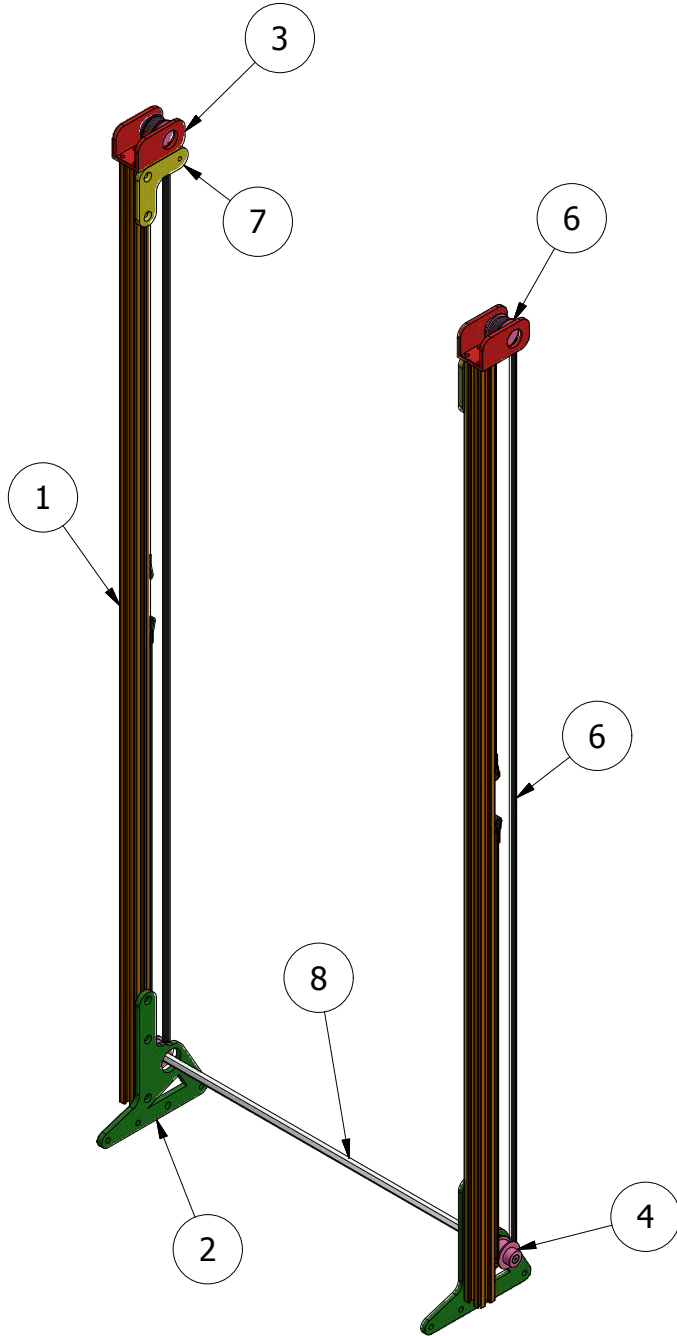


Elevator and Intake

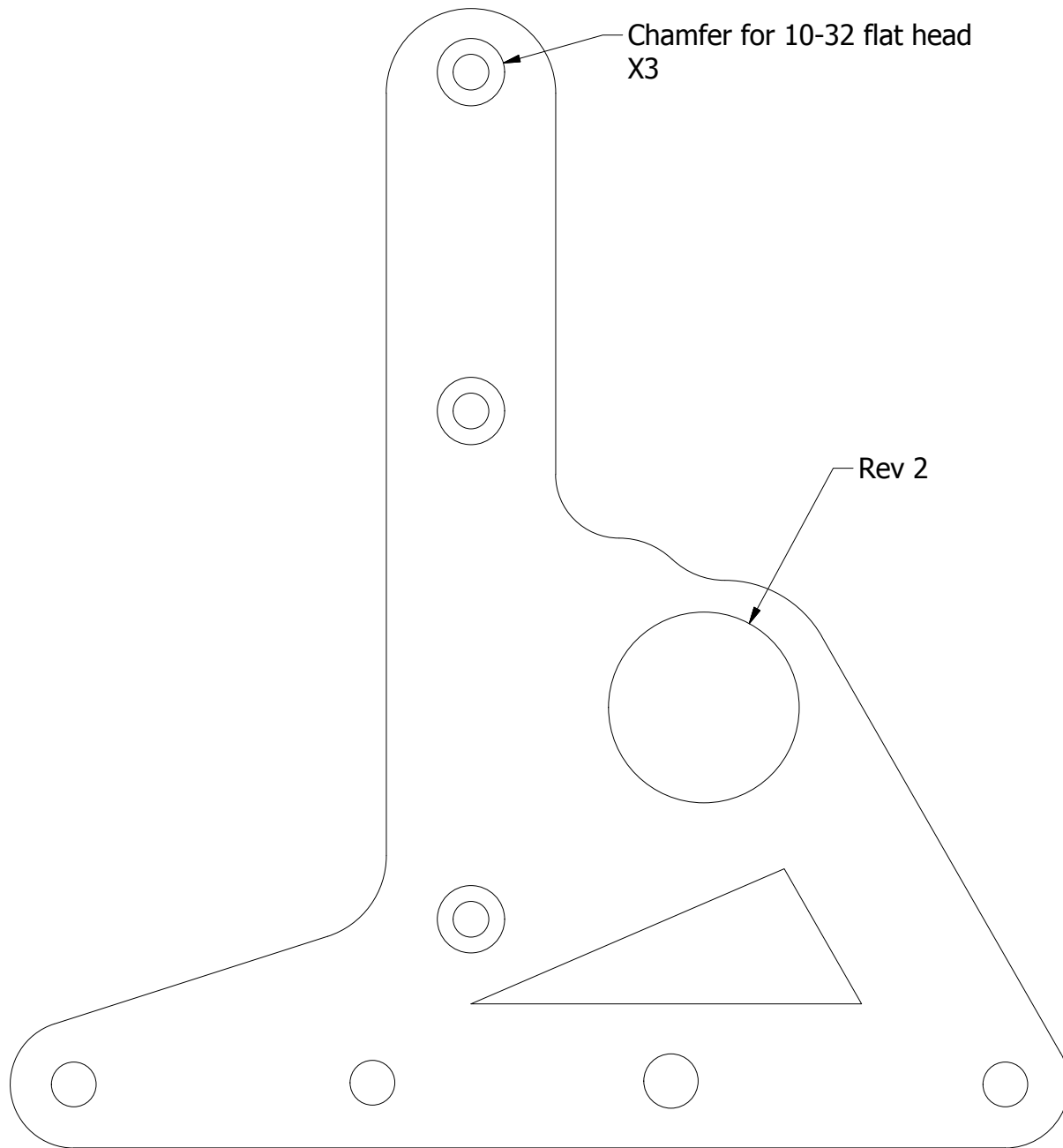
Rev 3: Updated Assemblies

Rev 2: Updated support plate



NUMBER

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



Chamfer for 10-32 flat head
X3

Rev 2

Support Plate

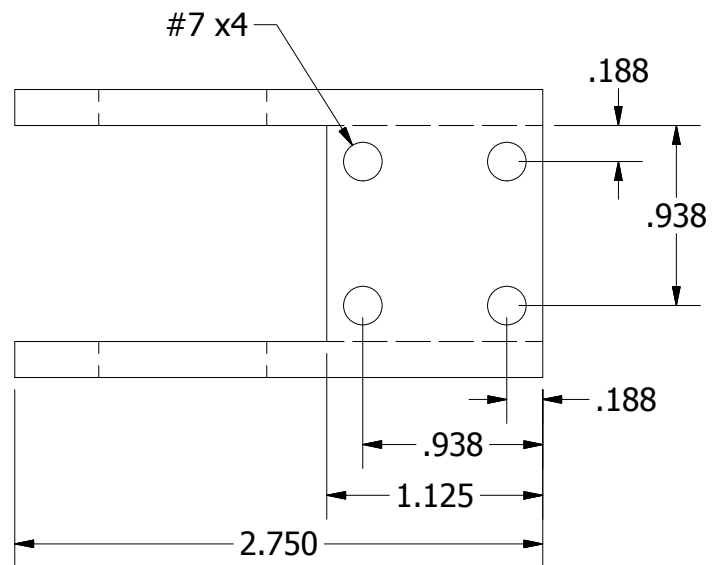
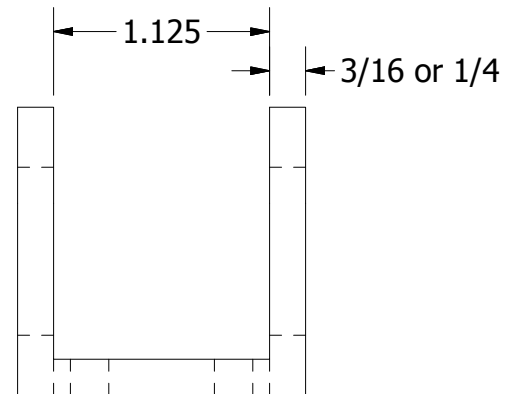
