

### **Test Fixture Manual**

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Issued: 5/18/2022

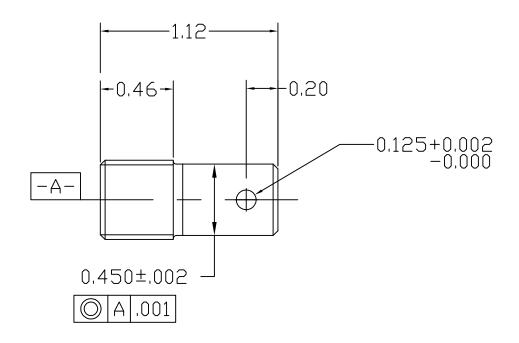
Revision: 9

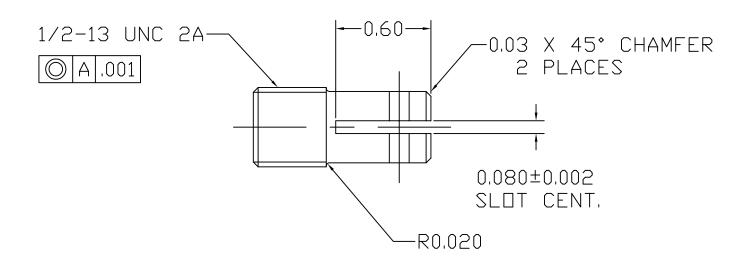
Phi	Manual	Spec Number	Revision Number	Revision Date	Reviewed Date	Title
Ø	TF	TC	9	5/18/2022		Table of Contents
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	TF	15	Original	10/26/2011	3/14/2017	3/8 C/R Adapter Coupling
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	TF	21	Original	10/26/2011	3/14/2017	Locking Test Pin Table
	TF	24	Original	10/26/2011	3/14/2017	1/4" Harness Nut
	TF	25	Original	10/26/2011	3/14/2017	1/4" Harness Bolt
	TF	26	1	9/20/2021	9/20/2021	Crosshead Assembly
	TF	26A	1	9/20/2021	9/20/2021	Crosshead Assembly
	TF	34	Original	10/26/2011	3/14/2017	S/R Tandem Adapter Used with TBM 1106 (RR)
	TF	34A	Original	10/29/2015	10/29/2015	S/R Tandem Adapter Used with TBM 3110
	TF	41	Original	10/26/2011	3/14/2017	Hot Tensile Harness Bracket
	TF	50	Original	10/26/2011	3/14/2017	1/4-20 Tensile Test Adapter (Mini Round Test Material)
	TF	51	Original	10/26/2011	3/14/2017	#5-40 Tensile Test Adapter (Mini Round Test Material)
	TF	52	Original	10/26/2011	3/14/2017	Rupture Flat Bar Adapter
	TF	56	Original	9/14/2011	2/11/2017	New Gauge Length Punch
	TF	56A	Original	9/14/2011	2/11/2017	Re-Sharpened Gauge Length Punch
	TF	57	1	10/26/2011	3/14/2017	1.680" Wide Punch

### **TEST FIXTURE MANUAL**

Phi	Manual	Spec Number	Revision Number	Revision Date	Reviewed Date	Title
	TF	59	Original	9/14/2011	2/11/2017	1.753" Wide Punch
	TF	60	Original	9/14/2011	2/11/2017	2.000" Wide Punch
	TF	61	Original	9/14/2011	2/11/2017	1.000" Wide Punch
	TF	62	Original	9/14/2011	2/11/2017	0.800" Wide Punch
	TF	63	Original	9/14/2011	2/11/2017	0.720" Wide Punch
	TF	64	Original	9/14/2011	2/11/2017	0.640" Wide Punch
	TF	65	1	4/4/2017	4/4/2017	Caliper Points
Ø	TF	65A	1	5/18/2022	5/18/2022	Caliper Points
Ø	TF	65B	1	5/18/2022	5/18/2022	Caliper Point Adaptor
Ø	TF	66	3	5/18/2022	5/18/2022	Caliper Point Adapter
	TF	66A	Original	1/29/2018	1/29/2018	Digital 6" Caliper
	TF	67	Original	10/26/2011	3/14/2017	1/2" Extensometer Fixture Assembly
	TF	67A	Original	10/26/2011	3/14/2017	1/2" Extensometer Fixture Assembly
	TF	68	Original	10/26/2011	3/14/2017	1" Extensometer Fixture Assembly
	TF	68A	Original	10/26/2011	3/14/2017	1" Extensometer Fixture Assembly
	TF	69	Original	10/26/2011	3/14/2017	S/R Furnace Insulation
	TF	69A	Original	10/26/2011	3/14/2017	Clamp for Furnace Insulation
	TF	70	Original	10/26/2011	3/14/2017	C/R Furnace Insulation
	TF	70A	Original	10/26/2011	3/14/2017	C/R Furnace Insulation
	TF	71	Original	9/14/2011	2/11/2017	0.500" Wide Punch

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: AS-CAST IN 713C







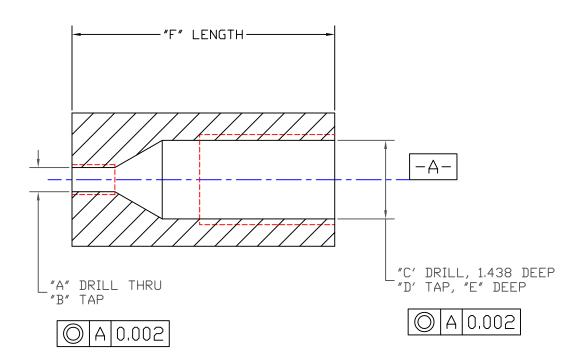
# **TEST FIXTURE MANUAL**

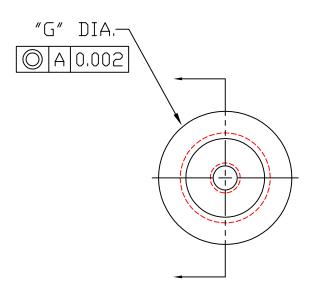
TF Part #: 0010

Issued: 09/14/11

Revision: Original

- 1. DO NOT SCALE THIS DRAWING.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. THREAD CLASS 2B UNLESS OTHERWISE SPECIFIED.
- 4. SEE TABLE FOR SIZES







# **TEST FIXTURE MANUAL**

TF Part #: 0011

Issued: 10/26/11

Revision: Original

ADAPTER SIZES & DIMENSIONS								
"A" DRILL	"B"TAP	"C" DRILL	"D" TAP	"E" DEEP	"F" LENGTH	CLASS	"G" DIA	MATERIAL
#7 (0.201)	1/4-20	0.656	3/4-10NC	1.125	2.19	2B	1.110	IN 713
#F (0.257)	5/16-18	0.656	3/4-10NC	1.125	2.19	2B	1.110	IN 713
5/16	3/8-16	0.656	3/4-10NC	1.125	2.19	2B	1.110	IN 713
27/64	1/2-13	0.656	3/4-10NC	1.125	2.19	2B	1.110	IN 713
21/32	3/4-10	0.656	3/4-10NC	1.125	2.19	2B	1.110	IN 713
#3 (0.212)	1/4-28	0.656	3/4-10NC	1.125	2.19	2B	1.110	IN 713
21 (0.159)	#10-32	0.656	3/4-10NC	1.125	2.19	2B	1.110	IN 713
#7 (0.201)	#5-40	0.656	3/4-10NC	1.125	2.19	2B	1.110	IN 713
#29 (0.136)	#8-32	0.656	3/4-10NC	1.125	2.19	2B	1.110	IN 713
8mm (60%)	M9 X 1.25		3/4-10NC	1.125	2.25	3B	1.125	MAR 246
7.5mm (60%)	5/16-24NF		3/4-10NC	1.125	2.25	3B	1.125	MAR 246
8.5mm	M10 X 1.5		M10 X 1.5	0.500	2.25	6G	1.125	IN 713
5.25mm	M6 X .75		M6 X .75	0.500	2.25	6G	1.125	IN 713
#U (0.368)	7/16-14NC		1-8NC	1.375	2.25	3B	1.50	IN 713
5/16	3/8-16NC		1-8NC	1.375	2.25	3B	1.50	IN 713
#29 (0.136)	#8-36NF		#8-36NF		2.25	3B		
	5/16-24NF		5/16-24NF					
21/32	3/4-10		1-8NC	1.375	2.375	3B	1.625	IN 718
5mm	M6 X 10		3/4-10NC		2.25	3B	1.125	IN713
	M18 X 25		3/4-10NC		2.25	3B	1.125	
#U (0.368)	7/16-14NC		3/4-10NC					



# **TEST FIXTURE MANUAL**

TF Part #: 0011A

Issued: 10/26/11

Revision: Original

- 1. DO NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL IN713.
  4. THREADS CLASS 2A UNLESS OTHERWISE SPECIFIED.

