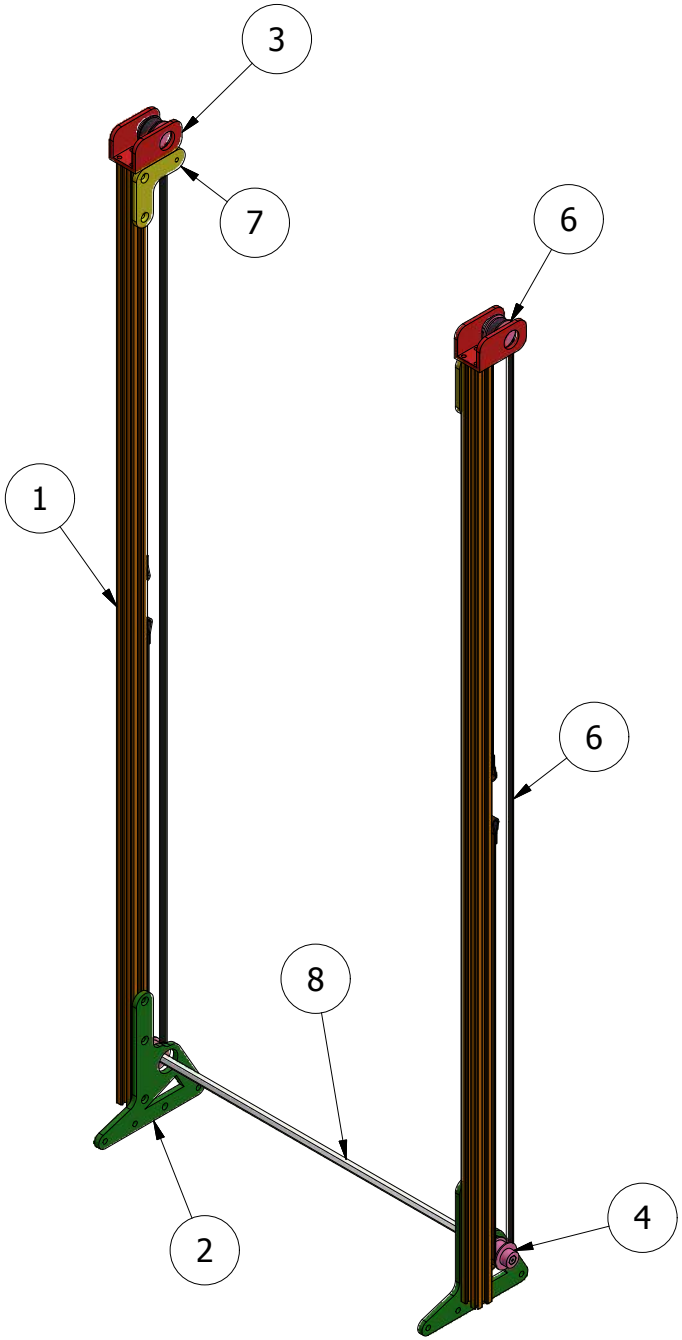


Elevator and Intake

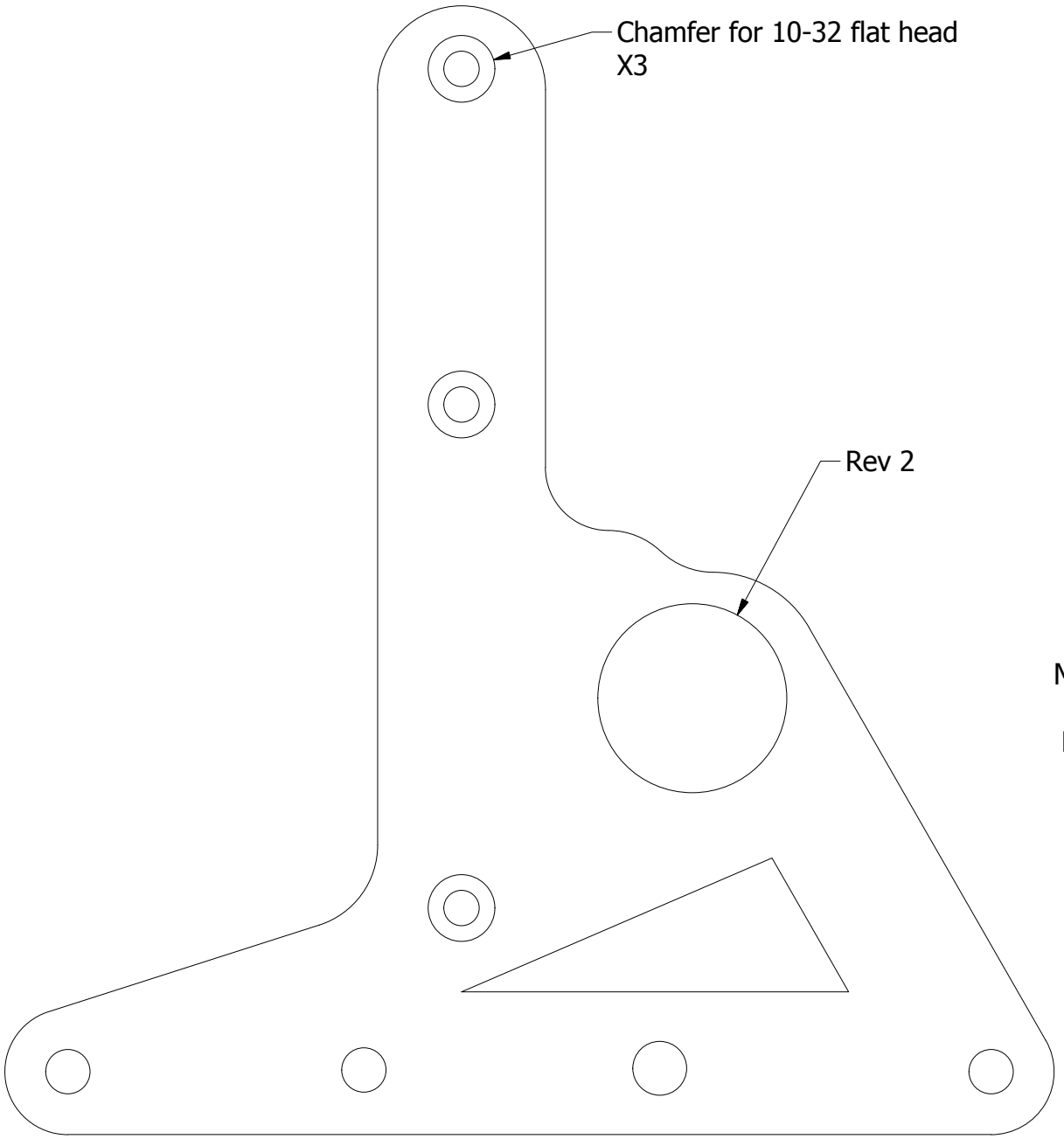
Rev 4: Updated Intake Assembly



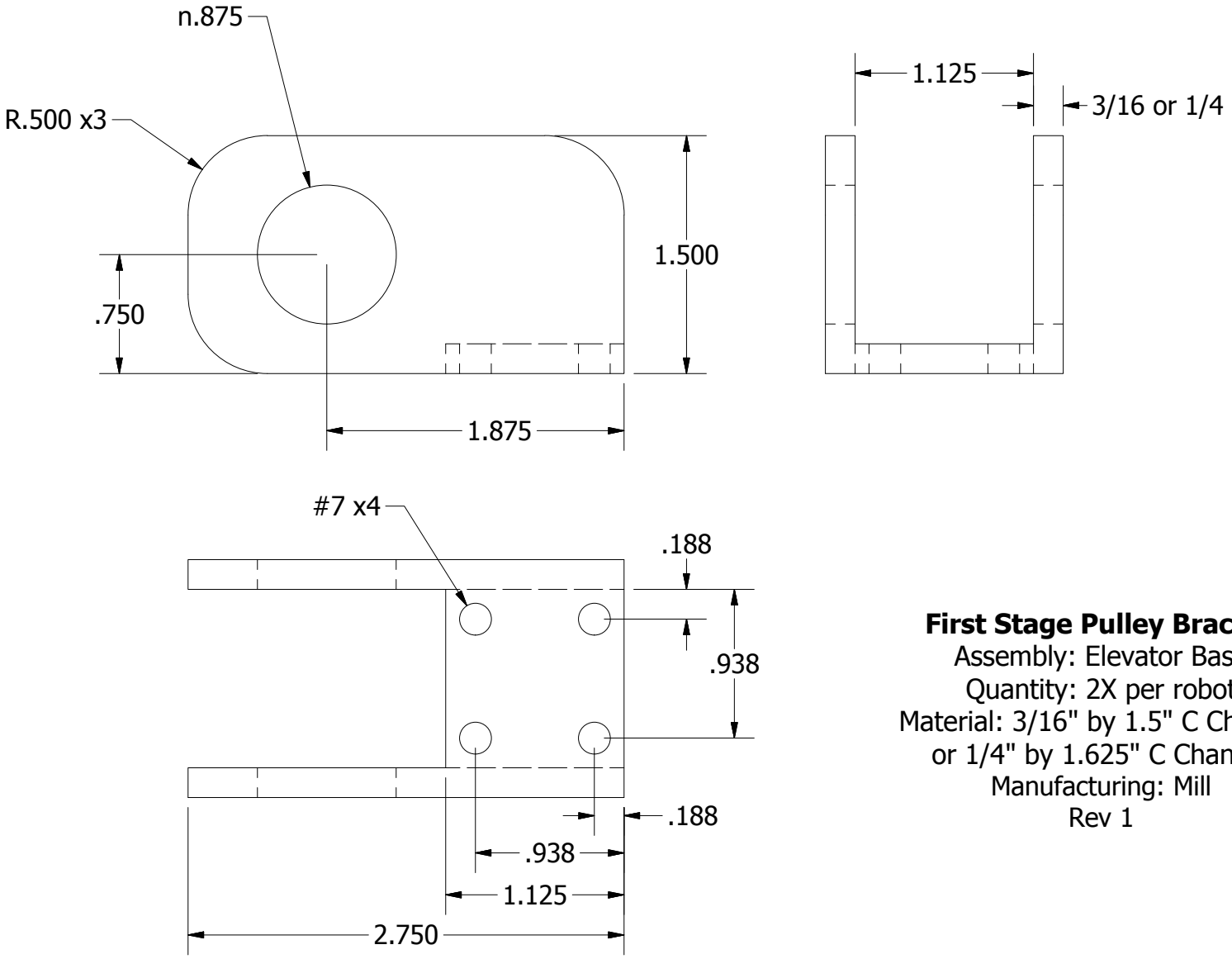
Elevator Base

Rev 2: Updated support plate

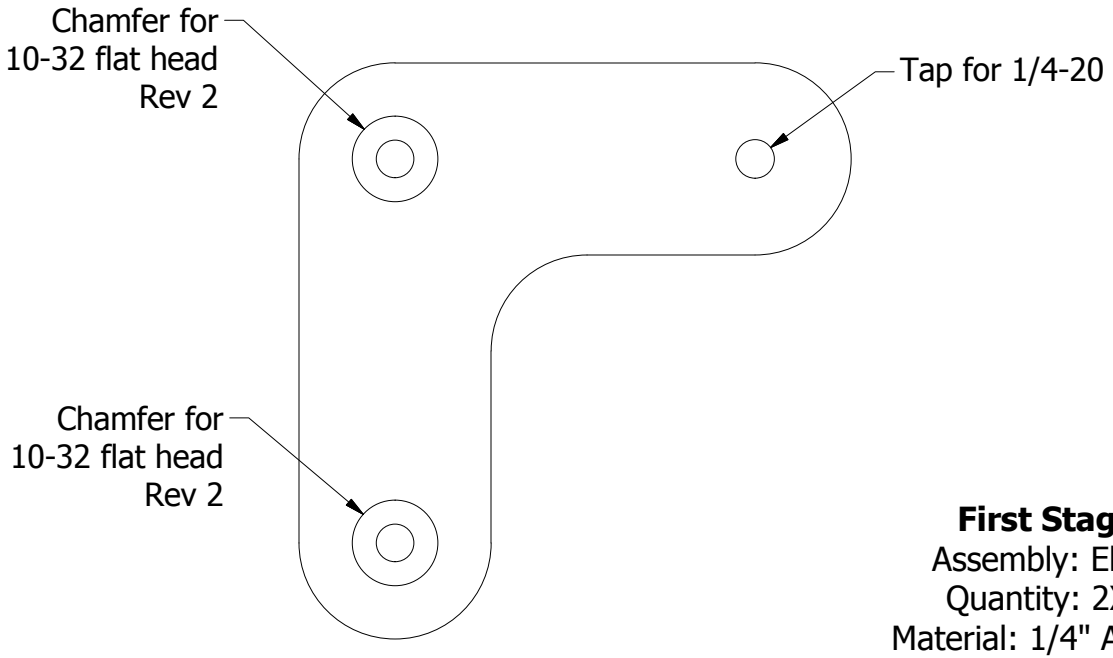
PARTS LIST				
ITEM	QTY	PART NUMBER	MASS	MATERIAL
1	2	Rail	1.909 lbmass	Aluminum
2	2	Support Plate	0.131 lbmass	Aluminum
3	2	First Stage Pulley Bracket	0.144 lbmass	Aluminum
4	2	15T XL Pulley	0.059 lbmass	Aluminum
5	2	1.125" Printed Pulley	0.025 lbmass	Printed ABS
6	2	First Stage Belt	0.077 lbmass	Purchased
7	2	First Stage Anchor	0.110 lbmass	Aluminum
8	1	Driveshaft	0.703 lbmass	Steel