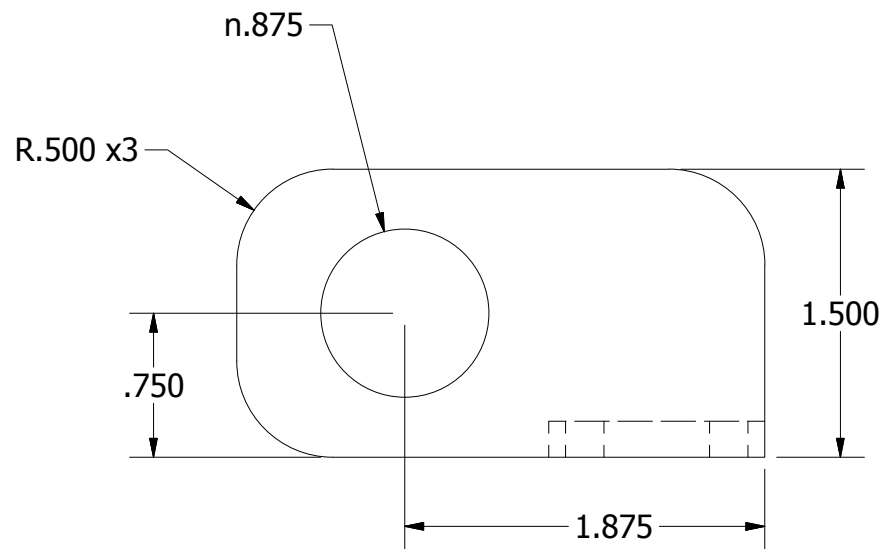
Assembly: Elevator Base

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

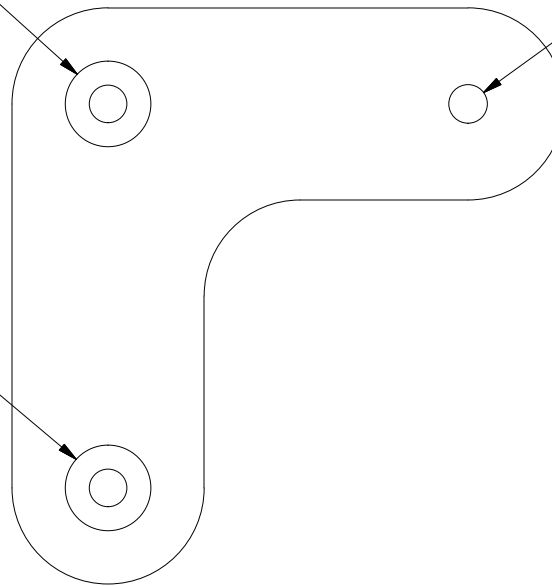
Manufacturing: Mill

Rev 1

Chamfer for
10-32 flat head
Rev 2

Chamfer for
10-32 flat head
Rev 2

Tap for 1/4-20



First Stage Anchor

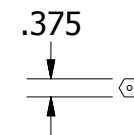
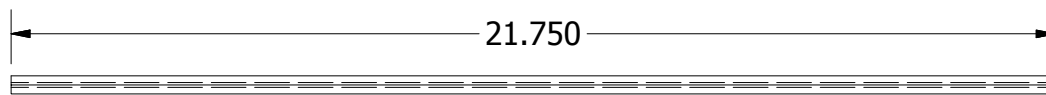
Assembly: Elevator Base

