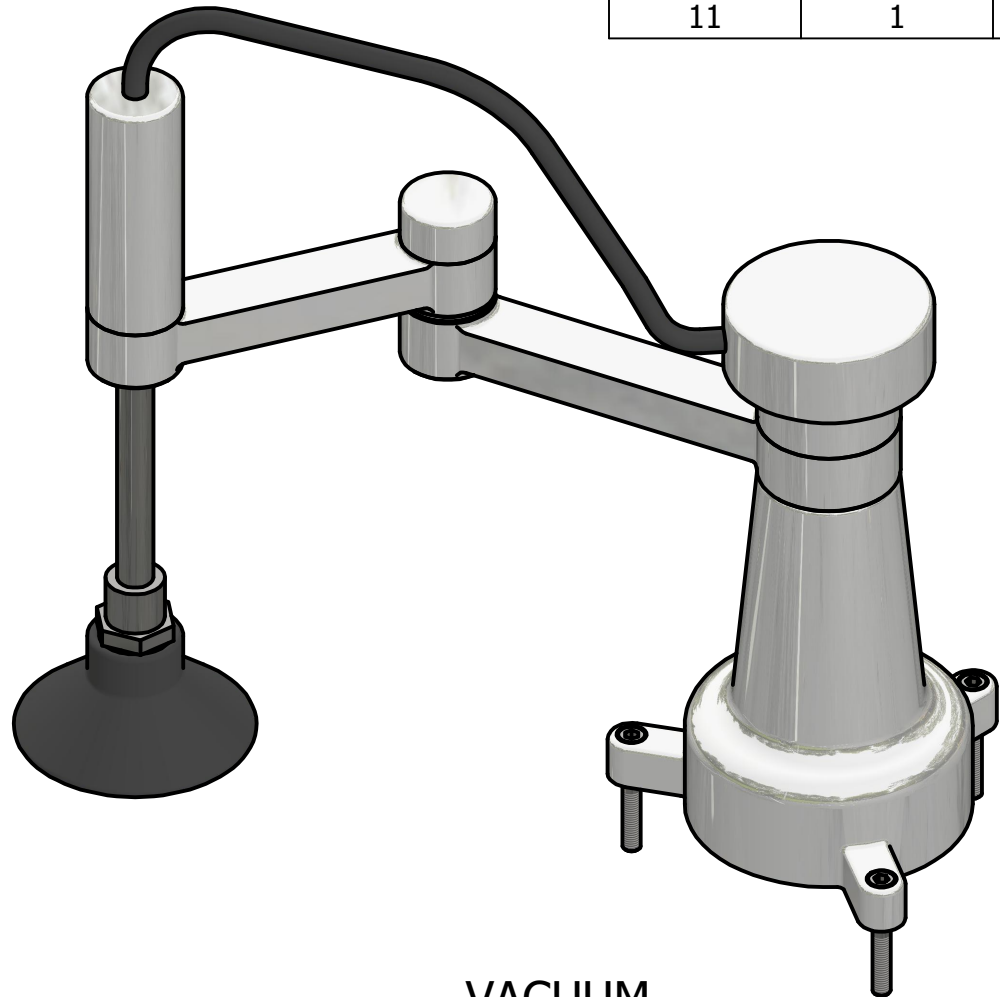




VACUUM
SCALE 1 / 2

GENERAL NOTES:

ALL ROUNDS AND FILLETS R .06 AND ALL CHAMFERS .02
X 45° UNLESS OTHERWISE SPECIFIED

PARTS LIST				
ITEM	QTY	PART NUMBER	MATERIAL	DESCRIPTION
1	1	BASE E-01	ALUMINUM	PAINT FINISH
2	1	ARM E-01	ALUMINUM	PAINT FINISH
3	1	ARM E-02	ALUMINUM	PAINT FINISH
4.1	1	SLIDING TUBE	STEEL	
4.2	1	SLIDING TUBE CAP	STEEL	
5	1	VACUUM CONNECTOR	STEEL	
6	1	VACUUM CUP	RUBBER	
7	1	BASE CAP	ALUMINUM	
8	1	ELBOW CAP	ALUMINUM	
9	1	VACUUM CAP	ALUMINUM	
10	3	CAP SCREW	STEEL	10-36 UNS
11	1	VACUUM TUBE	RUBBER	

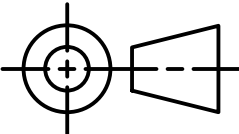
LEGEND:

- Ø DIAMETER
R RADIUS
° DEGREES
□ SPOTFACE/
COUNTERBORE
▽ DEPTH



DIGITAL DESIGN
GRAPHICS
TECHNOLOGY

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TOLERANCES UNLESS SPECIFIED:
DECIMAL INCHES:
X =±.020
XX =±.010
XXX =±.005
FRACTIONAL ±1/64"
ANGLES ±1 DEGREE
SURFACES 32 ✓