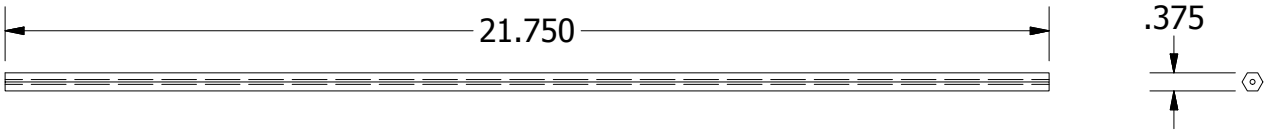
Support Plate
Assembly: Elevator Base
Quantity: 2X per robot
Material: 1/4" Aluminum Plate
Manufacturing: CNC
Rev 2: Updated hole diameter



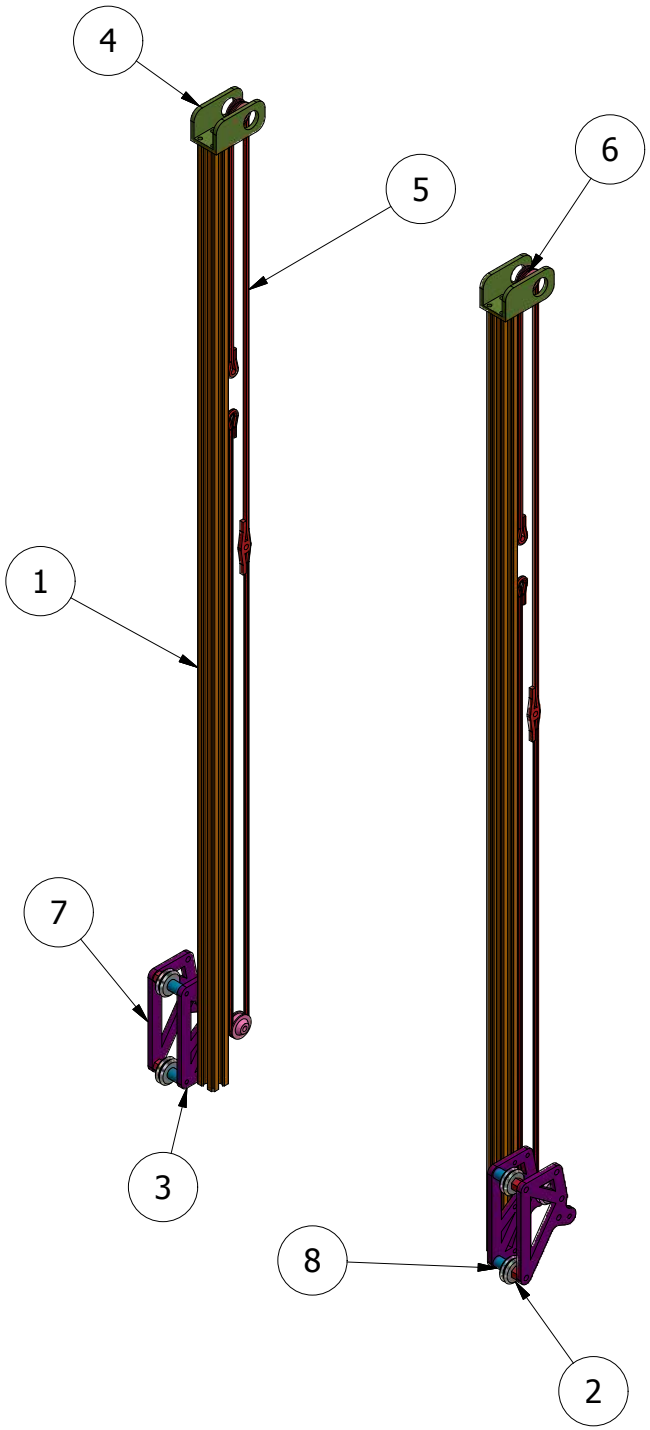
First Stage Pulley Bracket
Assembly: Elevator Base
Quantity: 2X per robot
Material: 3/16" by 1.5" C Channel
or 1/4" by 1.625" C Channel
Manufacturing: Mill
Rev 1



First Stage Anchor
Assembly: Elevator Base
Quantity: 2X per robot
Material: 1/4" Aluminum Plate
Manufacturing: CNC
Rev 2: Updated labels



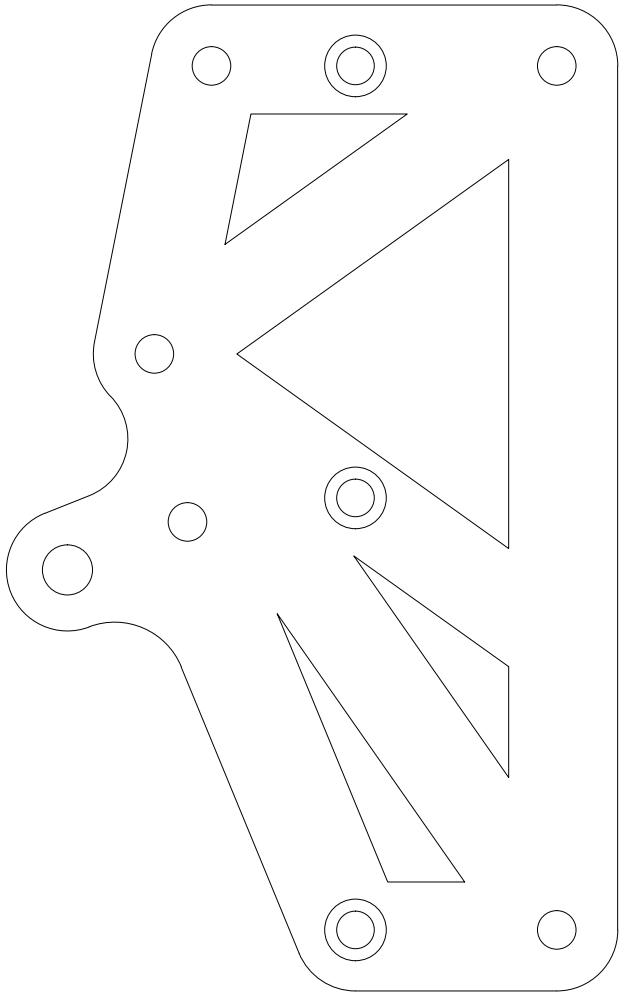
Driveshaft
Assembly: Elevator Base
Quantity: 2X per robot
Material: 3/8" Steel Hex Shaft
Manufacturing: Cut from stock
Rev 1