TF-13A 12.00 TF-13B 13.00 TF-13C 19.00 TF-13D 21.00 TF-13E 10.75 TF-13F 14.00 TF-13G  *A**  -A-  3/4-10 UNC 2A 0.750DIA. 2 PLCS				PART #	"A" LENGTH		
TF-13C 19.00 TF-13D 21.00 TF-13F 10.75 TF-13G 19.00 TF-13F 14.00 TF-13				TF-13A	12.00		
TF-13D 21.00 TF-13E 10.75 TF-13F 14.00 TF-13G  "A"  2 PLCS  3/4-10 UNC 2A  0.750DIA.				TF-13B	13.00		
TF-13E 10.75 TF-13F 14.00 TF-13G  "A"  -A-  3/4-10 UNC 2A  0.750DIA.				TF-13C	19.00		
TF-13F 14.00 TF-13G  "A"  2 1.00 2 PLCS  3/4-10 UNC 2A  0.750DIA:				TF-13D	21.00		
2 1.00 2 PLCS ————————————————————————————————————				TF-13E	10.75		
2 1.00 2 PLCS ————————————————————————————————————				TF-13F	14.00		
2 PLCS ————————————————————————————————————				TF-13G			
2 PLCS ————————————————————————————————————					1		
2 PLCS ————————————————————————————————————						_	
2 PLCS ————————————————————————————————————	1.00						
3/4-10 UNC 2A 0.750DIA.	2 PLCS	<del>  -  </del>					
3/4-10 UNC 2A 0.750DIA.							
3/4-10 UNC 2A 0.750DIA.							
	_						-A-
		/					
			0.750014				
		∠_3/4-10 UNC 2A					
2 PLCS				0.001			



# **TEST FIXTURE MANUAL**

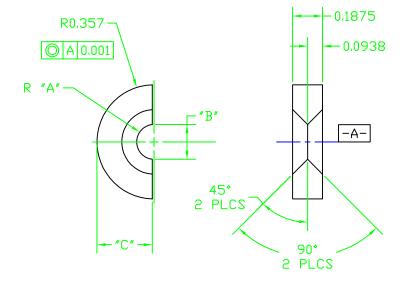
0012 TF Part #:

10/26/11 Issued:

Original Revision:

> 1 of 1 Page:

- 1. DD NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. TF-14D IS CLAMPED ON GAUGE
  SECTION, NO GROOVES IN BAR.
  4. TOLERANCES TO BE ±0.002 UNLESS
  OTHERWISE SPECIFIED.



PART #	твм #	"A"	"B"	<b>"</b> C"	SHOULDER Ø OF BAR
TF-14A	2004	0.109	0.218	0.346	0.250
TF-14A	2510	0.109	0.218	0.346	0.250
TF-14A	3004	0.109	0.218	0.346	0.250
TF-14A	3009	0.109	0.218	0.346	0.250
TF-14B	3104	0.141	0.282	0.346	0.3125
TF-14B	3109	0.141	0.282	0.346	0.3125
TF-14B	3114	0.141	0.282	0.346	0.3125
TF-14C	3064	0.172	0.344	0.346	0.375
TF-14C	4004	0.172	0.344	0.346	0.375
TF-14C	4014	0.172	0.344	0.346	0.375
TF-14C	4025	0.172	0.344	0.346	0.375
TF-14D	4200	0.1785	0.357	0.346	N/A
TF-14E	HOT TEN	0.125	0.250	0.312	0.375



# **TEST FIXTURE MANUAL**

0013 TF Part #:

10/26/11 Issued:

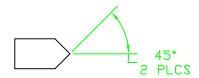
**Original** Revision:

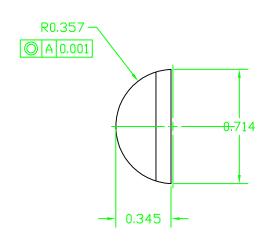
> 1 of 1 Page:

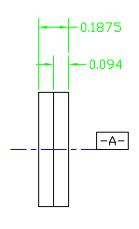
SPECIMEN KNIFE EDGE CLAMP

- NUTES:

  1. DD NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. THESE INSERTS TO BE CLAMPED ON GUAGE SECTION, NO GROOVES IN BAR.
  4. TOLERANCES TO BE ±0.002 UNLESS OTHERWISE SPECIFIED.









# **TEST FIXTURE MANUAL**

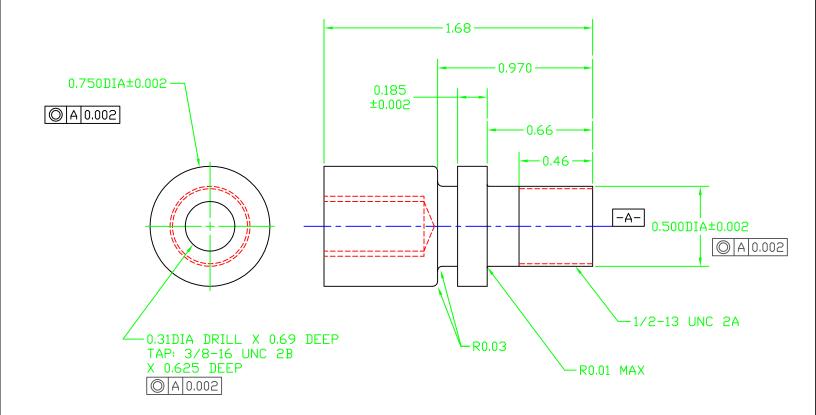
TF Part #: 0014

> 10/26/11 Issued:

**Original** Revision:

> 1 of 1 Page:

- 1. DO NOT SCALE THIS DRAWING.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. MATERIAL IN713.
- 4. CHECK 3/8-16 HOLE WITH GO/NO GO THREAD PLUG.





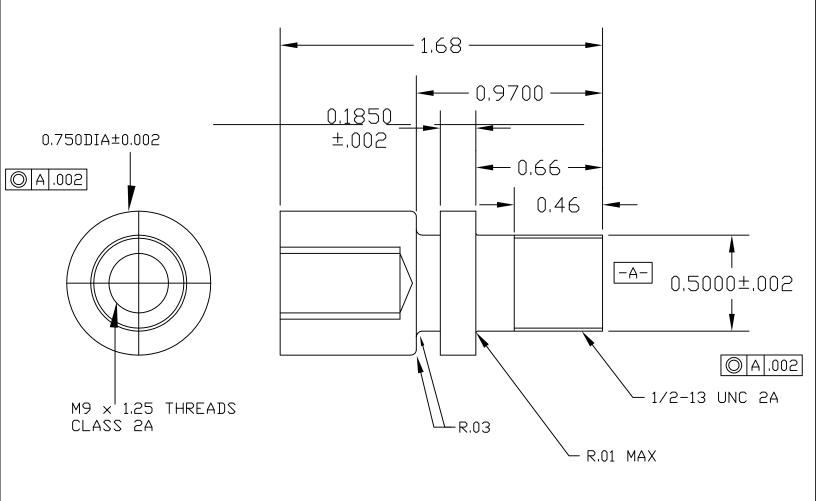
# **TEST FIXTURE MANUAL**

TF Part #: 0015

Issued: 10/26/11

Revision: Original

- 1. DO NOT SCALE THIS DRAWING.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. MATERIAL IN713.
- 4. NUMBER REQUIRED: 1
- 5. CHECK M9 imes 1.25 2A WITH GD/ND GD THREAD PLUG.





