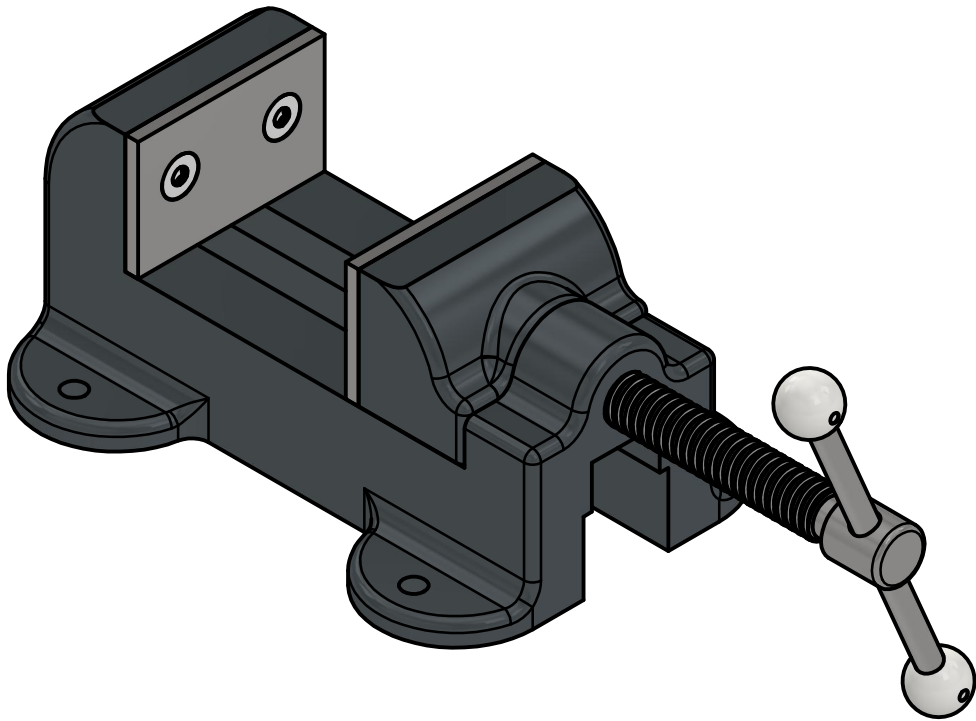




MACHINE VISE  
SCALE 1 / 2

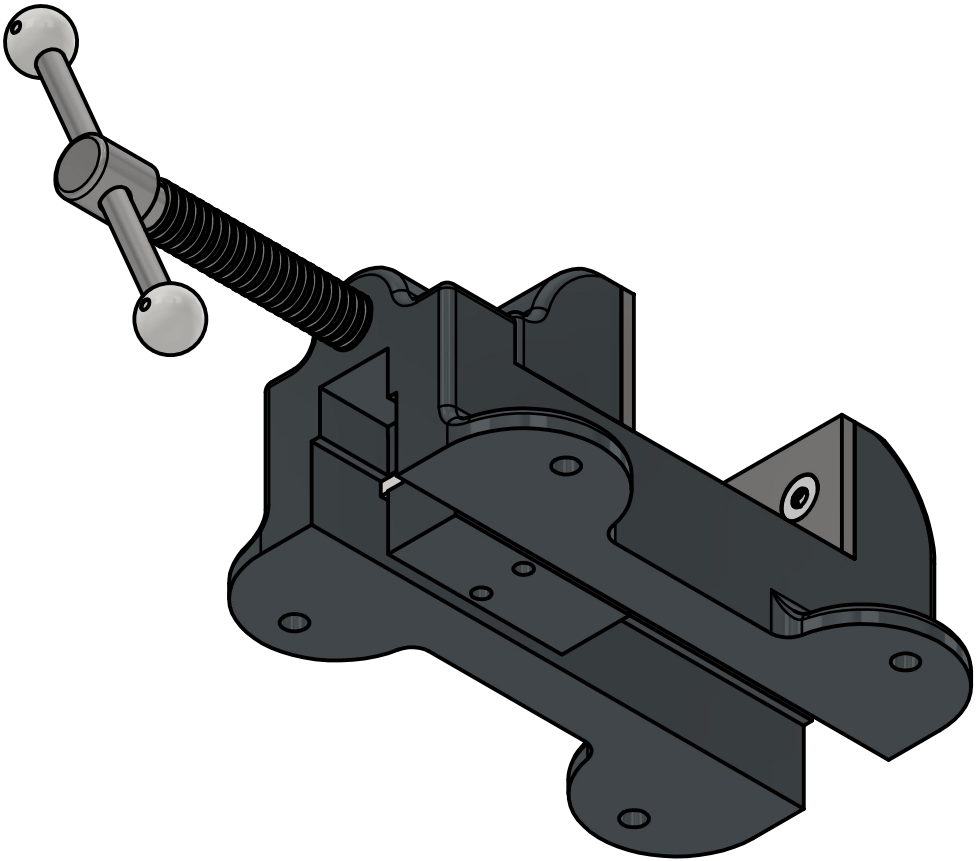
LEGEND:

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

GENERAL NOTES:

