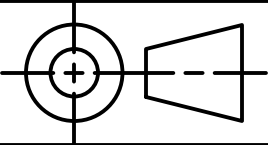


PARTS LIST				
ITEM	QTY	PART NUMBER	MATERIAL	DESCRIPTION
1	1	BASE	CAST IRON	
2	1	SLIDING JAW	SAE 1020	
3	2	JAW PLATE	SAE 3140	
4	1	WISE SCREW	SAE 3140	
5	1	COLLAR	SAE 1020	
6	1	SPECIAL KEY	SAE 1020	
7	1	HANDLE ROD	COLD ROLLED STEEL	
8	2	HANDLE BALL	SAE 1020	
9	2	SLIDE KEY	SAE 1020	
10	2	SET SCREW	SAE 1016	
11	4	HEX DRIVE FLATHEAD SCREW	STAINLESS STEEL	MCMaster CARR 92210A540 1/4-20UNC, 3/4" LONG
12	2	TAPER PIN	STAINLESS STEEL	MCMaster CARR 90681A101 3/4" LONG



DIGITAL DESIGN
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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 240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:
MACHINE VISE

FIG #: 14-71

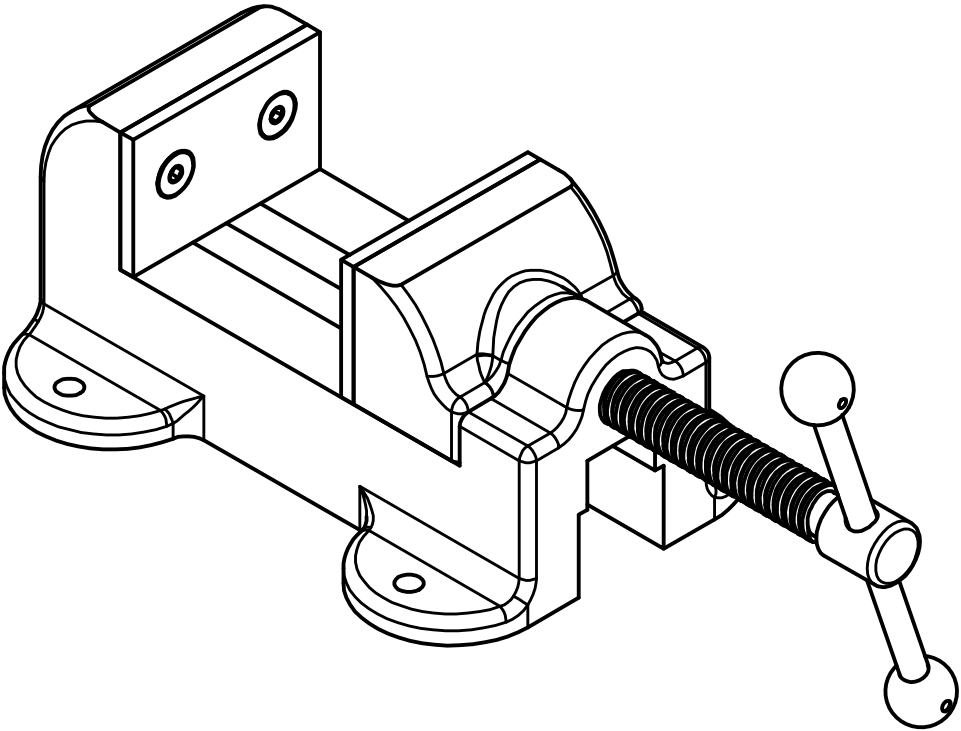