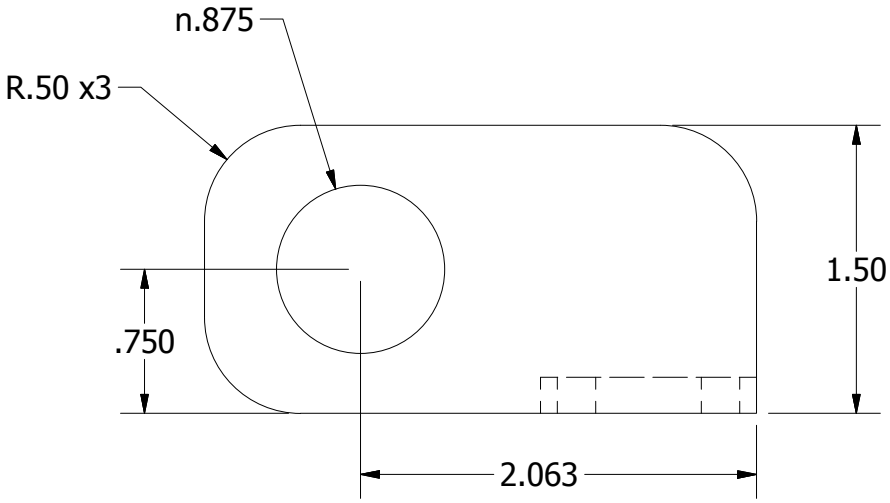
First Stage

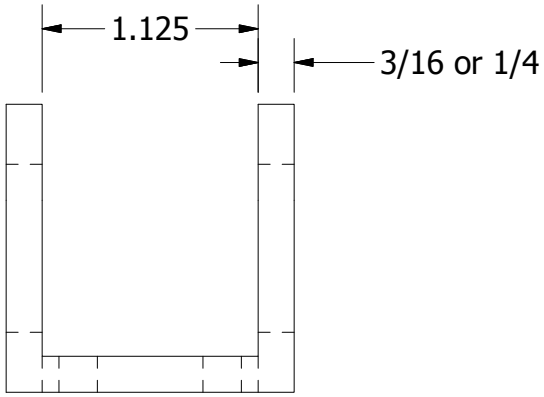
Rev 1

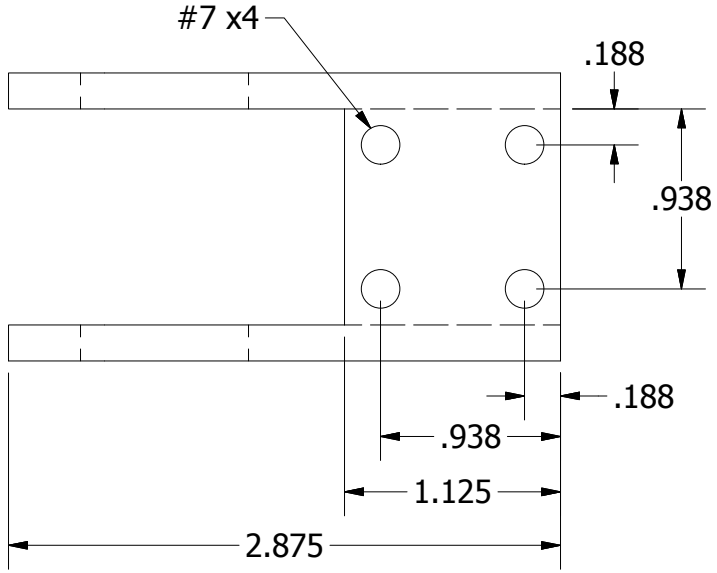
PARTS LIST				
ITEM	QTY	PART NUMBER	MASS	MATERIAL
1	2	Rail	1.909 lbmass	Aluminum
2	6	Roller and Bushing	0.111 lbmass	Purchased
3	2	Middle Plate	0.089 lbmass	Aluminum
4	2	Second Stage Pulley Bracket	0.151 lbmass	Aluminum
5	2	Second Stage Belt	0.133 lbmass	Paracord
6	4	Line Pulley	0.010 lbmass	Printed ABS
7	2	Outside Plate	0.192 lbmass	Aluminum
8	6	First Stage Roller Spacer	0.009 lbmass	Aluminum



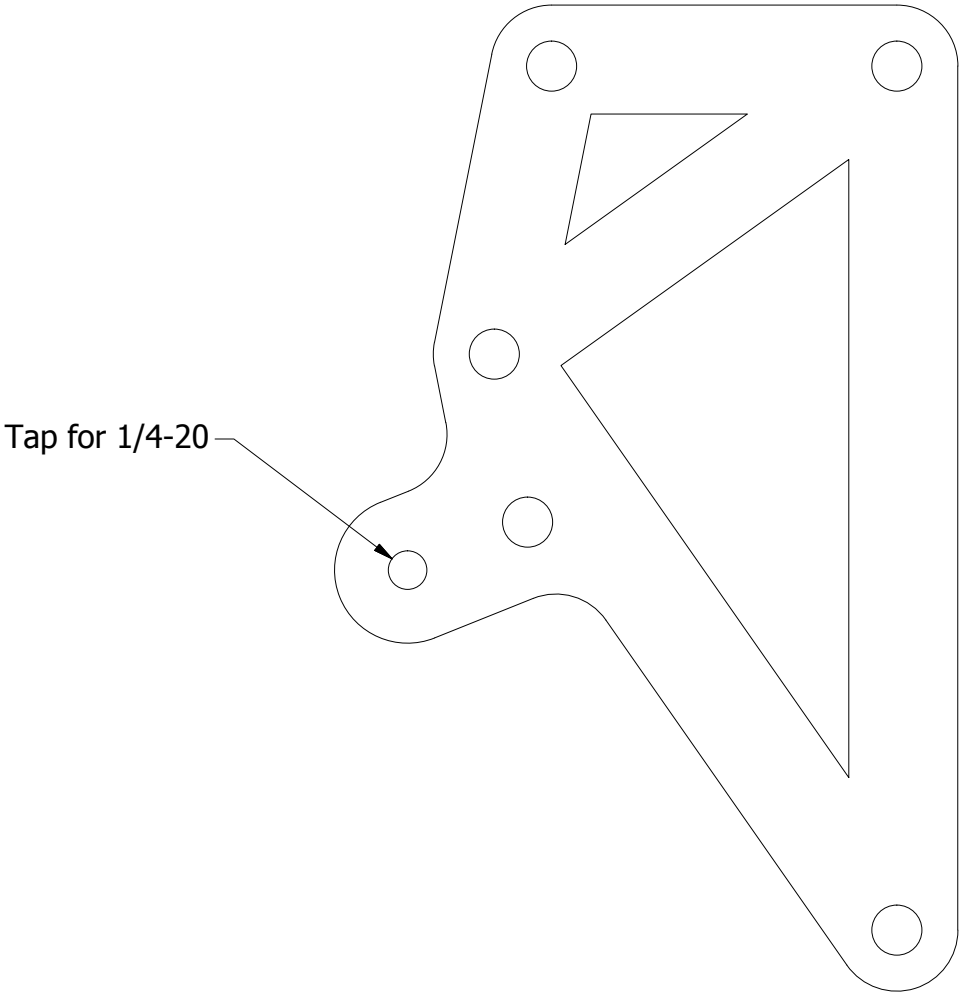
Middle Plate
Assembly: First Stage
Quantity: 2X per robot
Material: 1/4" Aluminum Plate
Manufacturing: CNC
Rev 1