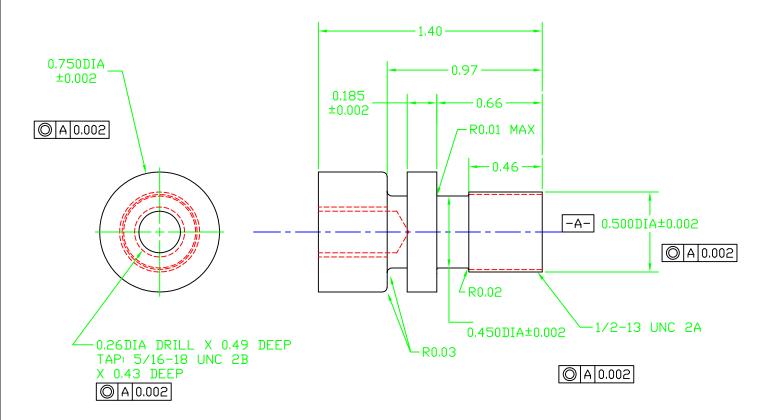
**TEST FIXTURE MANUAL** 

TF Part #: 0015A

Issued: 04/21/17

Revision: Original

- 1. DD NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL IN713.
- 4. CHECK 5/16-HOLE WITH GO/NO GO THREAD PLUG.





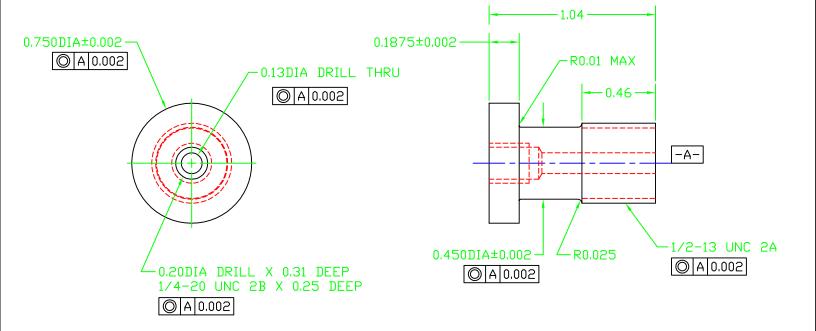
**TEST FIXTURE MANUAL** 

0016 TF Part #:

10/26/11 Issued: **Revision:** Original

- 1. DO NOT SCALE THIS DRAWING. 2. ALL DIMENSIONS ARE IN INCHES. 3. MATERIAL PWA 1480.

- 4. CHECK 1/4-20 WITH GO/NO GO THREAD PLUG.





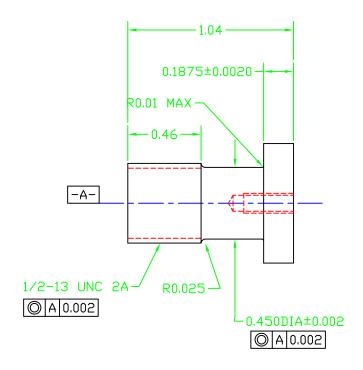
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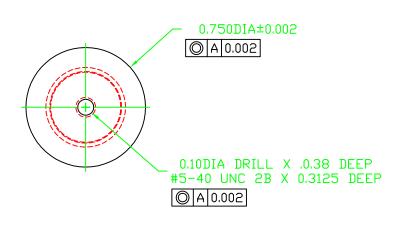
0017 TF Part #:

10/26/11 Issued: **Revision:** Original

NDTES:

- NUILES:
  1. DO NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL PWA 1480.
  4. CHECK #5-40 WITH GO/NO GO
  THREAD PLUG.





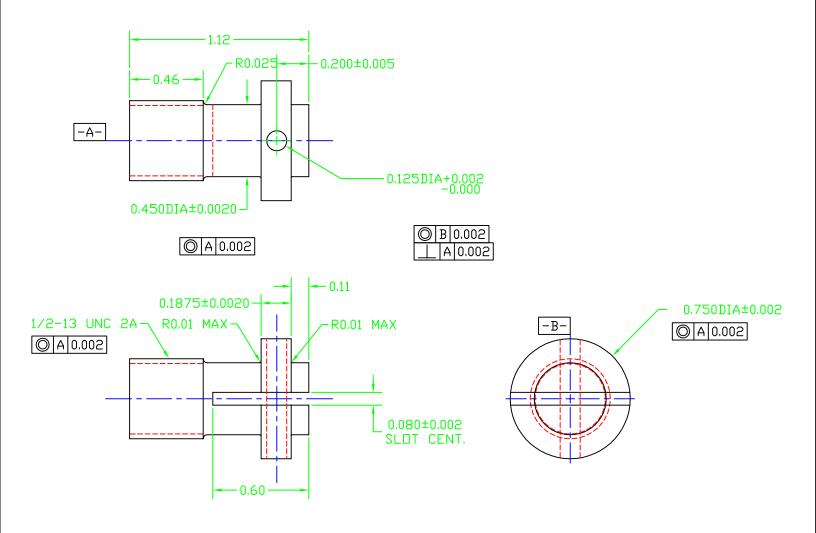


**TEST FIXTURE MANUAL** 

0018 TF Part #:

10/26/11 Issued: **Revision:** Original

- 1. DO NOT SCALE THIS DRAWING.
- 2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL IN713.





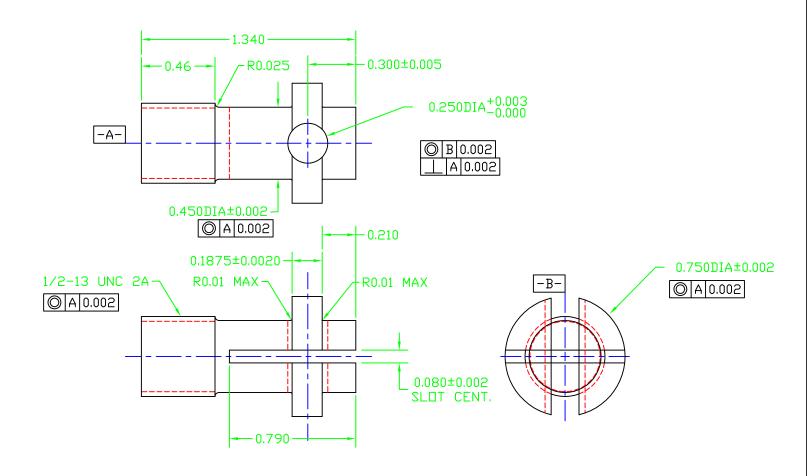
## **TEST FIXTURE MANUAL**

0019 TF Part #:

10/26/11 Issued: **Revision:** Original

- 1. DO NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL IN713.

- 4. NUMBER REQUIRED: 2 PER.





### **TEST FIXTURE MANUAL**

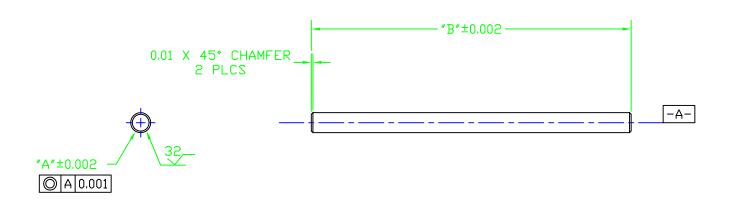
TF Part #: 0020

10/26/11 Issued:

**Revision: Original** 

NOTES:
1. DO NOT SCALE THIS DRAWING.
2. ALL DIMENSIONS ARE IN INCHES.