CLASS: DDGT 241

ASSIGNMENT #: #8

INVENTOR DRAWING NAME:
ROBOTIC ARM

FIG #: 1058

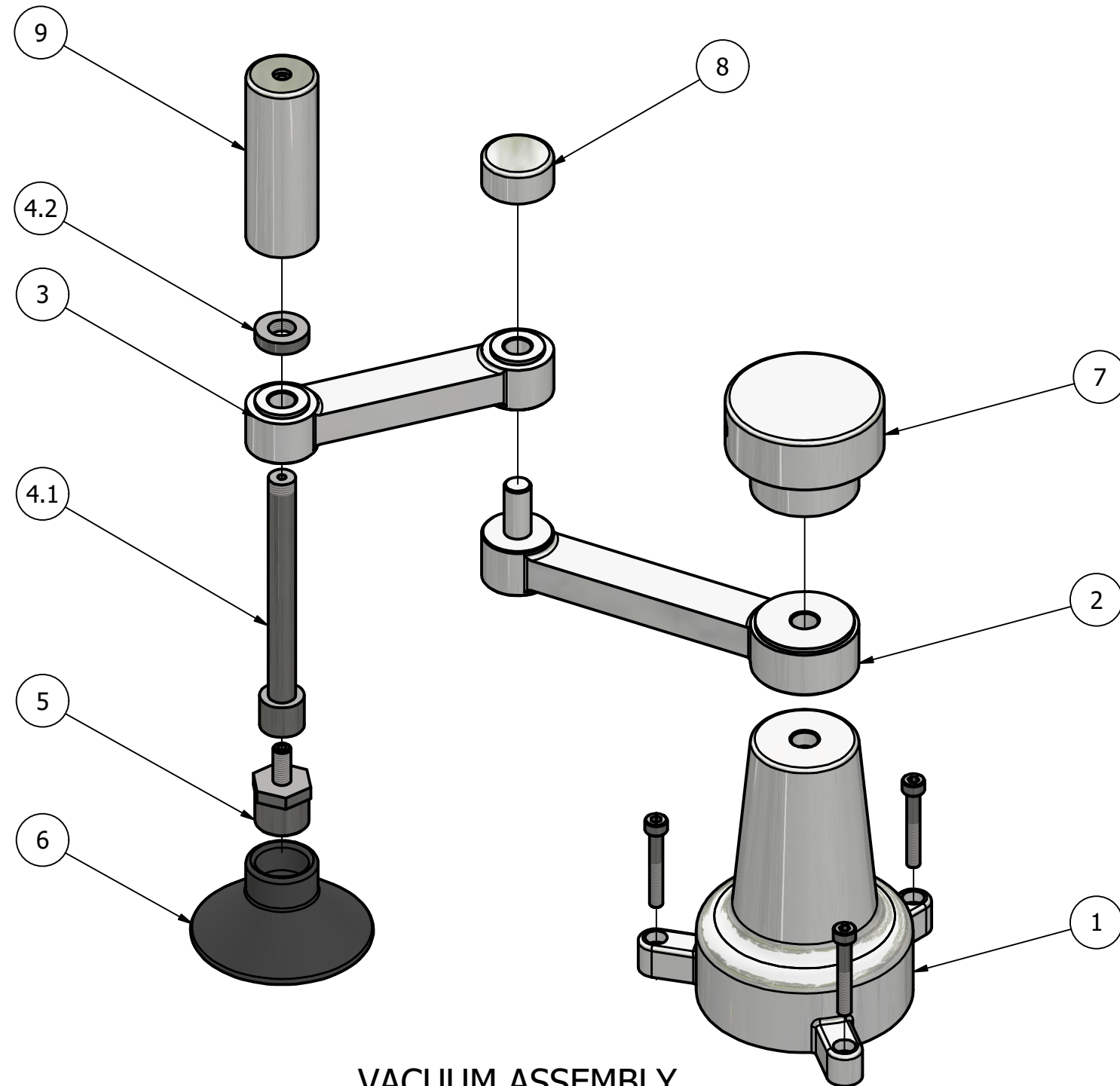
MANAGER: G. STROMMEN

DRAFTER: N. HENDERSON

DATE: 3/2/2025

SCALE: AS NOTED

PAGE #: 1 OF 7



VACUUM ASSEMBLY
SCALE 1 / 2

GENERAL NOTES:

ALL ROUNDS AND FILLETS R .06 AND ALL CHAMFERS .02
X 45° UNLESS OTHERWISE SPECIFIED

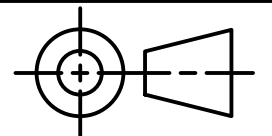
PARTS LIST

ITEM	QTY	PART NUMBER
1	1	BASE E-01
2	1	ARM E-01
3	1	ARM E-02
4.1	1	SLIDING TUBE
4.2	1	SLIDING TUBE CAP
5	1	VACUUM CONNECTOR
6	1	VACUUM CUP
7	1	BASE CAP
8	1	ELBOW CAP
9	1	VACUUM CAP
10	3	CAP SCREW



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TOLERANCES UNLESS SPECIFIED:
DECIMAL INCHES:
X = ±.020
XX = ±.010
XXX = ±.005
FRACTIONAL ±1/64"
ANGLES ±1 DEGREE
SURFACES 32 ✓