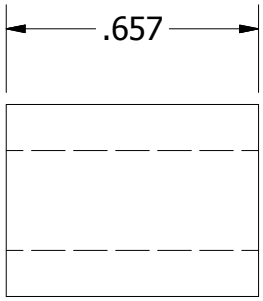


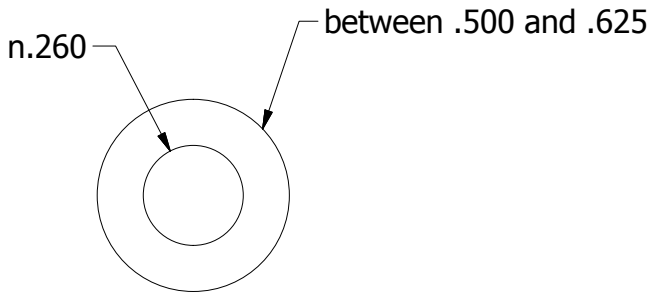


Second Stage Pulley Bracket
Assembly: First Stage
Quantity: 2X per robot
Material: 3/16" by 1.5" C Channel
or 1/4" by 1.625" C Channel
Manufacturing: Mill
Rev 1



Outside Plate
Assembly: First Stage
Quantity: 2X per robot
Material: 1/4" Aluminum Plate
Manufacturing: CNC
Rev 1

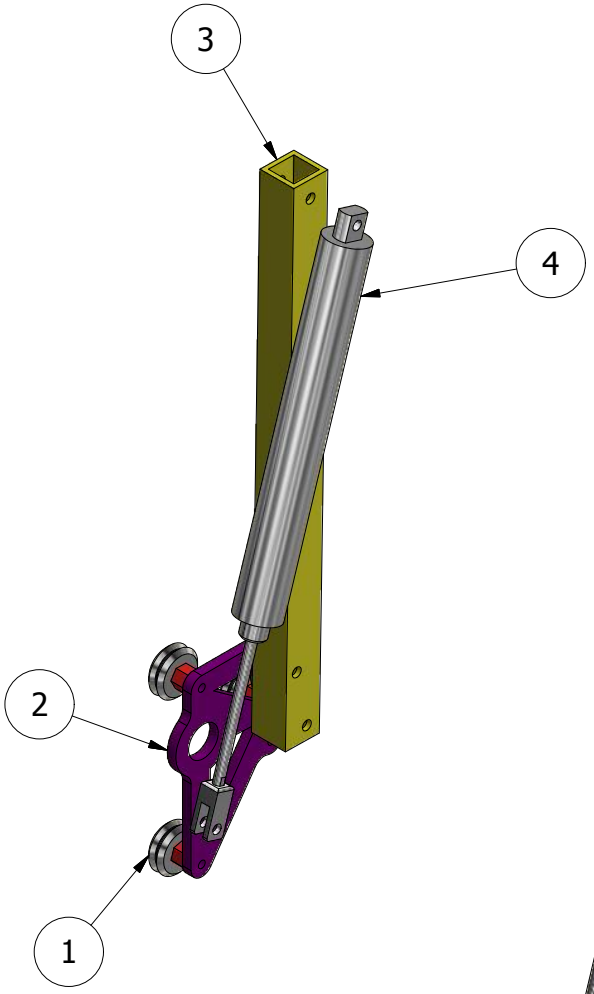


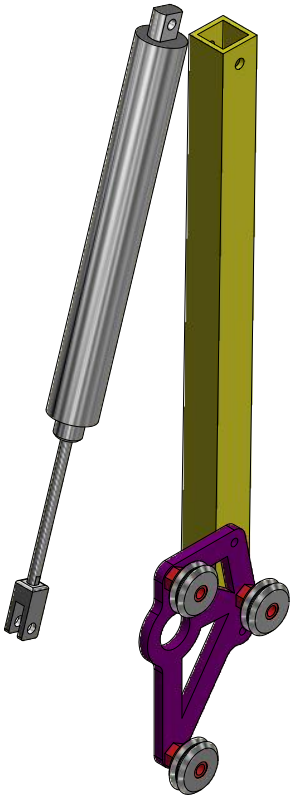


First Stage Spacer
Assembly: First Stage
Quantity: 6X per robot
Material: Aluminum Anything
Manufacturing: lathe
Rev 1