UNLESS OTHERWISE SPECIFIED FILLETS AND ROUNDS R1/8

| PARTS LIST |     |                      |                   |                                                      |
|------------|-----|----------------------|-------------------|------------------------------------------------------|
| ITEM       | QTY | PART NUMBER          | MATERIAL          | DESCRIPTION                                          |
| 1          | 1   | BASE                 | CAST IRON         |                                                      |
| 2          | 1   | SLIDING JAW          | CAST IRON         |                                                      |
| 3          | 2   | JAW PLATE            | SAE 3140          |                                                      |
| 4          | 1   | WISE SCREW           | SAE 3140          |                                                      |
| 5          | 1   | COLLAR               | SAE 1020          |                                                      |
| 6          | 1   | SPECIAL KEY          | SAE 1020          |                                                      |
| 7          | 1   | HANDLE ROD           | COLD-ROLLED STEEL |                                                      |
| 8          | 2   | HANDLE BALL          | SAE 1020          |                                                      |
| 9          | 2   | SLIDE KEY            | SAE 1020          |                                                      |
| 10         | 2   | SET SCREW            | SAE 1016          |                                                      |
| 11         | 4   | TORX FLAT HEAD SCREW | STAINLESS STEEL   | MCMaster-CARR<br>94356A129, 1/4" 20UNC,<br>3/4" LONG |
| 12         | 2   | TAPER PIN            | STAINLESS STEEL   | MCMaster-CARR<br>90681A101, 3/4" LONG                |



ALTERNATIVE VIEW  
SCALE 1 / 2



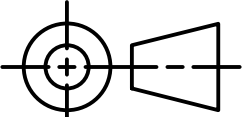
DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

WWW.DDGT.NET

BRIGID HEDLUND  
Drafter/Designer

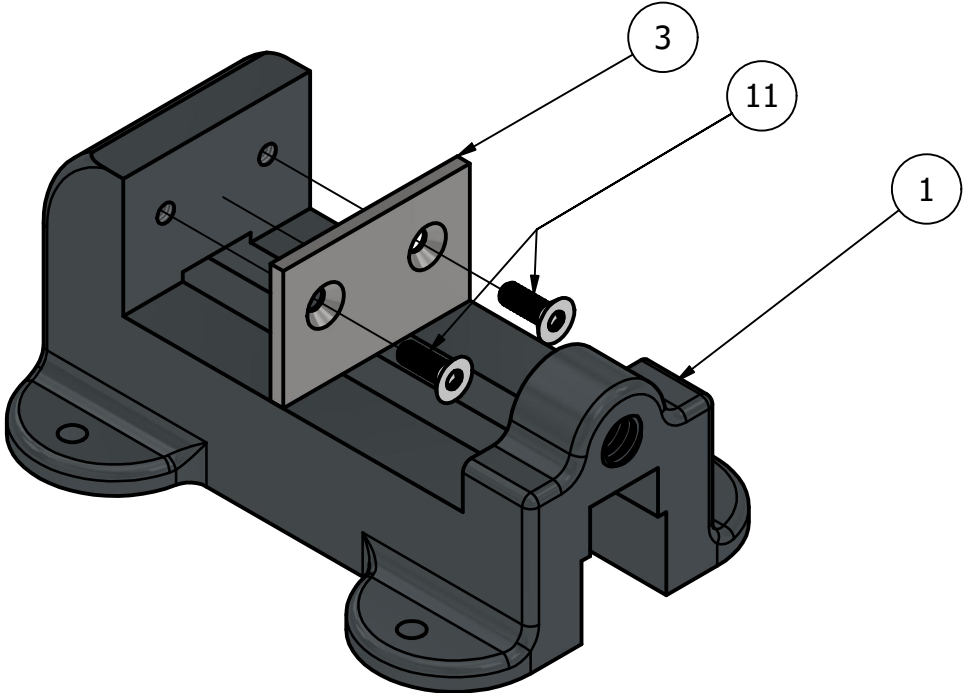
707-888-3319  
Napa, CA  
brigid.hedlund@gmail.com

HEDLUND  
Digital Drafting & Design



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

|                        |              |
|------------------------|--------------|
| CLASS:                 | DDGT240      |
| ASSIGNMENT #:          | 38           |
| INVENTOR DRAWING NAME: | MACHINE VISE |
| FIG #:                 | 14-71        |
| MANAGER:               | G. STROMMEN  |
| DRAFTER:               | B. HEDLUND   |
| DATE:                  | 10/7/2025    |
| SCALE:                 | AS NOTED     |
| PAGE #:                | 1 OF 7       |

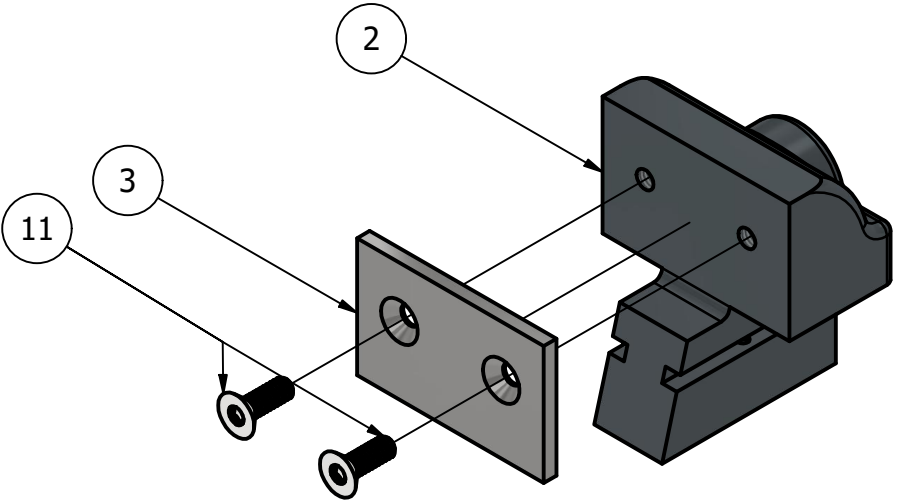


EXPLODED VIEW 1  
SCALE 1 / 2

**LEGEND:**

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

| PARTS LIST |     |                         |
|------------|-----|-------------------------|
| ITEM       | QTY | PART NUMBER             |
| 1          | 1   | BASE                    |
| 2          | 1   | SLIDING JAW             |
| 3          | 2   | JAW PLATE               |
| 4          | 1   | WISE SCREW              |
| 5          | 1   | COLLAR                  |
| 6          | 1   | SPECIAL KEY             |
| 7          | 1   | HANDLE ROD              |
| 8          | 2   | HANDLE BALL             |
| 9          | 2   | SLIDE KEY               |
| 10         | 2   | SET SCREW               |
| 11         | 4   | TORX FLAT HEAD<br>SCREW |
| 12         | 2   | TAPER PIN               |



