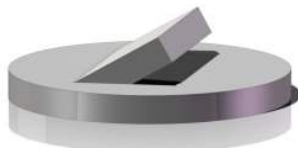
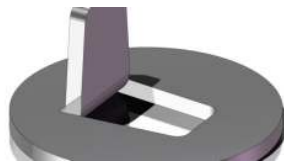
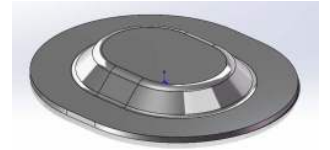
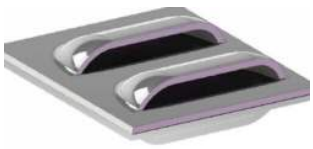


VORMTOEPASSINGEN



Forming Solutions

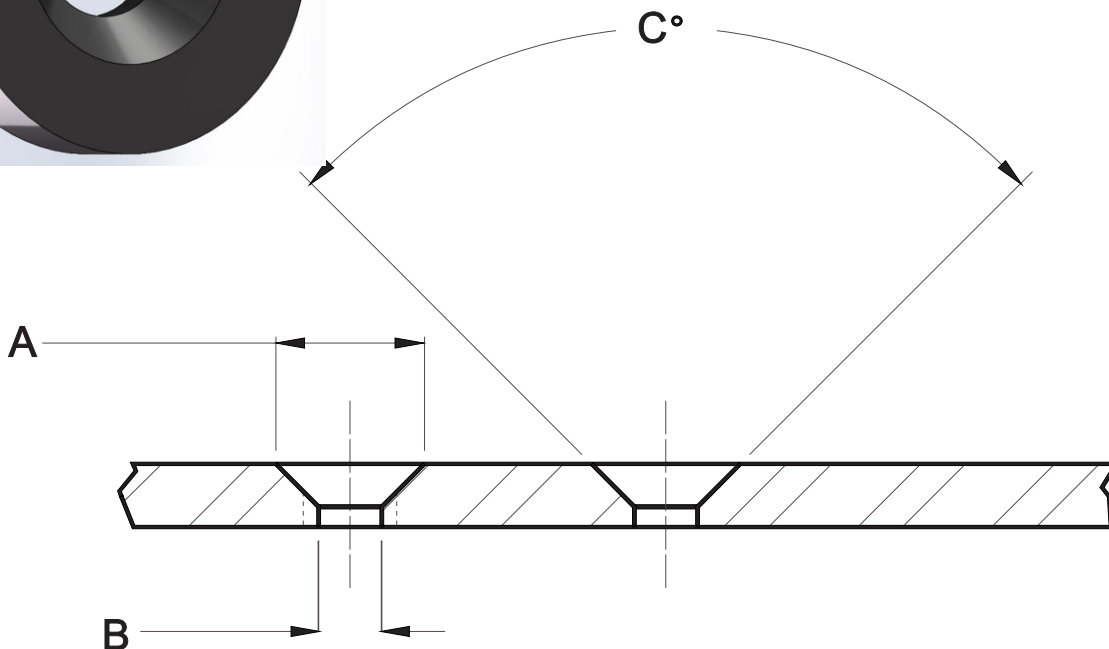


COUNTERSINK

FORM UP FORM DOWN

MATERIAL TYPE	THICKNESS	MAXIMUM DEPTH
MILD STEEL	$\geq .047 (1,2)$ TO $< .121 (3,1)$	85%
	$\geq .121 (3,1)$ TO $< .197 (5,0)$	60%
	$.197 \geq (5,0)$	50%
ALUMINUM	$\geq .047 (1,2)$	85%
STAINLESS STEEL	$\geq .047 (1,2)$ TO $< .077(2,0)$	85%
	$\geq .077(2,0)$ TO $< .188(3,0)$	60%
	$.118 \geq (3,0)$	50%

FOR COUNTERSINKS MORE THAN 85% DEPTH
MATE RECOMMENDS PILOT NOSE STYLE.



GENERAL INFORMATION

MATERIAL TYPE _____
 MATERIAL THICKNESS _____
 MACHINE TYPE _____
 TOOLING STYLE _____

TOOL INFORMATION

SCREW SIZE IF KNOWN _____

A _____
 B _____
 C° _____

**CHECK BOX IF YOU WOULD LIKE MATE TO DETERMINE PRE PIERCE

IF SCREW SIZE IS KNOWN THEN SKIP OTHER DIMS. KNOWING THE SCREW SIZE ALLOWS MATE TO USE INDUSTRY STANDARDS FOR BEST OUTCOME.

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ROUND EXTRUSION

FORM UP FORM DOWN

COMMON SCREW THREAD EXTRUSIONS

SIZE	EXTRUSION I.D.		MAX. MAT'L
	CUT THREAD	ROLLED THREAD	
M3	2.5 (.098)	2.7 (.108)	1.5 (.060)
M4	3.3 (.130)	3.7 (.146)	1.9 (.075)
M5	4.2 (.165)	4.6 (.183)	2.3 (.090)
M6	5.0 (.197)	5.5 (.216)	2.7 (.105)
M8	6.8 (.266)	7.4 (.293)	2.7 (.105)
M10	8.5 (.334)	9.4 (.369)	2.7 (.105)
#4-40	.089 (2.3)	.100 (2.5)	.048 (1.2)
#5-40	.100 (2.5)	.112 (2.8)	.060 (1.5)
#6-32	.107 (2.7)	.120 (3.0)	.075 (1.9)
#8-32	.136 (3.5)	.150 (3.8)	.075 (1.9)
#10-24	.150 (3.8)	.167 (4.2)	.090 (2.3)
#10-32	.159 (4.0)	.174 (4.4)	.090 (2.3)
#12-24	.173 (4.4)	.194 (4.9)	.090 (2.3)
1/4 - 20	.201 (5.1)	.219 (5.6)	.105 (2.7)
1/4 - 28	.218 (5.5)	.235 (6.0)	.105 (2.7)
5/16 - 18	.257 (6.5)	.275 (7.0)	.105 (2.7)
5/16 - 24	.272 (6.9)	.288 (7.3)	.105 (2.7)
3/8 - 16	.312 (7.9)	.343 (8.7)	.105 (2.7)
3/8 - 24	.332 (8.4)	.343 (8.7)	.105 (2.7)

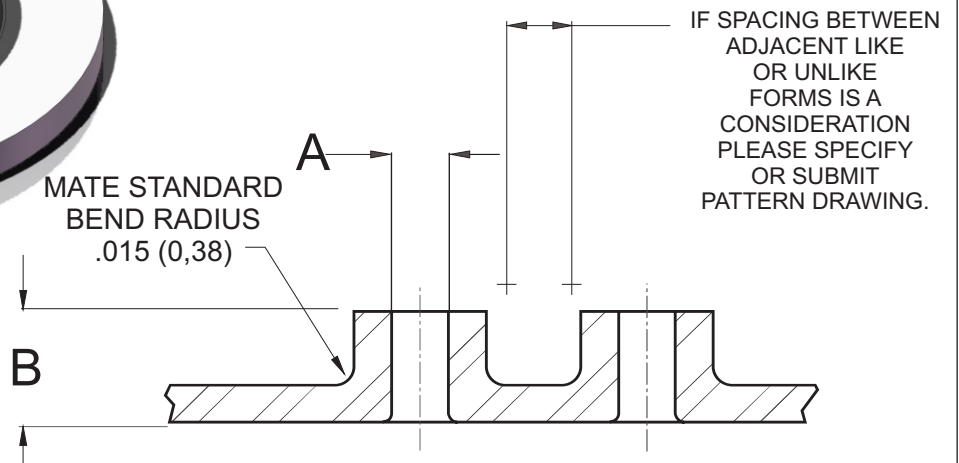
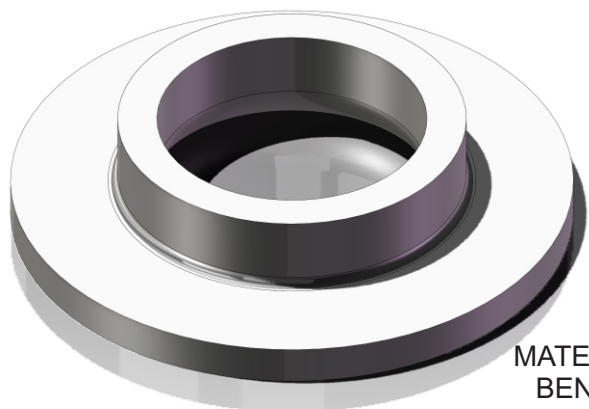
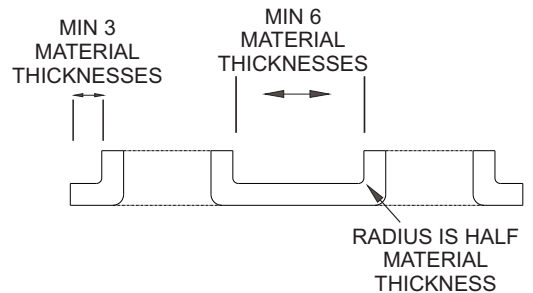
GENERAL INFORMATION