MANAGER: G. STROMMEN

DRAFTER: K. MILLER

DATE: 10/2/2025

SCALE: AS NOTED

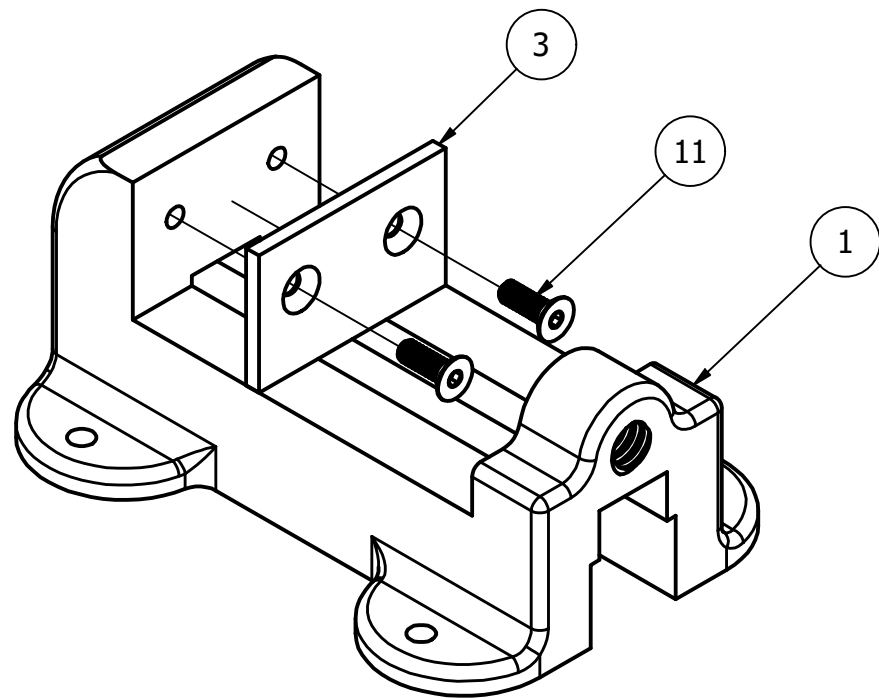
PAGE #: 1 OF 8



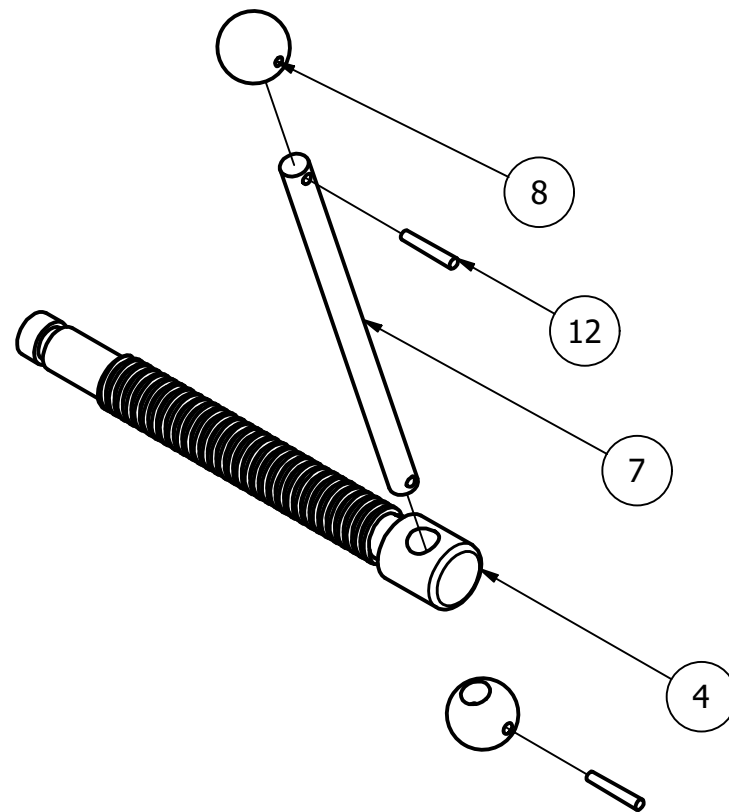
MACHINE VISE
SCALE 1 / 2

GENERAL NOTES:
ALL FILLETS HAVE A RADIUS OF 1/8"
UNLESS OTHERWISE STATED

LEGEND:
Ø DIAMETER
R RADIUS
° DEGREES
∇ DEPTH



STEP 1
SCALE 1 / 2

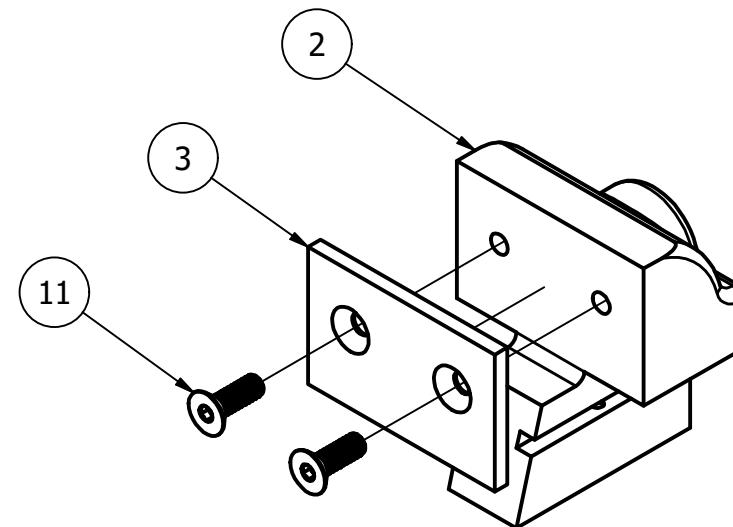


STEP 3
SCALE 1 / 2

LEGEND:

Ø DIAMETER
R RADIUS
° DEGREES
▽ 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	HEX DRIVE FLATHEAD SCREW
12	2	TAPER PIN

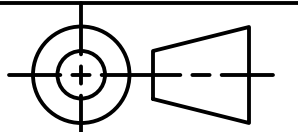


STEP 2
SCALE 1 / 2

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

CLASS: DDGT 240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:
MACHINE VISE