EXPLODED VIEW 2  
SCALE 1 / 2

**GENERAL NOTES:**

UNLESS OTHERWISE SPECIFIED FILLETS AND ROUNDS R1/8



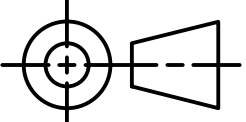
DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

WWW.DDGT.NET



**HEDLUND**  
Digital Drafting & Design

BRIGID HEDLUND  
Drafter/Designer  
707-888-3319  
Napa, CA  
brigid.hedlund@gmail.com



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

CLASS: DDGT240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:  
MACHINE VISE

FIG #: 14-71

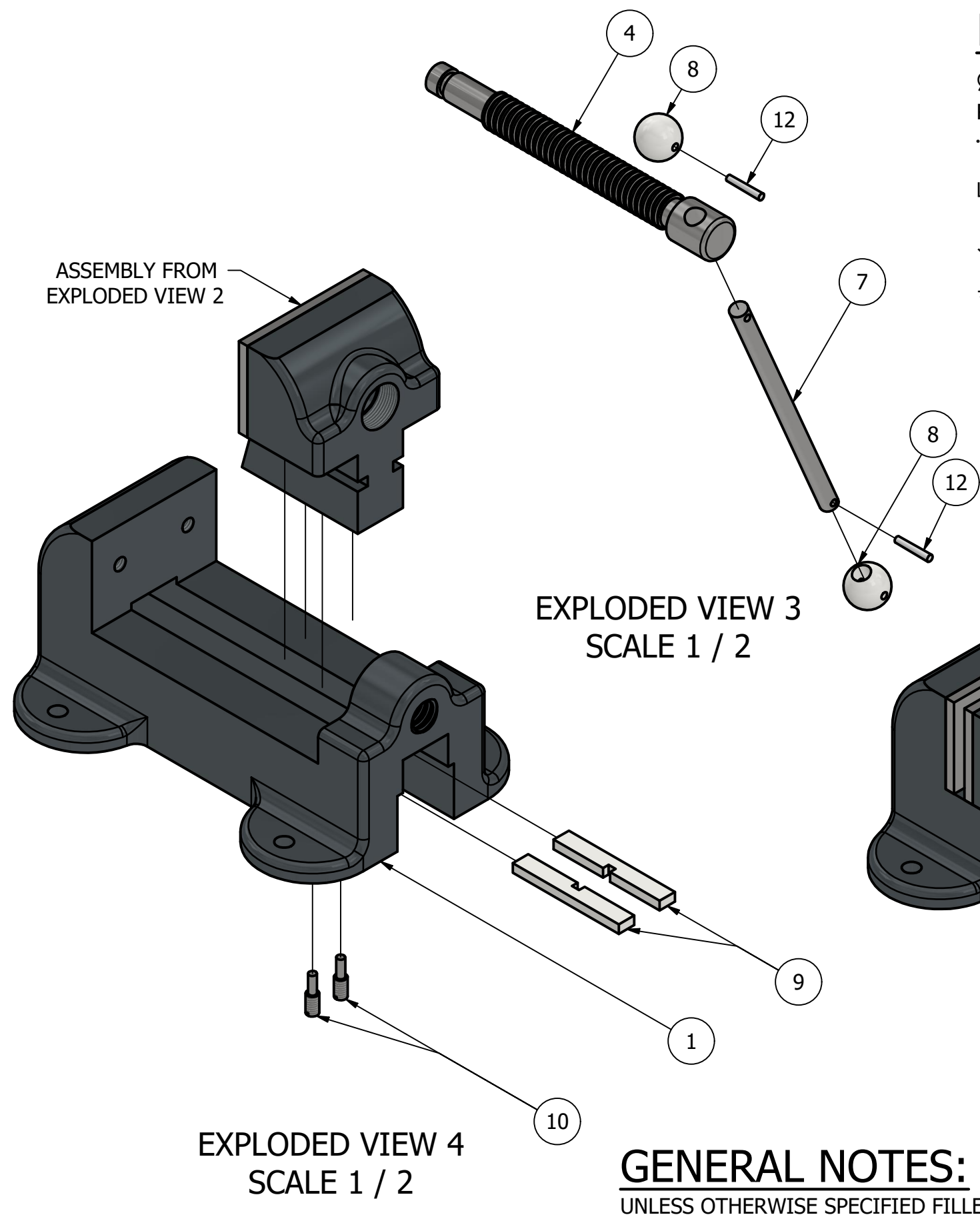
MANAGER: G. STROMMEN

DRAFTER: B. HEDLUND

DATE: 10/7/2025

SCALE: AS NOTED

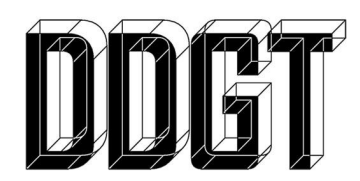
PAGE #: 2 OF 7



**LEGEND:**

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

| PARTS LIST |     |                      |
|------------|-----|----------------------|
| ITEM       | QTY | PART NUMBER          |
| 1          | 1   | BASE                 |
| 2          | 1   | SLIDING JAW          |
| 3          | 2   | JAW PLATE            |
| 4          | 1   | WISE SCREW           |
| 5          | 1   | COLLAR               |
| 6          | 1   | SPECIAL KEY          |
| 7          | 1   | HANDLE ROD           |
| 8          | 2   | HANDLE BALL          |
| 9          | 2   | SLIDE KEY            |
| 10         | 2   | SET SCREW            |
| 11         | 4   | TORX FLAT HEAD SCREW |
| 12         | 2   | TAPER PIN            |

