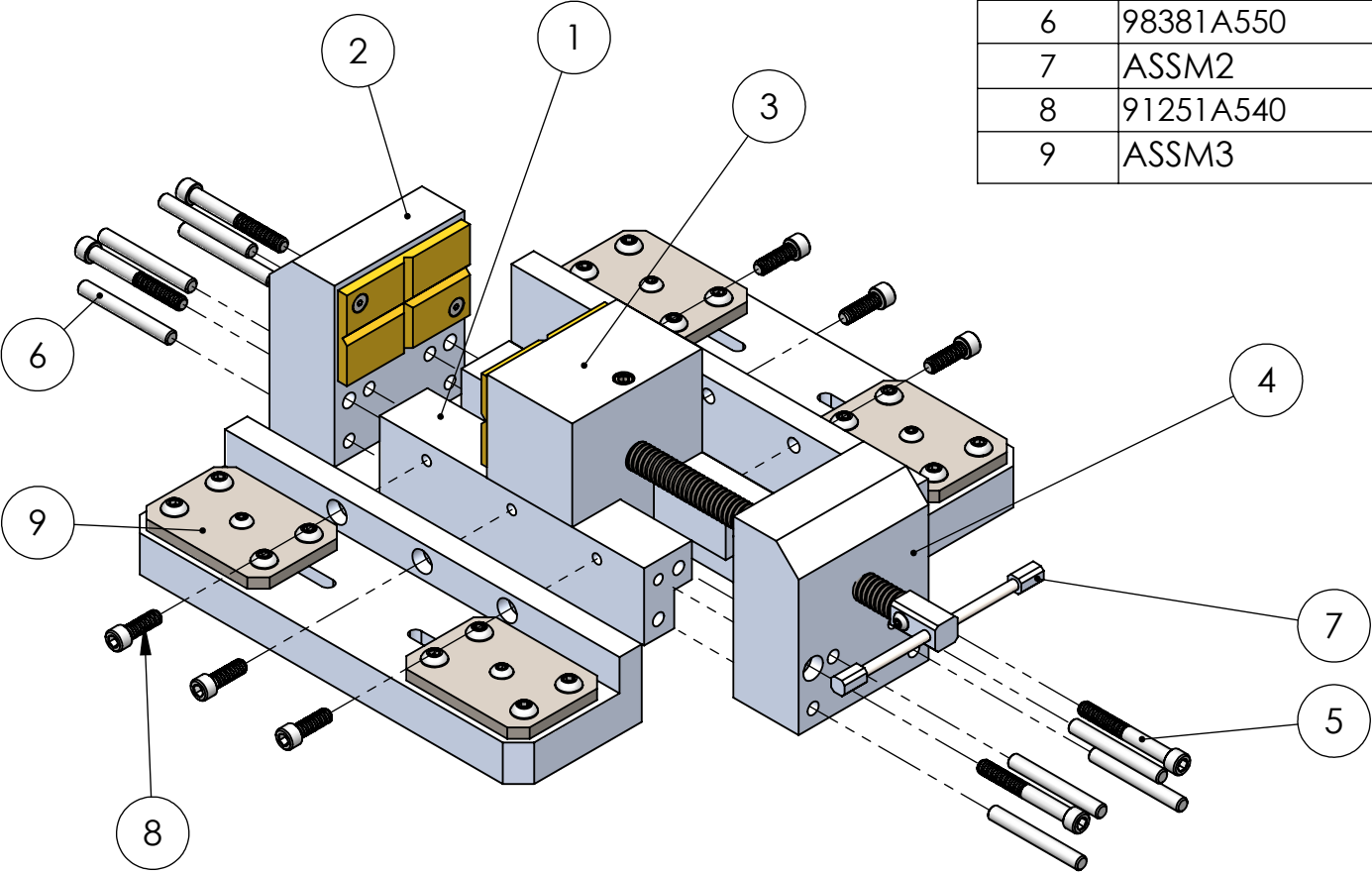


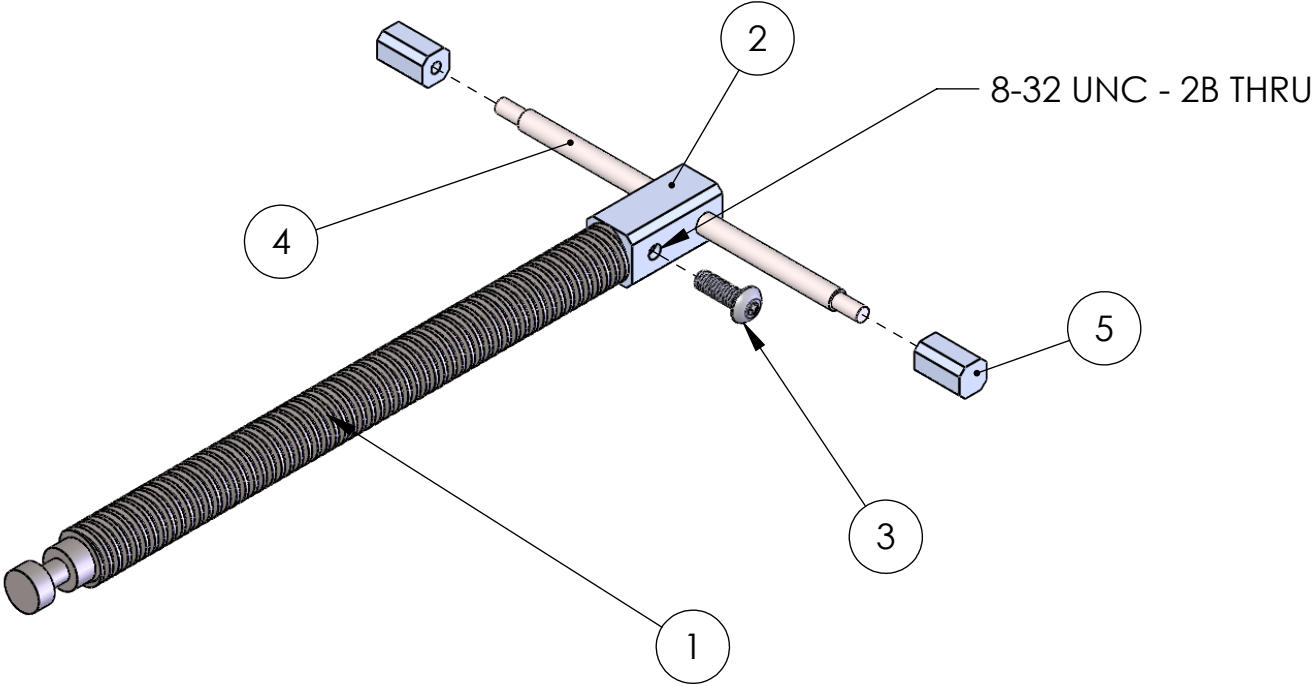
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---------------|------|
| 1 | SKW0001 | Vise Base | 2 |
| 2 | ASSM5 | Fixed Jaw | 1 |
| 3 | ASSM4 | Sliding Jaw | 1 |
| 4 | SKW0005 | Back Piece | 1 |
| 5 | 91251A550 | End Screw | 4 |
| 6 | 98381A550 | Location Pin | 8 |
| 7 | ASSM2 | Handle | 1 |
| 8 | 91251A540 | Side Screw | 6 |
| 9 | ASSM3 | Magnet Holder | 2 |