FIG #: 14-71

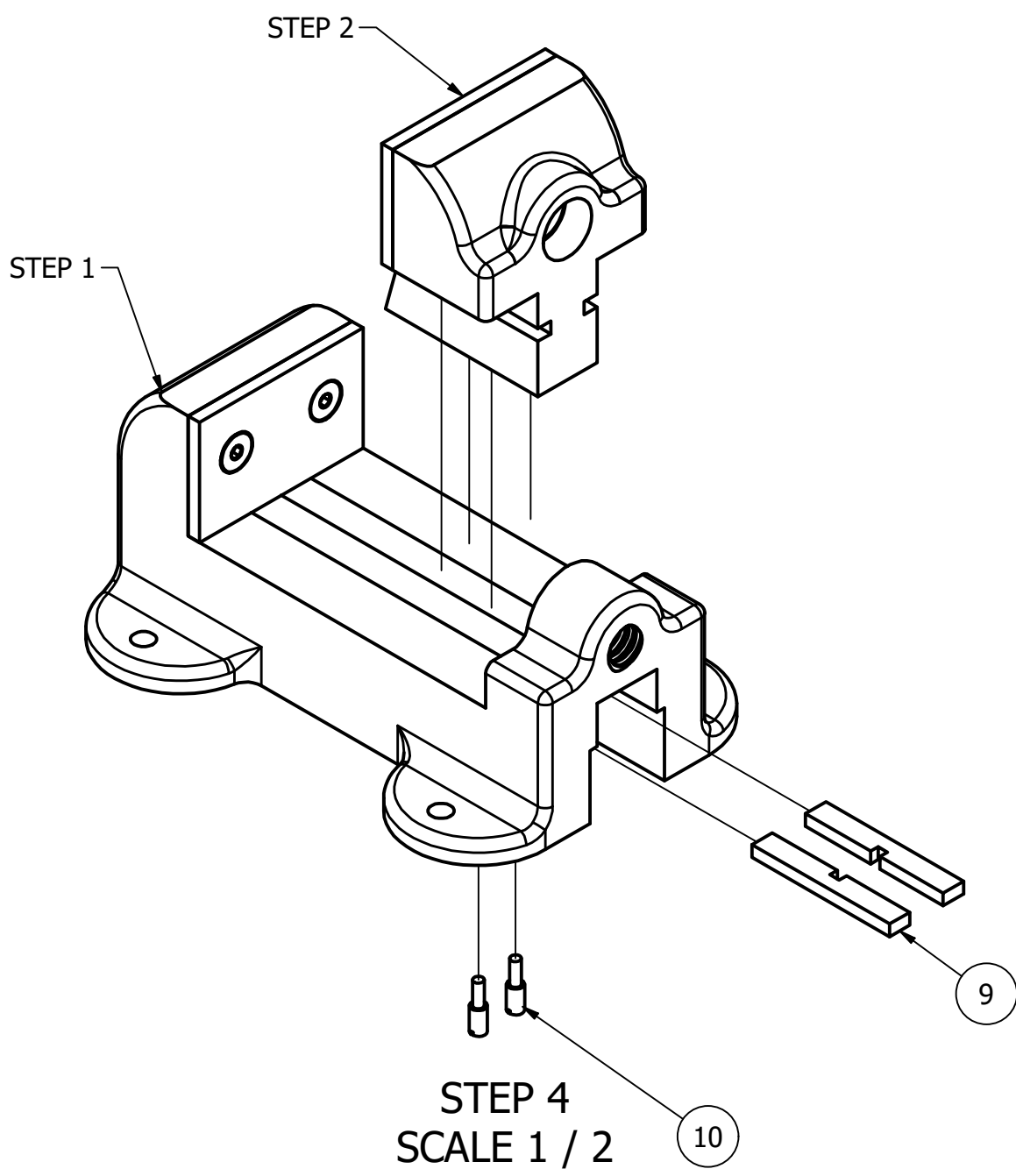
MANAGER: G. STROMMEN

DRAFTER: K. MILLER

DATE: 10/2/2025

SCALE: AS NOTED

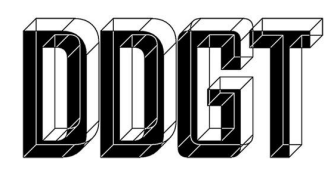
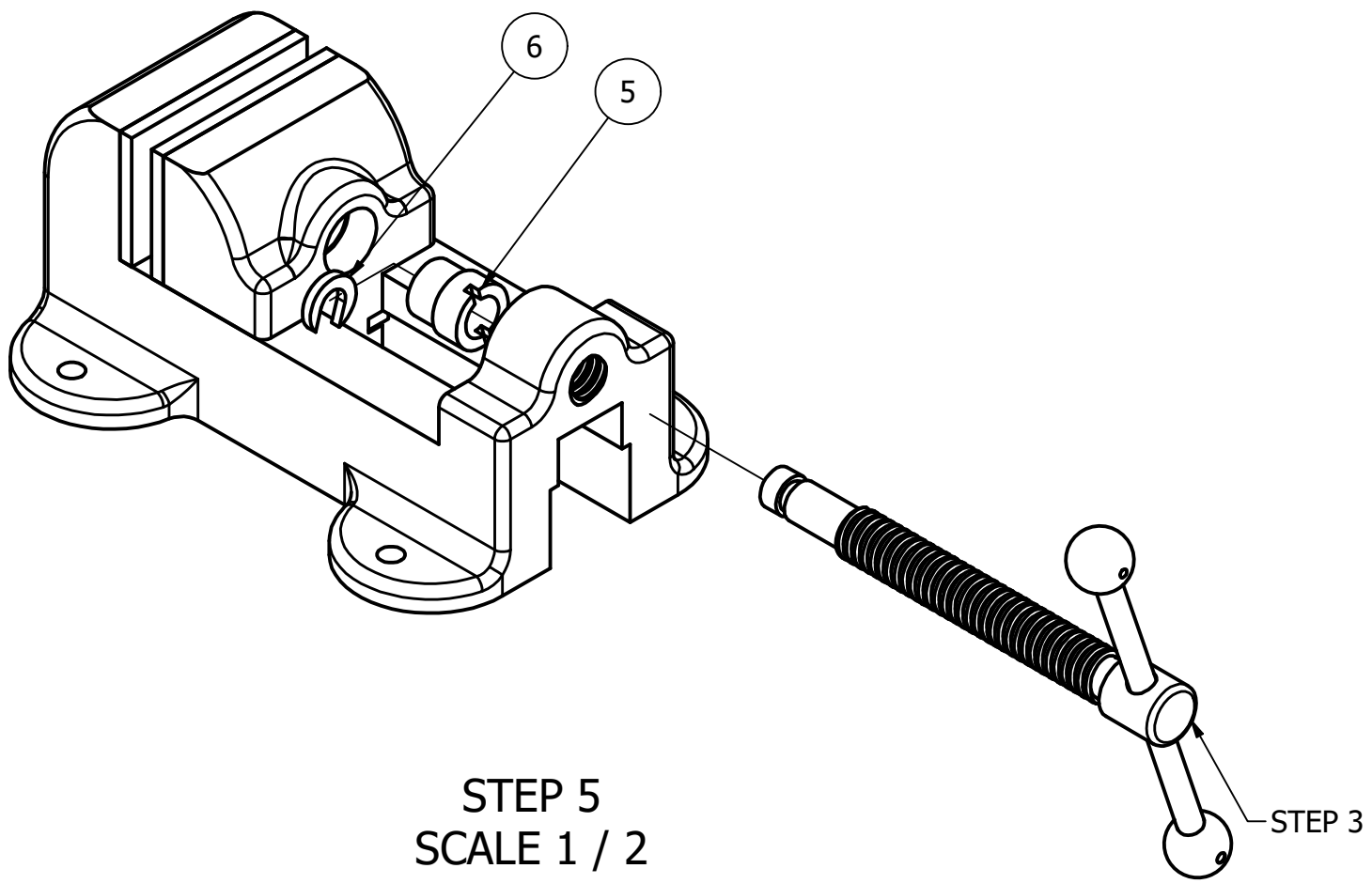
PAGE #: 2 OF 8



LEGEND:

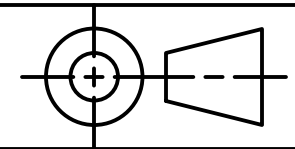
- Ø DIAMETER
- R RADIUS
- ° DEGREES
- ▽ DEPTH

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	HEX DRIVE FLATHEAD SCREW
12	2	TAPER PIN



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TECHNOLOGY

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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 240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:
MACHINE VISE

FIG #: 14-71

MANAGER: G. STROMMEN

DRAFTER: K. MILLER

DATE: 10/2/2025

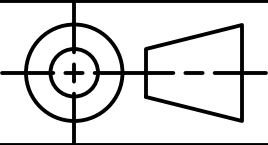
SCALE: AS NOTED

PAGE #: 3 OF 8



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

CLASS: DDGT 240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:
MACHINE VISE

FIG #: 14-71

MANAGER: G. STROMMEN

DRAFTER: K. MILLER

DATE: 10/2/2025

SCALE: AS NOTED

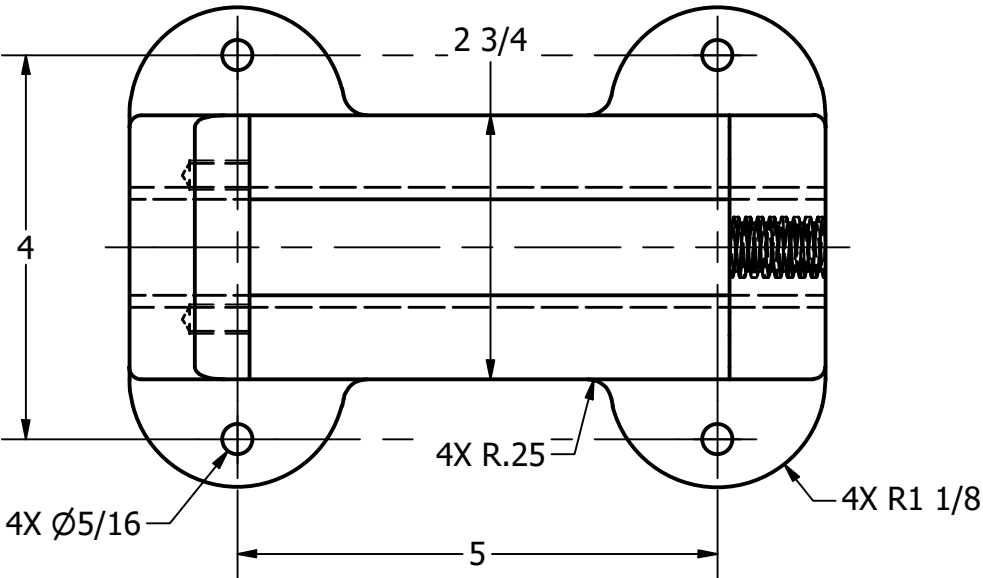
PAGE #: 4 OF 8

PARTS LIST

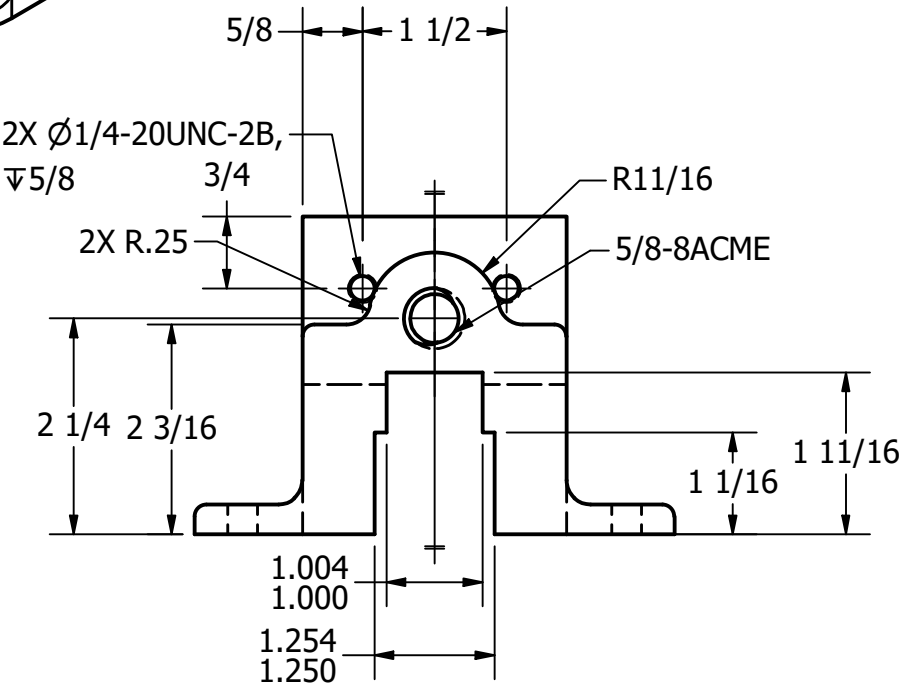
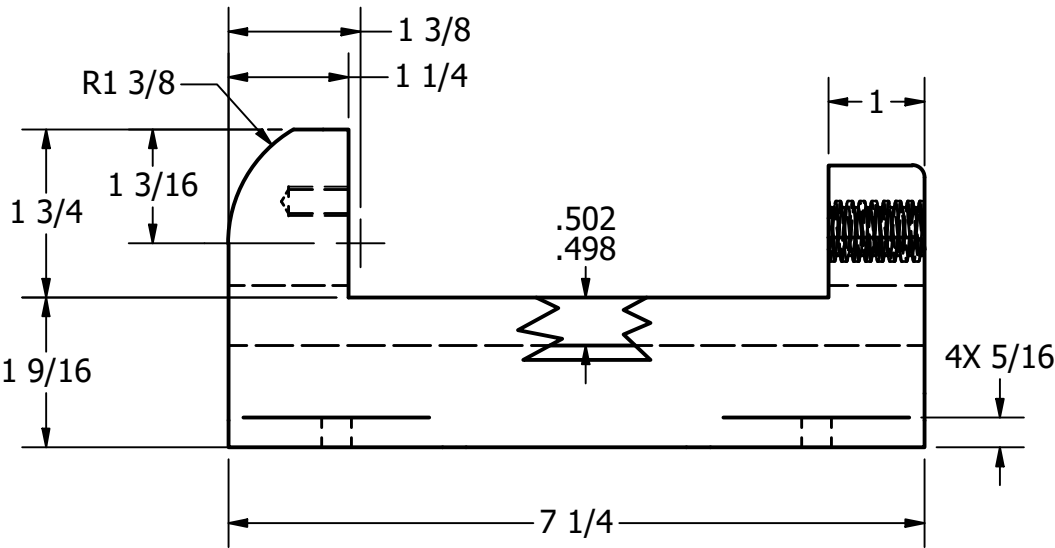
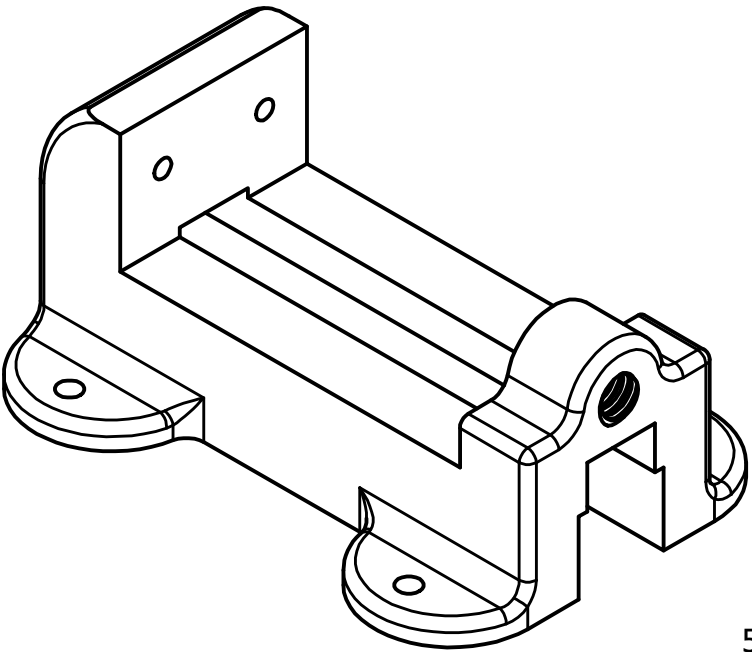
ITEM	QTY	PART NUMBER
1	1	BASE