MATERIAL TYPE _____
 MATERIAL THICKNESS _____
 MACHINE TYPE _____
 TOOLING STYLE _____

TOOL INFORMATION

A _____
 B _____

**CHECK BOX IF YOU WOULD LIKE MATE TO DETERMINE PRE PIERCE



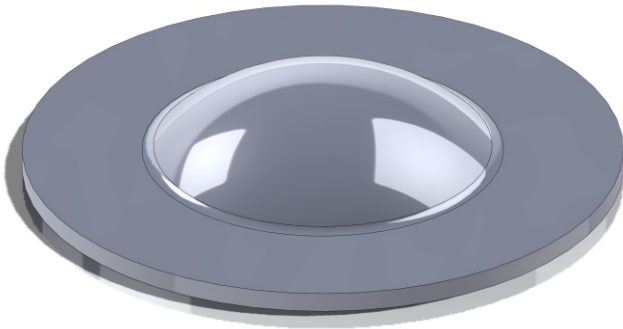
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DIMPLE EMBOSS

FORM UP

FORM DOWN



FILL IN CRITICAL DIMENSIONS ONLY

GENERAL INFORMATION

MATERIAL TYPE _____

MATERIAL THICKNESS _____

MACHINE TYPE _____

TOOLING STYLE _____

TOOL INFORMATION

B _____

D _____

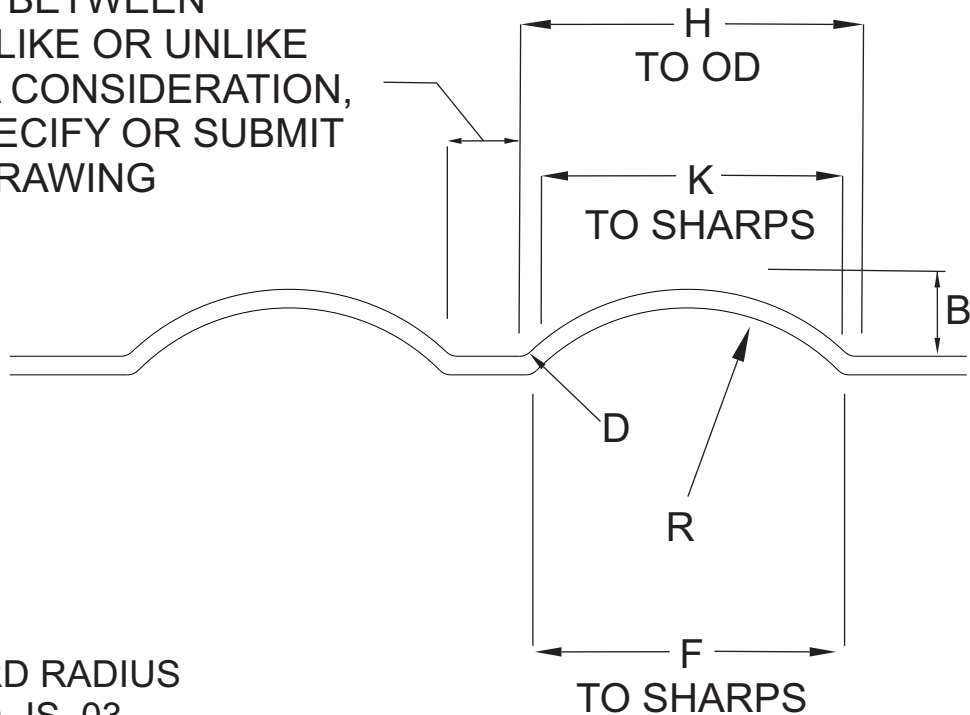
F _____

H _____

K _____

R _____

IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION, PLEASE SPECIFY OR SUBMIT PATTERN DRAWING



MATE'S STANDARD RADIUS
-DIMENSION D- IS .03

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ROUND EMBOSS

FORM UP

FORM DOWN

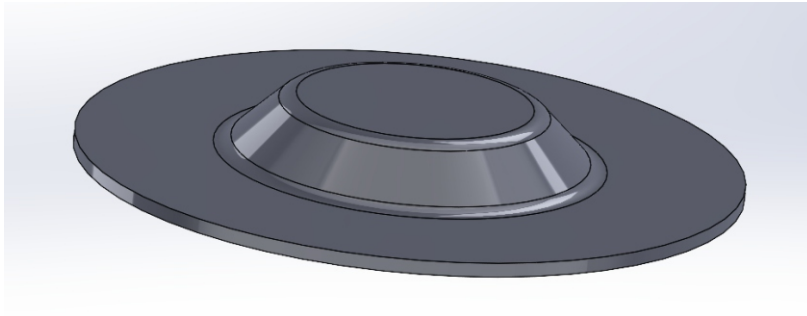
GENERAL INFORMATION

MATERIAL TYPE _____

MATERIAL THICKNESS _____

MACHINE TYPE _____