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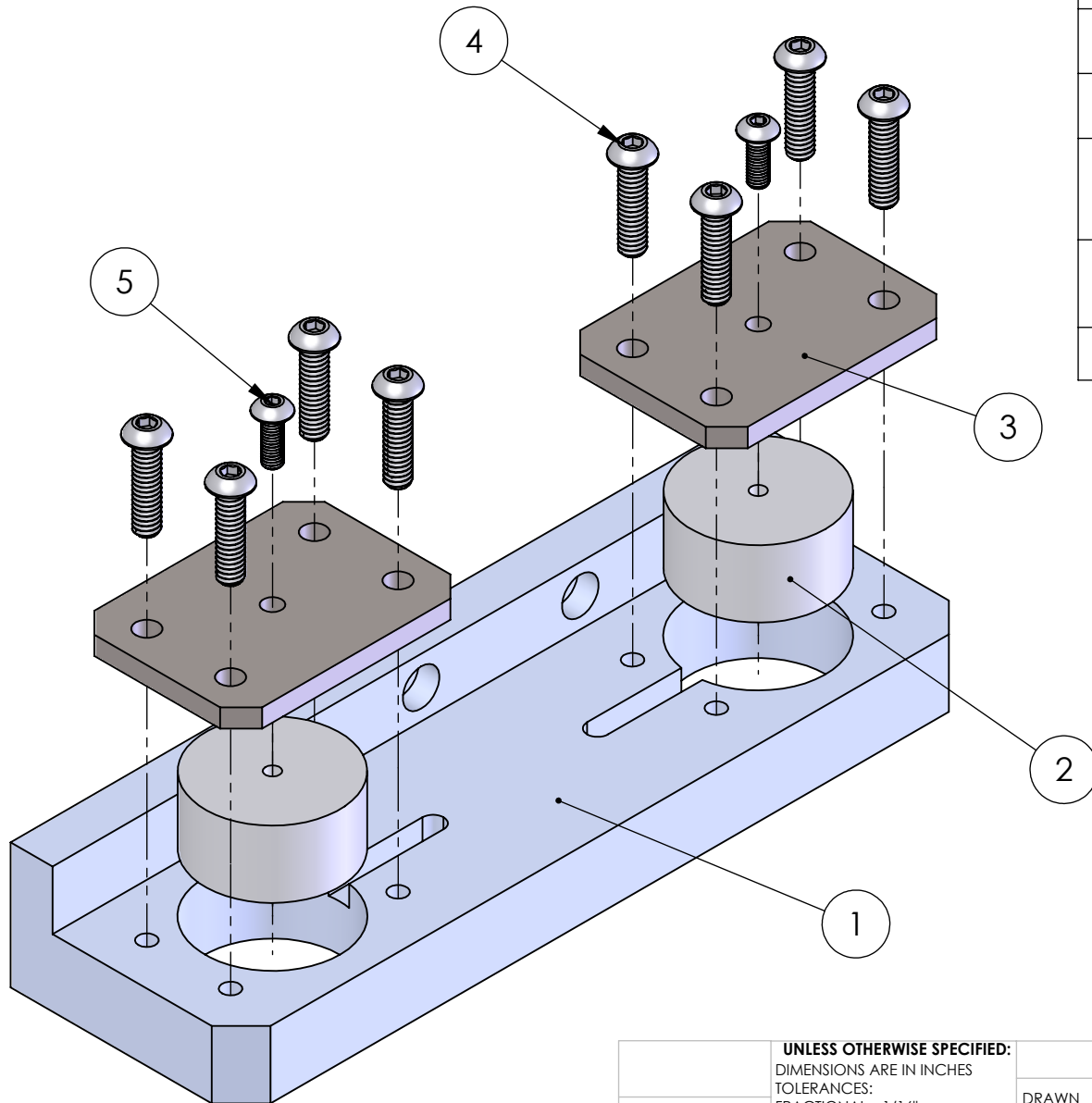
| | | | | | | | |
|-----------|---|---------------|-----------|---------|----------------------------------|------------------|--------------------------|
| | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16" ANGULAR: MACH ± 5 BEND ± 1 TWO PLACE DECIMAL ± 0.03" THREE PLACE DECIMAL ± 0.005" INTERPRET GEOMETRIC TOLERANCING PER: COMMENTS: | | NAME | DATE | MSU M.& I.E. DEPT. | | |
| | | DRAWN | SW | 12/6/18 | TITLE: Main Vise Assembly | | |
| | | CHECKED | | | | | |
| | | ENG APPR. | | | | | |
| | | | MFG APPR. | | | SIZE A | DWG. NO. ASSM1 |
| NEXT ASSY | DO NOT SCALE DRAWING | MATERIAL - | | | SCALE: 1:8 | WEIGHT: | SHEET 1 OF 1 |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|------------------------|------|
| 1 | 98935A718 | 1/2-10 ACME Lead Screw | 1 |
| 2 | SKW0014 | Handle End Cap | 1 |
| 3 | 91255A194 | 8-32 Screw | 1 |
| 4 | SKW0016 | Vise Handle | 1 |
| 5 | SKW0017 | Vise Handle End | 2 |



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|-----------|--|-----------|------|---------|--------------------|---------------------|--------------|--|
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| | | DRAWN | SW | 12/6/18 | | | | |
| | | CHECKED | | | TITLE: | Handle Sub-Assembly | | |
| | | ENG APPR. | | | | | | |
| | | MFG APPR. | | | | | | |
| | | MATERIAL | | | SIZE | DWG. NO. | REV | |
| | | - | | | A | ASSM2 | A | |
| NEXT ASSY | DO NOT SCALE DRAWING | | | | SCALE: 1:2 | WEIGHT: | SHEET 1 OF 1 | |



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-------------------|------|
| 1 | SKW0006 | Magnet Holder | 1 |
| 2 | SKW0020 | Magnet | 2 |
| 3 | SKW0018 | Magnet Top Plate | 2 |
| 4 | 91255A542 | 1/4-20 X 1" Screw | 8 |
| 5 | 91239A230 | M5 X 8 Screw | 2 |

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 FRACTIONAL $\pm 1/16"$
 ANGULAR: MACH ± 5 BEND ± 1
 TWO PLACE DECIMAL $\pm 0.03"$
 THREE PLACE DECIMAL $\pm 0.005"$
 INTERPRET GEOMETRIC
 TOLERANCING PER:
 COMMENTS:

NEXT ASSY

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

SW

12/6/18

CHECKED

ENG APPR.

MFG APPR.

MATERIAL

-

MSU M.& I.E. DEPT.

TITLE:
 Magnet Holder Sub-Assembly

SIZE

A

DWG. NO.

ASSM3

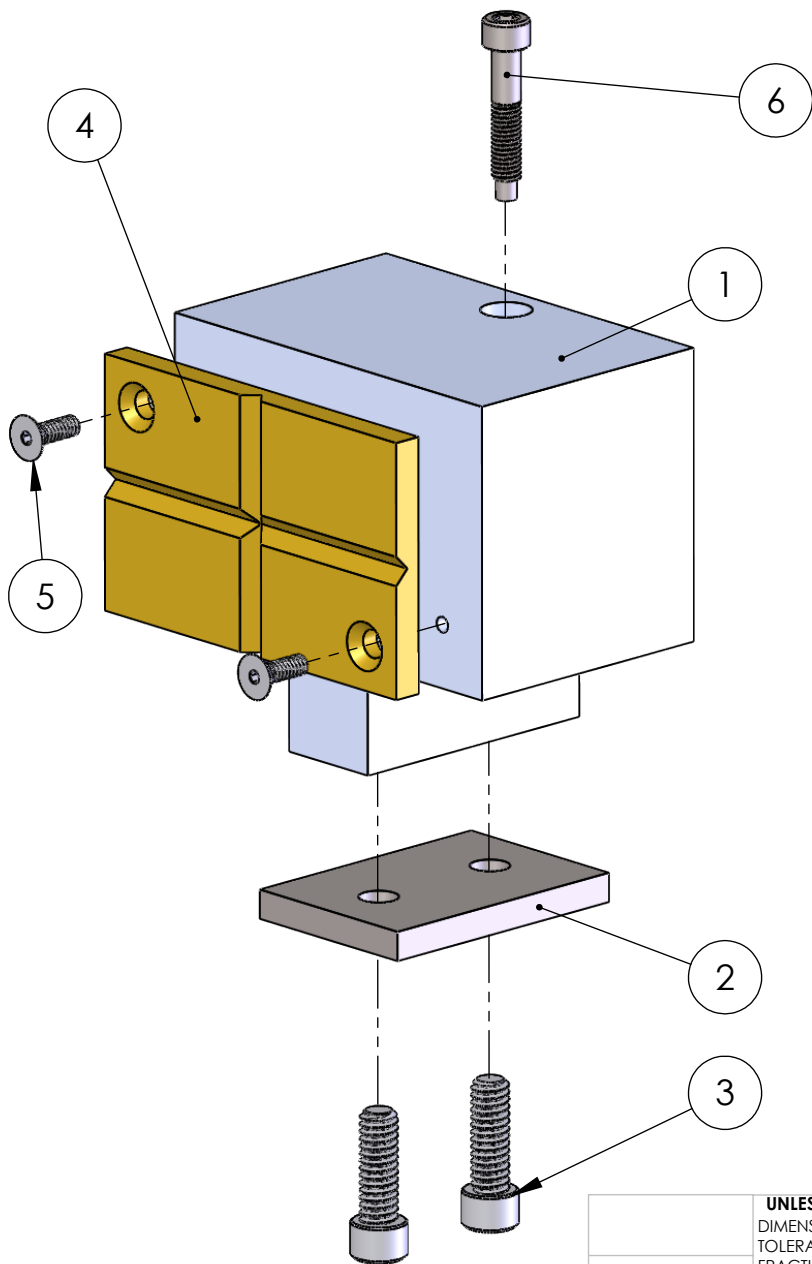
REV

A

SCALE: 1:2

WEIGHT:

SHEET 1 OF 1



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--------------------------|------|
| 1 | SKW0003 | Sliding Jaw | 1 |
| 2 | SKW0004 | Sliding Jaw Bottom Plate | 1 |
| 3 | 91251A540 | Bottom Screw | 2 |
| 4 | SKW0010 | Jaw Plates | 1 |
| 5 | 91253A145 | Jaw Plate Screw | 2 |
| 6 | 91251A349 | Retainer Screw | 1 |

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 TOLERANCES:
 FRACTIONAL $\pm 1/16"$
 ANGULAR: MACH $\pm .5$ BEND ± 1
 TWO PLACE DECIMAL $\pm 0.03"$
 THREE PLACE DECIMAL $\pm 0.005"$

INTERPRET GEOMETRIC
 TOLERANCING PER:

COMMENTS:

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

SW

12/6/18

CHECKED

ENG APPR.