LEGEND:

Ø DIAMETER
R RADIUS
° DEGREES
▽ DEPTH

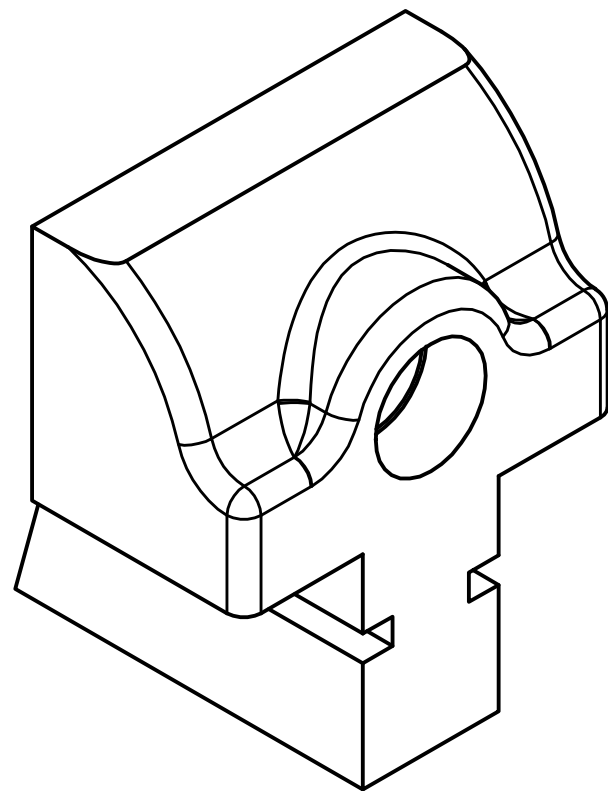


BASE
SCALE 1 / 2



GENERAL NOTES:

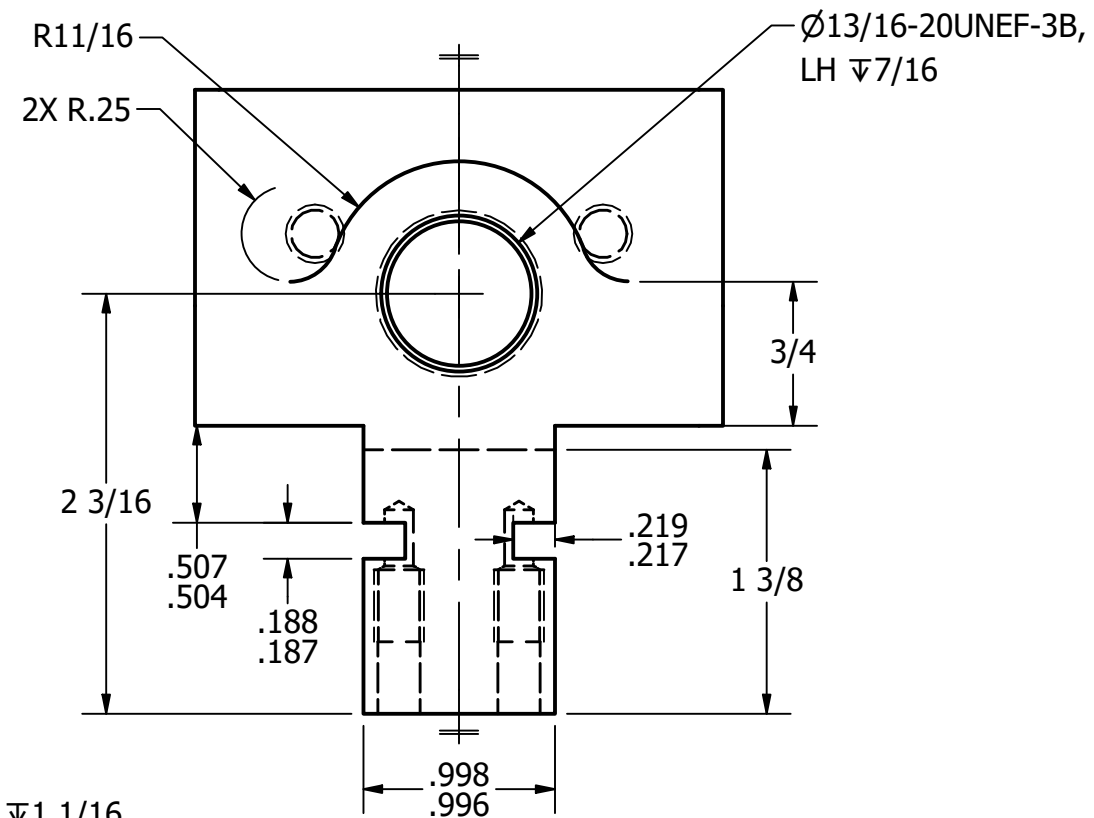
ALL FILLETS HAVE A RADIUS OF 1/8"
UNLESS OTHERWISE STATED



LEGEND:

Ø	DIAMETER
R	RADIUS
°	DEGREES
▽	DEPTH

PARTS LIST		
ITEM	QTY	PART NUMBER
3	2	JAW PLATE



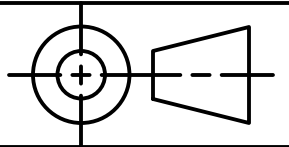
GENERAL NOTES:

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UNLESS OTHERWISE STATED



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

CLASS: DDGT 240

ASSIGNMENT #:	38
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INVENTOR DRAWING NAME:

MACHINE VISE

FIG #: 14-71

MANAGER: G. STROMMEN

DRAFTER: K. MILLER

DATE: 10/2/2025

SCALE: **AS NOTED**

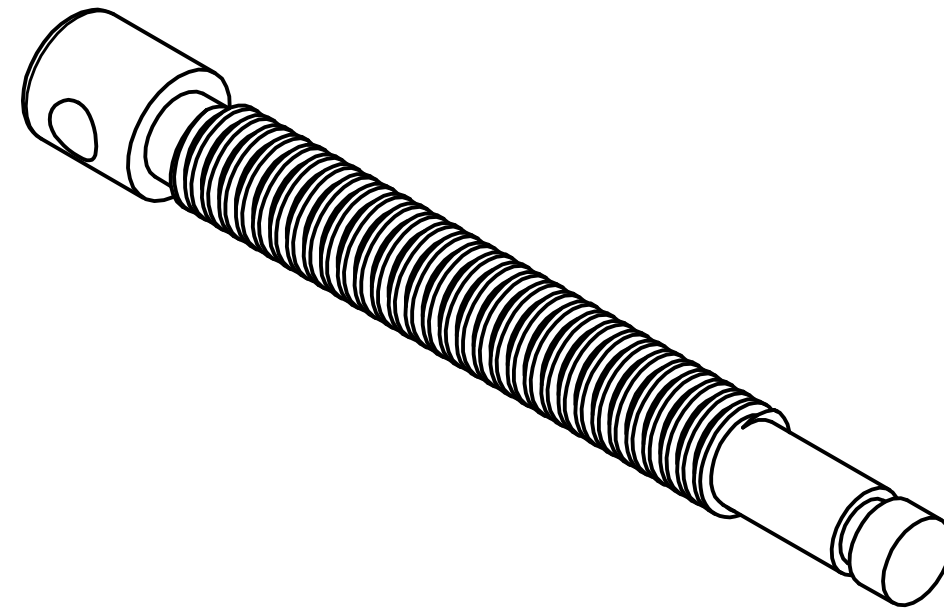
PAGE #: 5 OF 8



PARTS LIST



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Technical drawing of a mechanical assembly showing a spring and a nut. The drawing includes dimensions for diameters, lengths, and radii. Key features include a 5/8-8 ACME thread, a 1/4 inch diameter section, and a 3/8 inch diameter section. The total length is 6 1/4 inches.

Dimensions and features:

- Overall length: $6 \frac{1}{4}$
- Section 1 (Left): Diameter $\phi 3/4$, Length $13/32$, Radius $R1/16$.
- Section 2 (Spring): Diameter $\phi .50$, Length $3 \frac{15}{16}$, Thread $5/8-8$ ACME.
- Section 3 (Nut): Diameter $\phi 1/2$, Length $1/4$, Thread $5/8-8$ ACME.
- Section 4 (Right): Diameter $\phi 3/8$, Length $1/4$.

The diagram shows the orthographic projection of a cone. On the left is the top view, represented by two concentric circles with a crosshair indicating the center. On the right is the front view, represented by a trapezoid with a vertical centerline (indicated by a dashed line) and a horizontal line at the top representing the base of the cone.

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INVENTOR DRAWING NAME:

MACHINE VISE

FIG #: 14-71

MANAGER: G. STROMMEN

DRAFTER: K. MILLER

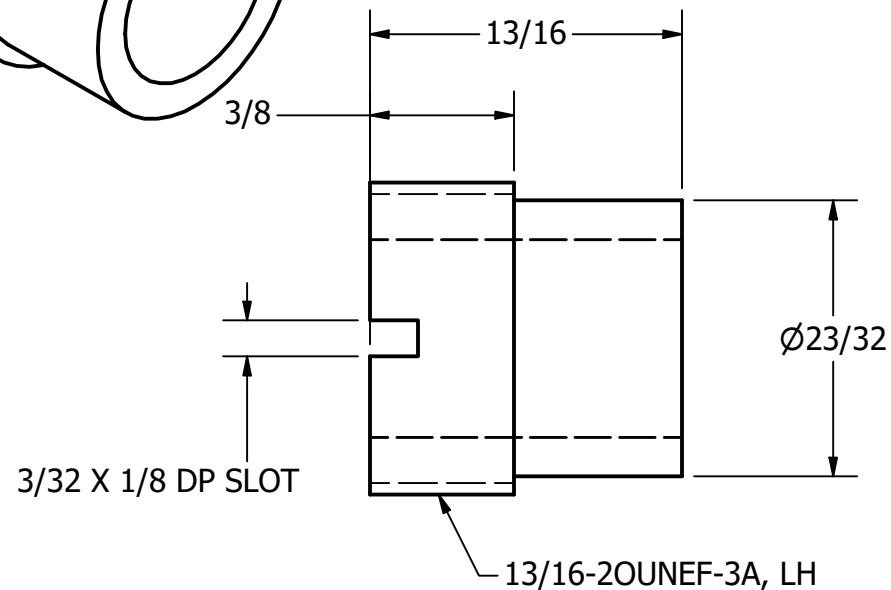
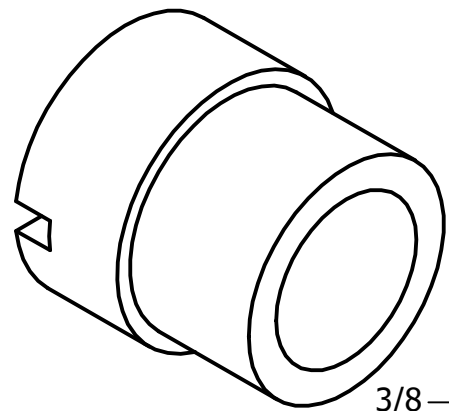
DATE: 10/2/2025

SCALE: AS NOTED

PAGE #: 6 OF 8

GENERAL NOTES:

ALL FILLETS HAVE A RADIUS OF 1/8"
UNLESS OTHERWISE STATED



COLLAR
SCALE 2 : 1

LEGEND:

Ø DIAMETER
R RADIUS
° DEGREES
▽ DEPTH

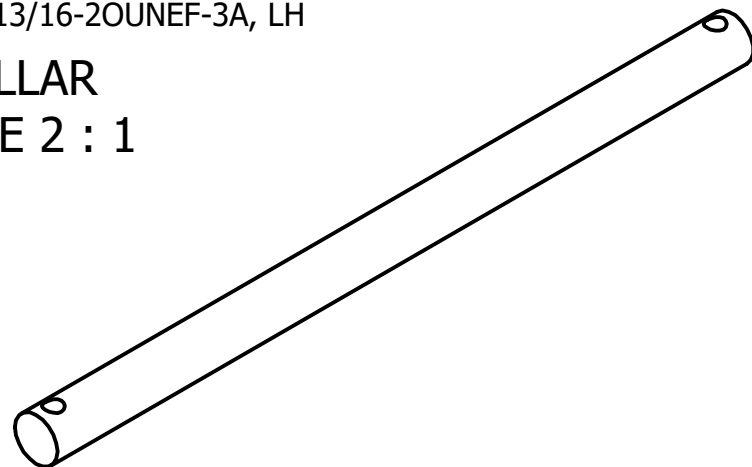
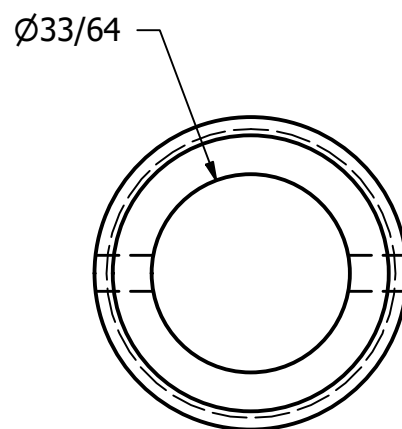
PARTS LIST