TOOLING STYLE _____



FILL IN CRITICAL DIMENSIONS ONLY

TOOL INFORMATION

B _____

D _____

F _____

H _____

K _____

C _____

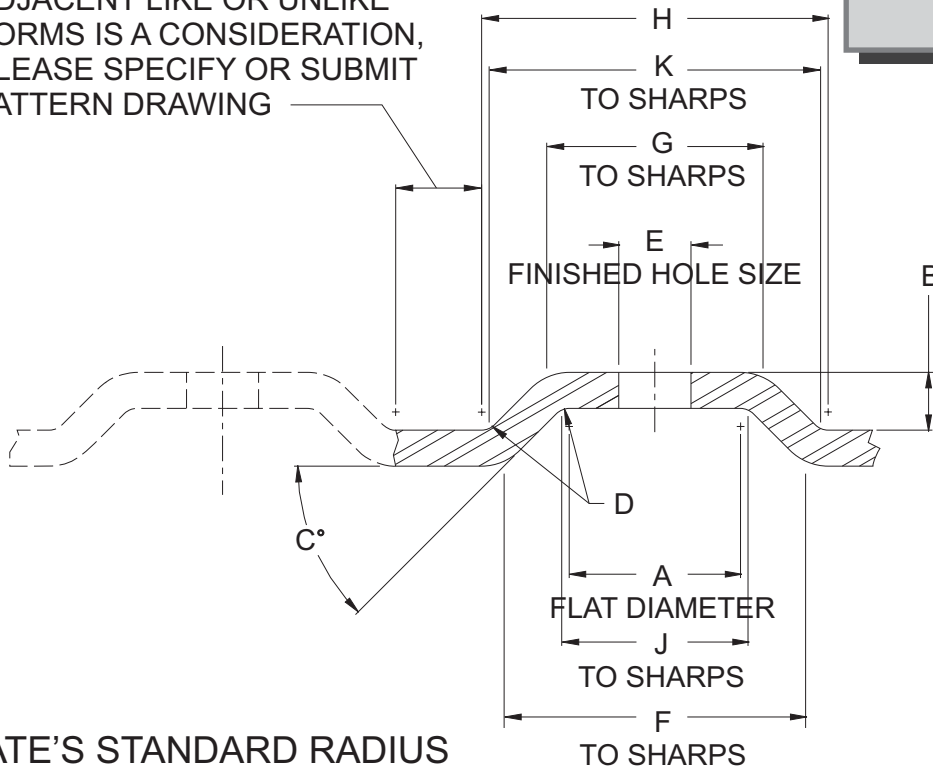
G _____

J _____

E** _____

**CHECK BOX IF YOU WOULD LIKE MATE TO DETERMINE PRE PIERCE

IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION, PLEASE SPECIFY OR SUBMIT PATTERN DRAWING



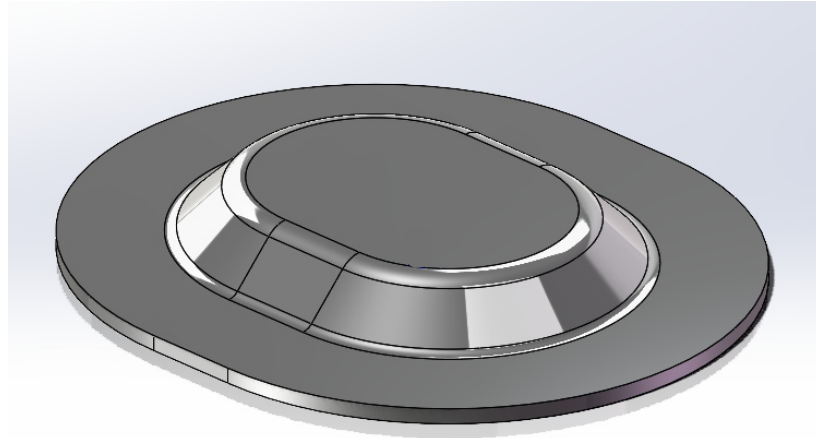
MATE'S STANDARD RADIUS
-DIMENSION D- IS .03

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SHAPE EMBOSS

FORM UP FORM DOWN



GENERAL INFORMATION

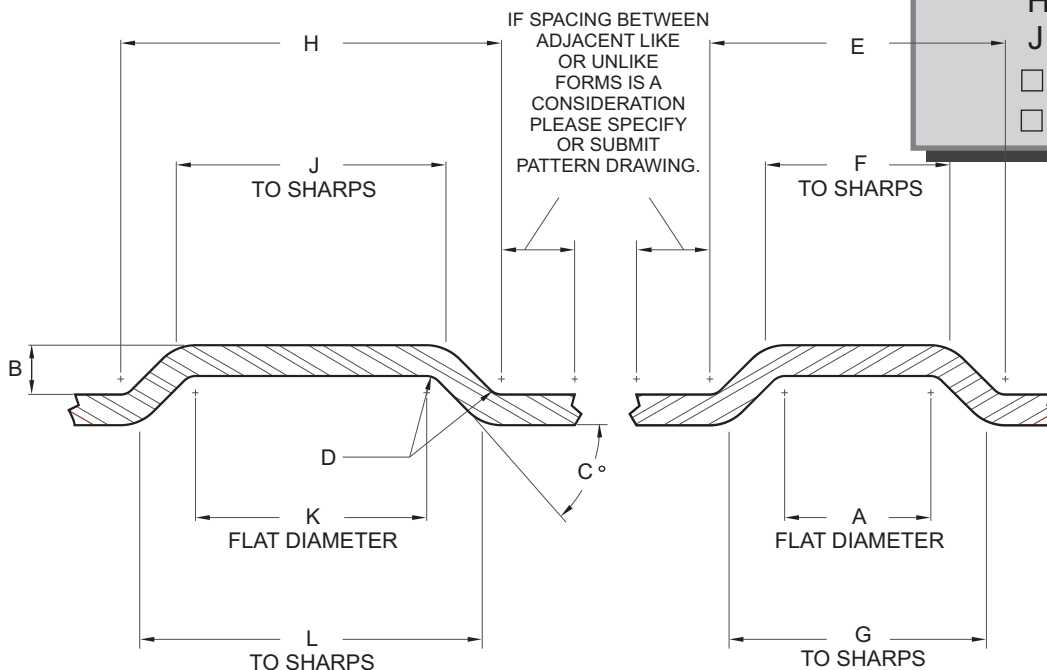
MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

TOOL INFORMATION

A _____
B _____
C° _____
D _____
E _____
F _____
G _____
H _____
J _____

RECTANGLE OBROUND
 SQUARE OTHER

FILL IN CRITICAL DIMENSIONS ONLY



FRONT VIEW

SIDE VIEW

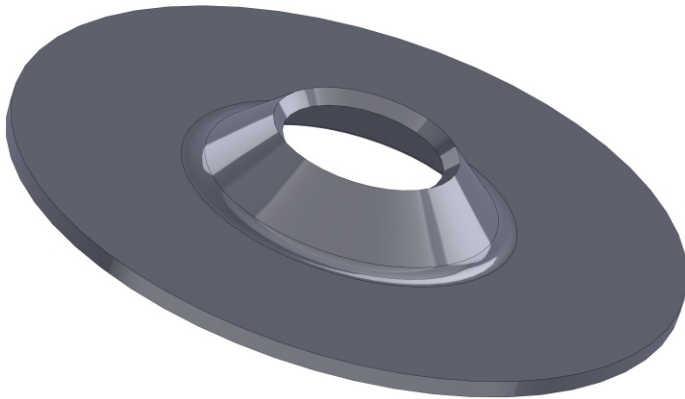
MATE'S STANDARD RADIUS
-DIMENSION D- IS .03.