MFG APPR.

MATERIAL

-

MSU M.& I.E. DEPT.

TITLE: Sliding Jaw Sub-Assembly

SIZE

A

DWG. NO.

ASSM4

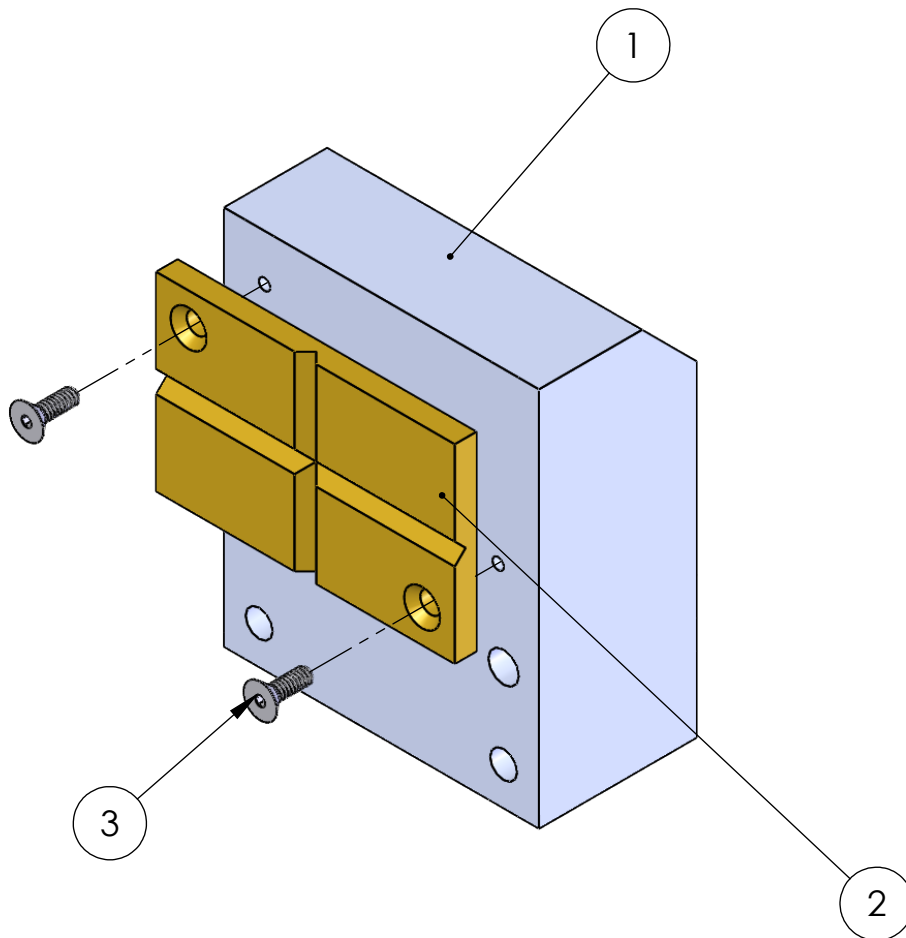
REV

A

SCALE: 1:2

WEIGHT:

SHEET 1 OF 1



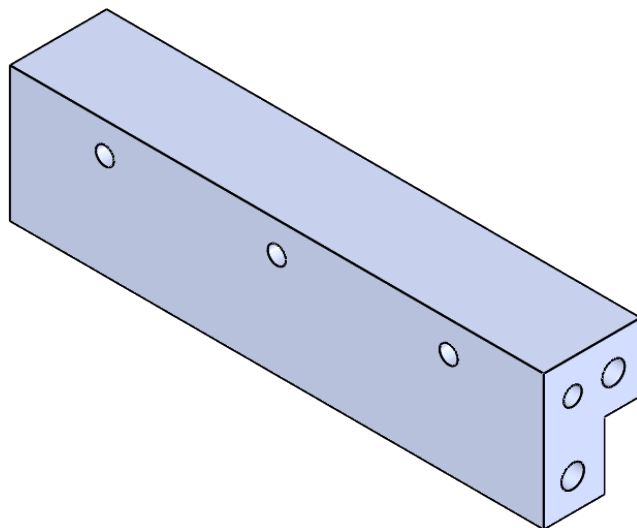
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-----------------|------|
| 1 | SKW0002 | Fixed Jaw | 1 |
| 2 | SKW0010 | Jaw Plates | 1 |
| 3 | 91253A145 | Jaw Plate Screw | 2 |

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 TOLERANCES:
 FRACTIONAL $\pm 1/16"$
 ANGULAR: MACH ± 5 BEND ± 1
 TWO PLACE DECIMAL $\pm 0.03"$
 THREE PLACE DECIMAL $\pm 0.005"$
 INTERPRET GEOMETRIC
 TOLERANCING PER:
 COMMENTS:
 DO NOT SCALE DRAWING

| | NAME | DATE |
|-----------|------|---------|
| DRAWN | SW | 12/6/18 |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| MATERIAL | - | |

| | | |
|-------------------------------|--------------------------|-----------------|
| MSU M.& I.E. DEPT. | | |
| TITLE: Fixed Jaw Sub-Assembly | | |
| SIZE A | DWG. NO. ASSM5 | REV A |
| SCALE: 1:2 | WEIGHT: | SHEET 1 OF 1 |



3X $\phi .20 \sqrt{.75}$
1/4-20 UNC - 2B $\sqrt{.50}$

0.001 A

0.001

5.90

2X $\phi .20 \sqrt{.75}$
1/4-20 UNC - 2B $\sqrt{.50}$

1.15

1.900

1.900

1.05

A

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NEXT ASSY

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

Sam Weston

11/20/18

CHECKED

ENG APPR.

MFG APPR.

MATERIAL

6061-T6 (SS)

MSU M.& I.E. DEPT.

TITLE:

Vise Base

SIZE

A

DWG. NO.

SKW0001 (vise base)

REV

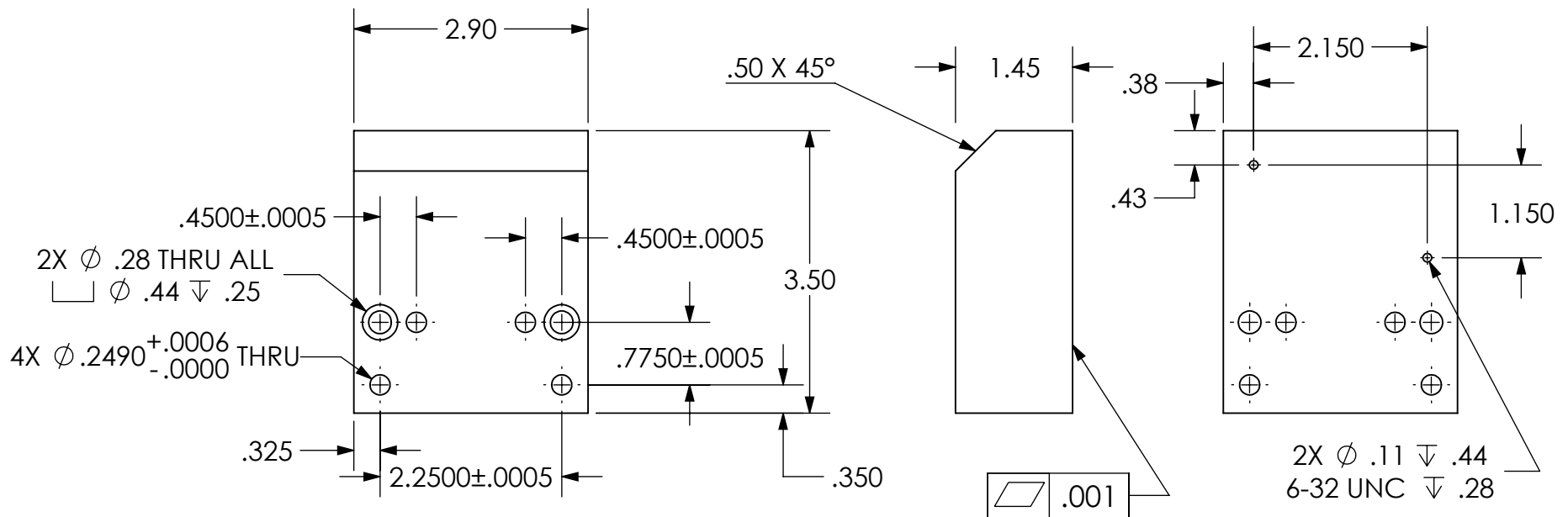
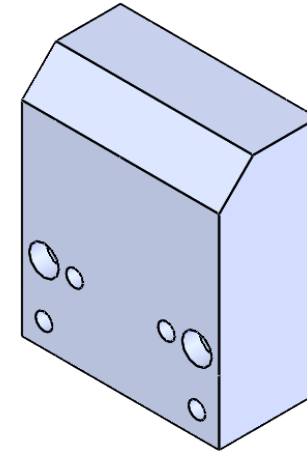
A