P/N	"A"	"B"	MAT'L	
23A	0.125	2.00	MM246	
23B	0.1875	1.50	MM246	
23C	0.246	1.30	IN 713	
23D	0.370	1.30	IN 713	
23E	0.248	1.00	IN 713	
23F	0.310	1.20	RENE 80	
23G	0.730	1.20	IN 713	
23H	0.246	.350	IN 713	
231	0.120	.760	IN 713	





## **TEST FIXTURE MANUAL**

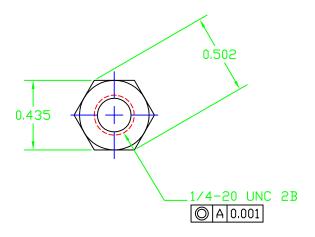
TF Part #: 0021

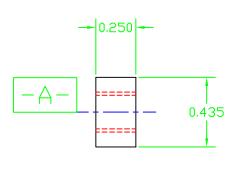
Issued: 10/26/11

Revision: Original

- NUTES:
  1. DO NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL IN713.
  4. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.

- 5. CHAMFER D.D. TOP & BOTTOM
  6. BREAK I.D. TOP & BOTTOM.
  7. NUT TO FIT STANDARD 7/16' WRENCH.





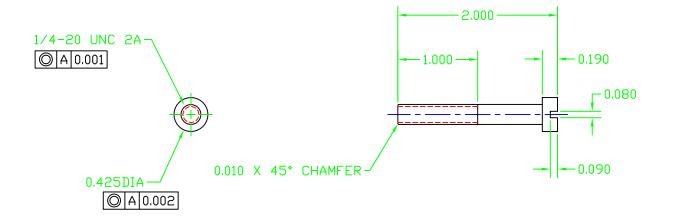


**TEST FIXTURE MANUAL** 

TF Part #: 0024

10/26/11 Issued: **Original Revision:** 

- 1. DD NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL IN713.
  4. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.





**TEST FIXTURE MANUAL** 

TF Part #: 0025

Issued: 10/26/11

**Revision:** Original

PART OF ASSEMBLY: E\_1: MATERIAL: IN600: QUANTITY: 2

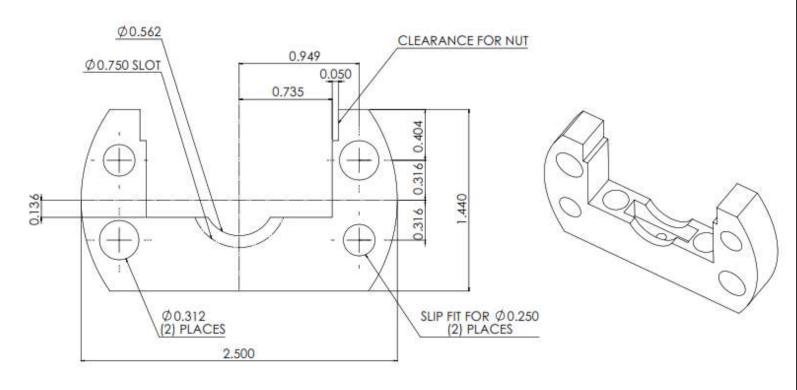
CAD SYSTEM: SOLIDWORKS AUTHOR JENNIE WANG DRAWING DATE: 7/16/18

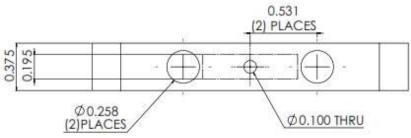
#### NOTES:

1. DIMENSIONS ARE IN INCHES UOS. 2. BREAK CORNERS R.031 TYPCIAL

### TOLERANCES:

.XX - +/- 0.02 .XXX = +/- 0.05 .XXXX= +/- 0.0005







### **TEST FIXTURE MANUAL**

TF Part #: 0026

Issued: 09/20/21

Revision: 1

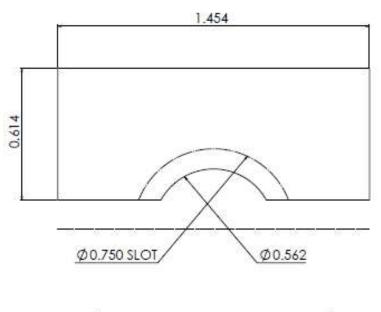
CAD SYSTEM: SOLIDWORKS AUTHOR JENNIE WANG DRAWING DATE: 7/16/18

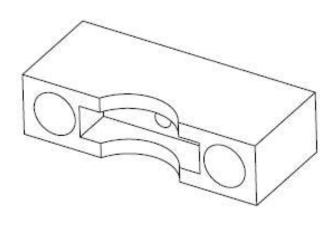
PART OF ASSEMBLY: E\_2 MATERIAL: IN600: QUANTITY: 2

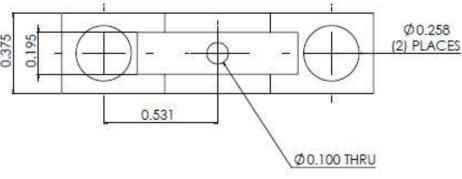
NOTES:

1. DIMENSIONS ARE IN INCHES UDS 2. BREAK CORNERS R.031 TYPCIAL

TOLERANCES: .XX - +/- 0.02 .XXX = +/- 0.05 .XXXX= +/- 0.0005









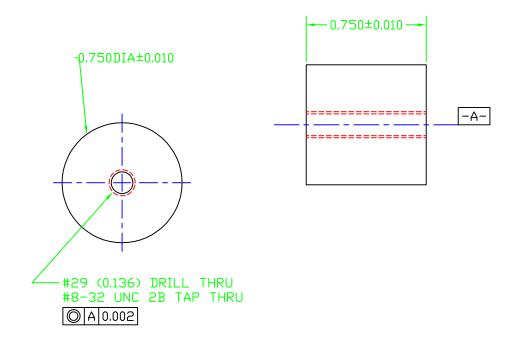
## **TEST FIXTURE MANUAL**

TF Part #: 0026A

Issued: 9/20/21

Revision: 1

- NOTES:
  1. DO NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL IN713.
  4. FOR TANDEM TESTING.





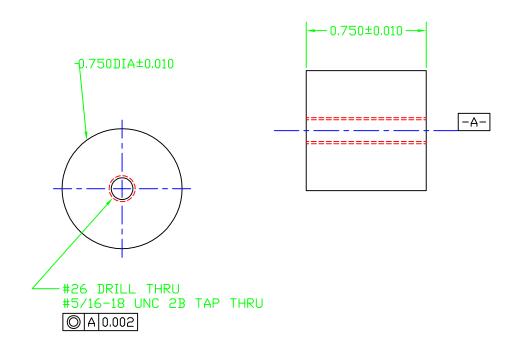
**TEST FIXTURE MANUAL** 

TF Part #: 0034

Issued: 10/26/11

**Revision: Original** 

- NOTES:
  1. DO NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL IN713.
  4. FOR TANDEM TESTING.





### **TEST FIXTURE MANUAL**

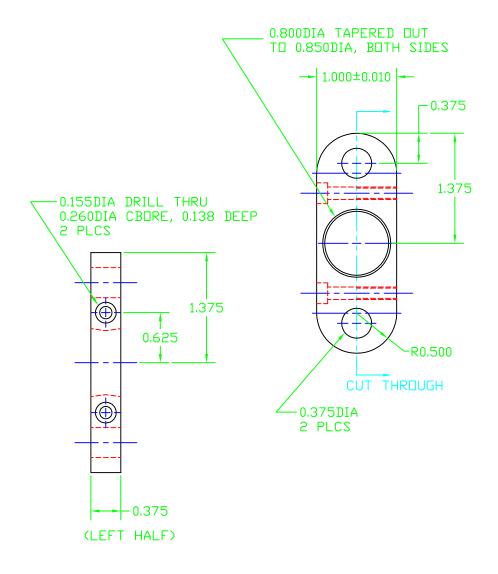
TF Part #: 0034A

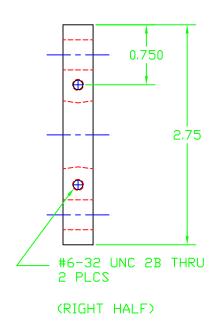
> Issued: 10/29/15

**Revision: Original** 

- 1. DO NOT SCALE THIS DRAWING.