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COUNTERSINK EMBOSS

FORM UP FORM DOWN



FILL IN CRITICAL DIMS ONLY

GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

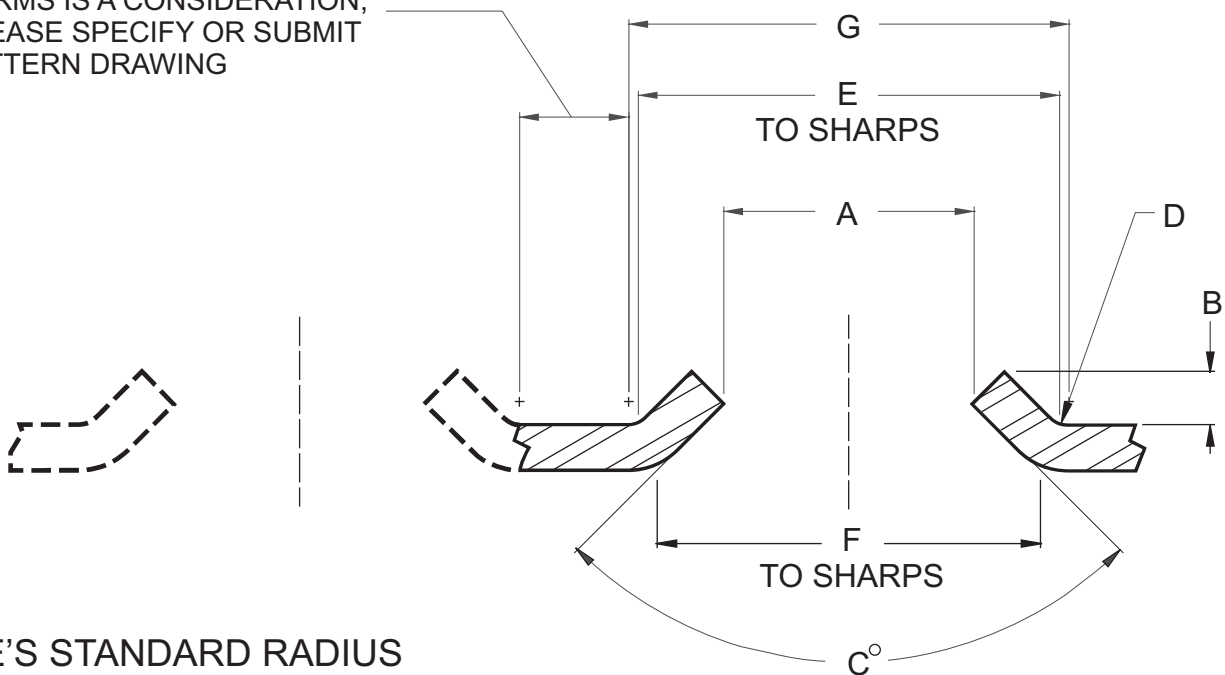
TOOL INFORMATION

A _____
B _____
C° _____
D _____
E _____
F _____
G _____

**CHECK BOX IF YOU WOULD LIKE MATE TO DETERMINE PRE PIERCE

IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION, PLEASE SPECIFY OR SUBMIT PATTERN DRAWING

ONLY 3 DIMENSIONS REQUIRED



MATE'S STANDARD RADIUS
-DIMENSION D- IS .030

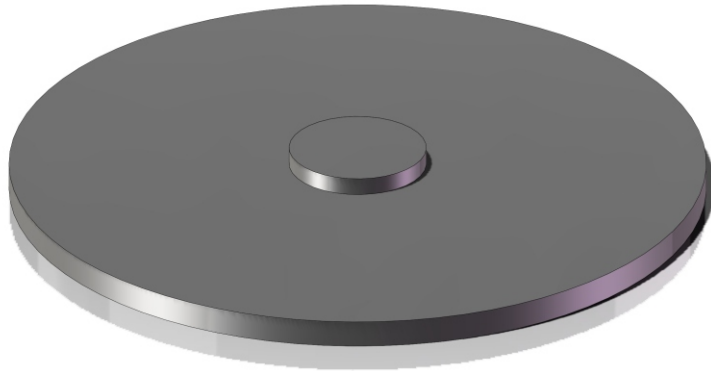
ORDERS@MATE.COM



SHEAR BUTTON

FORM UP

FORM DOWN



GENERAL INFORMATION

MATERIAL TYPE _____

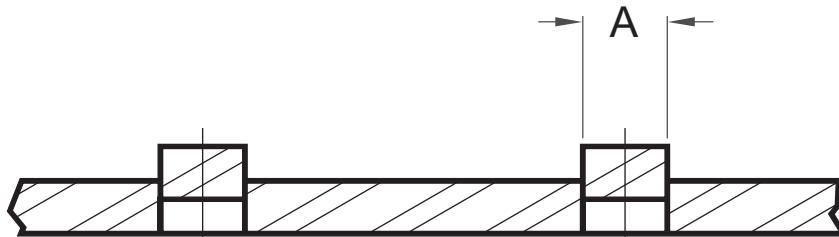
MATERIAL THICKNESS _____

MACHINE TYPE _____

TOOLING STYLE _____

TOOL INFORMATION

A _____



IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION, PLEASE SPECIFY OR SUBMIT PATTERN DRAWING

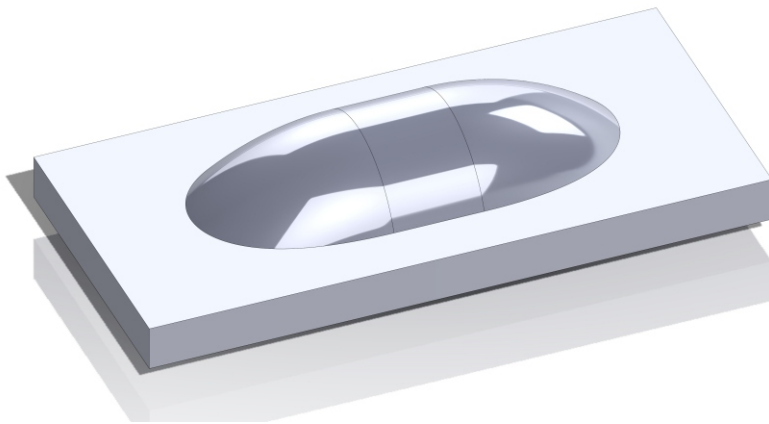
ORDERS@MATE.COM



CONTINUOUS BEAD

FORM UP

FORM DOWN



FILL IN CRITICAL DIMENSIONS ONLY

GENERAL INFORMATION

MATERIAL TYPE _____

MATERIAL THICKNESS _____

MACHINE TYPE _____

TOOLING STYLE _____

TOOL INFORMATION

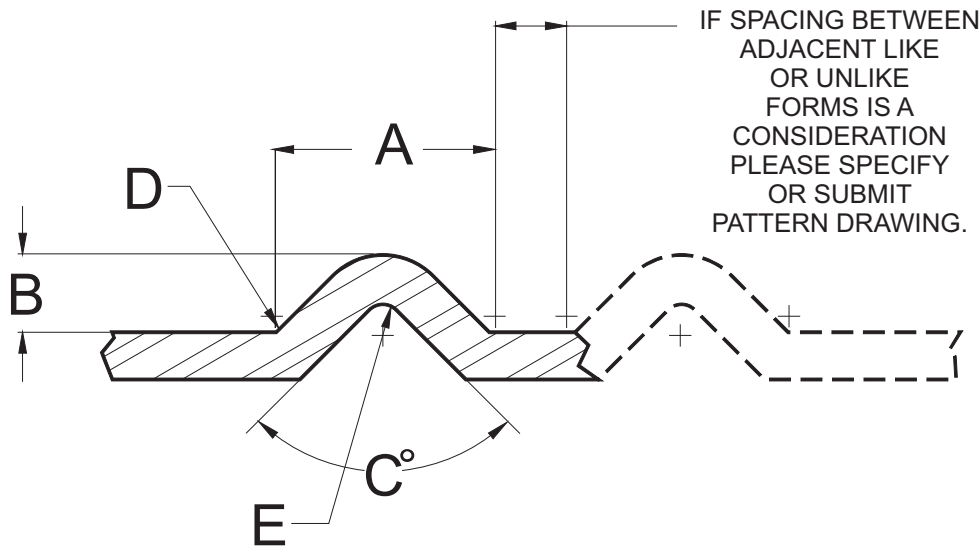
A _____

B _____

C° _____

D _____

E _____



MATE'S STANDARD RADIUS
-DIMENSION D- IS .03.