Quantity: 2X per robot

Material: 1/4" Aluminum Plate

Manufacturing: CNC

Rev 2: Updated labels



Driveshaft

Assembly: Elevator Base

Quantity: 2X per robot

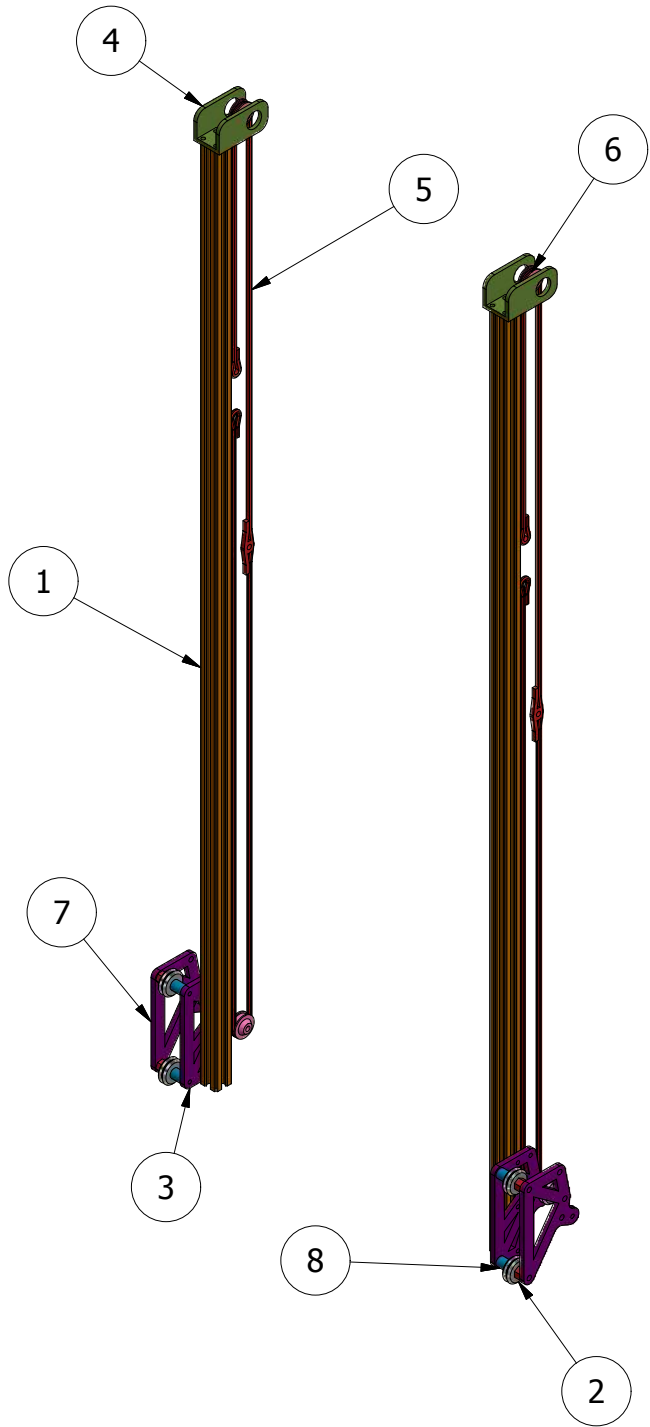
Material: 3/8" Steel Hex Shaft

Manufacturing: Cut from stock

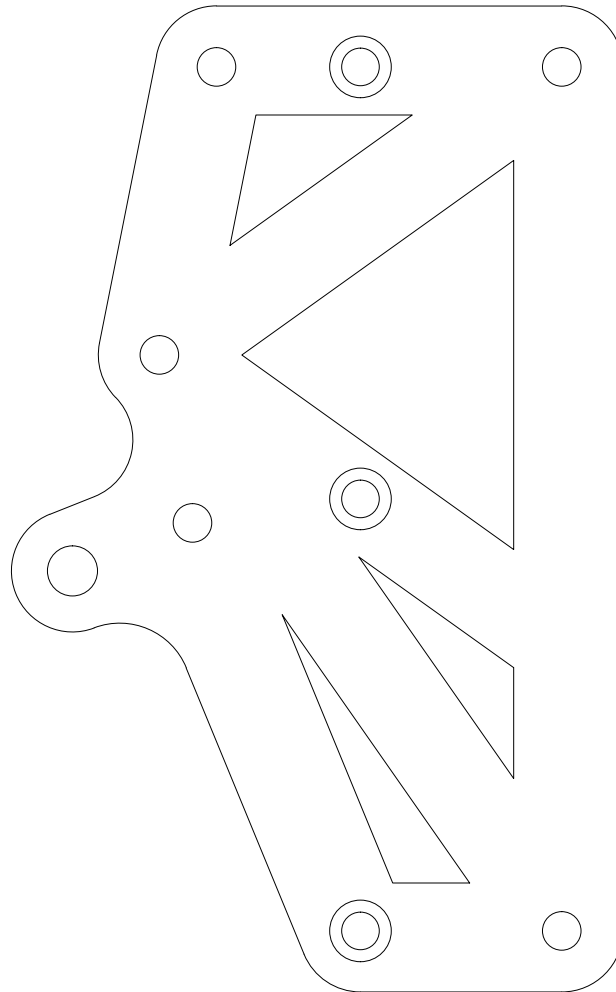
Rev 1

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

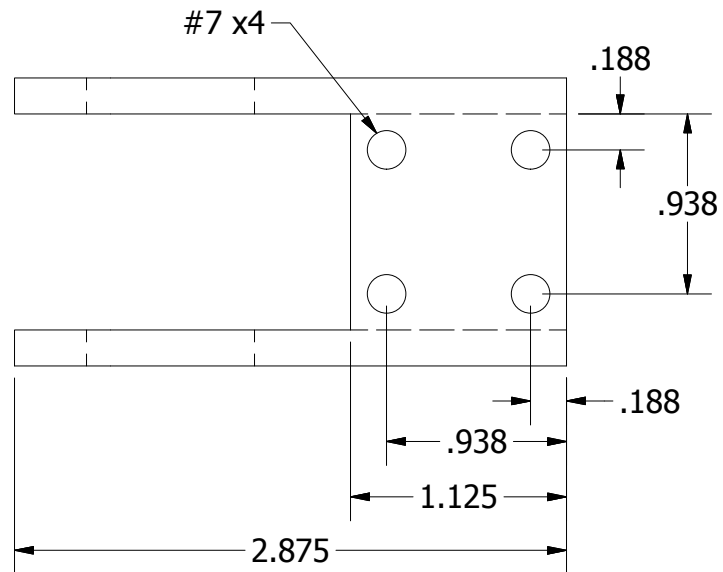
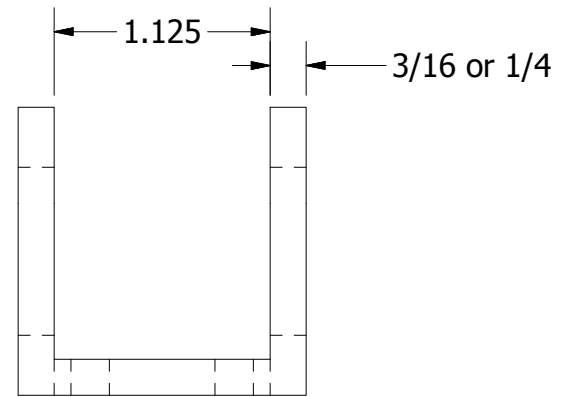
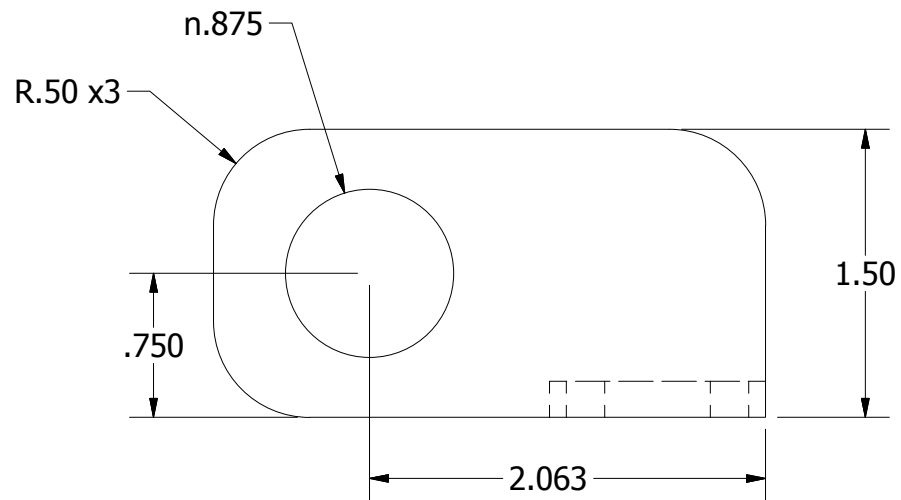
Assembly: First Stage