- 2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL: T6 ALUMINUM PLATE.
  4. TOLERANCE TO BE ±0.005, UNLESS OTHERWISE SPECIFIED.







### **TEST FIXTURE MANUAL**

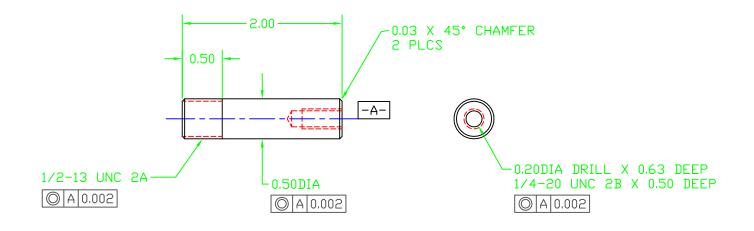
0041 TF Part #:

> 10/26/11 Issued:

Revision: **Original** 

> 1 of 1 Page:

1. DO NOT SCALE THIS DRAWING.
2. ALL DIMENSIONS ARE IN INCHES.
3. MATERIAL: 8620 HOT ROLLED STEEL.





## **TEST FIXTURE MANUAL**

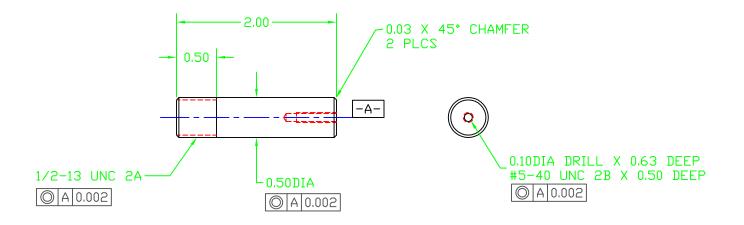
TF Part #: 0050

> Issued: 10/26/11

**Original** Revision:

> 1 of 1 Page:

- 1. DD NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL: 8620 HOT ROLLED STEEL.





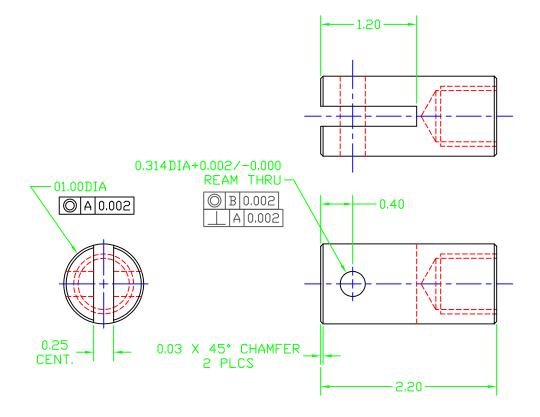
**TEST FIXTURE MANUAL** 

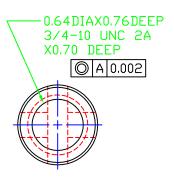
TF Part #: 0051

> 10/26/11 Issued:

Revision: **Original** 

- 1. DO NOT SCALE THIS DRAWING. 2. ALL DIMENSIONS ARE IN INCHES.
- 3. MATERIAL IN713.







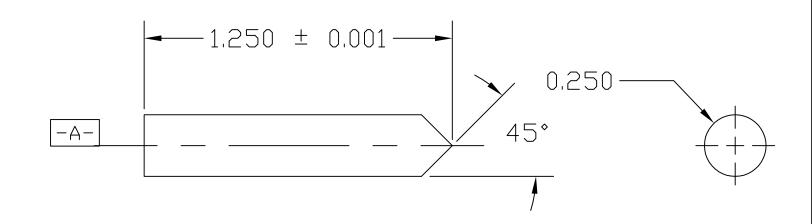
## **TEST FIXTURE MANUAL**

TF Part #: 0052

> 10/26/11 Issued:

Revision: Original

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: HSS DRILL BLANKS 0.250"
- 3. TIP SHALL BE CONCENTRIC WITH "A" AXIS WITHIN 0.00025" DIAMETER
- 4. LABEL PACKAGING WITH THE FINISHED LENGTH DIMENSIONS





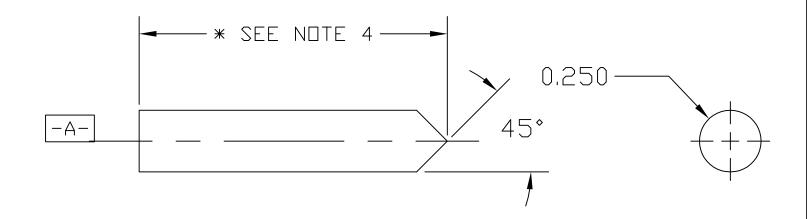
**TEST FIXTURE MANUAL** 

TF Part #: 0056

Issued: 09/14/11

Revision: Original

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: HSS DRILL BLANKS 0.250"
- 3. TIP SHALL BE CONCENTRIC WITH "A" AXIS WITHIN 0.00025" DIAMETER
- 4. RE-SHARPEN ALL USED PUNCHES SUPPLIED IN A BATCH TO THE SAME LENGTH WITHIN 0.001"
  - THE LENGTH SHALL BE NOTATED ON THE PACKAGING SUPPLIED WITH THE USED PUNCHES
  - THE MINIMUM RE-SHARPENED PUNCH LENGTH SHALL BE NO LESS THAN 1.000"
  - LABEL PACKAGING WITH THE FINISHED LENGTH DIMENSION OF THE RE-SHARPENED PUNCHES