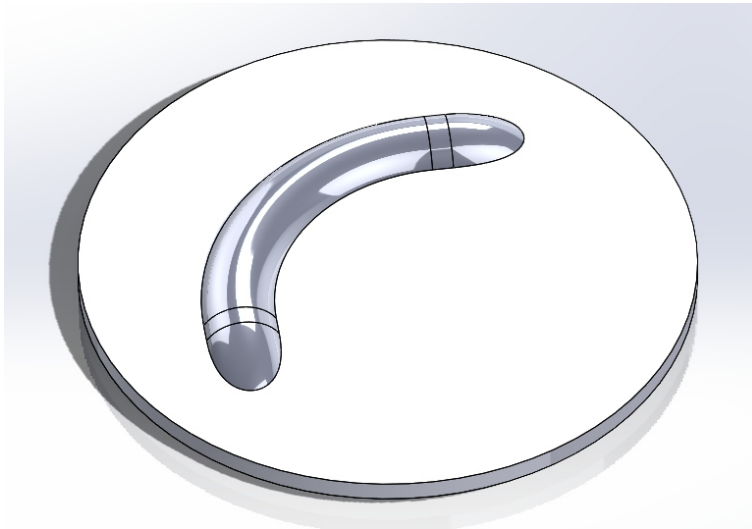
ORDERS@MATE.COM



CONTINUOUS CURVED BEAD

FORM UP

FORM DOWN



FILL IN CRITICAL DIMS ONLY

GENERAL INFORMATION

MATERIAL TYPE _____

MATERIAL THICKNESS _____

MACHINE TYPE _____

TOOLING STYLE _____

TOOL INFORMATION

A _____

B _____

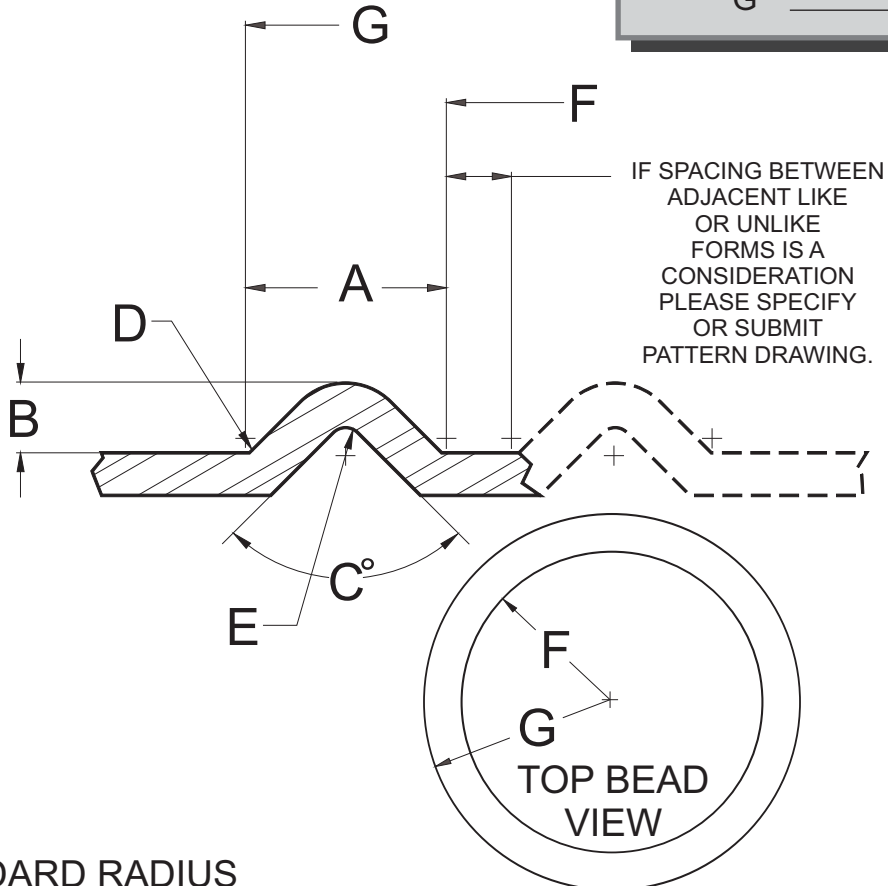
C° _____

D _____

E _____

F _____

G _____



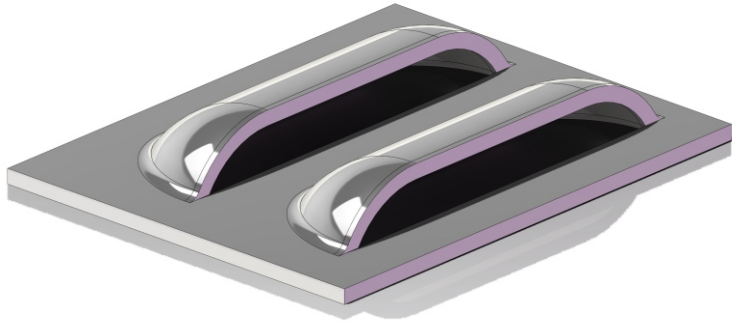
MATE'S STANDARD RADIUS
-DIMENSION D- IS .03.



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LOUVER RADIUS BACK



GENERAL INFORMATION

MATERIAL TYPE _____

MATERIAL THICKNESS _____

MACHINE TYPE _____

TOOLING STYLE _____

TOOL INFORMATION

A _____

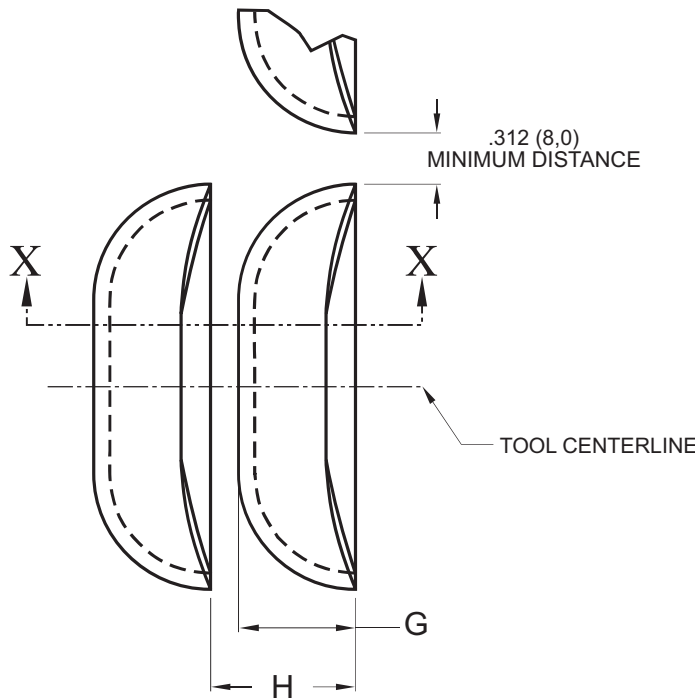
B _____

E _____

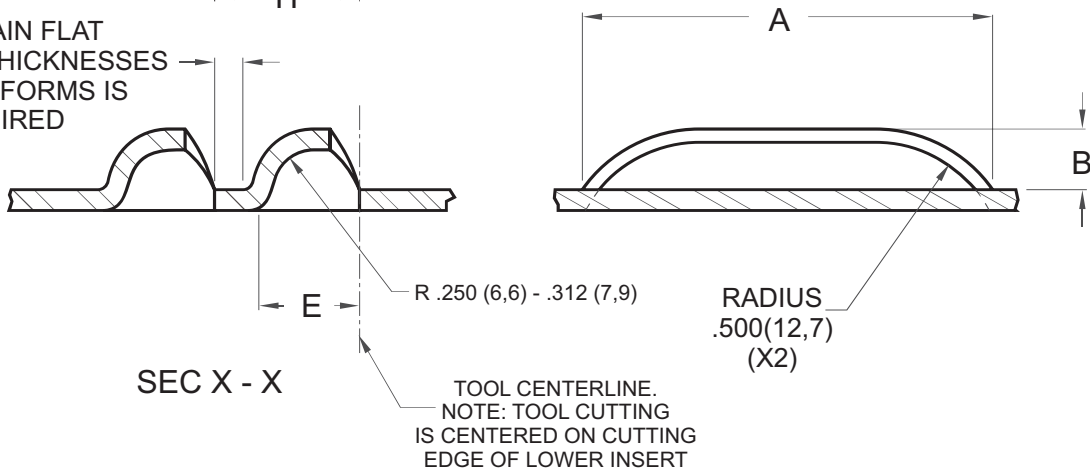
G _____

H _____

MATE'S STANDARD BEND RADIUS ON THE BACKSIDE OF THE LOUVER IS .03.



TO REMAIN FLAT
3 MATERIAL THICKNESSES
BETWEEN FORMS IS
REQUIRED





LOUVER OPEN END



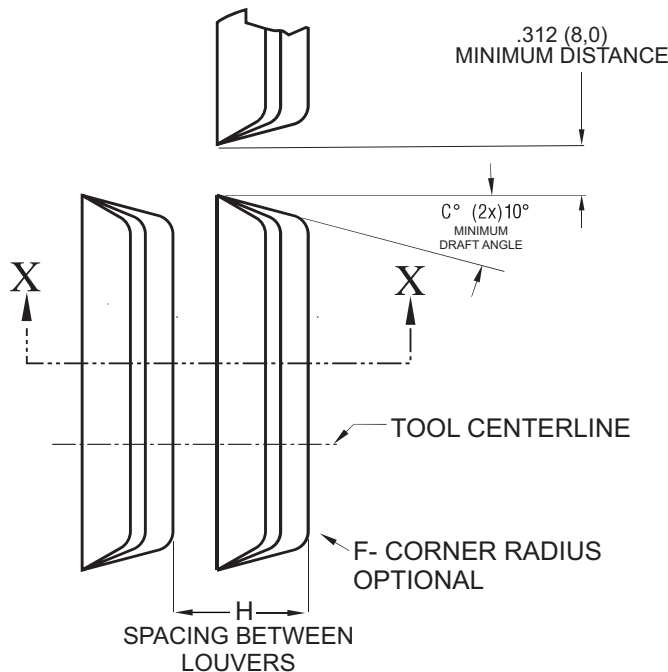
GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

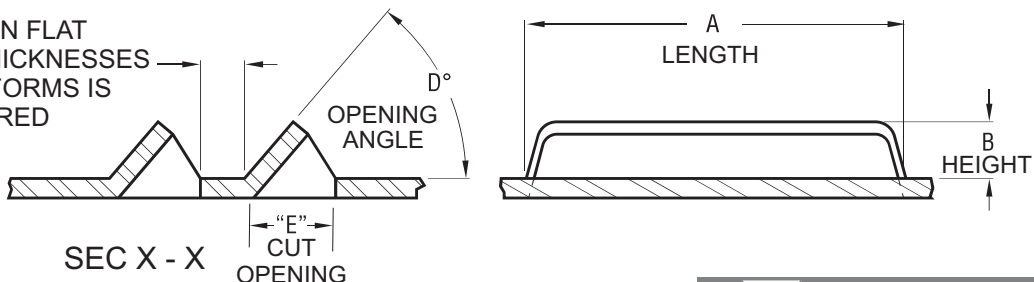
TOOL INFORMATION

A _____
B _____
C° _____
D° _____
E _____
F _____

MATE'S STANDARD BEND RADIUS ON THE BACKSIDE OF THE LOUVER IS .03.
STANDARD CORNER RADIUS IS .03.