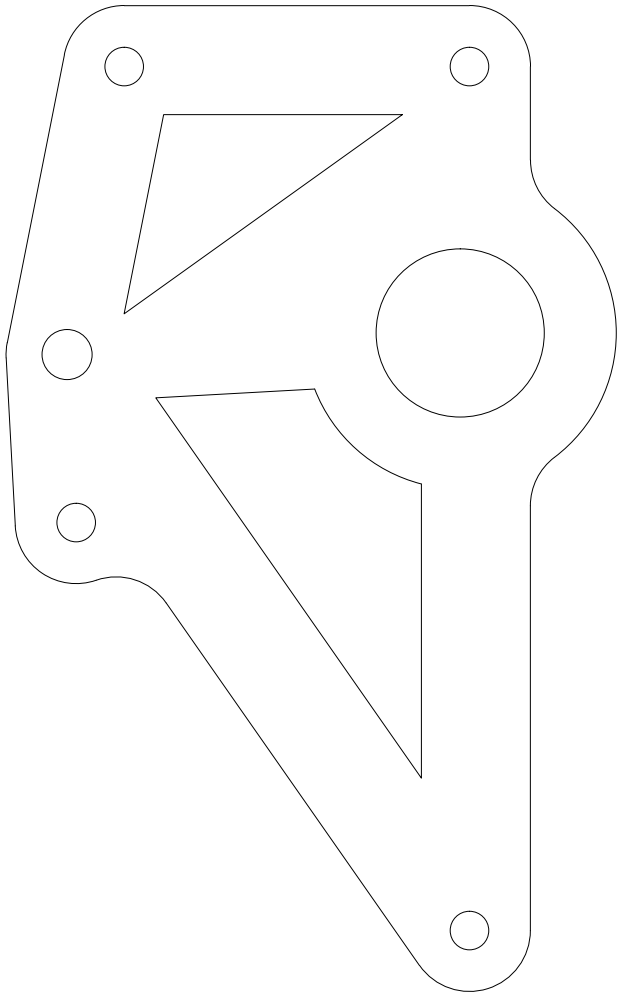
Second Stage

Rev 2: Updated cylinder arm drawing

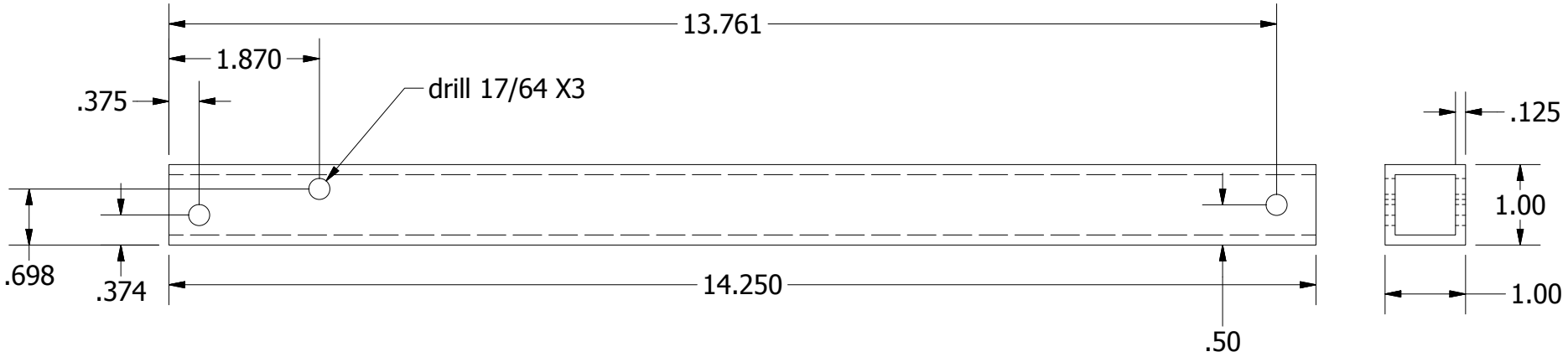




PARTS LIST				
ITEM	QTY	PART NUMBER	MASS	MATERIAL
1	6	Roller and Bushing	0.111 lbmass	Purchased
2	2	Inside Plate	0.074 lbmass	Aluminum
3	2	Cylinder Arm	0.604 lbmass	Aluminum
4	2	Cylinder	0.323 lbmass	Purchased



Inside Plate
Assembly: Second Stage
Quantity: 2X per robot
Material: 1/4" Aluminum Plate
Manufacturing: CNC
Rev 1

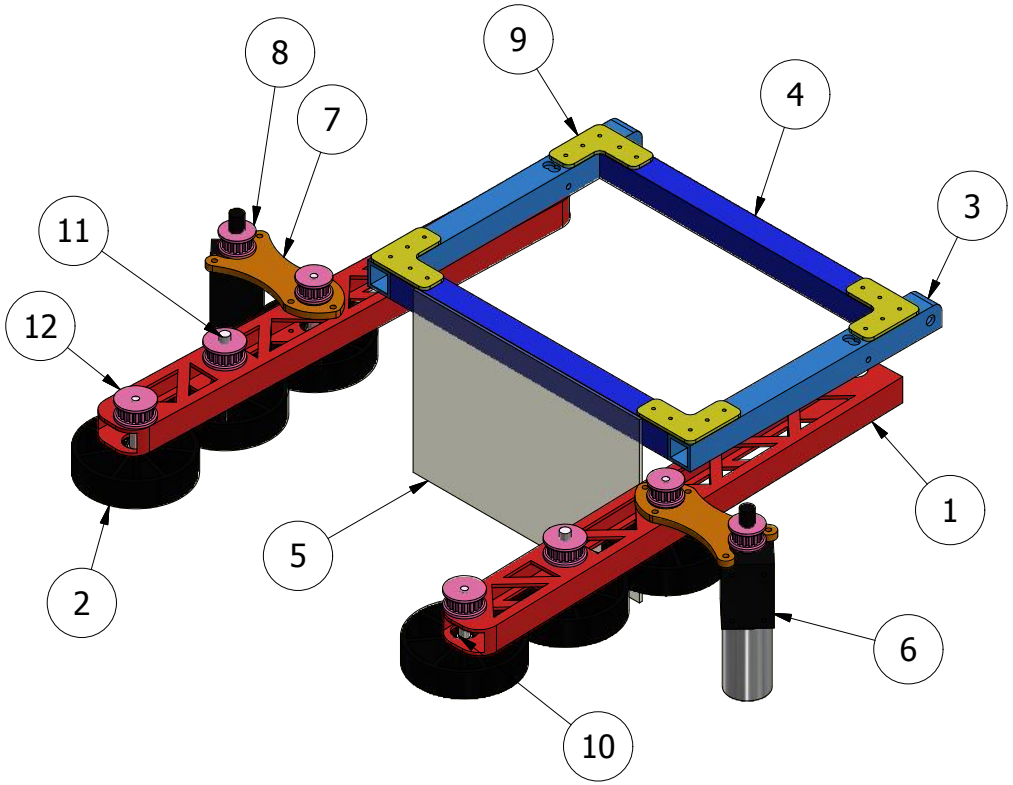


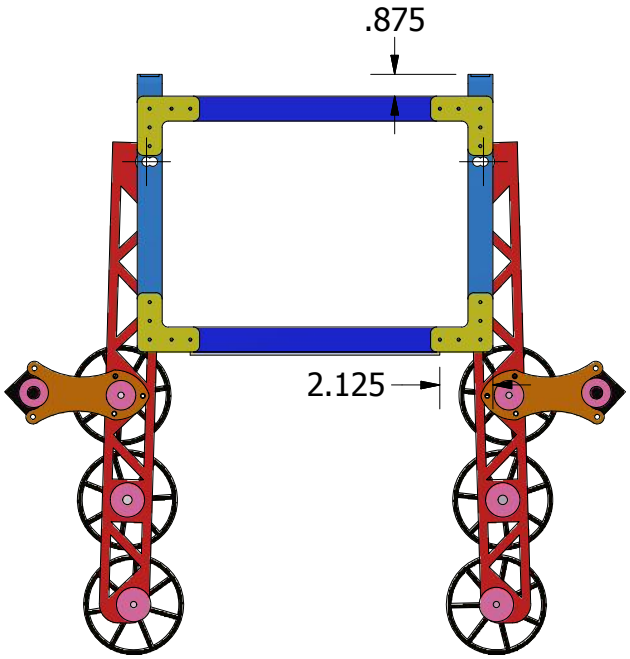
Cylinder Arm
Assembly: Second Stage
Quantity: 2X per robot
Material: 1" Aluminum Box
Manufacturing: Mill
Rev 3: Changed hole definition measurements