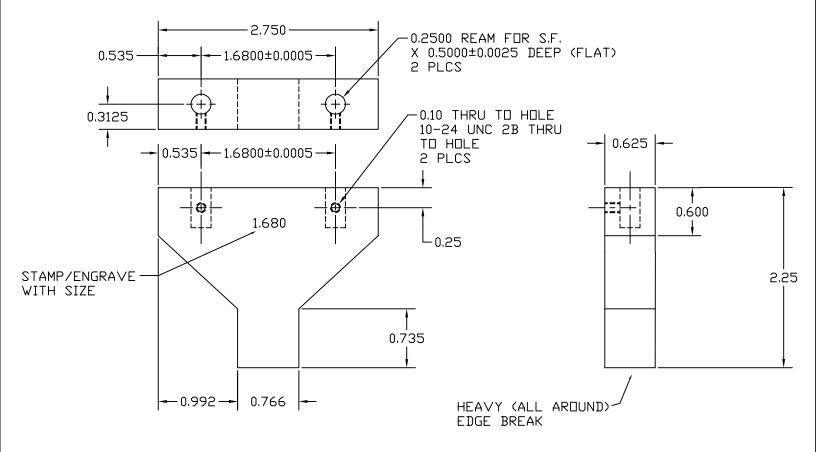
# **TEST FIXTURE MANUAL**

TF Part #: 0056A

Issued: 09/14/11

**Revision:** Original

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: S-7 TOOL STEEL





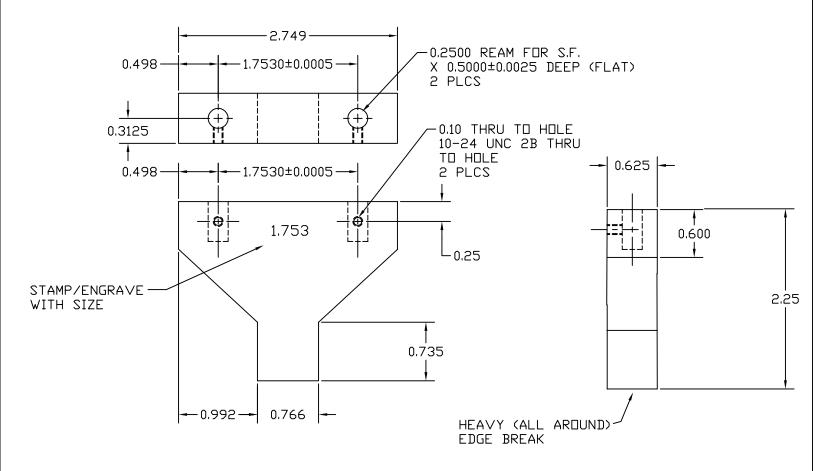
**TEST FIXTURE MANUAL** 

TF Part #: 0057

Issued: 10/26/11

Revision: 1

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: S-7 TOOL STEEL





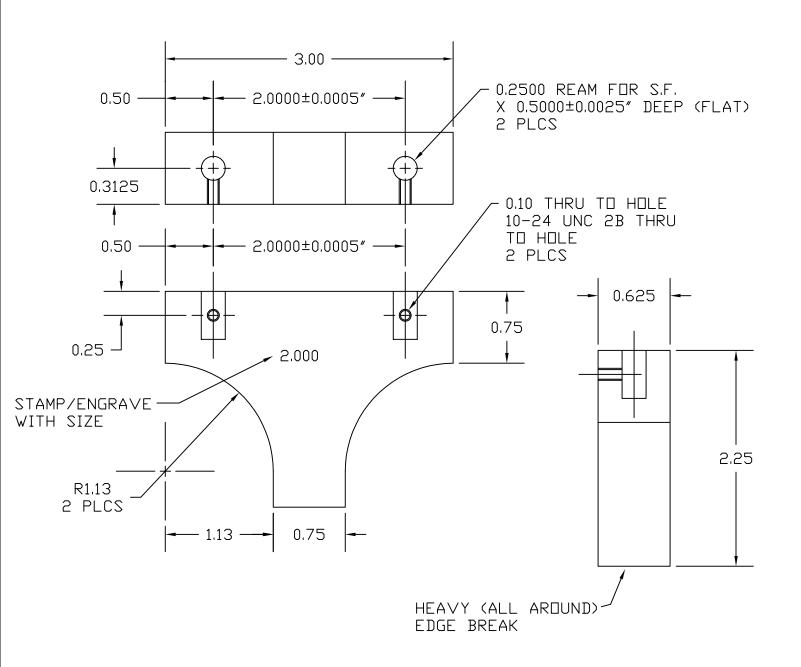
### **TEST FIXTURE MANUAL**

TF Part #: 0059

Issued: 09/14/11

Revision: Original

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: S-7 TOOL STEEL





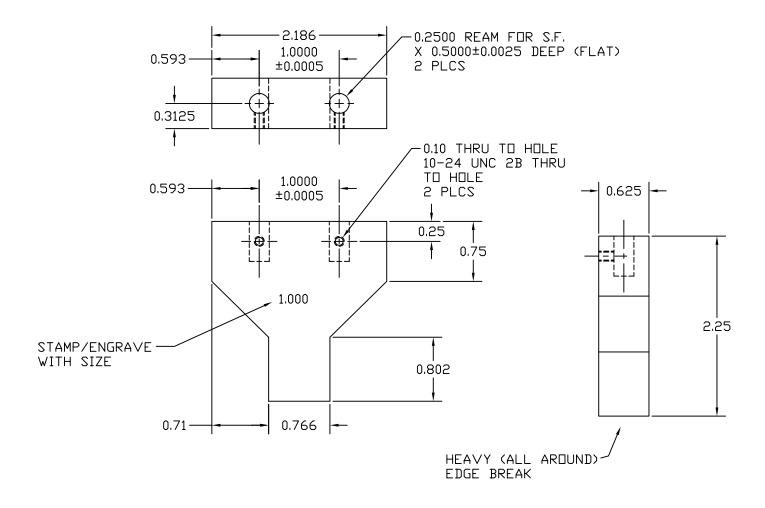
## **TEST FIXTURE MANUAL**

TF Part #: 0060

Issued: 09/14/11

**Revision:** Original

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: S-7 TOOL STEEL





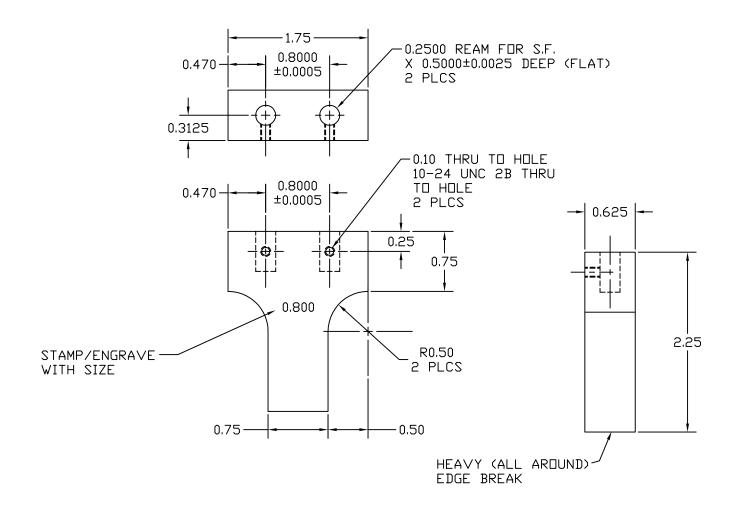
## **TEST FIXTURE MANUAL**

TF Part #: 0061

Issued: 09/14/11

Revision: Original

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: S-7 TOOL STEEL





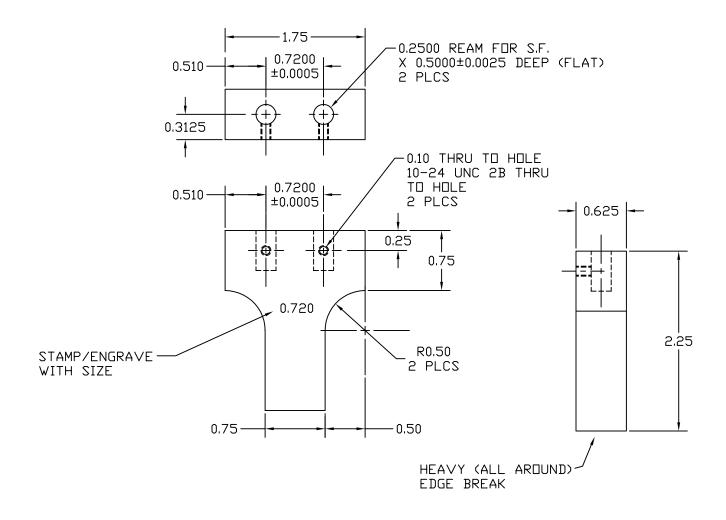
**TEST FIXTURE MANUAL** 

TF Part #: 0062

Issued: 09/14/11

Revision: Original

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: S-7 TOOL STEEL



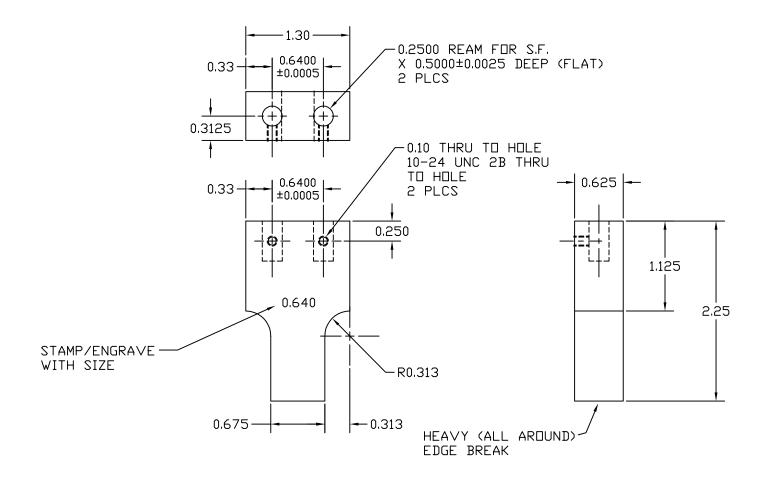


### **TEST FIXTURE MANUAL**

TF Part #: 0063

Issued: 09/14/11 Revision: Original

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: S-7 TOOL STEEL





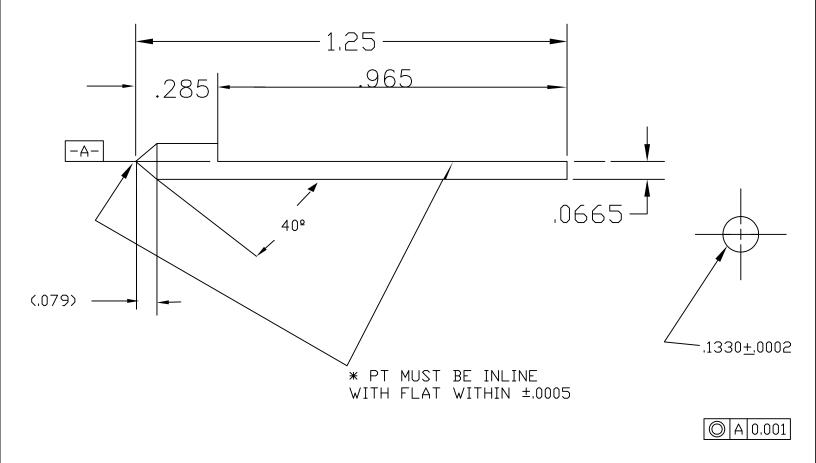
### **TEST FIXTURE MANUAL**

TF Part #: 0064

Issued: 09/14/11

Revision: Original

- 1. DO NOT SCALE THIS DRAWING.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. MATERIAL: CARBIDE DRILL ROD.