TO REMAIN FLAT
3 MATERIAL THICKNESSES
BETWEEN FORMS IS
REQUIRED



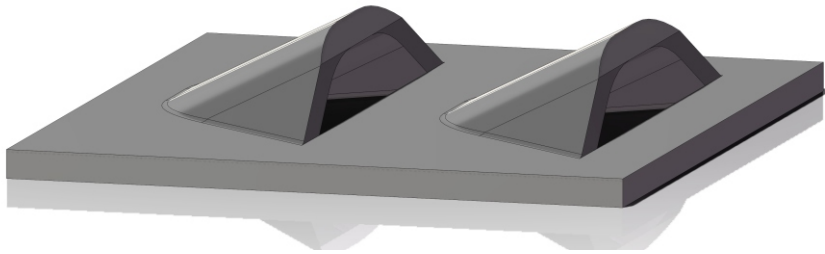
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CONTINUOUS LOUVER

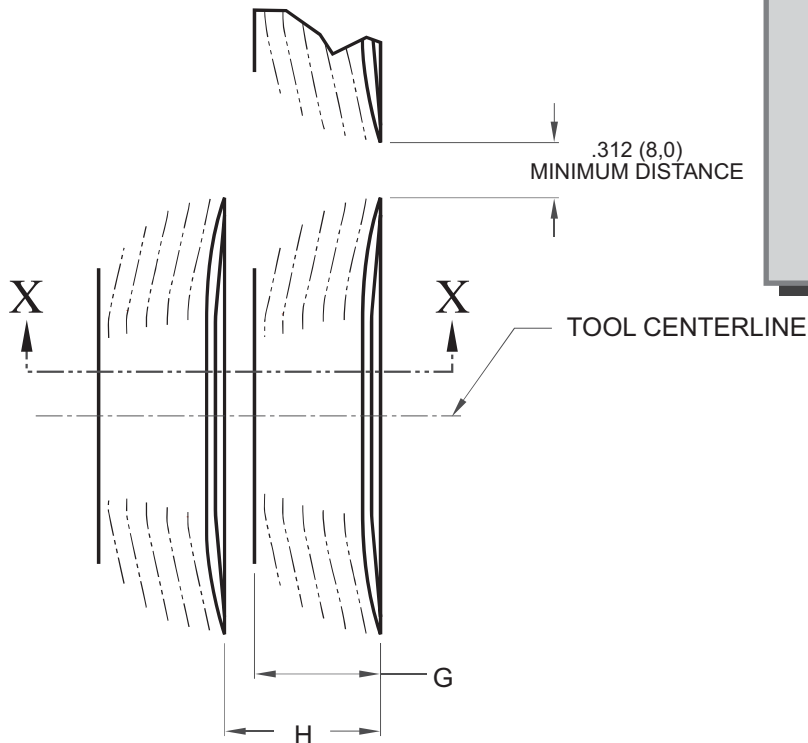
GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