Quantity: 2X per robot

Material: 1/4" Aluminum Plate

Manufacturing: CNC

Rev 1



Second Stage Pulley Bracket

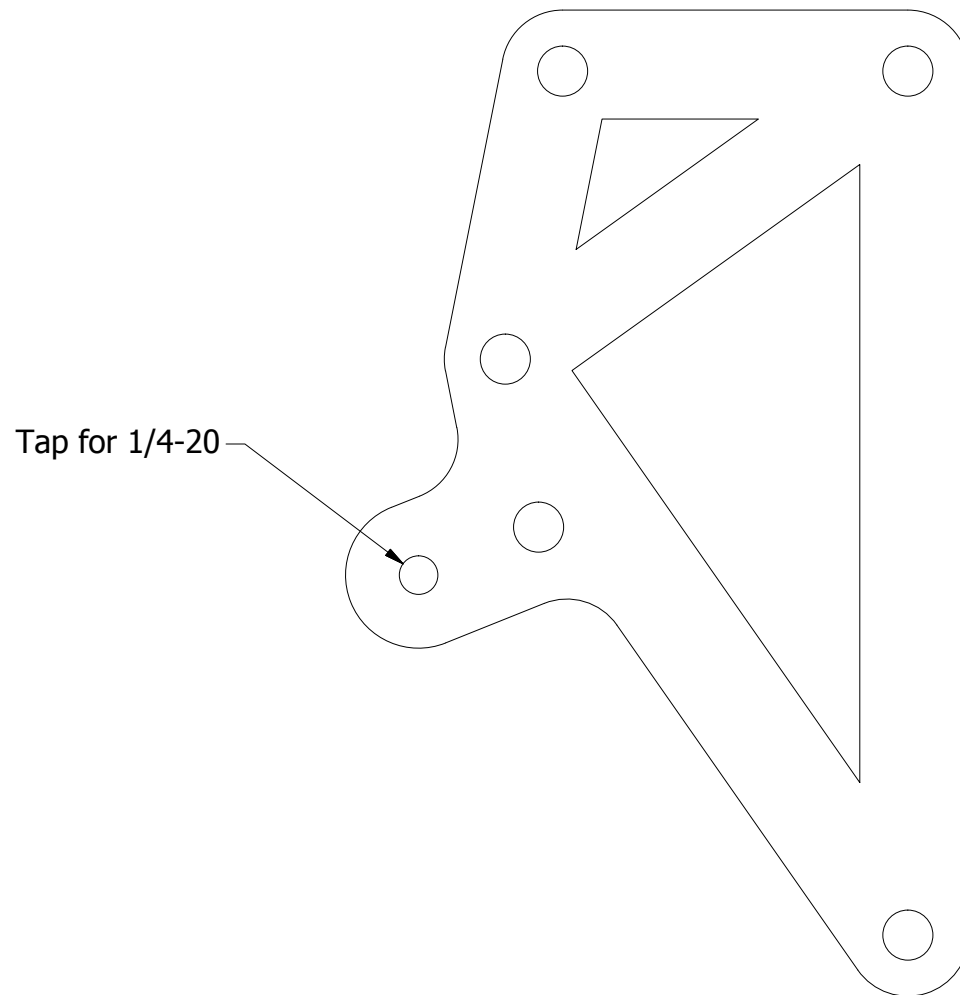
Assembly: First Stage

Quantity: 2X per robot

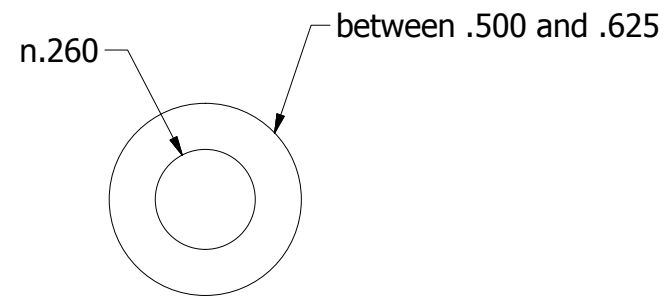
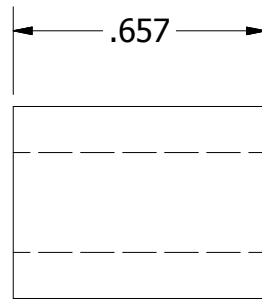
Material: 3/16" by 1.5" C Channel
or 1/4" by 1.625" C Channel