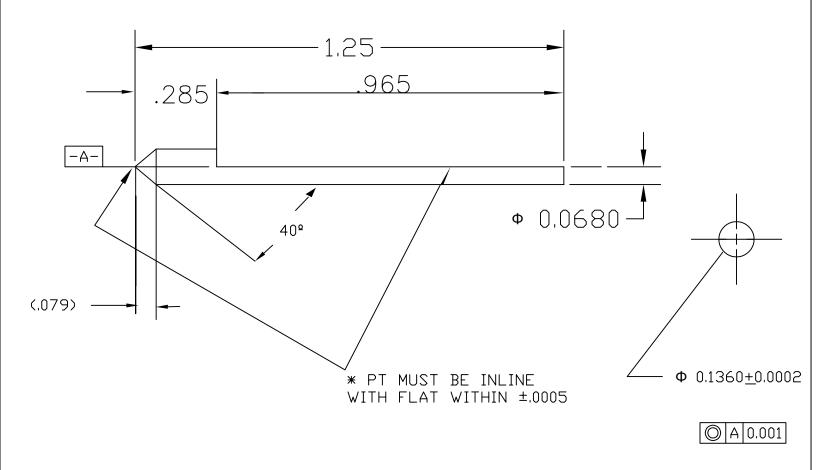
# **TEST FIXTURE MANUAL**

TF Part #: 65

Issued: 04/04/17

Revision: 1

- 1. DO NOT SCALE THIS DRAWING.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. MATERIAL: CARBIDE DRILL ROD.





# **TEST FIXTURE MANUAL**

**TF Part #:** 0065A

**Issued:** 5/18/2022

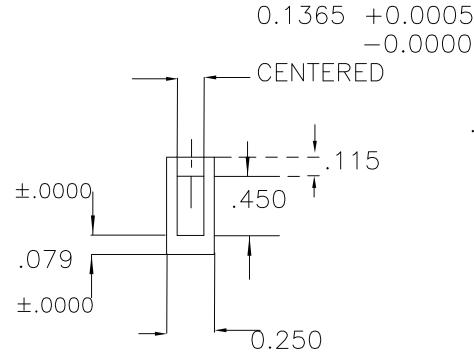
Revision: 1

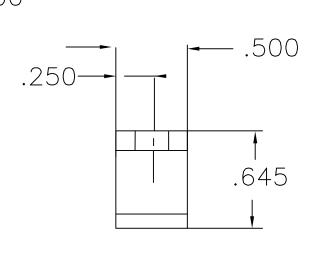
Page: 1 of 1

Φ

- 1. DO NOT SCALE THIS DRAWING.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. MATERIAL: COLD ROLLED STEEL.
- 4. TOLERANCE TO BE -0.000/+0.005.
- 5. MATERIAL: FOR USE WITH TF-65A.
- 6. FITS MITUTOYO 500-171-30 DIGIMATIC CALIPER.









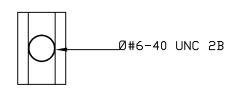
# **TEST FIXTURE MANUAL**

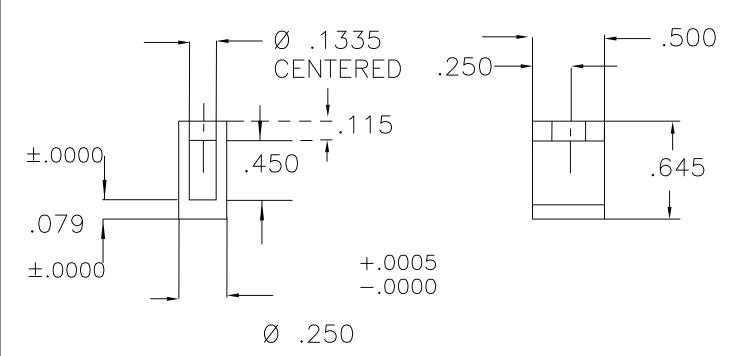
**TF Part #:** TF 0065B

**Issued:** 5/18/2022

Revision: 1

- 1. DO NOT SCALE THIS DRAWING.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. MATERIAL: COLD ROLLED STEEL.
- 4. TOLERANCE TO BE -0.000/+0.005.
- 5. MATERIAL: FOR USE WITH TF-65.







# **TEST FIXTURE MANUAL**

**TF Part #:** TF 0066

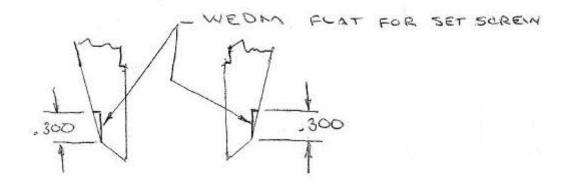
**Issued:** 5/18/2022

**Revision:** 3

Page: 1 of 1

- 1. MACHINE TO MEASURING SURFACE
- 2. EMC 6JE16

## MODIFY CALIPERS



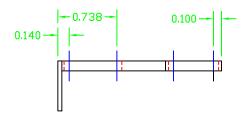


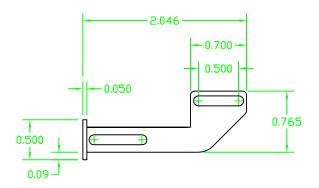
# **TEST FIXTURE MANUAL**

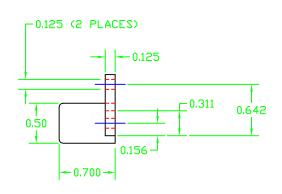
TF Part #: 0066A

Issued: 01/29/18
Revision: ORIGINAL

- 1. DO NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.