SCALE: 1:2

WEIGHT: 0.72

SHEET 1 OF 1

Back face same as front

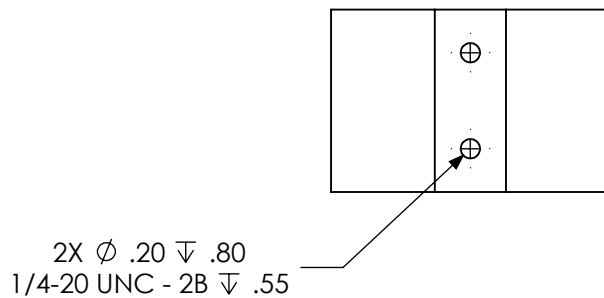
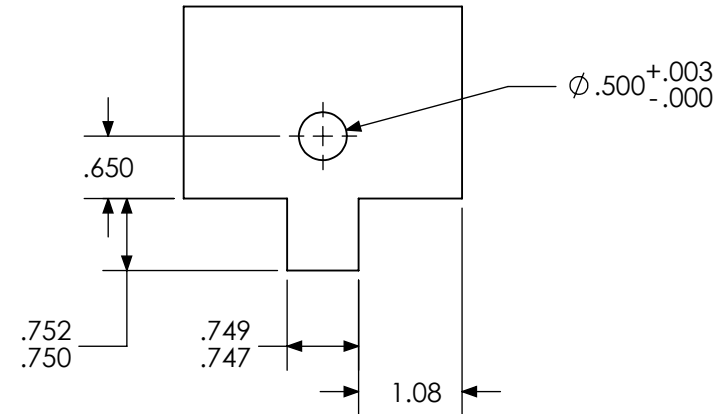
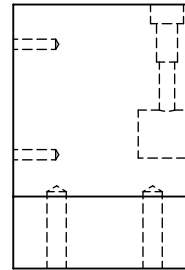
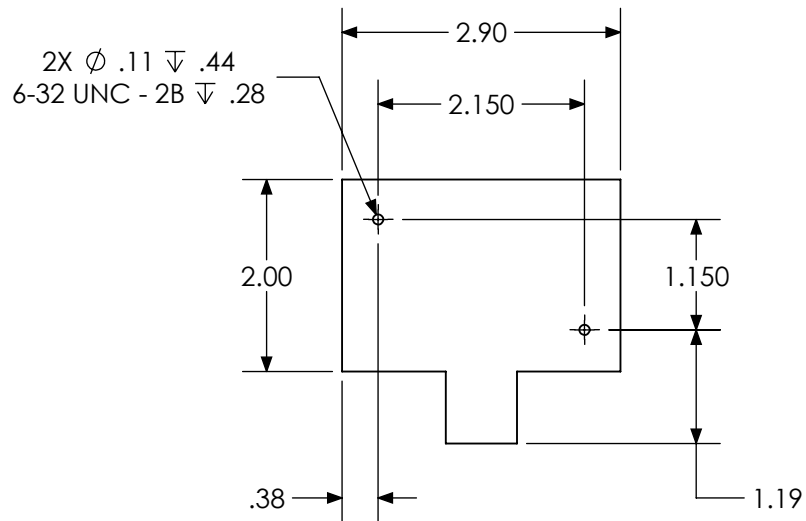
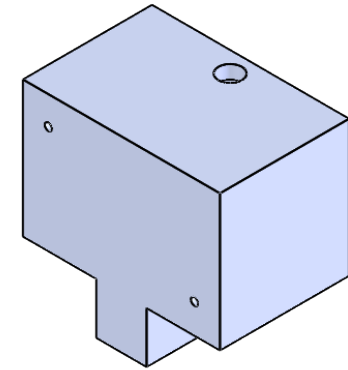
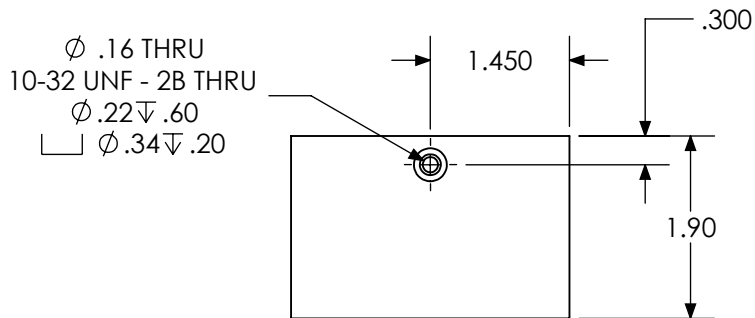


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 ANGULAR: MACH ± 5 BEND ± 1
 TWO PLACE DECIMAL ± 0.03 "
 THREE PLACE DECIMAL ± 0.005 "
 INTERPRET GEOMETRIC
 TOLERANCING PER:
 COMMENTS:
 DO NOT SCALE DRAWING

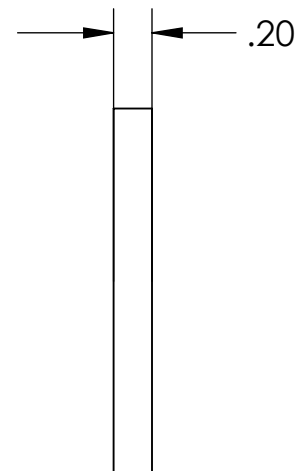
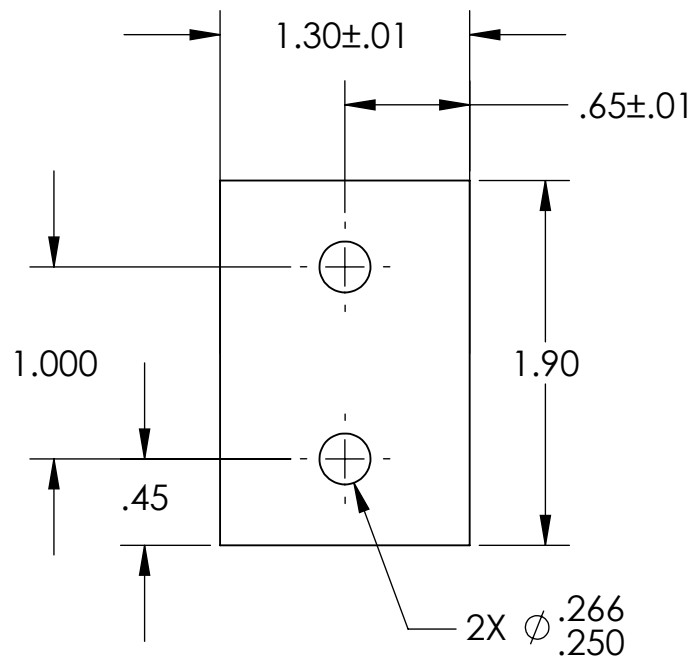
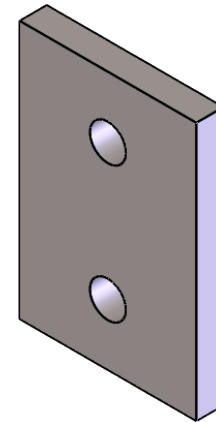
| | NAME | DATE |
|------------------------------|------------|----------|
| DRAWN | Sam Weston | 11/20/18 |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| MATERIAL Aluminum 6061-T6 | | |

| MSU M.& I.E. DEPT. | | |
|--------------------|---------------------|-----------------|
| TITLE: Fixed Jaw | | |
| SIZE A | DWG. NO. SKW0002 | REV A |
| SCALE: 1:2 | WEIGHT: 1.35 | SHEET 1 OF 1 |



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| UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | MSU M.& I.E. DEPT. | |
|--------------------------------------|--|----------------------|------------|--------------------------------------|--|
| DIMENSIONS ARE IN INCHES | | DRAWN | Sam Weston | TITLE: | |
| TOLERANCES: | | CHECKED | | Sliding Jaw | |
| FRACTIONAL $\pm 1/16$ " | | ENG APPR. | | SIZE DWG. NO. REV | |
| ANGULAR: MACH ± 5 BEND ± 1 | | MFG APPR. | | A SKW0003 (sliding jaw) A | |
| TWO PLACE DECIMAL ± 0.03 " | | MATERIAL | | SCALE: 1:1 WEIGHT: 1.16 SHEET 1 OF 1 | |
| THREE PLACE DECIMAL ± 0.005 " | | 6061-T6 (SS) | | | |
| INTERPRET GEOMETRIC TOLERANCING PER: | | | | | |
| COMMENTS: | | | | | |
| NEXT ASSY | | DO NOT SCALE DRAWING | | | |



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FRACTIONAL $\pm 1/16"$
ANGULAR: MACH ± 5 BEND ± 1
TWO PLACE DECIMAL $\pm 0.03"$
THREE PLACE DECIMAL $\pm 0.005"$

INTERPRET GEOMETRIC
TOLERANCING PER:

COMMENTS:

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

Sam Weston

11/21/18

CHECKED

ENG APPR.