Manufacturing: Mill

Rev 1



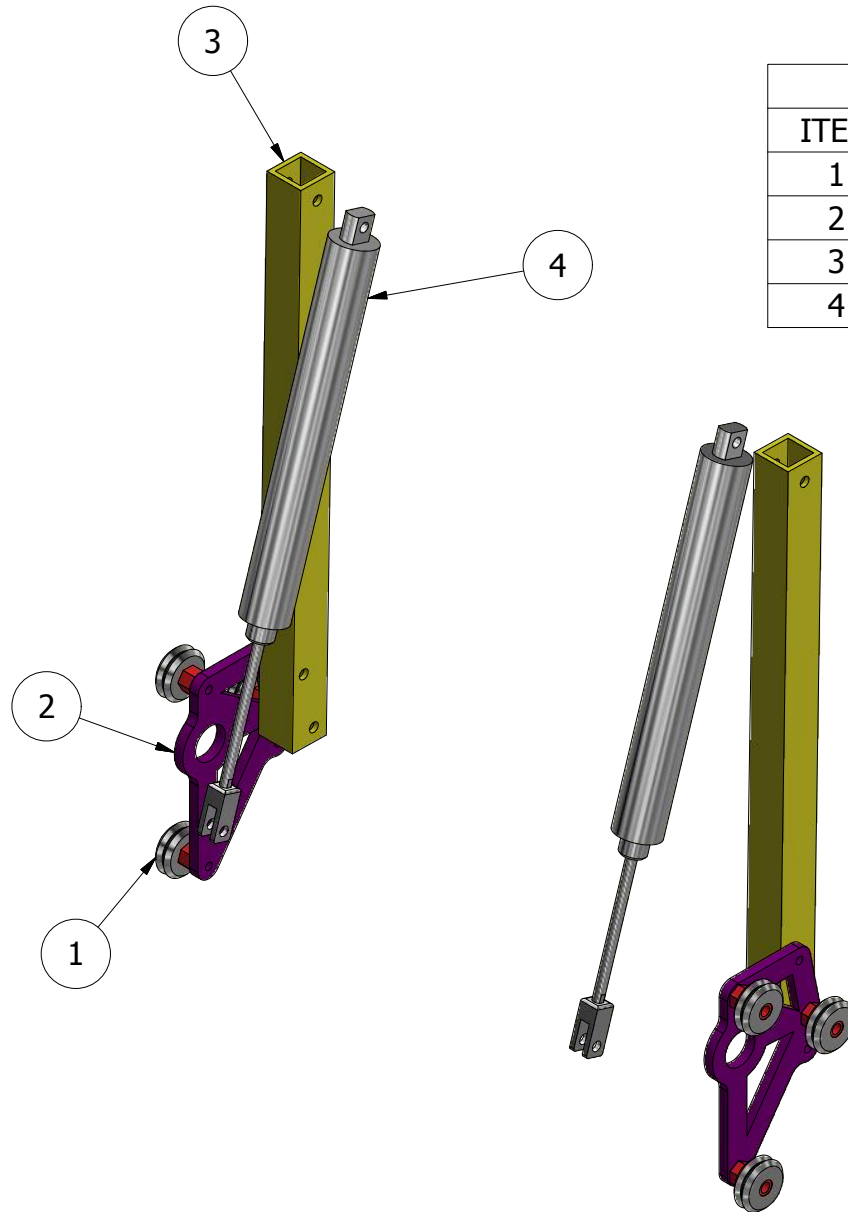
Outside Plate
Assembly: First Stage
Quantity: 2X per robot
Material: 1/4" Aluminum Plate
Manufacturing: CNC
Rev 1



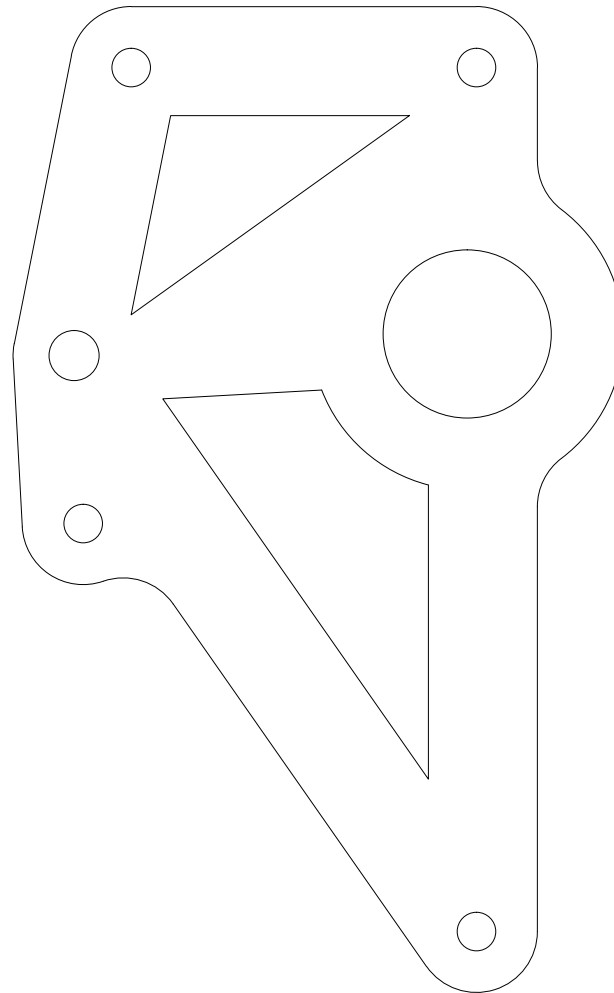
First Stage Spacer
Assembly: First Stage
Quantity: 6X per robot
Material: Aluminum Anything
Manufacturing: lathe
Rev 1