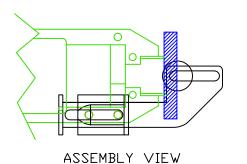
## **TEST FIXTURE MANUAL**

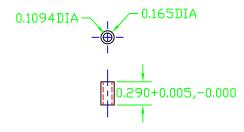
TF Part #: 0067

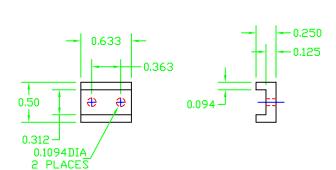
> 10/26/11 Issued:

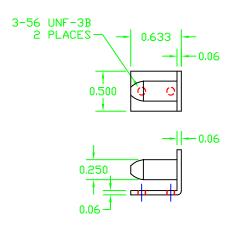
Revision: **Original** 

- 1. DO NOT SCALE THIS DRAWING. 2. ALL DIMENSIONS ARE IN INCHES.
- 3. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.











# **TEST FIXTURE MANUAL**

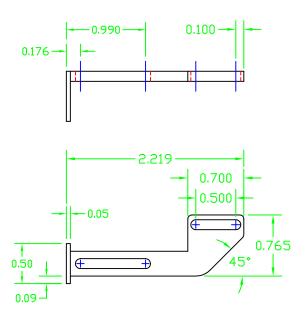
0067A TF Part #:

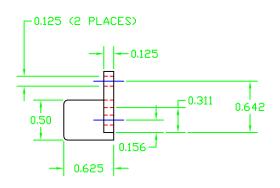
Issued: 10/26/11

Revision: **Original** 

### NDTES:

- 1. DD NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.







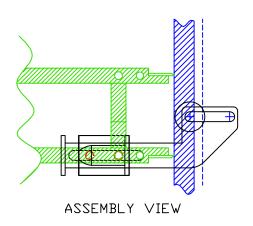
## **TEST FIXTURE MANUAL**

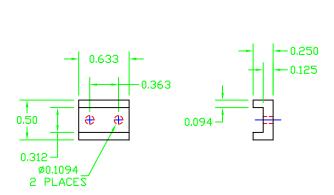
TF Part #: 0068

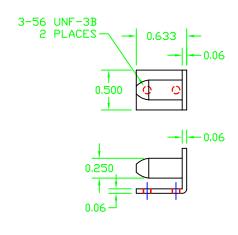
> 10/26/11 Issued:

**Revision: Original** 

- NDTES:
  1. DD NDT SCALE THIS DRAWING.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.









## **TEST FIXTURE MANUAL**

TF Part #: 0068A

Issued: 10/26/11

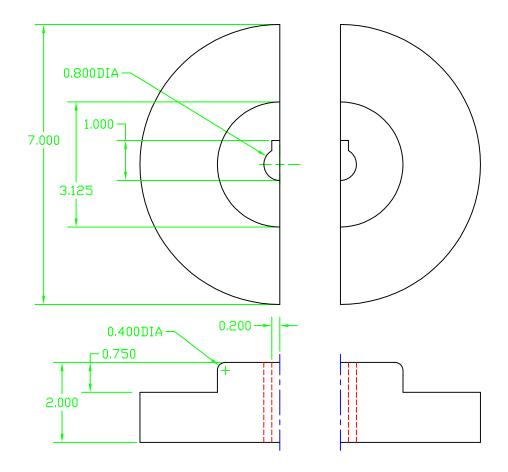
Original Revision:

> 1 of 1 Page:

- NOTES:

  1. DO NOT SCALE THIS DRAWING.

  2. ALL DIMENSIONS ARE IN INCHES.
- 4. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.





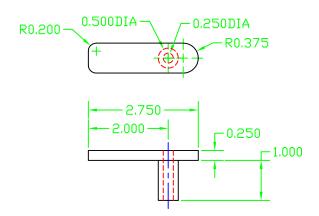
## **TEST FIXTURE MANUAL**

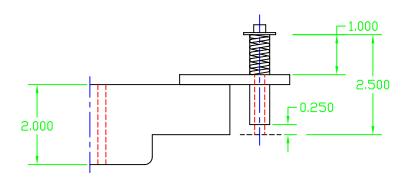
TF Part #: 0069

> 10/26/11 Issued:

Revision: **Original** 

- 1. DD NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.







## **TEST FIXTURE MANUAL**

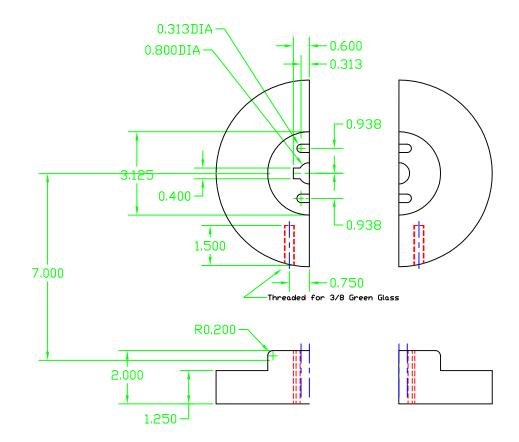
TF Part #: 0069A

> Issued: 10/26/11

Revision: Original

- 1. DO NOT SCALE THIS DRAWING. 2. ALL DIMENSIONS ARE IN INCHES.

- 4. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.





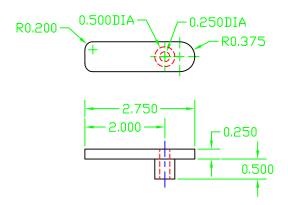
## **TEST FIXTURE MANUAL**

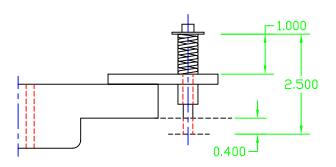
TF Part #: 0070 10/26/11 Issued:

Revision: Original

1 of 1 Page:

- NOTES:
  1. DO NOT SCALE THIS DRAWING.
  2. ALL DIMENSIONS ARE IN INCHES.
  3. MATERIAL: B3 (PYROTEK)
  4. TOLERANCE TO BE -0.000/+0.005, UNLESS OTHERWISE SPECIFIED.







# **TEST FIXTURE MANUAL**

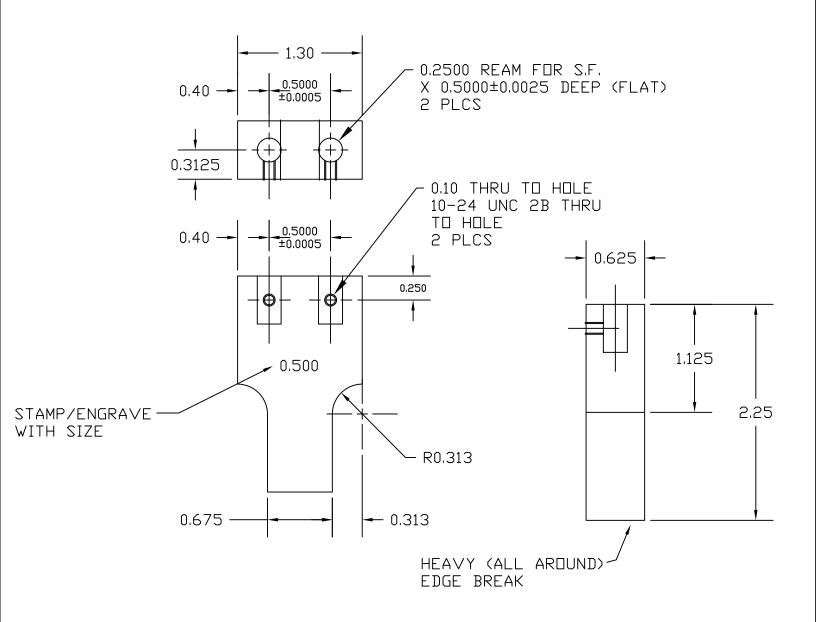
TF Part #: 0070A

> Issued: 10/26/11

Revision: Original

> 1 of 1 Page:

- 1. ALL DIMENSIONS ARE IN INCHES
- 2. MATERIAL: S-7 TOOL STEEL





# **TEST FIXTURE MANUAL**

TF Part #: 0071

Issued: 09/14/11

**Revision:** Original