CLASS: DDGT 241

ASSIGNMENT #: #8

INVENTOR DRAWING NAME:
ROBOTIC ARM

FIG #: 1058

MANAGER: G. STROMMEN

DRAFTER: N. HENDERSON

DATE: 3/2/2025

SCALE: AS NOTED

PAGE #: 2 OF 7

LEGEND:

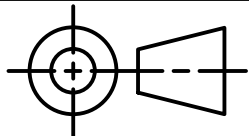
Ø DIAMETER
R RADIUS
° DEGREES
□ SPOTFACE/
COUNTERBORE
▽ DEPTH

PARTS LIST		
ITEM	QTY	PART NUMBER
2	1	ARM E-01
3	1	ARM E-02
11	1	VACUUM TUBE



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TOLERANCES UNLESS SPECIFIED:
DECIMAL INCHES:
X = ±.020
XX = ±.010
XXX = ±.005
FRACTIONAL ±1/64"
ANGLES ±1 DEGREE
SURFACES ³²✓

CLASS: DDGT 241

ASSIGNMENT #: #8

INVENTOR DRAWING NAME:
ROBOTIC ARM

FIG #: 1058

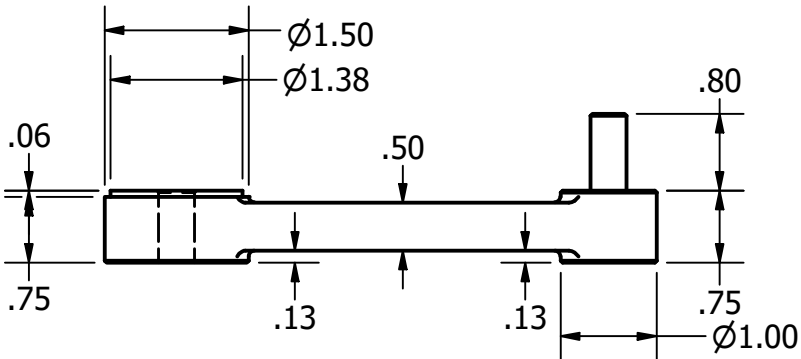
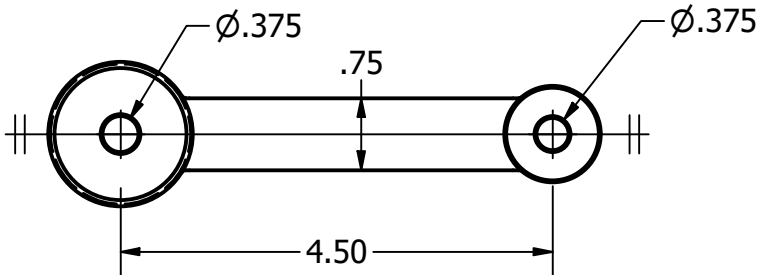
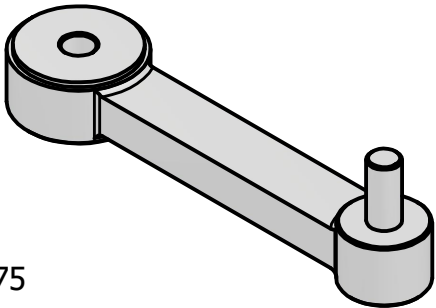
MANAGER: G. STROMMEN

DRAFTER: N. HENDERSON

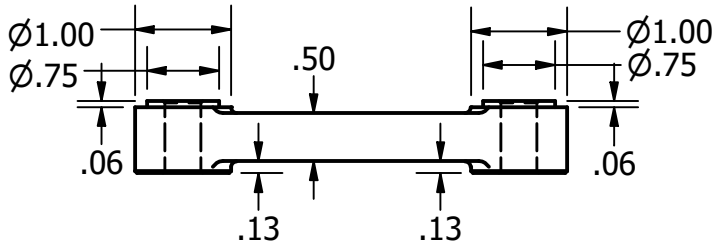
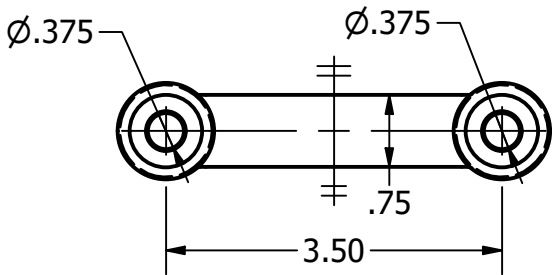
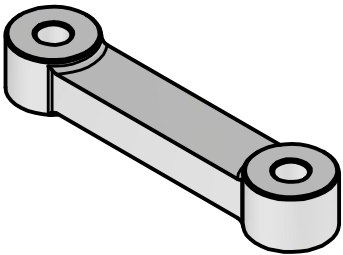
DATE: 3/2/2025

SCALE: AS NOTED

PAGE #: 3 OF 7



ARM E-01
SCALE 1 / 2



ARM E-02
SCALE 1 / 2

GENERAL NOTES:

ALL ROUNDS AND FILLETS R .06 AND ALL CHAMFERS .02
X 45° UNLESS OTHERWISE SPECIFIED

LEGEND:

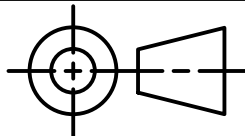
- Ø DIAMETER
- R RADIUS
- ° DEGREES
- ⌊ SPOTFACE/
COUNTERBORE
- ▽ DEPTH

PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	BASE E-01
11	1	VACUUM TUBE



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GRAPHICS
TECHNOLOGY

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TOLERANCES UNLESS SPECIFIED:
DECIMAL INCHES:
X = ±.020
XX = ±.010
XXX = ±.005
FRACTIONAL ±1/64"
ANGLES ±1 DEGREE
SURFACES 32 ✓

CLASS: DDGT 241

ASSIGNMENT #: #8

INVENTOR DRAWING NAME:
ROBOTIC ARM

FIG #: 1058

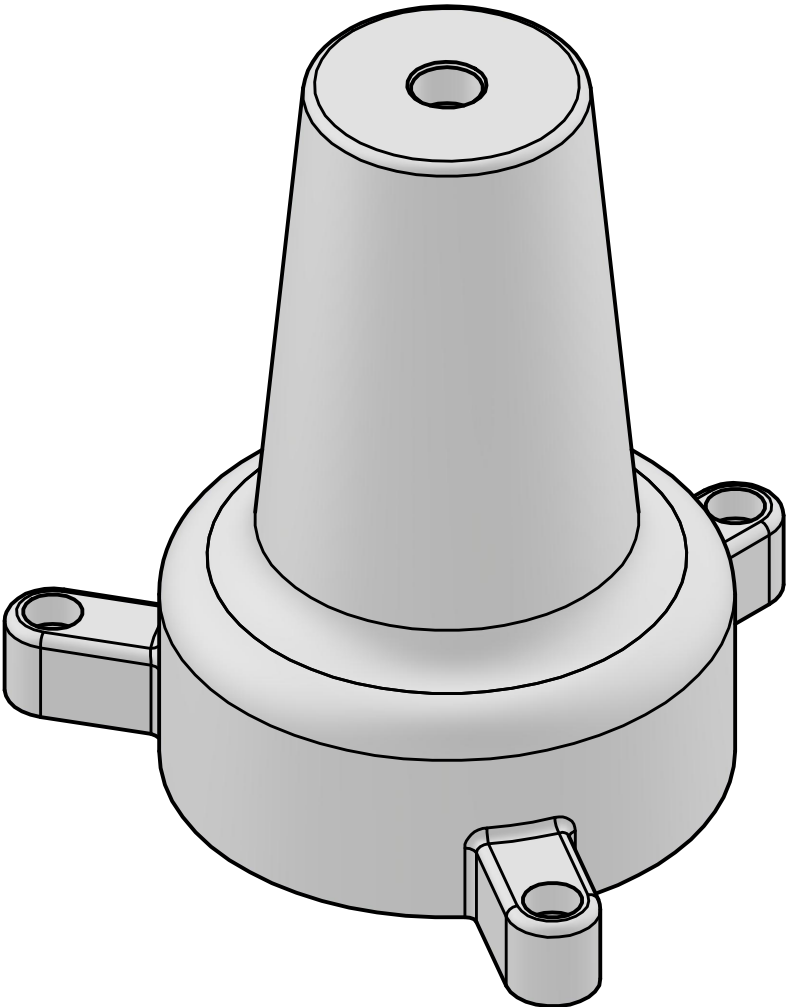
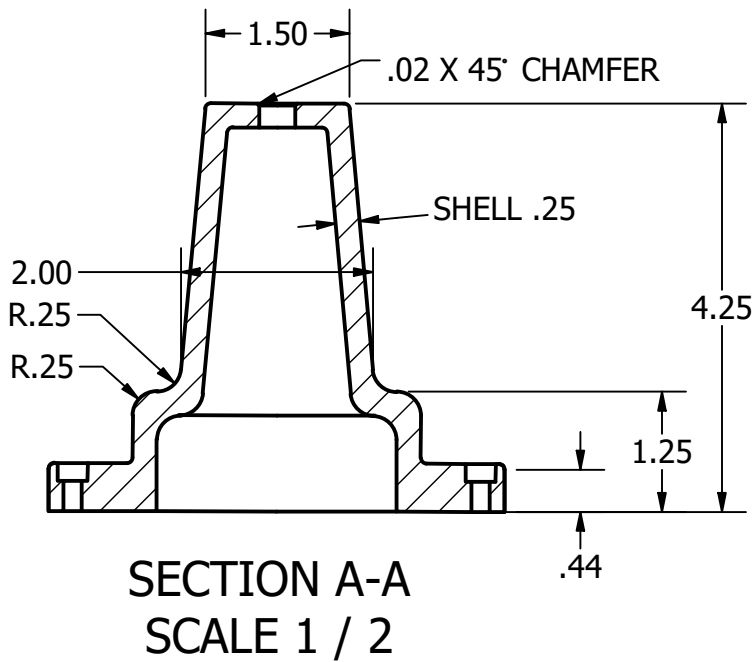
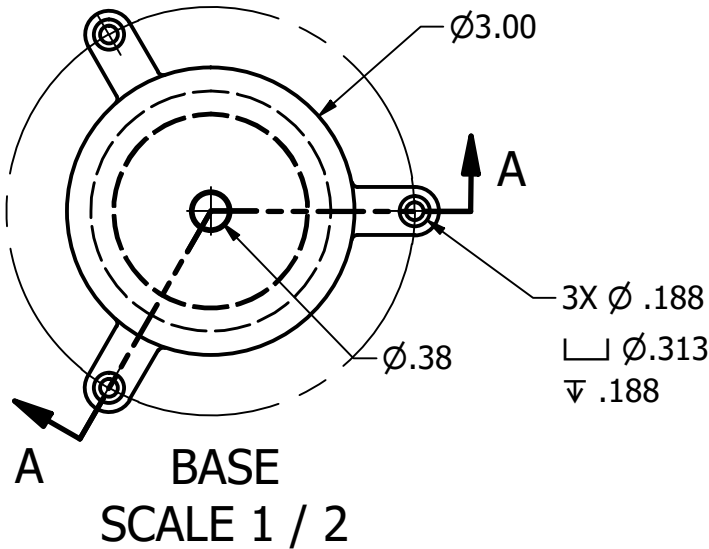
MANAGER: G. STROMMEN