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

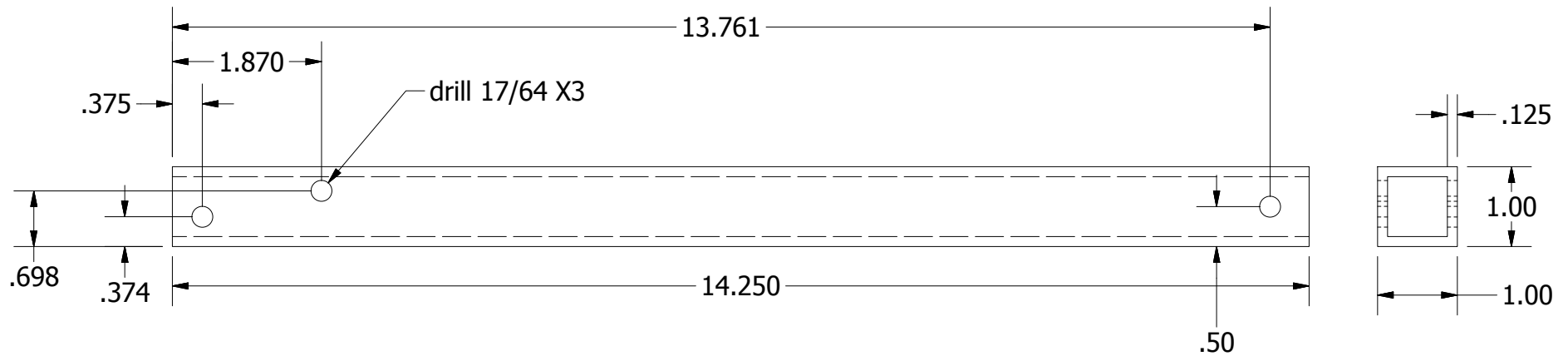
Assembly: Second Stage

Quantity: 2X per robot

Material: 1/4" Aluminum Plate

Manufacturing: CNC

Rev 1



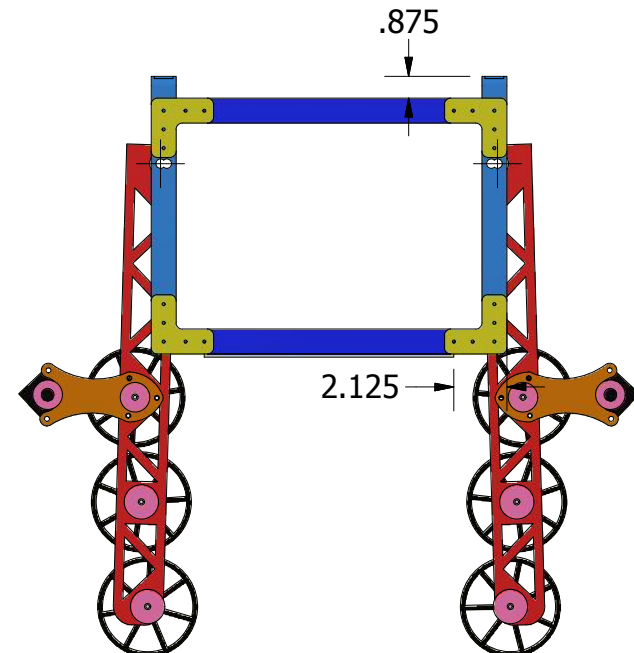
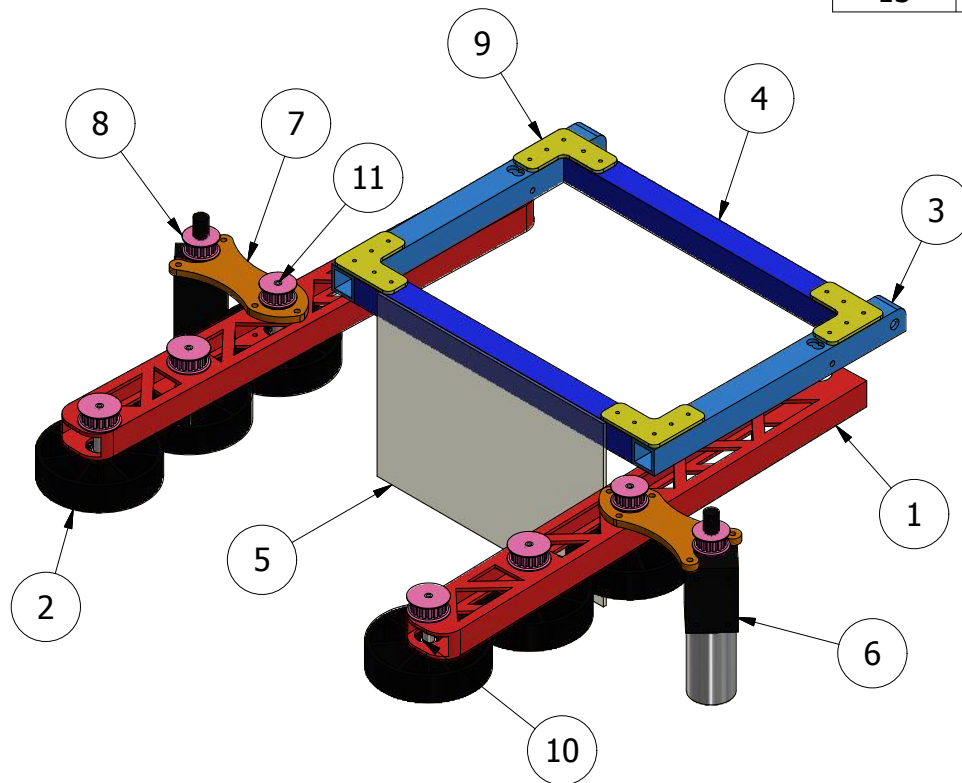
Cylinder Arm

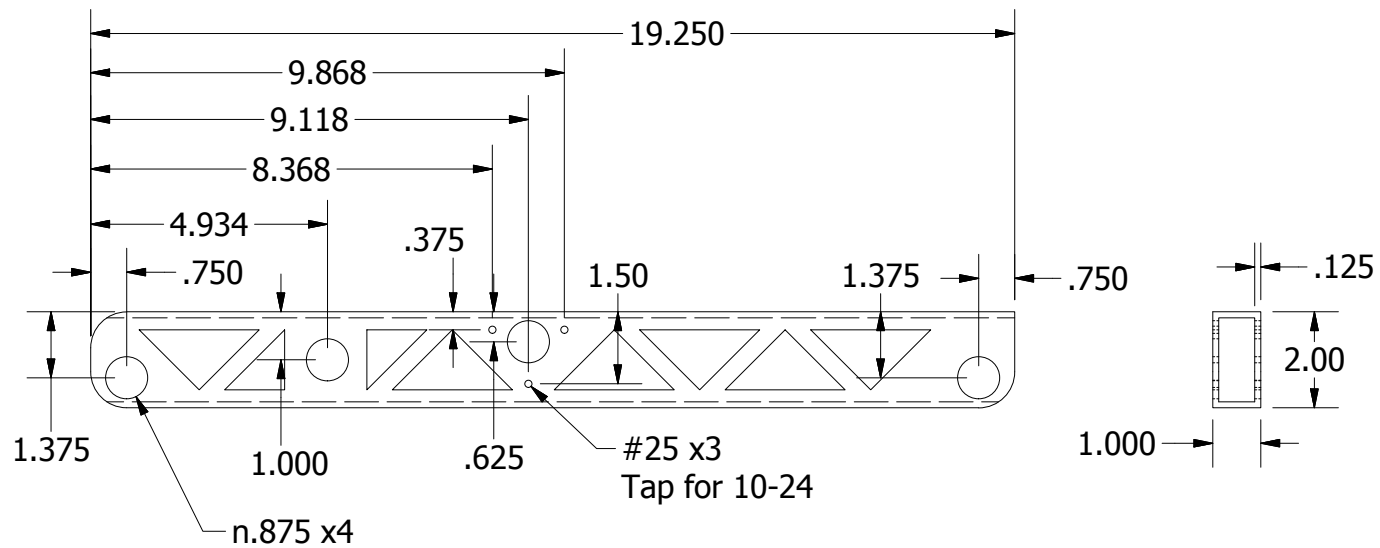
Assembly: Second Stage
 Quantity: 2X per robot
 Material: 1" Aluminum Box
 Manufacturing: Mill
 Rev 3: Changed hole definition
 measurements