MFG APPR.

MATERIAL

1023 Carbon Steel Sheet (SS)

-

MSU M.& I.E. DEPT.

TITLE:

Sliding Jaw Bottom Plate

SIZE

A

DWG. NO.

SKW0004 (sliding jaw bottom)

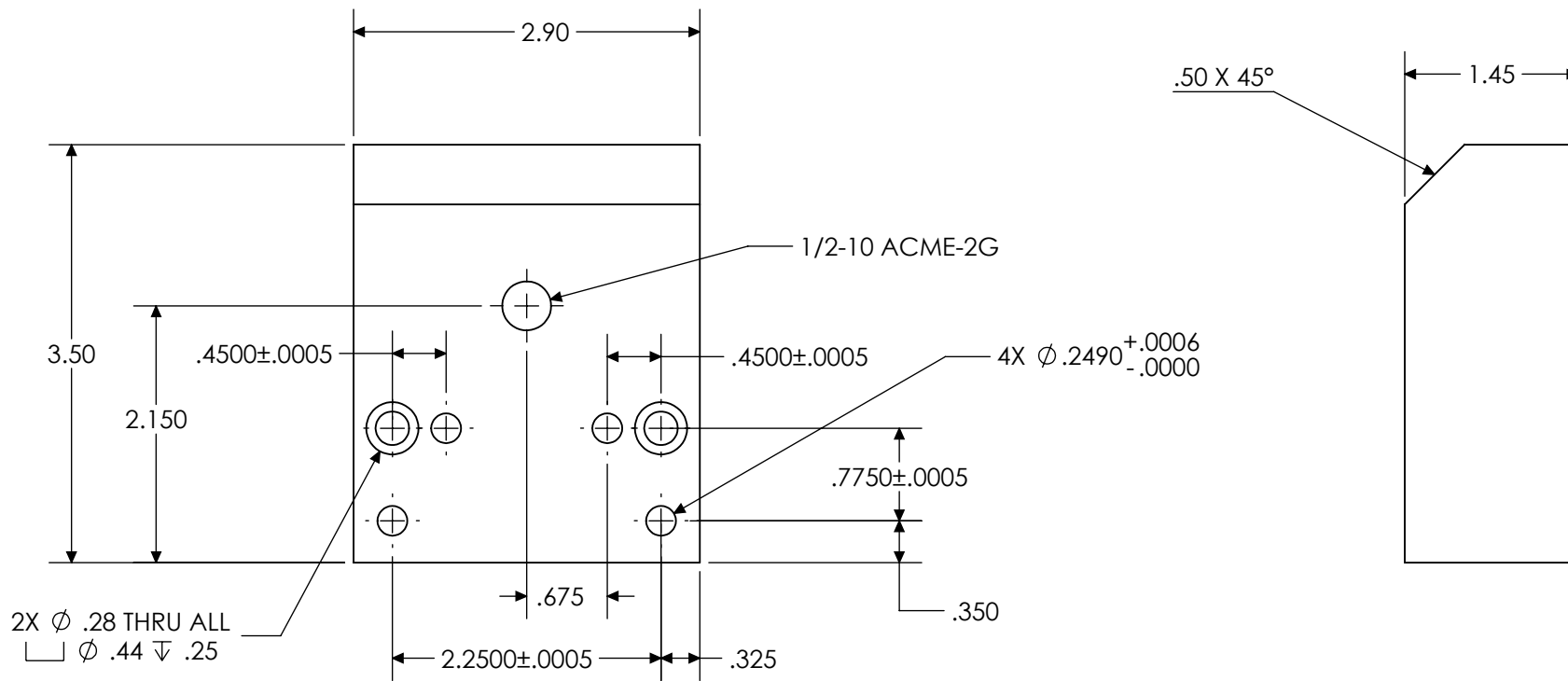
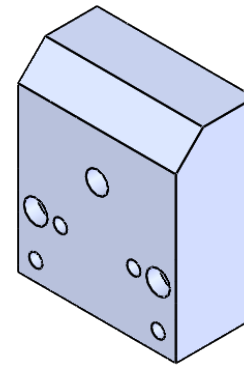
REV

A

SCALE: 1:1

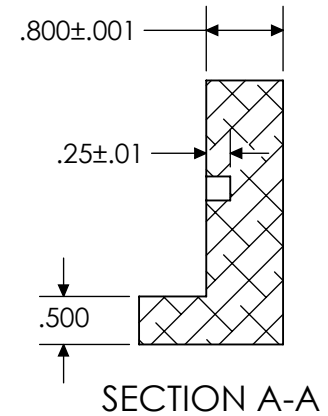
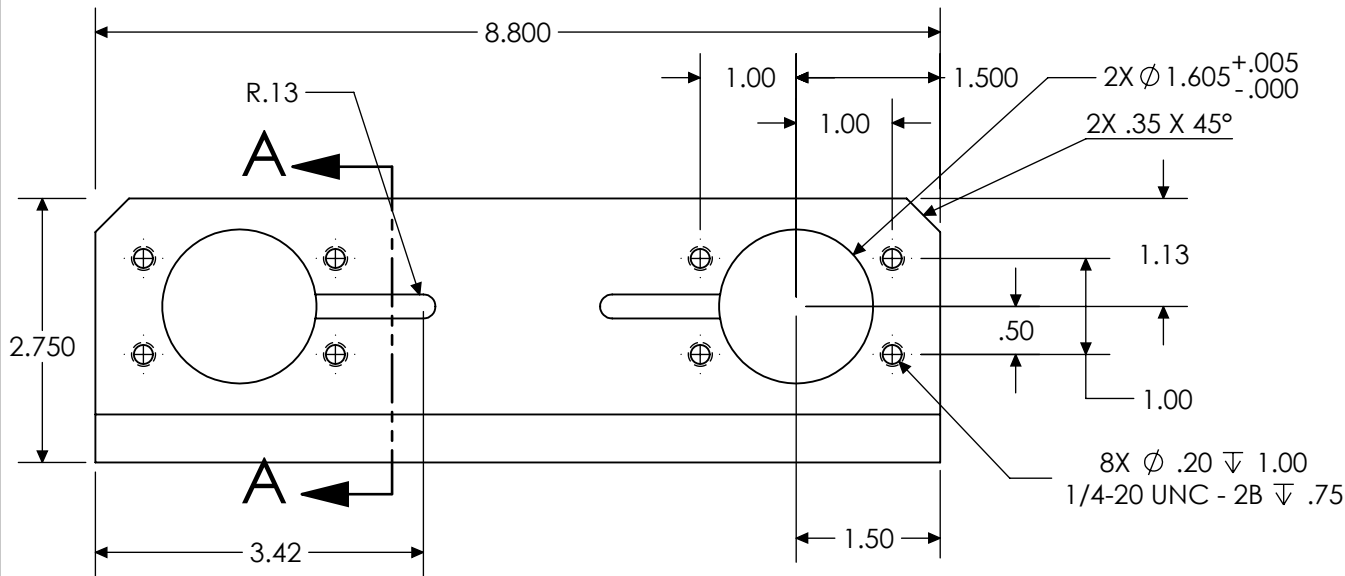
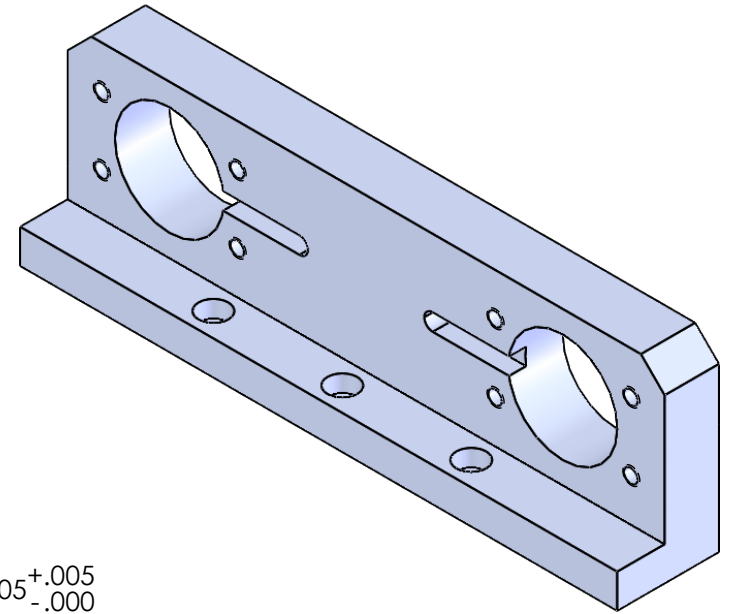
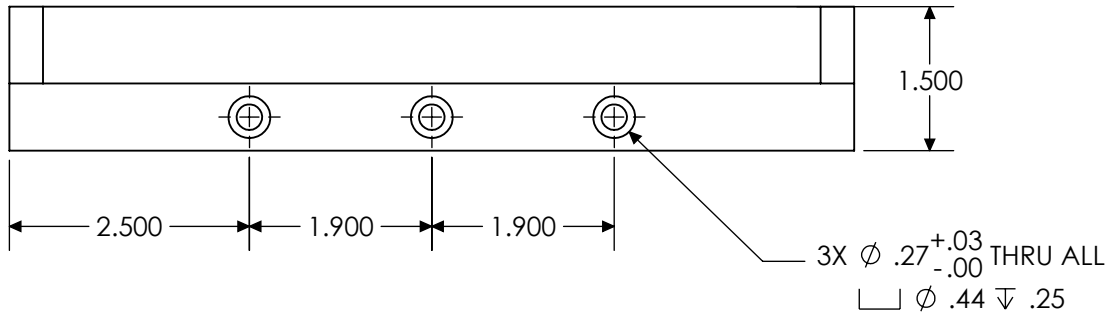
WEIGHT: 0.13