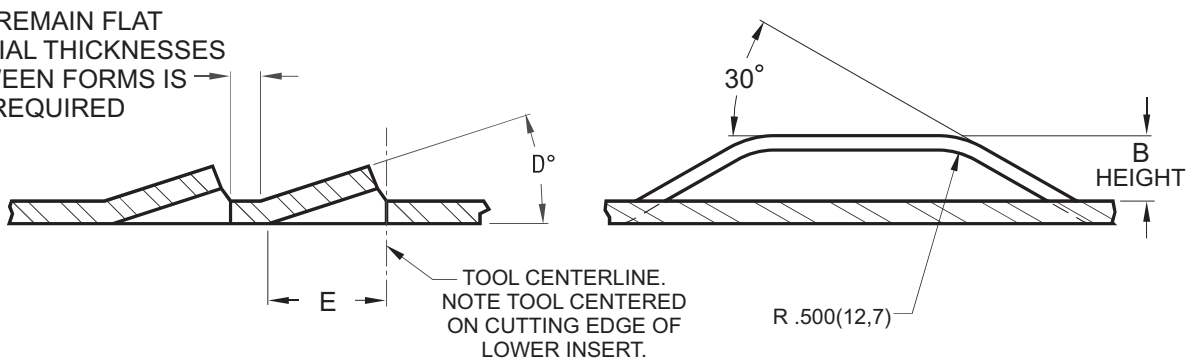


TOOL INFORMATION

B _____
D° _____
E _____
G _____
H _____



TO REMAIN FLAT
3 MATERIAL THICKNESSES
BETWEEN FORMS IS
REQUIRED

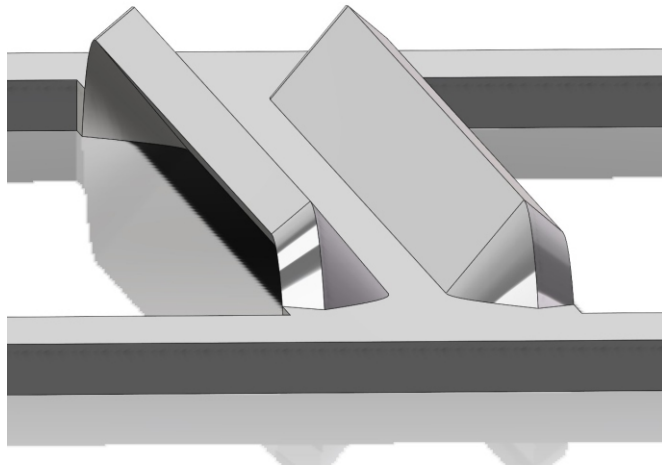


SEC X - X

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CARD GUIDE

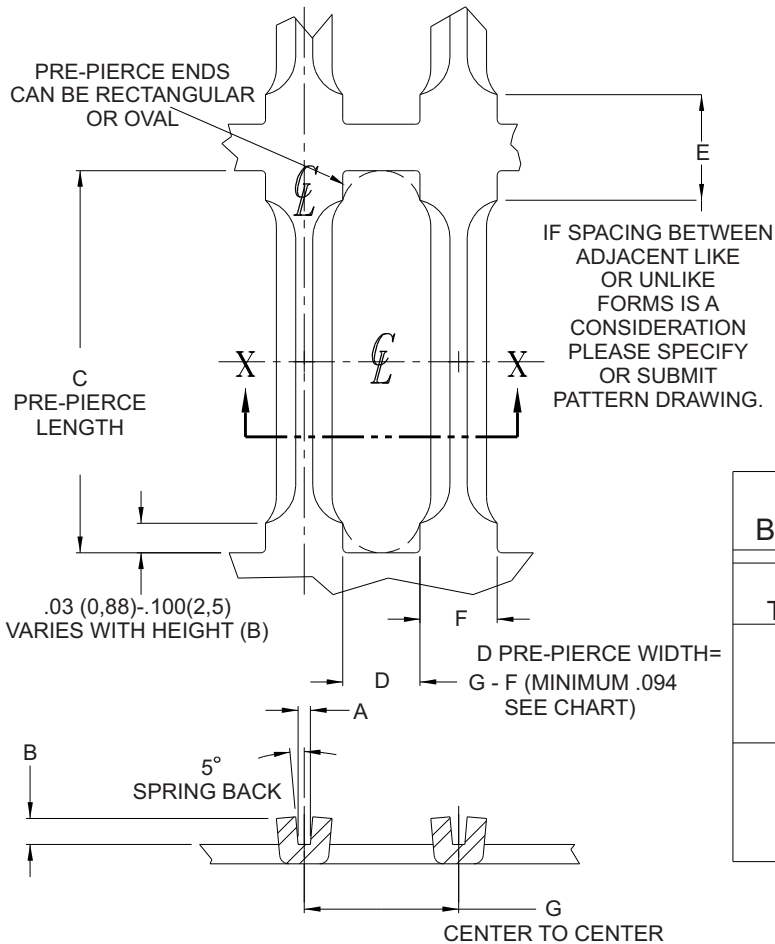


GENERAL INFORMATION

MATERIAL TYPE _____
 MATERIAL THICKNESS _____
 MACHINE TYPE _____
 TOOLING STYLE _____

TOOL INFORMATION

A _____
 B _____
 C° _____
 D _____
 E _____
 F _____
 G _____



RECOMMENDED PRE-PIERCE TABLE
 BASED ON .076 (1,91) CARD GUIDE WIDTH

MATERIAL THICKNESS	B	F
.059 (1,5)	.080 (2,0)	.284 (7,2)
	.090 (2,3)	.304 (7,7)
	.100 (2,5)	.324 (8,2)
	.125 (3,2)	.374 (9,5)
.048 (1,2)	.080 (2,0)	.274 (7,0)
	.090 (2,3)	.294 (7,5)
	.100 (2,5)	.314 (8,0)
	.125 (3,2)	.364 (9,2)

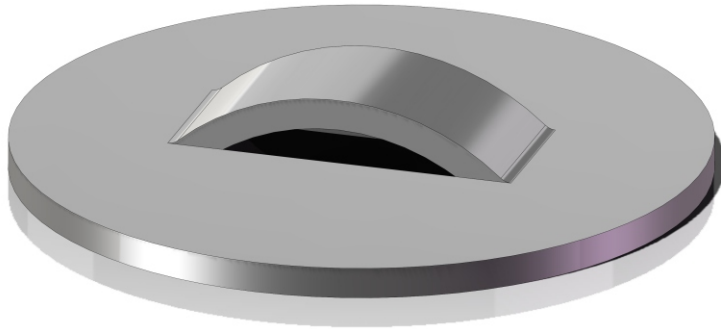
SECTION X-X

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SINGLE BRIDGE/SRING CLAMP

FORM UP FORM DOWN



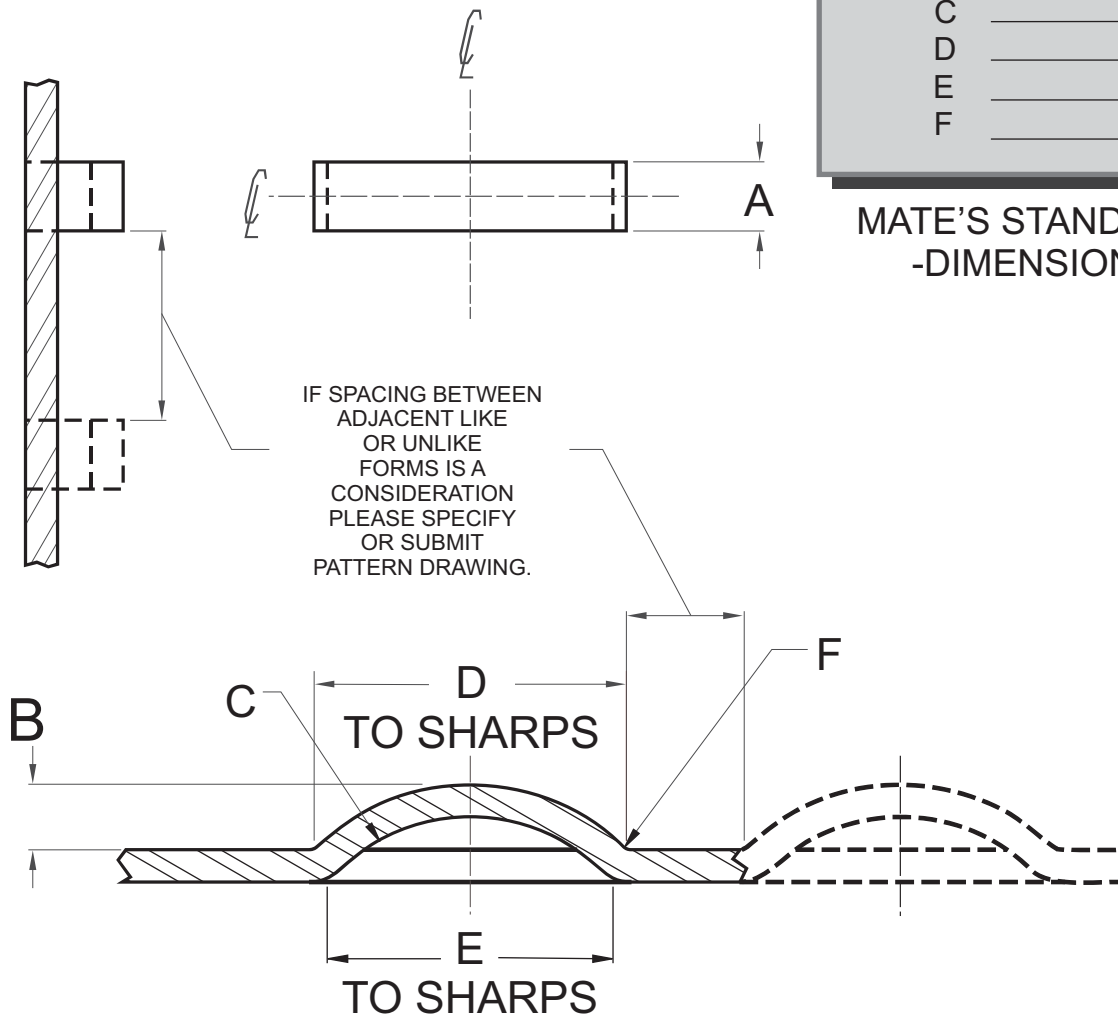
GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

TOOL INFORMATION

A _____
B _____
C _____
D _____
E _____
F _____

FILL IN CRITICAL DIMS ONLY



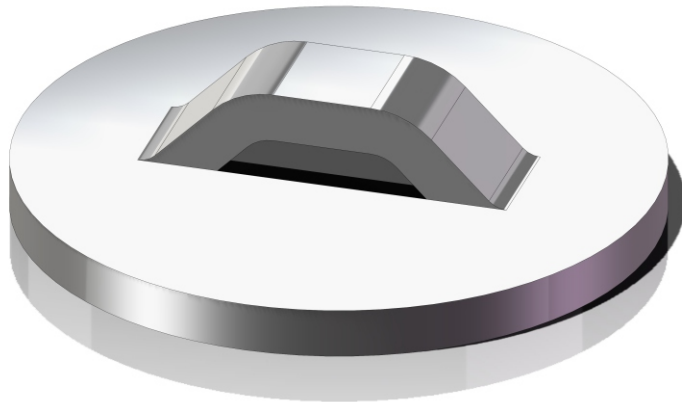
MATE'S STANDARD RADIUS -DIMENSION F- IS .03.