Cube Intake

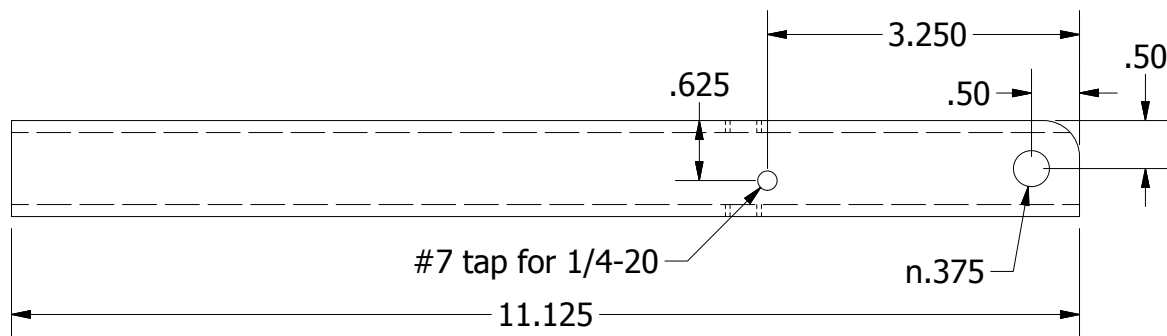
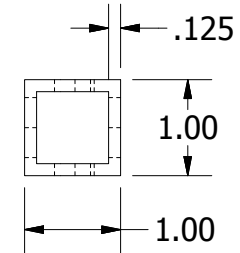
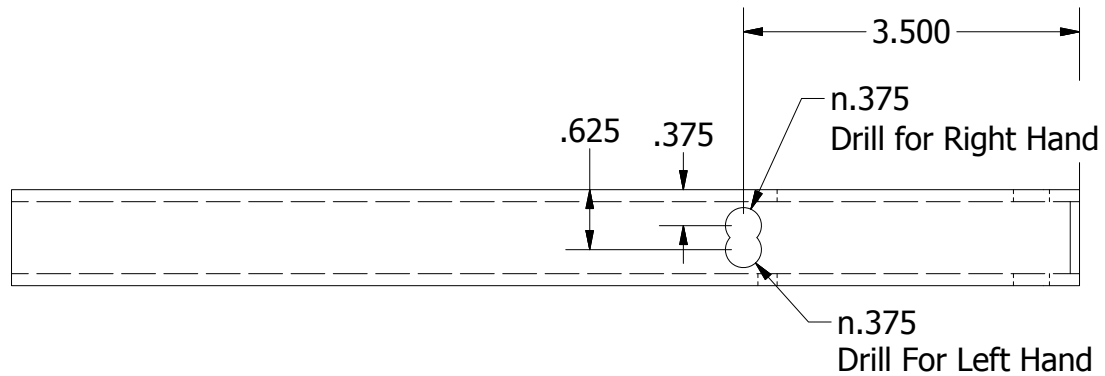
Rev 3: Added dimensions for Cube Intake Assembly

PARTS LIST				
ITEM	QTY	PART NUMBER	MASS	MATERIAL
1	2	Intake Arm	0.943 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	0.043 lbmass	Purchased or Printed
9	4	Rivet Plate	0.046 lbmass	Aluminum
10	2	Roller Shaft	0.036 lbmass	Aluminum
11	2	Roller Drive Shaft	0.050 lbmass	Aluminum
12	8	18T XL Pulley	0.021 lbmass	Printed ABS
13	2	Roller Middle Shaft	0.048 lbmass	Aluminum

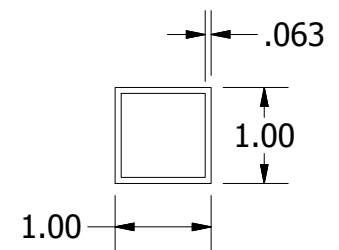
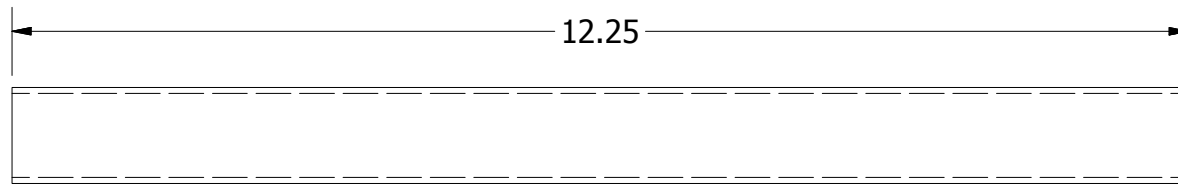




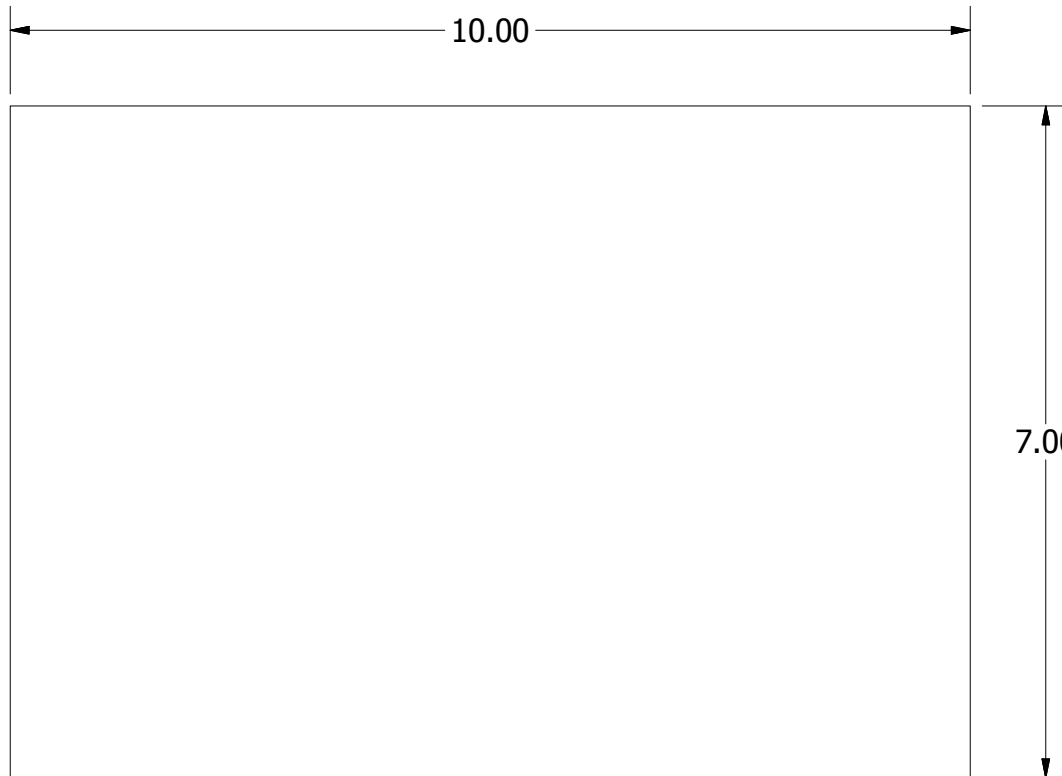
Intake Arm
 Assembly: Cube Intake
 Quantity: 2X per robot
 Material: 2" x 1" Aluminum Box
 Manufacturing: Mill
 Rev 1