SHEET 1 OF 1



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| | | DRAWN | Sam Weston | 11/21/18 | TITLE: | Back Piece | | |
| | | CHECKED | | | | | | |
| | | ENG APPR. | | | | | | |
| | | | MFG APPR. | | | SIZE | DWG. NO. | REV |
| | COMMENTS: | MATERIAL | | | A | SKW0005 (back piece) | | A |
| | | Aluminum 6061 T6 | | | | | | |
| NEXT ASSY | DO NOT SCALE DRAWING | - | | | | SCALE: 1:2 | WEIGHT: 1.33 | SHEET 1 OF 1 |



Left and right side of front face are symmetrical

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ANGULAR: MACH ± 5 BEND ± 1
TWO PLACE DECIMAL $\pm 0.03"$
THREE PLACE DECIMAL $\pm 0.005"$
INTERPRET GEOMETRIC
TOLERANCING PER:
COMMENTS:

NEXT ASSY

DO NOT SCALE DRAWING

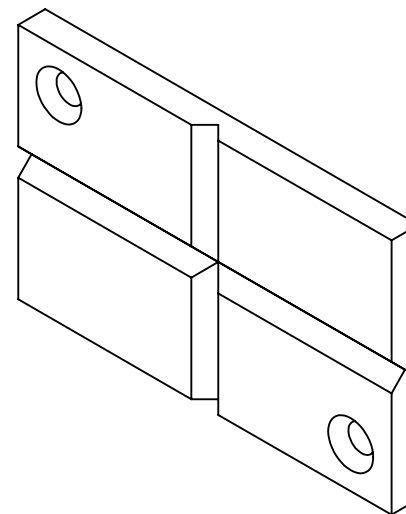
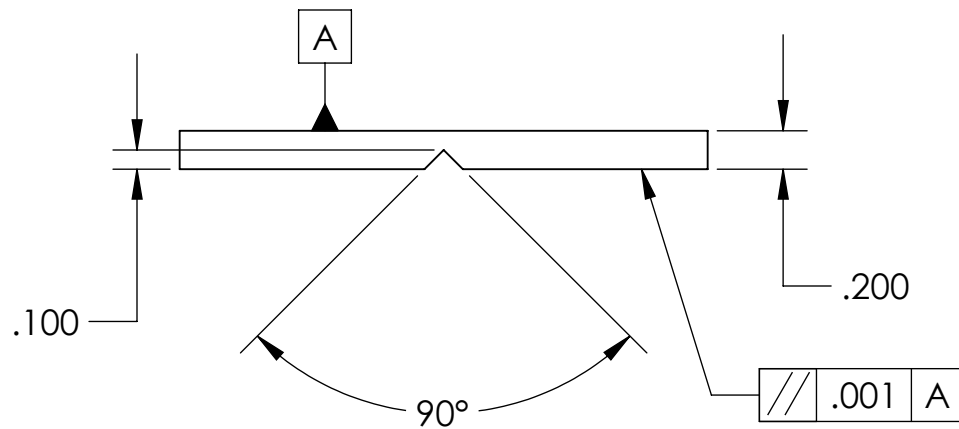
| | NAME | DATE |
|-----------|--------------|----------|
| DRAWN | Sam Weston | 11/21/18 |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| MATERIAL | 6061-T6 (SS) | |

MSU M.& I.E. DEPT.

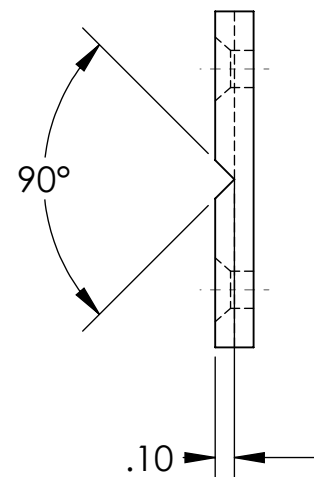
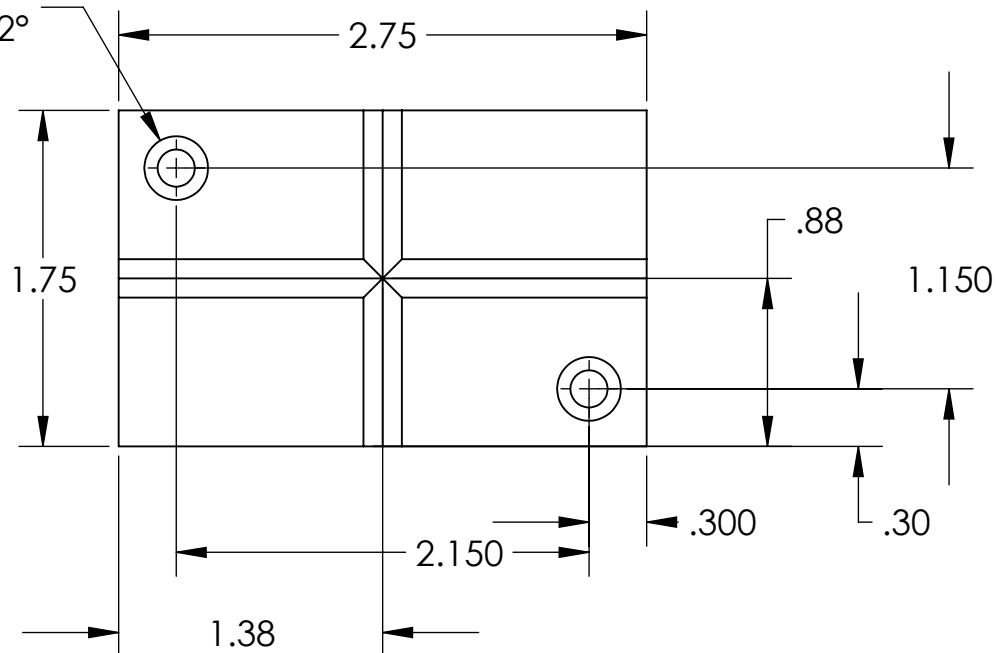
TITLE:
Magnet Holder

| SIZE | DWG. NO. | REV |
|------|-------------------------|-----|
| A | SKW0006 (magnet holder) | |

| SCALE: 1:2 | WEIGHT: 1.81 | SHEET 1 OF 1 |
|------------|--------------|--------------|
| | | |



2X $\phi .19 \pm .80$
 $\checkmark \phi .33 \times 82^\circ$



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 TWO PLACE DECIMAL $\pm 0.03"$
 THREE PLACE DECIMAL $\pm 0.005"$

INTERPRET GEOMETRIC
 TOLERANCING PER:

COMMENTS:

NEXT ASSY

DO NOT SCALE DRAWING

| | NAME | DATE |
|-----------|------------|----------|
| DRAWN | Sam Weston | 11/21/18 |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| MATERIAL | Brass | |
| - | | |

MSU M.& I.E. DEPT.

TITLE:

Jaw Plates

SIZE
A

DWG. NO.