ITEM	QTY	PART NUMBER
5	1	COLLAR
7	1	HANDLE ROD
8	2	HANDLE BALL

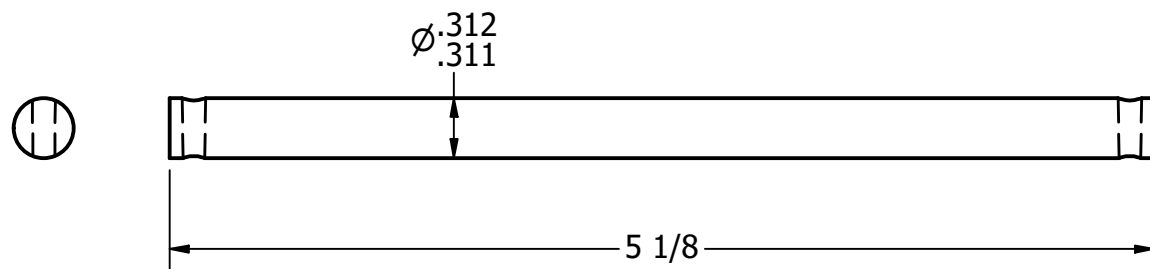
DDGT

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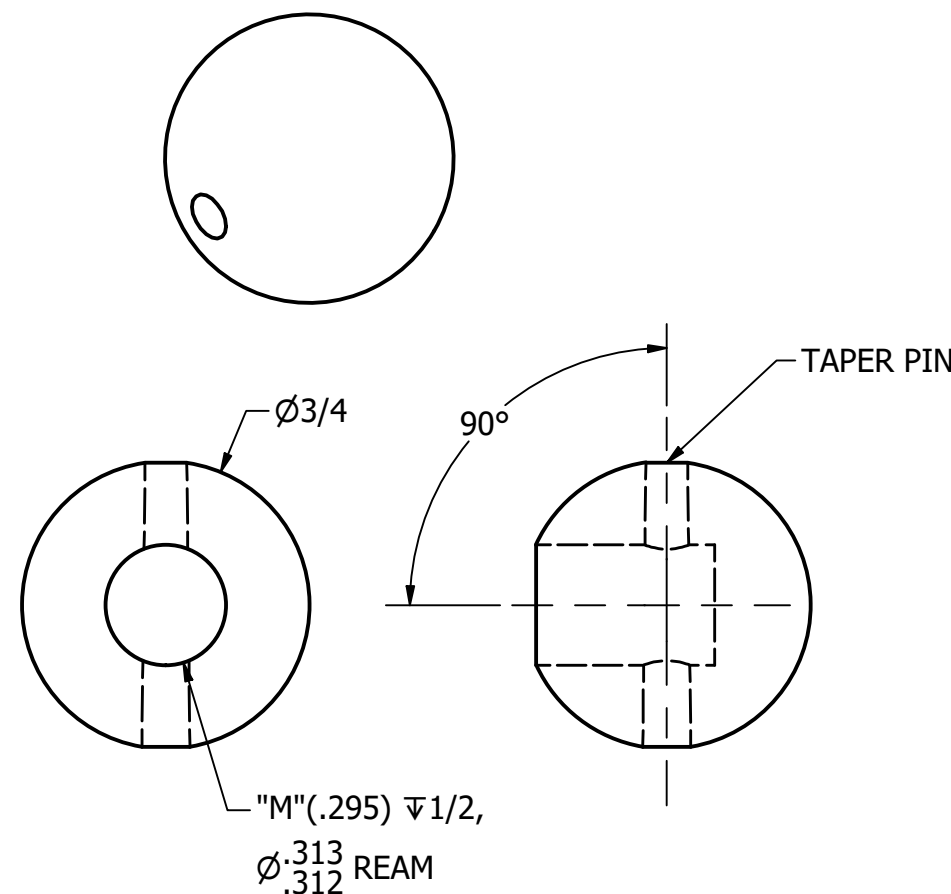
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HOLE SHOULD BE CREATED THROUGH HANDLE BALL
AND TAPER PIN AT THE SAME TIME



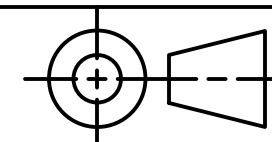
HANDLE ROD
SCALE 1 : 1



HANDLE BALL
SCALE 2 : 1

GENERAL NOTES:

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

CLASS: DDGT 240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:
MACHINE VISE

FIG #: 14-71

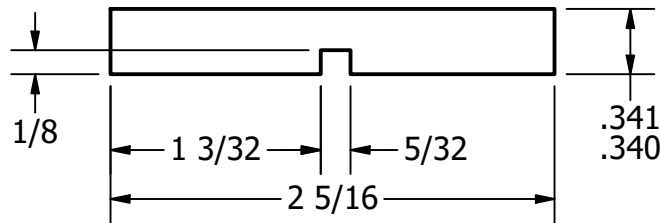
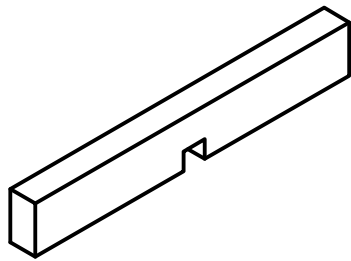
MANAGER: G. STROMMEN

DRAFTER: K. MILLER

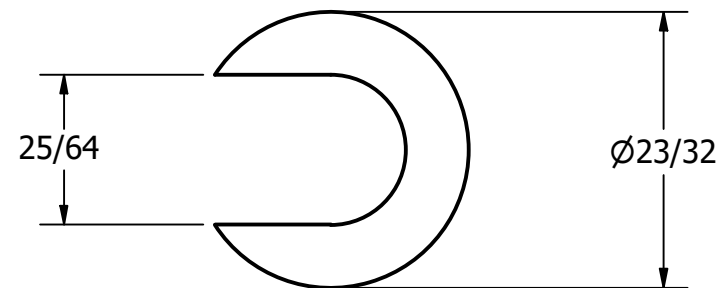
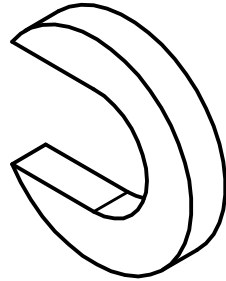
DATE: 10/2/2025

SCALE: AS NOTED

PAGE #: 7 OF 8



SLIDE KEY
SCALE 1 : 1



SPECIAL KEY
SCALE 2 : 1

LEGEND:

Ø DIAMETER
R RADIUS
° DEGREES
▽ DEPTH

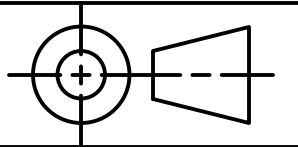
PARTS LIST

ITEM	QTY	PART NUMBER
6	1	SPECIAL KEY
9	2	SLIDE KEY
10	2	SET SCREW

DDGT

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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 240

ASSIGNMENT #: 38

INVENTOR DRAWING NAME:
MACHINE VISE

FIG #: 14-71

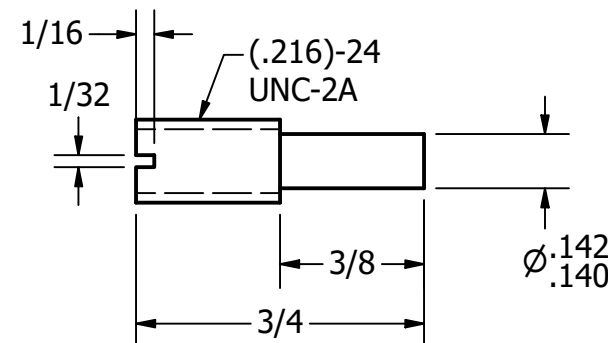
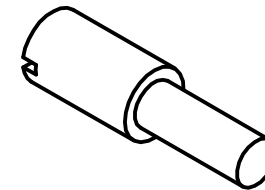
MANAGER: G. STROMMEN

DRAFTER: K. MILLER

DATE: 10/2/2025

SCALE: AS NOTED

PAGE #: 8 OF 8



SET SCREW
SCALE 2 : 1

GENERAL NOTES:

ALL FILLETS HAVE A RADIUS OF 1/8"
UNLESS OTHERWISE STATED