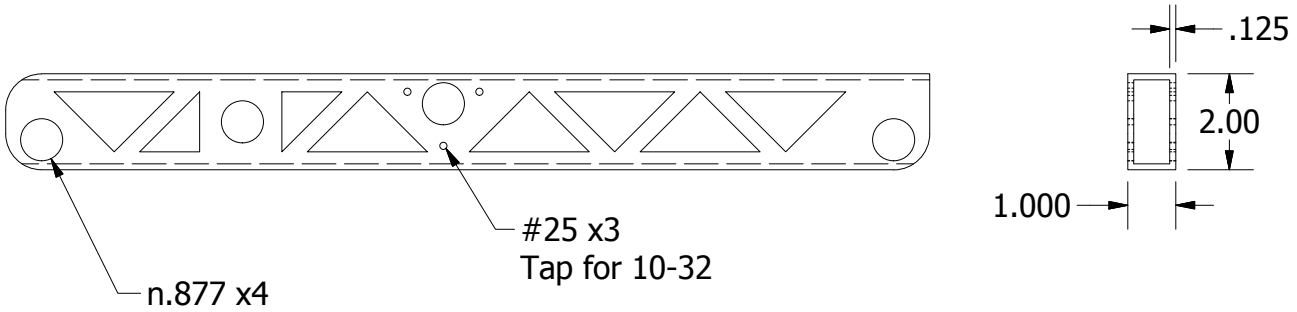
Cube Intake

Rev 3: Added dimensions for Cube Intake Assembly

PARTS LIST				
ITEM	QTY	PART NUMBER	MASS	MATERIAL
1	2	Intake Arm	0.942 lbmass	Aluminum
2	6	Compliant Wheels	0.150 lbmass	Purchased
3	2	Pivot Arm	0.464 lbmass	Aluminum
4	2	Cross Brace	0.280 lbmass	Aluminum
5	1	Rest Plate	0.379 lbmass	Polycarbonate
6	2	Bag Motor and Gearbox	0.436 lbmass	Purchased
7	2	Motor Mount	0.150 lbmass	Aluminum
8	4	15T XL Pulley	0.049 lbmass	Purchased or Printed
9	4	Rivet Plate	0.046 lbmass	Aluminum
10	2	Roller Shaft	0.039 lbmass	Aluminum
11	4	Roller Drive Shaft	0.056 lbmass	Aluminum
12	8	18T XL Pulley	0.028 lbmass	Printed ABS

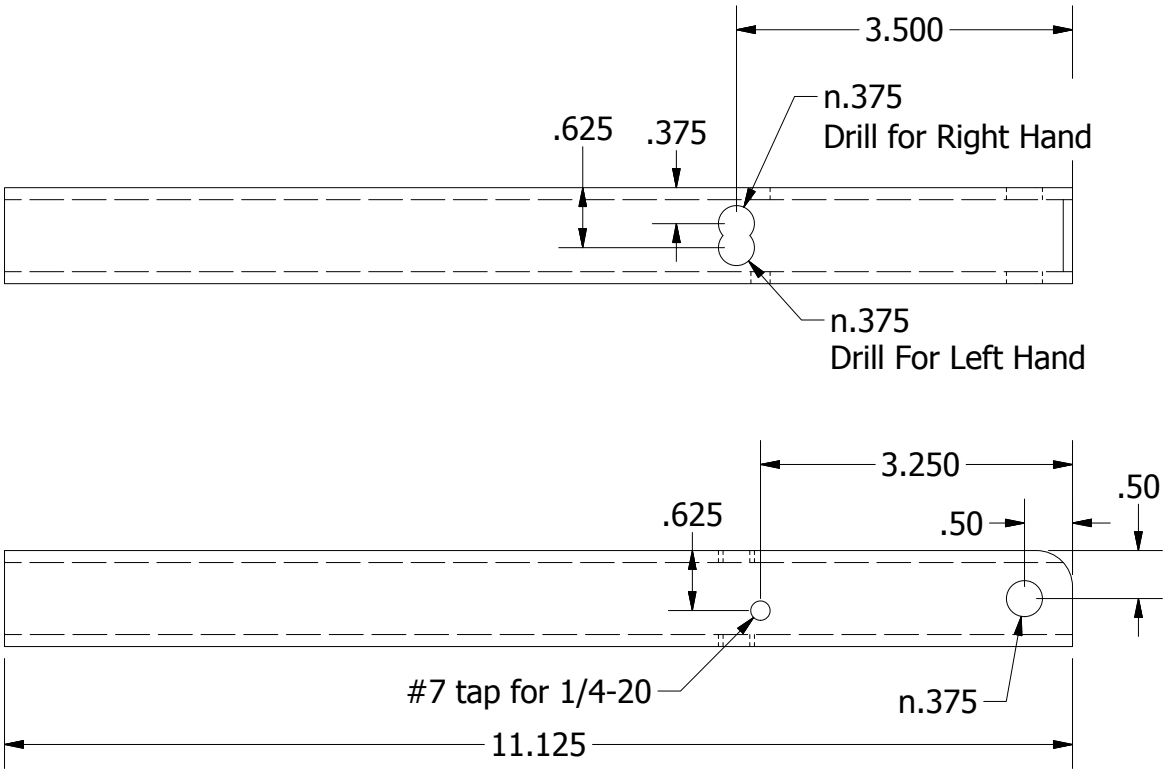






Intake Arm

Assembly: Cube Intake
Quantity: 2X per robot
Material: 2" x 1" Aluminum Box
Manufacturing: Mill
Rev 2: Updated hole diameters and dimensional callouts