DRAFTER: N. HENDERSON

DATE: 3/2/2025

SCALE: AS NOTED

PAGE #: 4 OF 7



LEGEND:

- Ø DIAMETER
- R RADIUS
- ° DEGREES
- SPOTFACE/
COUNTERBORE
- ▽ DEPTH

GENERAL NOTES:

ALL ROUNDS AND FILLETS R .06 AND ALL CHAMFERS .02
X 45° UNLESS OTHERWISE SPECIFIED

GENERAL NOTES:

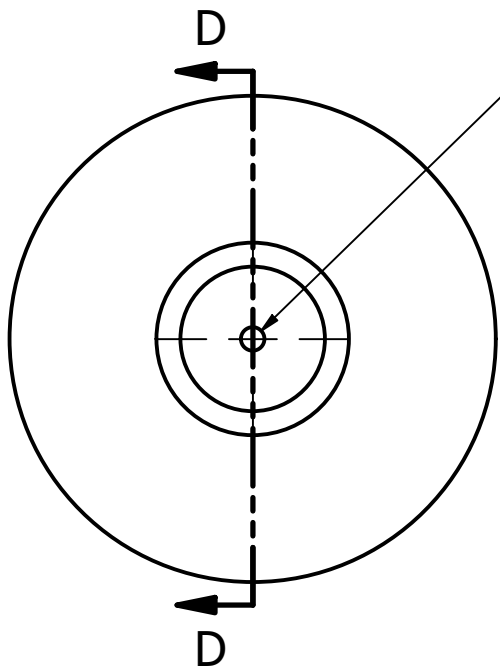
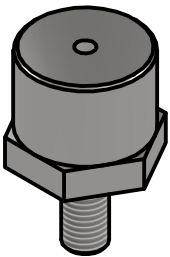
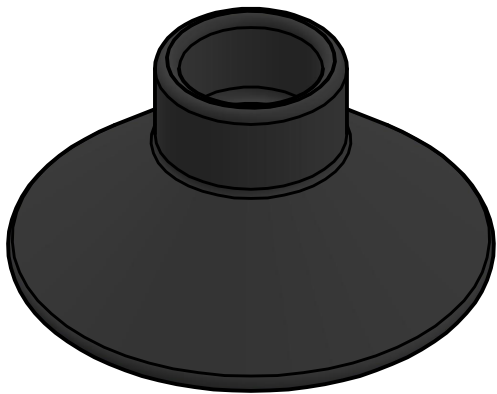
ALL ROUNDS AND FILLETS R .06 AND ALL CHAMFERS .02
X 45° UNLESS OTHERWISE SPECIFIED