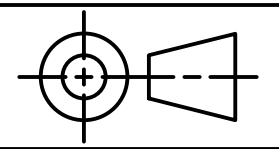


DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

WWW.DDGT.NET

**HEDLUND**  
Digital Drafting & Design

BRIGID HEDLUND  
Drafter/Designer  
707-888-3319  
Napa, CA  
brigid.hedlund@gmail.com



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

CLASS: DDGT240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:  
**MACHINE VISE**

FIG #: 14-71

MANAGER: G. STROMMEN

DRAFTER: B. HEDLUND

DATE: 10/7/2025

SCALE: AS NOTED

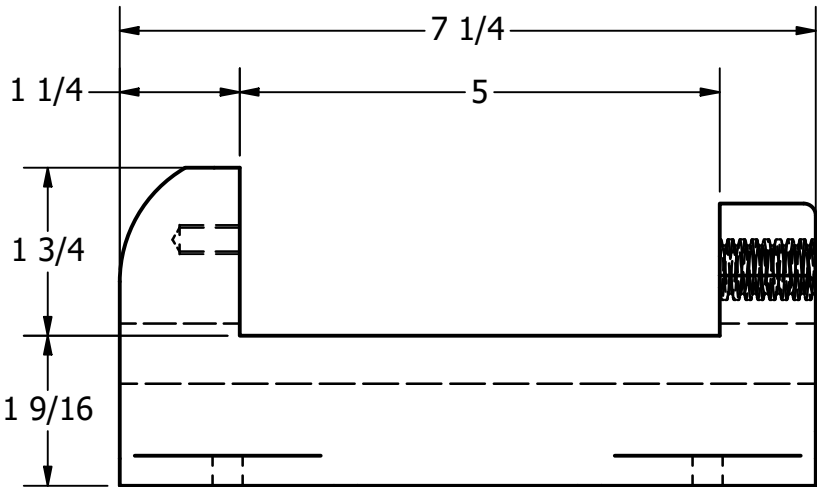
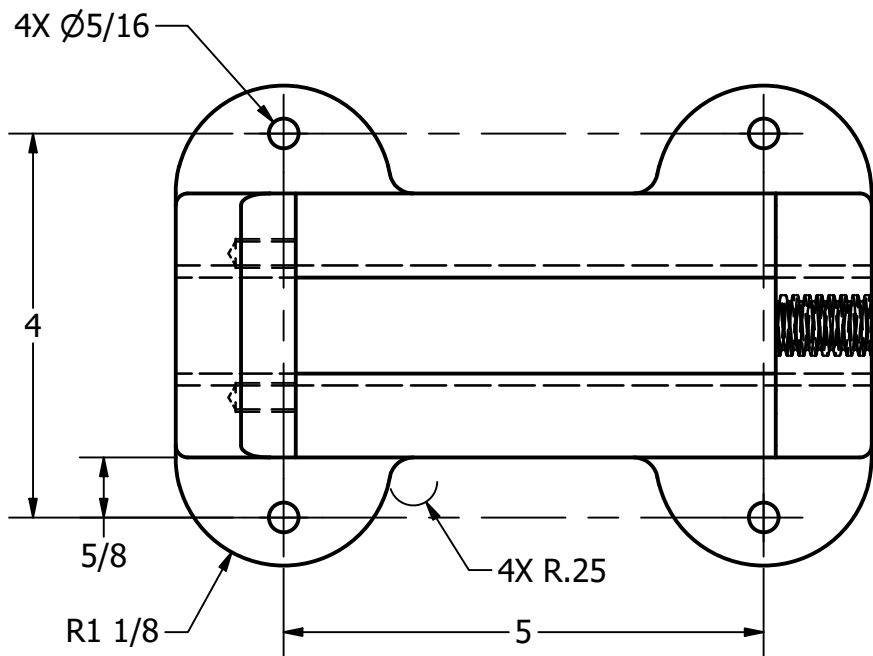
PAGE #: 3 OF 7