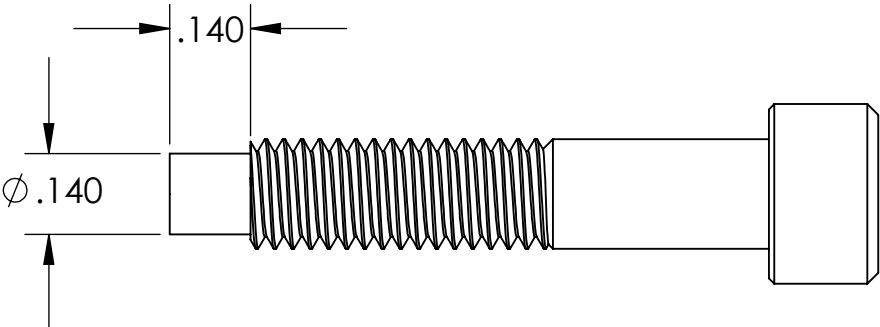
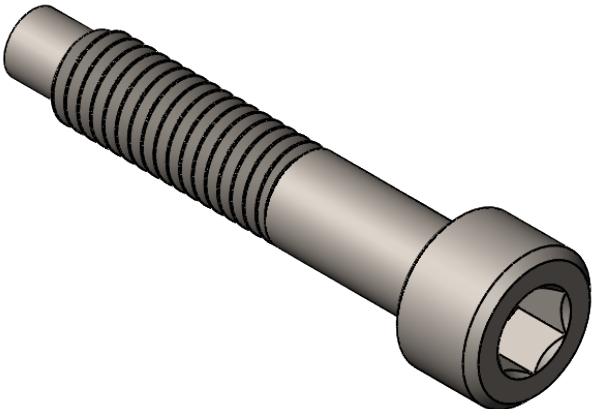
SKW0010 (jaw plate)

REV
A

SCALE: 2:1

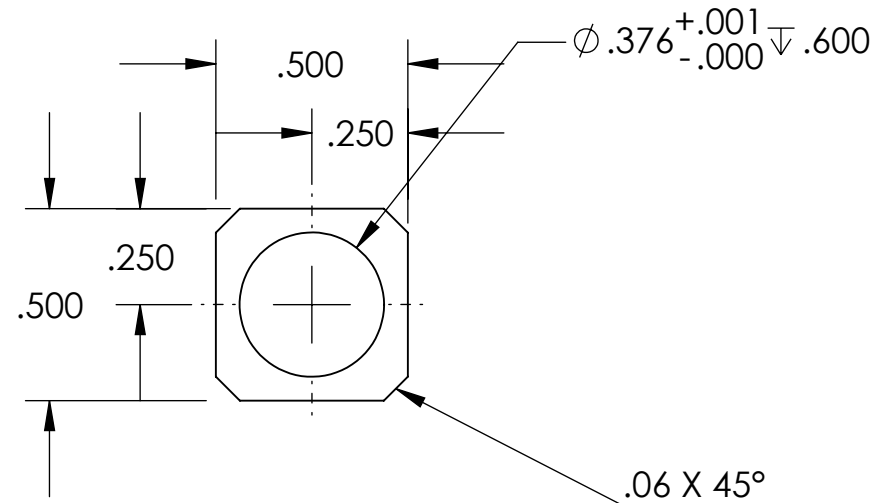
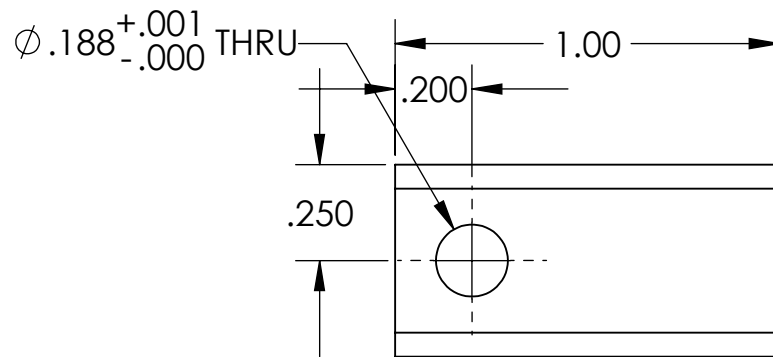
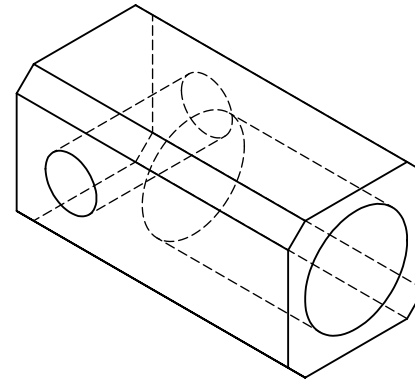
WEIGHT: 0.28

SHEET 1 OF 1



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| | | | | | | | | |
|-----------|--|-------------|------|---------|-----------------------|---------------------|--|-----------------|
| | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16" ANGULAR: MACH± 5 BEND ± 1 TWO PLACE DECIMAL ± 0.03" THREE PLACE DECIMAL ± 0.005" INTERPRET GEOMETRIC TOLERANCING PER: | | NAME | DATE | MSU M.& I.E. DEPT. | | | |
| | | DRAWN | SW | 12/6/18 | | | | |
| | | CHECKED | | | TITLE: Retainer Screw | | | |
| | | ENG APPR. | | | | | | |
| | | MFG APPR. | | | | | | |
| | COMMENTS: | MATERIAL | | | SIZE A | DWG. NO. SKW0012 | | REV A |
| | | Alloy Steel | | | | | | |
| NEXT ASSY | DO NOT SCALE DRAWING | | | | SCALE: 2:1 | WEIGHT: | | SHEET 1 OF 1 |



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TWO PLACE DECIMAL $\pm 0.03"$
THREE PLACE DECIMAL $\pm 0.005"$

INTERPRET GEOMETRIC
TOLERANCING PER:

COMMENTS:

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

Sam Weston

11/21/18

CHECKED

ENG APPR.

MFG APPR.

MATERIAL

6061-T6 (SS)

MSU M.& I.E. DEPT.

TITLE:

Handle End Cap

SIZE

A

DWG. NO.

SKW0014 (handle end cap)