PARTS LIST		
ITEM	QTY	PART NUMBER
5	1	VACUUM CONNECTOR
6	1	VACUUM CUP
11	1	VACUUM TUBE

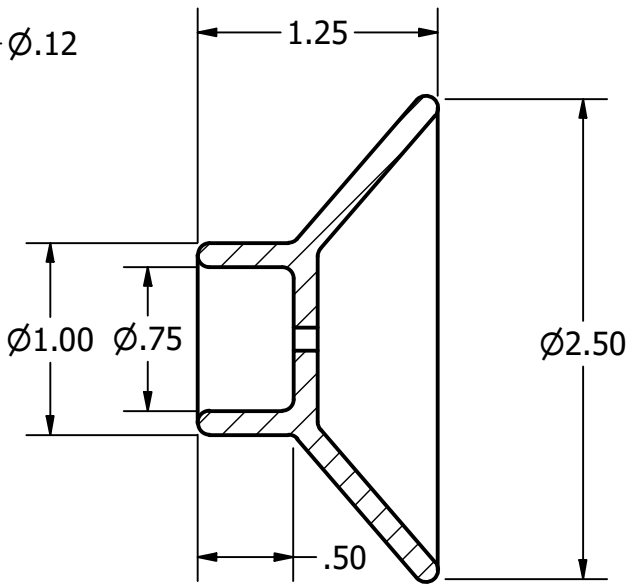


DIGITAL DESIGN
GRAPHICS
TECHNOLOGY

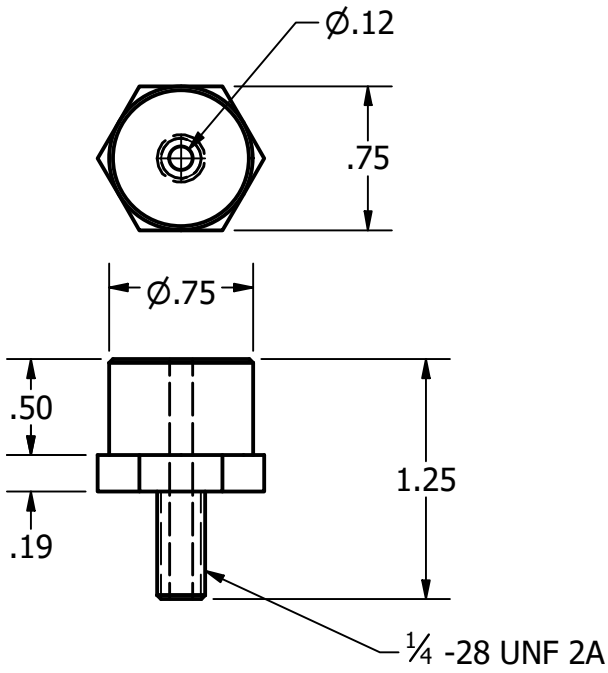
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VACUUM CUP
SCALE 1 : 1



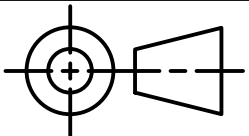
SECTION D-D
SCALE 1 : 1



VACUUM CONNECTOR
SCALE 1 : 1

LEGEND:

- Ø DIAMETER
- R RADIUS
- ° DEGREES
- SPOTFACE/
COUNTERBORE
- DEPTH



TOLERANCES UNLESS SPECIFIED:
DECIMAL INCHES:
X =±.020
XX =±.010
XXX =±.005
FRACTIONAL ±1/64"
ANGLES ±1 DEGREE
SURFACES 32 ✓

CLASS: DDGT 241

ASSIGNMENT #: #8

INVENTOR DRAWING NAME:
ROBOTIC ARM

FIG #: 1058

MANAGER: G. STROMMEN

DRAFTER: N. HENDERSON

DATE: 3/2/2025

SCALE: AS NOTED

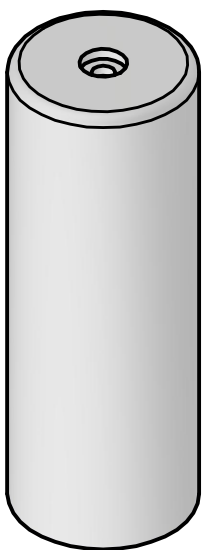
PAGE #: 5 OF 7

GENERAL NOTES:

ALL ROUNDS AND FILLETS R .06 AND ALL CHAMFERS .02 X 45° UNLESS OTHERWISE SPECIFIED

LEGEND:

- Ø DIAMETER
- R RADIUS
- ° DEGREES
- SPOTFACE/COUNTERBORE
- DEPTH



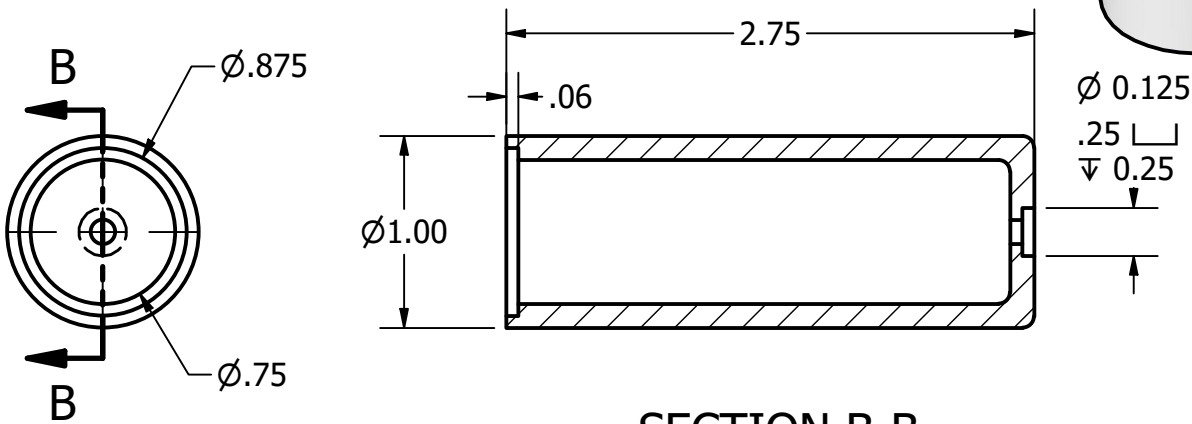
PARTS LIST

ITEM	QTY	PART NUMBER
7	1	BASE CAP
8	1	ELBOW CAP
9	1	VACUUM CAP
11	1	VACUUM TUBE



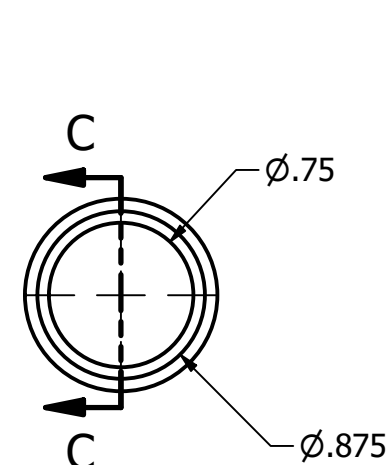
DIGITAL DESIGN
GRAPHICS
TECHNOLOGY

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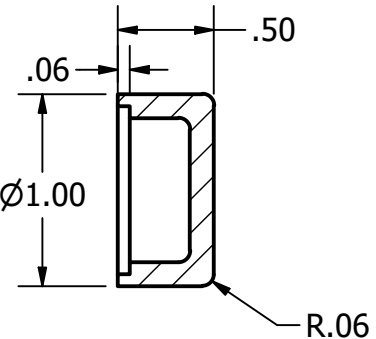


VACCUM CAP
SCALE 1 : 1

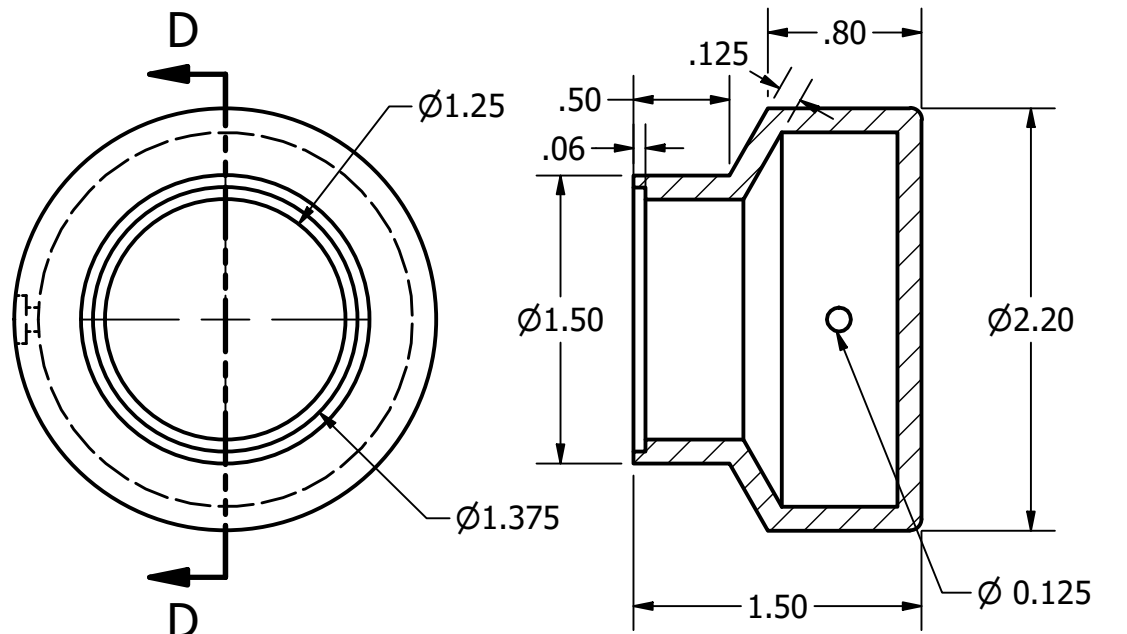
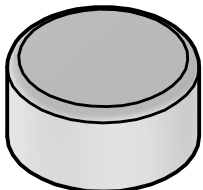
SECTION B-B
SCALE 1 : 1