**GENERAL NOTES:**

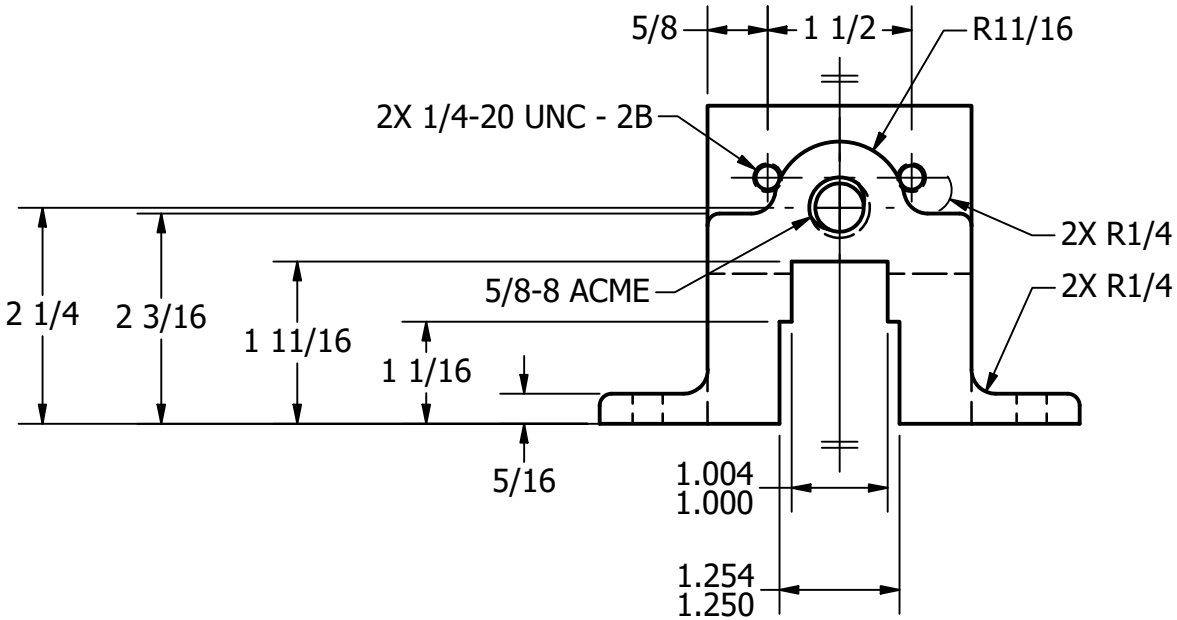
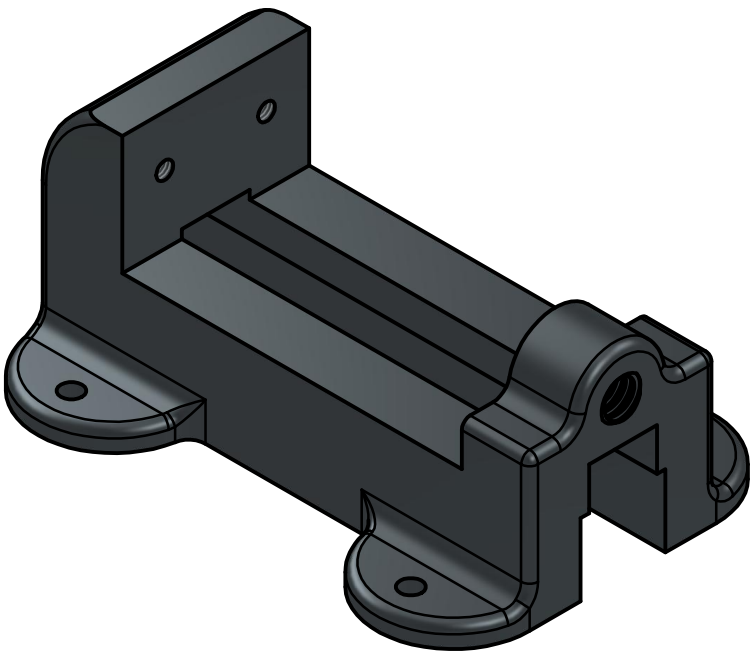
UNLESS OTHERWISE SPECIFIED FILLETS AND ROUNDS R1/8

GENERAL NOTES:

UNLESS OTHERWISE SPECIFIED FILLETS AND ROUNDS R1/8



BASE  
SCALE 1 / 2



LEGEND:

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

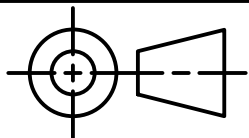
| PARTS LIST |     |                      |
|------------|-----|----------------------|
| ITEM       | QTY | PART NUMBER          |
| 1          | 1   | BASE                 |
| 2          | 1   | SLIDING JAW          |
| 3          | 2   | JAW PLATE            |
| 4          | 1   | WISE SCREW           |
| 5          | 1   | COLLAR               |
| 6          | 1   | SPECIAL KEY          |
| 7          | 1   | HANDLE ROD           |
| 8          | 2   | HANDLE BALL          |
| 9          | 2   | SLIDE KEY            |
| 10         | 2   | SET SCREW            |
| 11         | 4   | TORX FLAT HEAD SCREW |
| 12         | 2   | TAPER PIN            |



DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

WWW.DDGT.NET

BRIGID HEDLUND  
Drafter/Designer  
707-888-3319  
Napa, CA  
brigid.hedlund@gmail.com



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

CLASS: DDGT240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:  
MACHINE VISE

FIG #: 14-71

MANAGER: G. STROMMEN

DRAFTER: B. HEDLUND

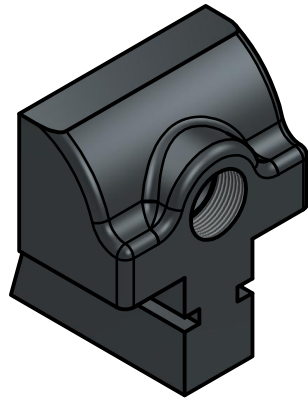
DATE: 10/7/2025

SCALE: AS NOTED

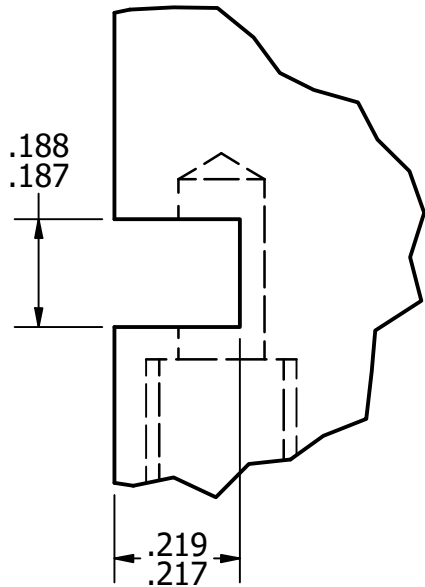
PAGE #: 4 OF 7

LEGEND:

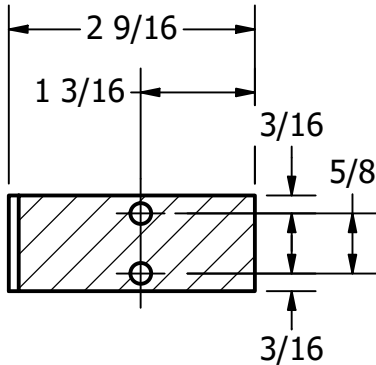
- Ø DIAMETER
- R RADIUS
- ° DEGREES
- COUNTERBORE/  
SPOTFACE
- COUNTERSINK
- DEPTH



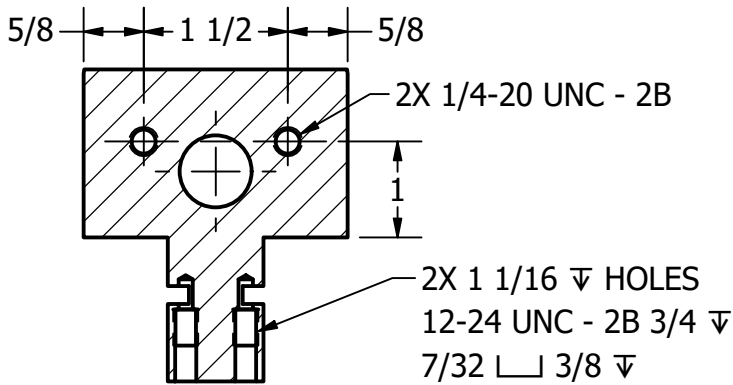
SLIDING JAW  
SCALE 1 / 2



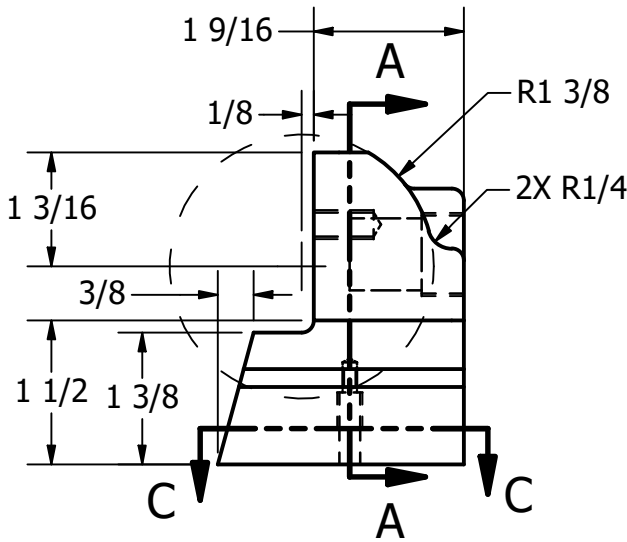
DETAIL B  
SCALE 3 : 1



SECTION C-C  
SCALE 1 / 2



SECTION A-A  
SCALE 1 / 2



SLIDING JAW  
SCALE 1 / 2

| PARTS LIST |     |                      |
|------------|-----|----------------------|
| ITEM       | QTY | PART NUMBER          |
| 1          | 1   | BASE                 |
| 2          | 1   | SLIDING JAW          |
| 3          | 2   | JAW PLATE            |
| 4          | 1   | WISE SCREW           |
| 5          | 1   | COLLAR               |
| 6          | 1   | SPECIAL KEY          |
| 7          | 1   | HANDLE ROD           |
| 8          | 2   | HANDLE BALL          |
| 9          | 2   | SLIDE KEY            |
| 10         | 2   | SET SCREW            |
| 11         | 4   | TORX FLAT HEAD SCREW |
| 12         | 2   | TAPER PIN            |

GENERAL NOTES:

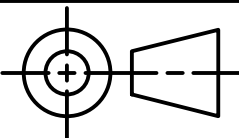
UNLESS OTHERWISE SPECIFIED FILLETS AND ROUNDS R1/8



DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

WWW.DDGT.NET

BRIGID HEDLUND  
Drafter/Designer  
707-888-3319  
Napa, CA  
brigid.hedlund@gmail.com



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

CLASS: DDGT240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:  
MACHINE VISE

FIG #: 14-71

MANAGER: G. STROMMEN

DRAFTER: B. HEDLUND

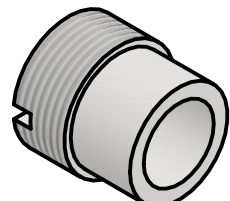
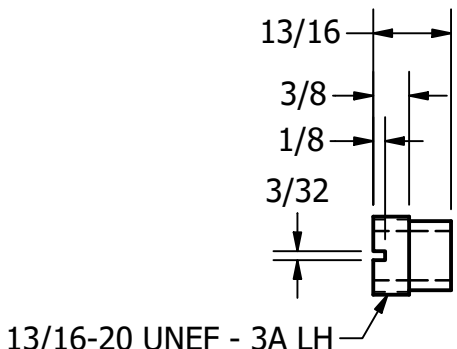
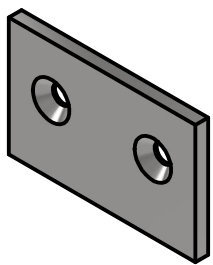
DATE: 10/7/2025

SCALE: AS NOTED

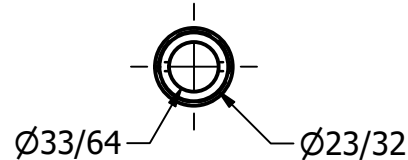
PAGE #: 5 OF 7

LEGEND:

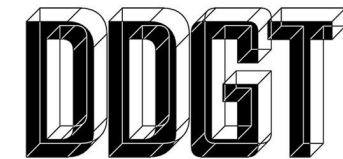
- Ø DIAMETER
- R RADIUS
- ° DEGREES
- COUNTERBORE/  
SPOTFACE
- COUNTERSINK
- DEPTH



COLLAR  
SCALE 1 : 1



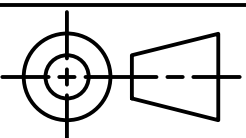
| PARTS LIST |     |                         |
|------------|-----|-------------------------|
| ITEM       | QTY | PART NUMBER             |
| 1          | 1   | BASE                    |
| 2          | 1   | SLIDING JAW             |
| 3          | 2   | JAW PLATE               |
| 4          | 1   | WISE SCREW              |
| 5          | 1   | COLLAR                  |
| 6          | 1   | SPECIAL KEY             |
| 7          | 1   | HANDLE ROD              |
| 8          | 2   | HANDLE BALL             |
| 9          | 2   | SLIDE KEY               |
| 10         | 2   | SET SCREW               |
| 11         | 4   | TORX FLAT HEAD<br>SCREW |
| 12         | 2   | TAPER PIN               |



DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

WWW.DDGT.NET

BRIGID HEDLUND  
Drafter/Designer  
707-888-3319  
Napa, CA  
brigid.hedlund@gmail.com



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

CLASS: DDGT240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:  
MACHINE VISE

FIG #: 14-71

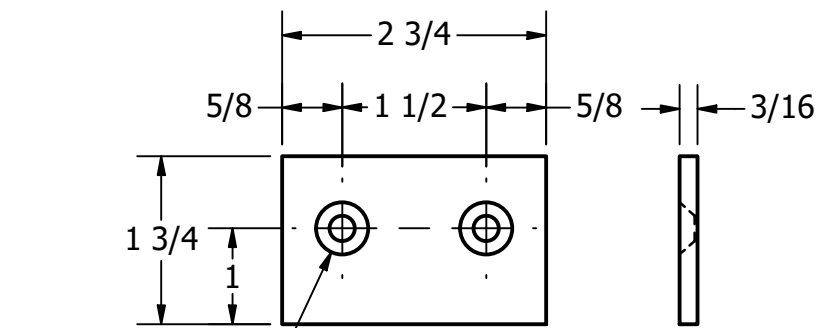
MANAGER: G. STROMMEN

DRAFTER: B. HEDLUND

DATE: 10/7/2025

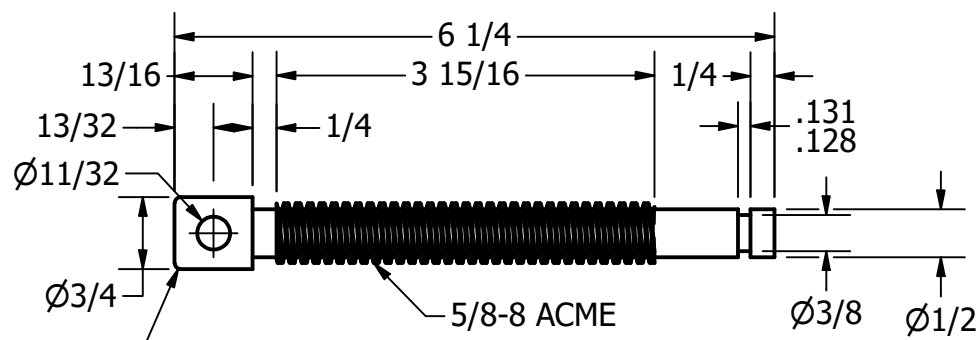
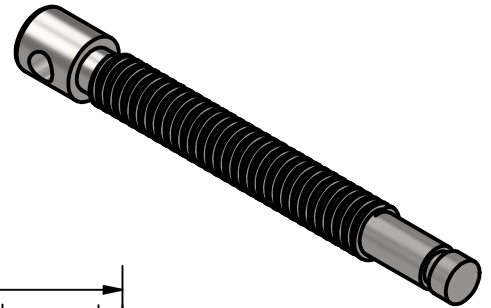
SCALE: AS NOTED

PAGE #: 6 OF 7

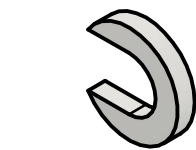


2X Ø1/4 THRU  
Ø9/16 X 82°  
JAW PLATE  
SCALE 1 / 2

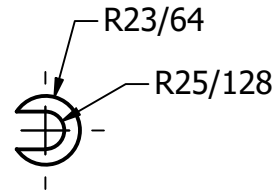
COLLAR  
SCALE 1 / 2



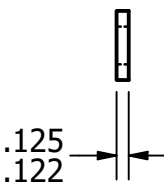
WISE SCREW  
SCALE 1 / 2



SPECIAL KEY  
SCALE 1 : 1



SPECIAL KEY  
SCALE 1 / 2



GENERAL NOTES:

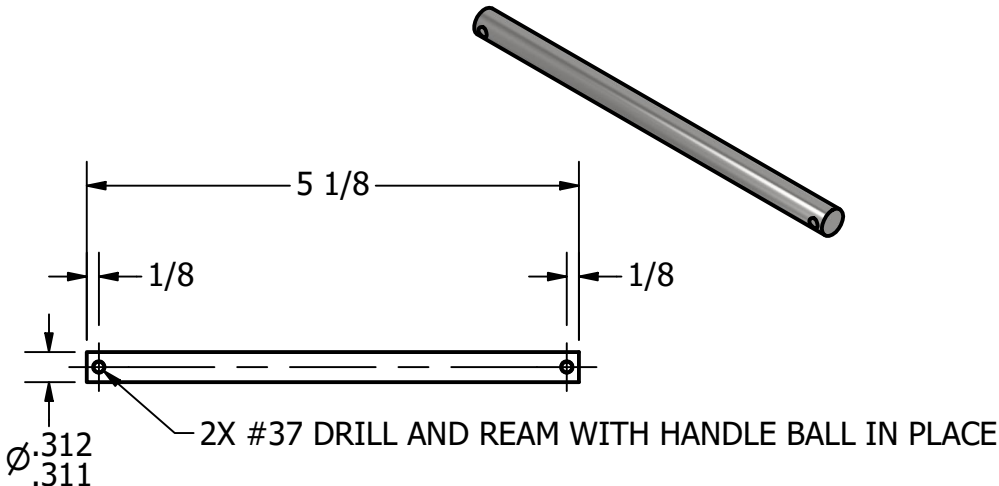
UNLESS OTHERWISE SPECIFIED FILLETS AND ROUNDS R1/8

GENERAL NOTES:

UNLESS OTHERWISE SPECIFIED FILLETS AND ROUNDS R1/8

LEGEND:

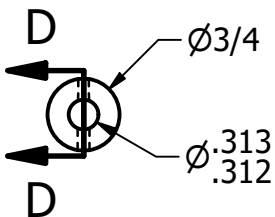
- Ø DIAMETER
- R RADIUS
- ° DEGREES
- COUNTERBORE/ SPOTFACE
- COUNTERSINK
- DEPTH



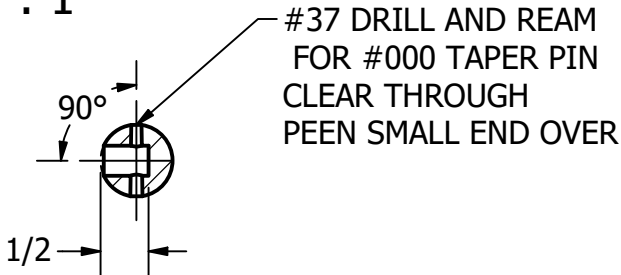
HANDLE ROD  
SCALE 1 / 2



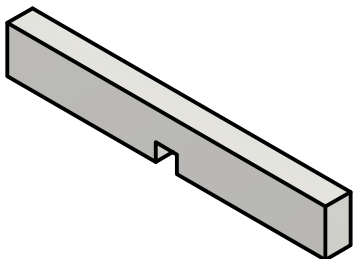
HANDLE BALL  
SCALE 1 : 1



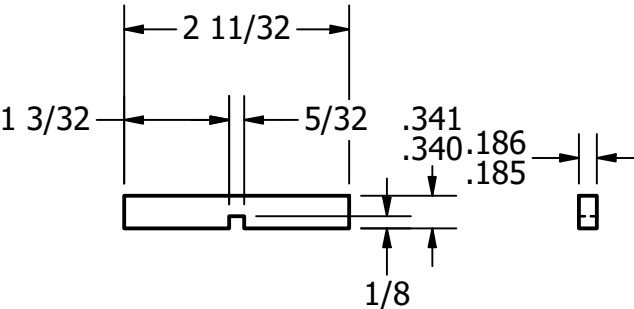
HANDLE BALL  
SCALE 1 / 2



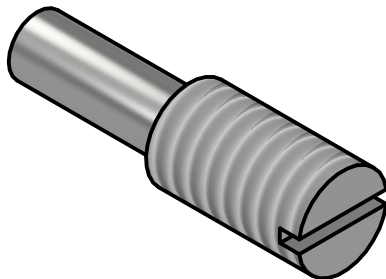
SECTION D-D  
SCALE 1 / 2



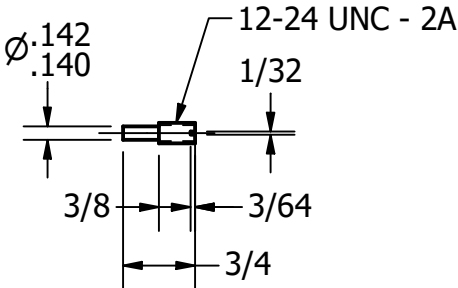
SLIDE KEY  
SCALE 1 : 1



SLIDE KEY  
SCALE 1 / 2

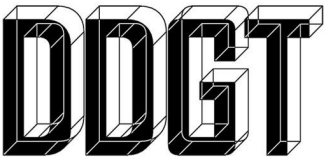


SET SCREW  
SCALE 3 : 1



SET SCREW  
SCALE 1 / 2

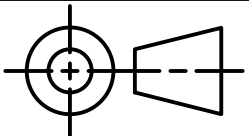
| PARTS LIST |     |                      |
|------------|-----|----------------------|
| ITEM       | QTY | PART NUMBER          |
| 1          | 1   | BASE                 |
| 2          | 1   | SLIDING JAW          |
| 3          | 2   | JAW PLATE            |
| 4          | 1   | WISE SCREW           |
| 5          | 1   | COLLAR               |
| 6          | 1   | SPECIAL KEY          |
| 7          | 1   | HANDLE ROD           |
| 8          | 2   | HANDLE BALL          |
| 9          | 2   | SLIDE KEY            |
| 10         | 2   | SET SCREW            |
| 11         | 4   | TORX FLAT HEAD SCREW |
| 12         | 2   | TAPER PIN            |



DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

WWW.DDGT.NET

BRIGID HEDLUND  
Drafter/Designer  
707-888-3319  
Napa, CA  
brigid.hedlund@gmail.com



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

CLASS: DDGT240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:  
MACHINE VISE

FIG #: 14-71

MANAGER: G. STROMMEN

DRAFTER: B. HEDLUND

DATE: 10/7/2025

SCALE: AS NOTED

PAGE #: 7 OF 7