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

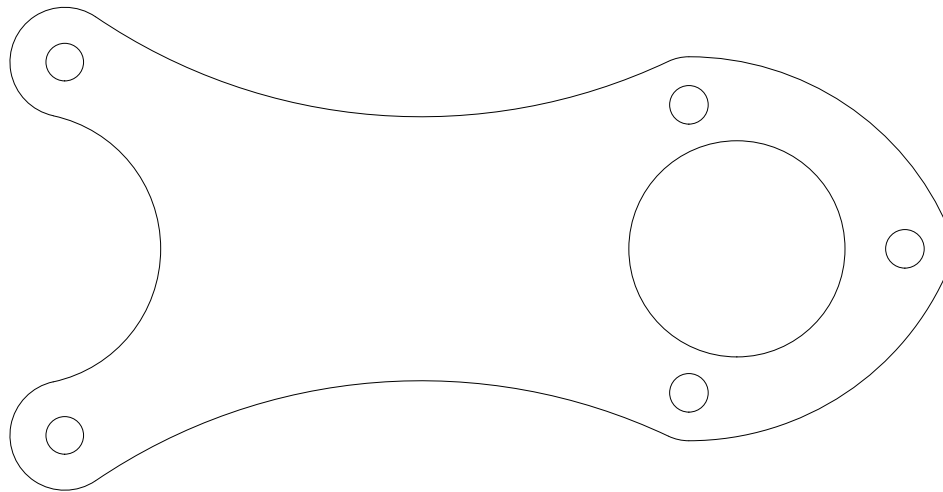
Assembly: Cube Intake

Quantity: 1X per robot

Material: 1/8" Polycarbonate Plate

Manufacturing: CNC

Rev 1



Motor Mount

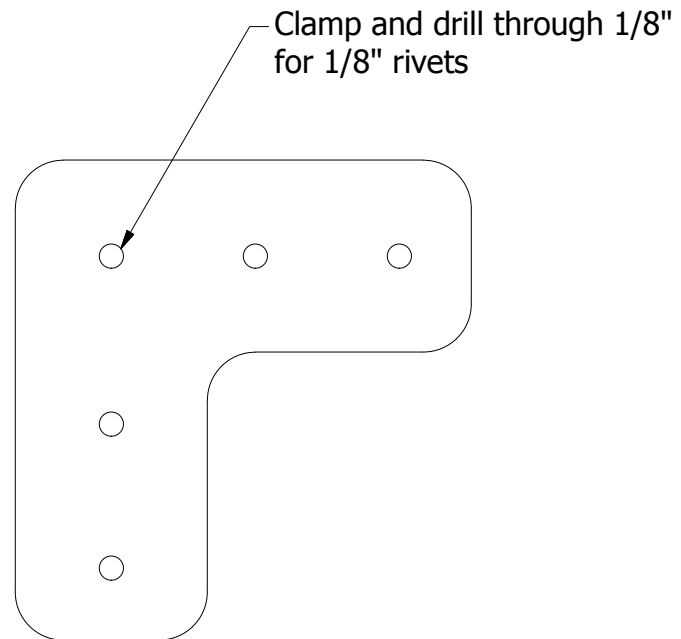
Assembly: Cube Intake

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

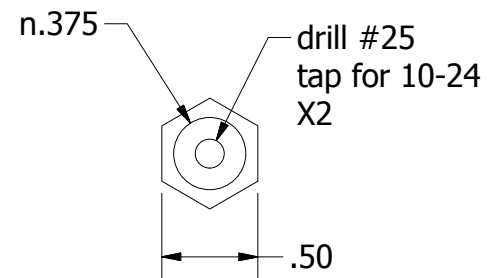
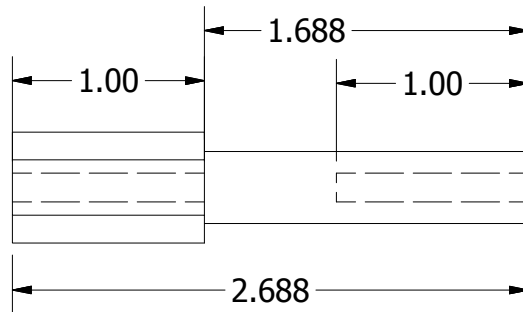
Assembly: Cube Intake

Quantity: 2X per robot

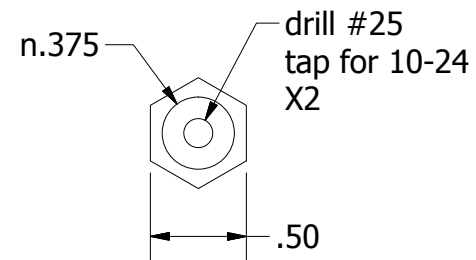
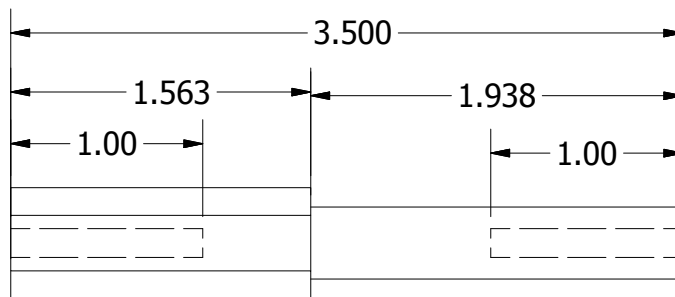
Material: 1/2" Aluminum Hex Shaft

Manufacturing: Lathe

Rev 1



Roller Drive Shaft
Assembly: Cube Intake
Quantity: 2X per robot
Material: 1/2" Aluminum Hex Shaft
Manufacturing: Lathe
Rev 1



Roller Middle Shaft

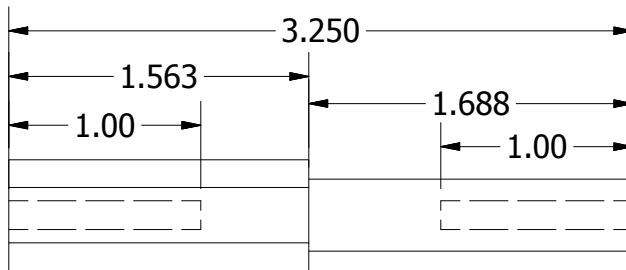
Assembly: Cube Intake

Quantity: 2X per robot

Material: 1/2" Aluminum Hex Shaft

Manufacturing: Lathe

Rev 1



#25 drill
tap for 10-24
X2