ELBOW CAP
SCALE 1 : 1

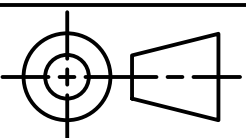


SECTION C-C
SCALE 1 : 1



BASE CAP
SCALE 1 : 1

SECTION D-D
SCALE 1 : 1

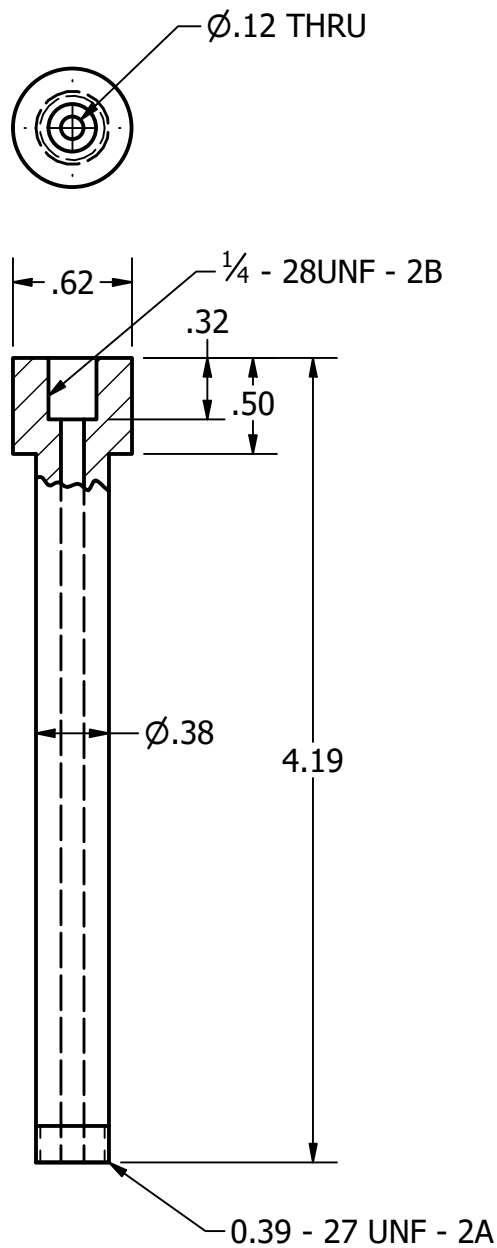


TOLERANCES UNLESS SPECIFIED:
DECIMAL INCHES:
X = ±.020
XX = ±.010
XXX = ±.005
FRACTIONAL ±1/64"
ANGLES ±1 DEGREE
SURFACES 32 ✓

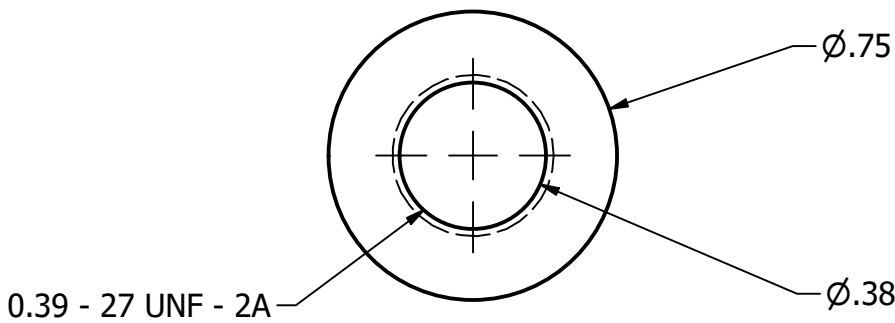
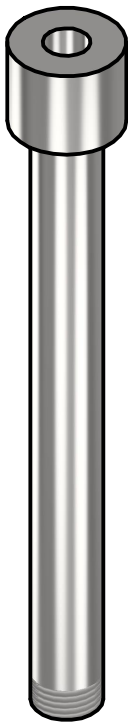
CLASS:	DDGT 241
ASSIGNMENT #:	#8
INVENTOR DRAWING NAME:	ROBOTIC ARM
FIG #:	1058
MANAGER:	G. STROMMEN
DRAFTER:	N. HENDERSON
DATE:	3/2/2025
SCALE:	AS NOTED
PAGE #:	6 OF 7

GENERAL NOTES:

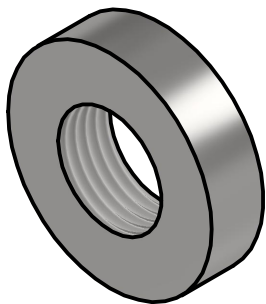
ALL ROUNDS AND FILLETS R .06 AND ALL CHAMFERS .02 X 45° UNLESS OTHERWISE SPECIFIED



SLIDING TUBE
SCALE 1 : 1



SLIDING TUBE CAP
SCALE 2 : 1



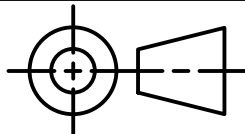
PARTS LIST

ITEM	QTY	PART NUMBER
4.1	1	SLIDING TUBE
4.2	1	SLIDING TUBE CAP
11	1	VACUUM TUBE



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TOLERANCES UNLESS SPECIFIED:
DECIMAL INCHES:
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XXX = ±.005
FRACTIONAL ±1/64"
ANGLES ±1 DEGREE
SURFACES 32 ✓

CLASS: DDGT 241

ASSIGNMENT #: #8

INVENTOR DRAWING NAME:
ROBOTIC ARM

FIG #: 1058

MANAGER: G. STROMMEN

DRAFTER: N. HENDERSON

DATE: 3/2/2025

SCALE: AS NOTED

PAGE #: 7 OF 7

LEGEND:

- Ø DIAMETER
- R RADIUS
- ° DEGREES
- SPOTFACE/
COUNTERBORE
- DEPTH