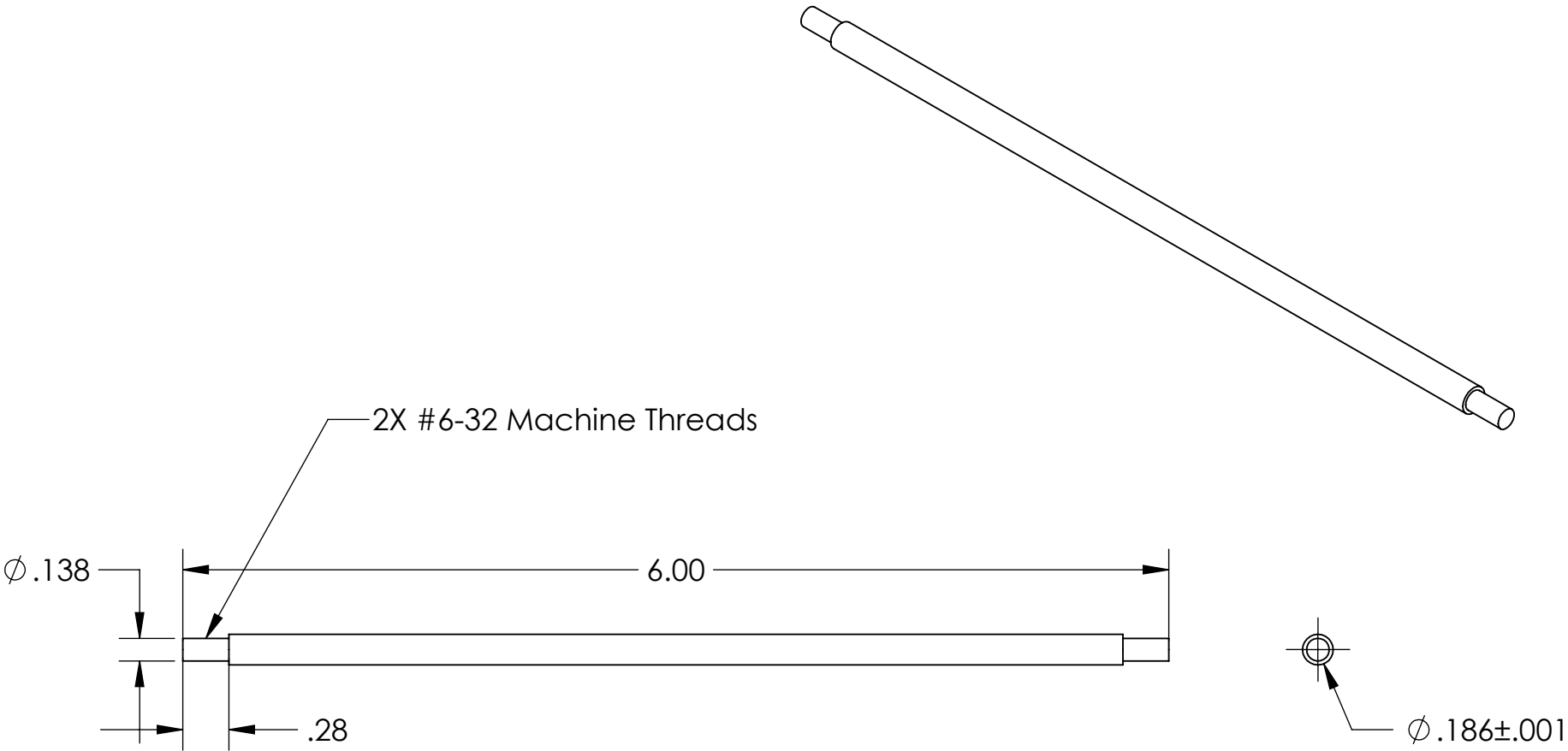
REV

A

SCALE: 2:1

WEIGHT: 0.02

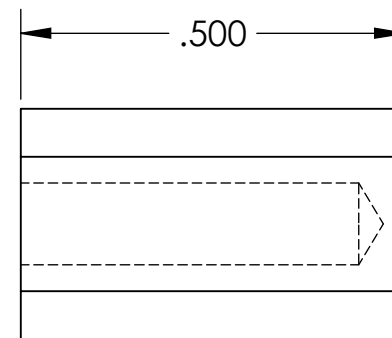
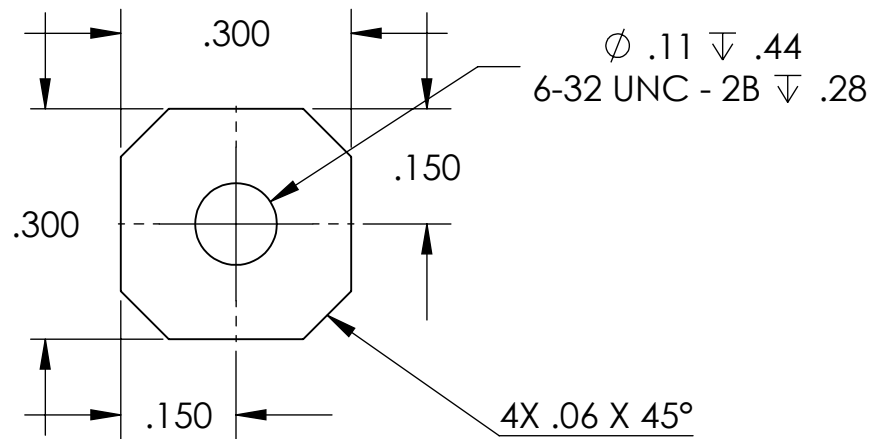
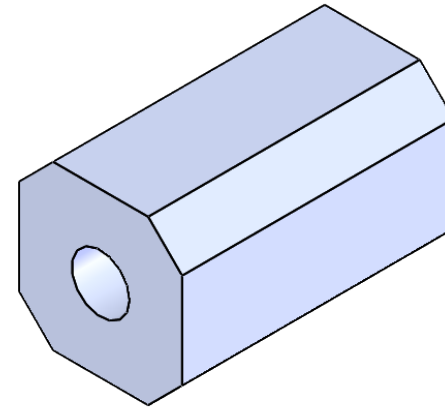
SHEET 1 OF 1



Left and right side are symmetric

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| | | | | | | | | |
|-----------|--|--|------------|----------|--------------------------------------|-----------------------|--|----------|
| | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16" ANGULAR: MACH ± 5 BEND ± 1 TWO PLACE DECIMAL ± 0.03" THREE PLACE DECIMAL ± 0.005" INTERPRET GEOMETRIC TOLERANCING PER: COMMENTS: | | NAME | DATE | MSU M.& I.E. DEPT. | | | |
| | | DRAWN | Sam Weston | 11/21/18 | TITLE: Vise Handle | | | |
| | | CHECKED | | | | | | |
| | | ENG APPR. | | | SIZE | DWG. NO. | | REV |
| | | MFG APPR. | | | A | SKW0016 (vise handle) | | A |
| | MATERIAL | | | | | | | |
| | | AISI 316 Annealed Stainless Steel Bar (SS) | | | SCALE: 1:2 WEIGHT: 0.05 SHEET 1 OF 1 | | | |
| | | - | | | | | | |
| NEXT ASSY | DO NOT SCALE DRAWING | | | | | | | |

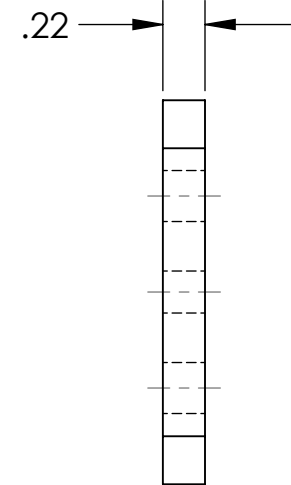
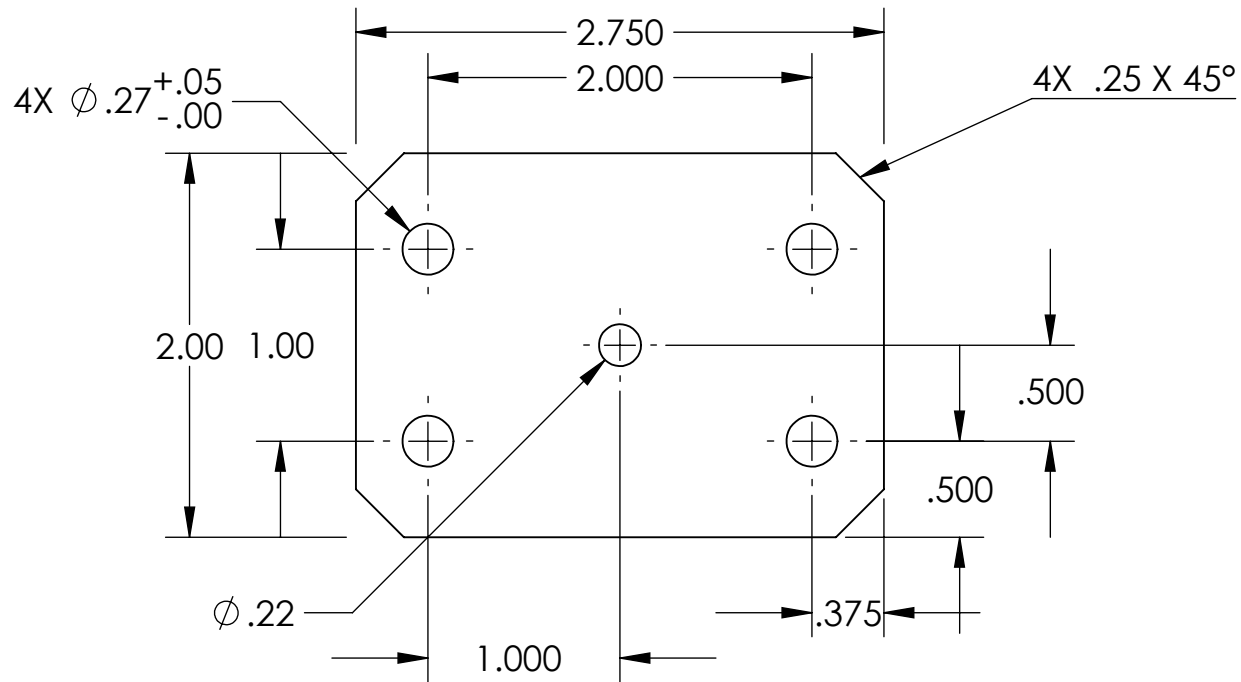
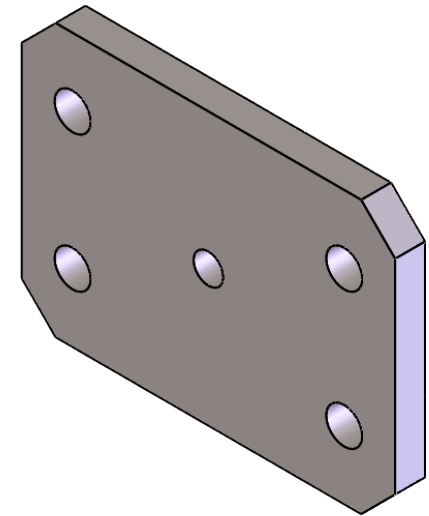


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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/16"$
ANGULAR: MACH ± 5 BEND ± 1
TWO PLACE DECIMAL $\pm 0.03"$
THREE PLACE DECIMAL $\pm 0.005"$
INTERPRET GEOMETRIC
TOLERANCING PER:
COMMENTS:
DO NOT SCALE DRAWING

| | NAME | DATE |
|-----------|--------------|----------|
| DRAWN | Sam Weston | 11/21/18 |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| MATERIAL | 6061-T6 (SS) | |

| MSU M.& I.E. DEPT. | | |
|------------------------|--|-----------------|
| TITLE: Vise Handle End | | |
| SIZE A | DWG. NO. SKW0017 (vise handle ends) | REV A |
| SCALE: 4:1 | WEIGHT: 0.00 | SHEET 1 OF 1 |



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| | | | | | | | | |
|-----------|--|---|------------|----------|--|------------------|--|--|
| | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16" ANGULAR: MACH ± 5 BEND ± 1 TWO PLACE DECIMAL ± 0.03" THREE PLACE DECIMAL ± 0.005" INTERPRET GEOMETRIC TOLERANCING PER: COMMENTS: | | NAME | DATE | MSU M.& I.E. DEPT. | | | |
| | | DRAWN | Sam Weston | 11/21/18 | TITLE: Magnet Top Plate | | | |
| | | CHECKED | | | | | | |
| | | ENG APPR. | | | | | | |
| | | | MFG APPR. | | | SIZE A | DWG. NO. SKW0018 (magnet top plate) | |
| | | MATERIAL 1023 Carbon Steel Sheet (SS) - | | | SCALE: 2:1 WEIGHT: 0.32 SHEET 1 OF 1 | | | |
| NEXT ASSY | DO NOT SCALE DRAWING | | | | | | | |