Pivot Arm

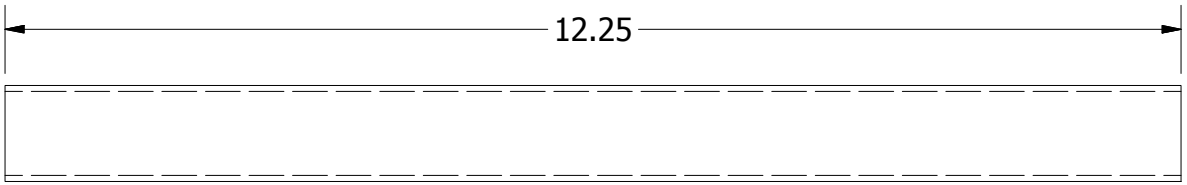
Assembly: Cube Intake

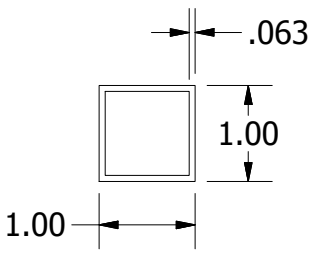
Quantity: One each RH, LH

Material: 1" Aluminum Box

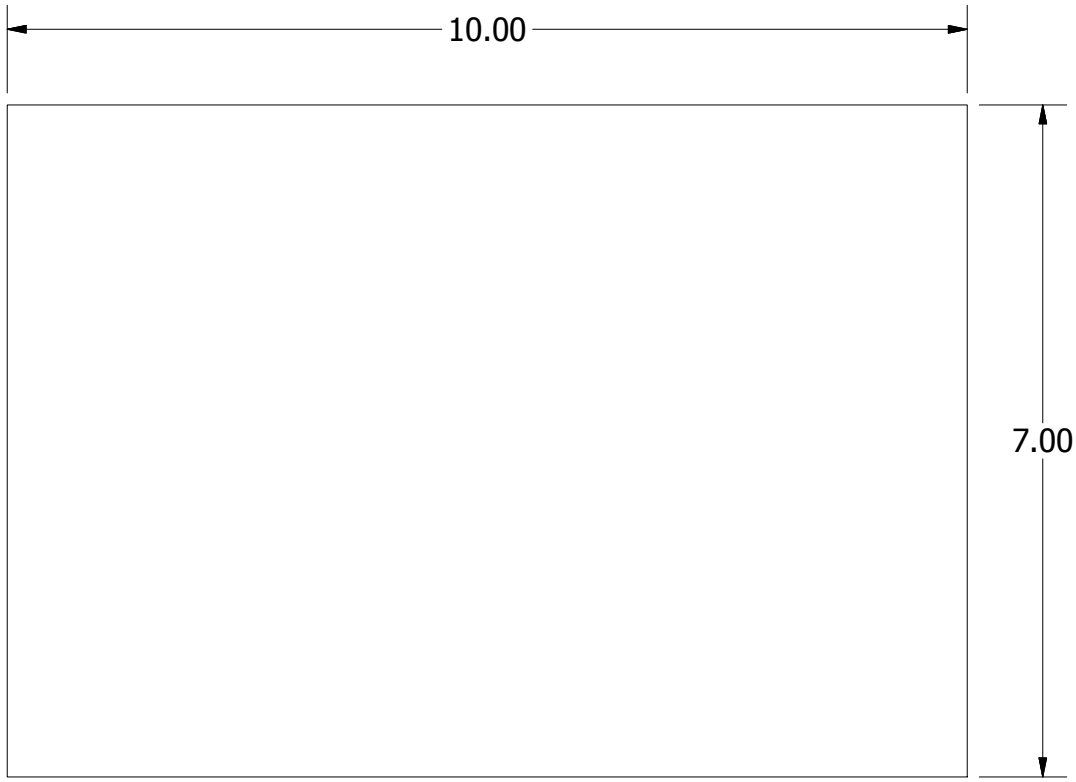
Manufacturing: Mill

Rev 2: Added missing hole dimensions

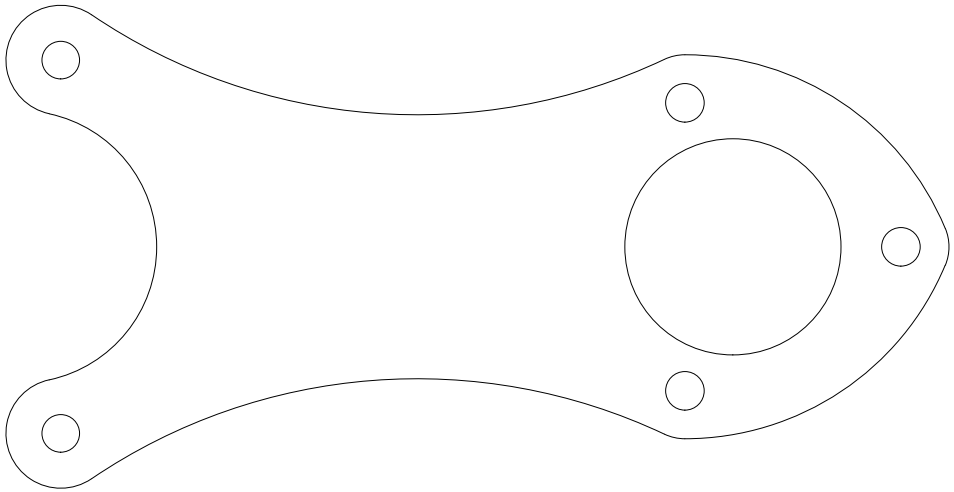




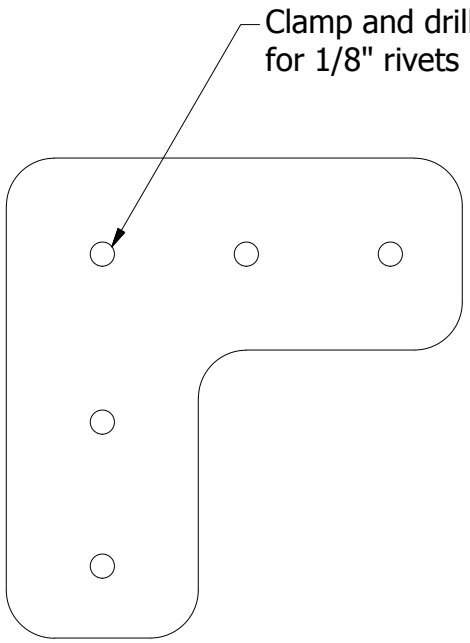
Cross Brace
Assembly: Cube Intake
Quantity: 2X per robot
Material: 1" Aluminum Box
Manufacturing: Mill
Rev 1



Rest Plate
Assembly: Cube Intake
Quantity: 1X per robot
Material: 1/8" Polycarbonate Plate
Manufacturing: CNC
Rev 1



Motor Mount
Assembly: Cube Intake
Quantity: 2X per robot
Material: 1/4" Aluminum Plate
Manufacturing: CNC
Rev 1



Rivet Plate
Assembly: Cube Intake
Quantity: 4X per robot
Material: 1/8" Aluminum Plate
Manufacturing: CNC
Rev 1

Roller Shaft

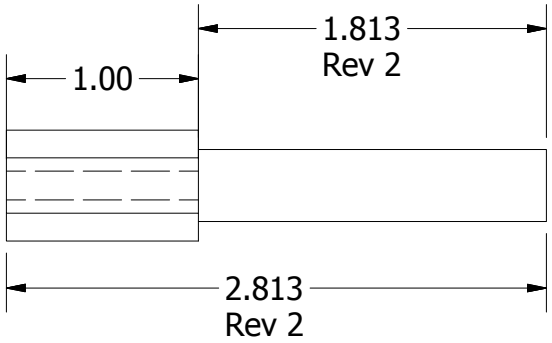
Assembly: Cube Intake

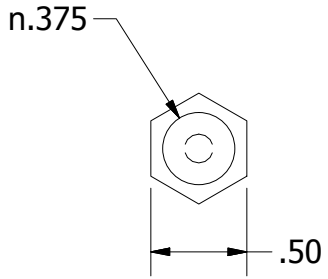
Quantity: 2X per robot

Material: 1/2" Aluminum Hex Shaft

Manufacturing: Lathe

Rev 2: Updated lengths, removed hole





Roller Drive Shaft

Assembly: Cube Intake

Quantity: 2X per robot

Material: 1/2" Aluminum Hex Shaft

Manufacturing: Lathe

Rev 2: Updated lengths, removed hole