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SINGLE BRIDGE/CABLE CLAMP

FORM UP FORM DOWN



FILL IN CRITICAL DIMS ONLY

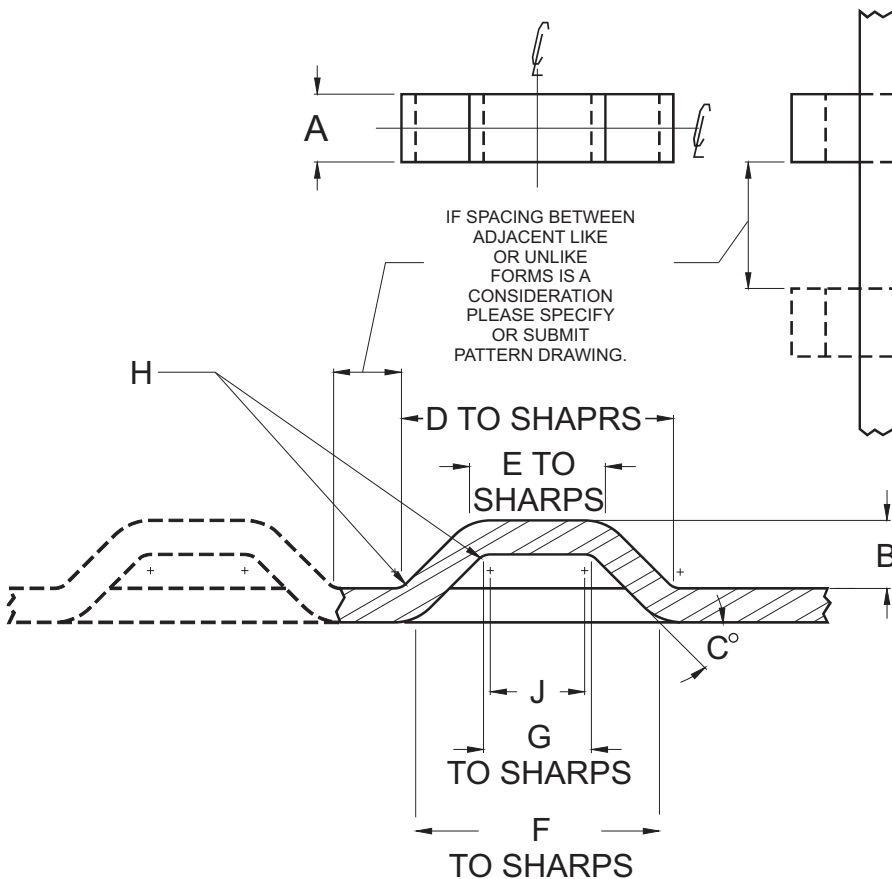
GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

TOOL INFORMATION

A _____
B _____
C° _____
D _____
E _____
F _____
G _____
H _____
J _____

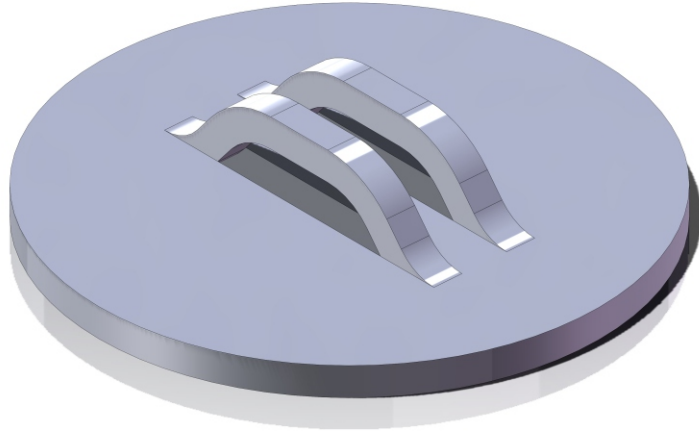
**MATE'S STANDARD RADIUS
-DIMENSION H- IS .030**



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DOUBLE BRIDGE/CARD GUIDE



FILL IN CRITICAL DIMS ONLY

GENERAL INFORMATION

MATERIAL TYPE _____

MATERIAL THICKNESS _____

MACHINE TYPE _____

TOOLING STYLE _____

TOOL INFORMATION

A _____

B _____

C° _____

D _____

E _____

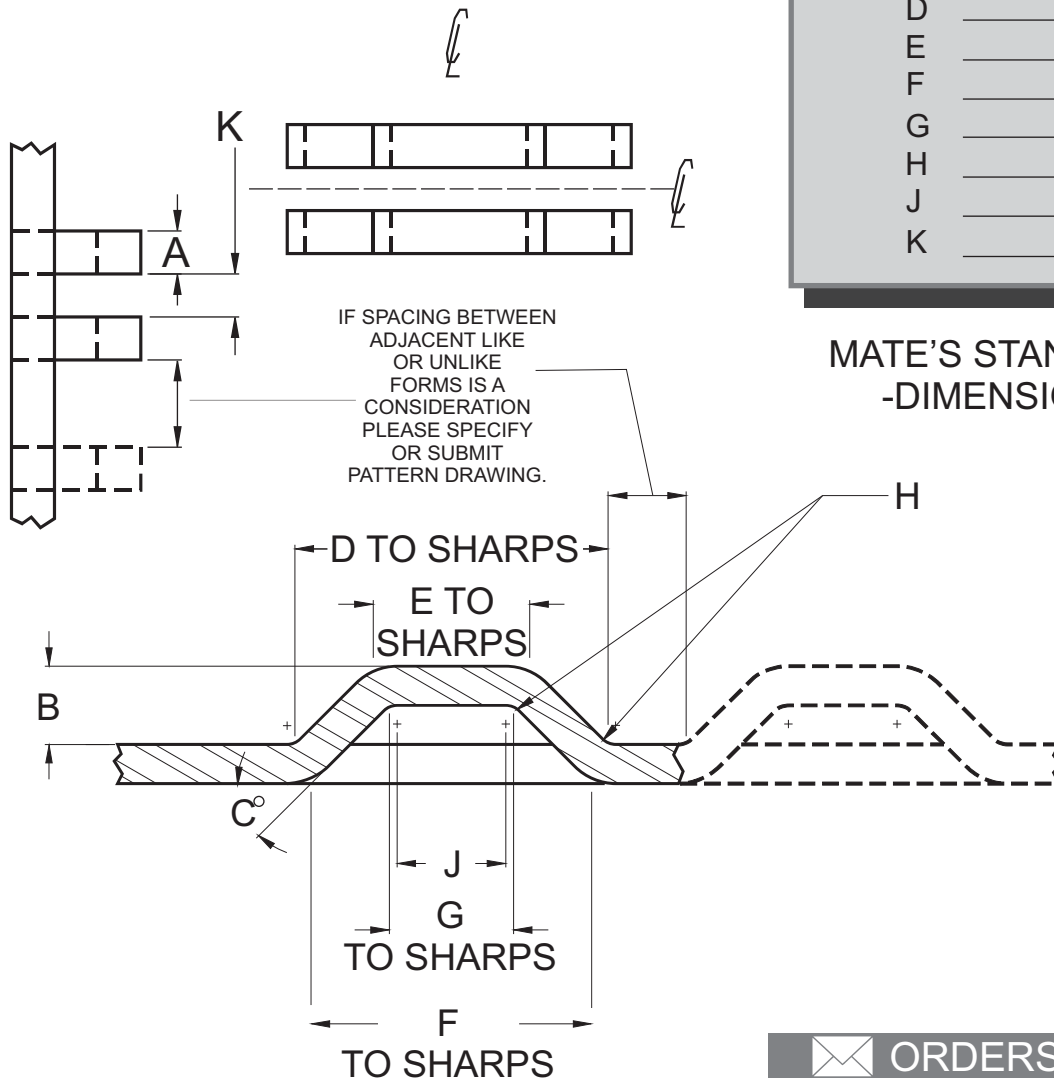
F _____

G _____

H _____

J _____

K _____



MATE'S STANDARD RADIUS -DIMENSION H- IS .03.

ORDERS@MATE.COM



DOUBLE BRIDGE RADIUSED CARD GUIDE

FORM UP FORM DOWN



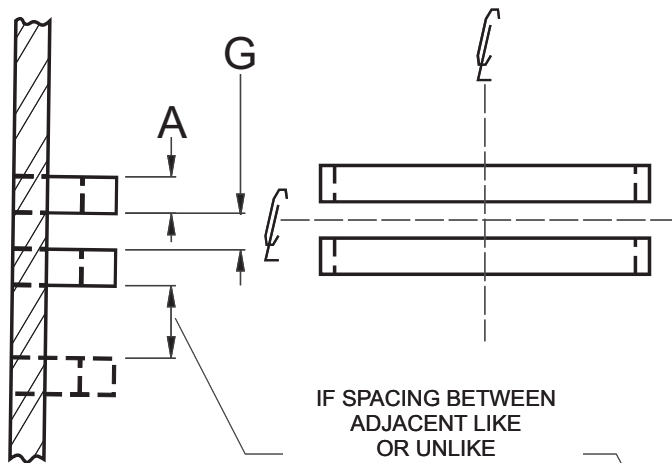
GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

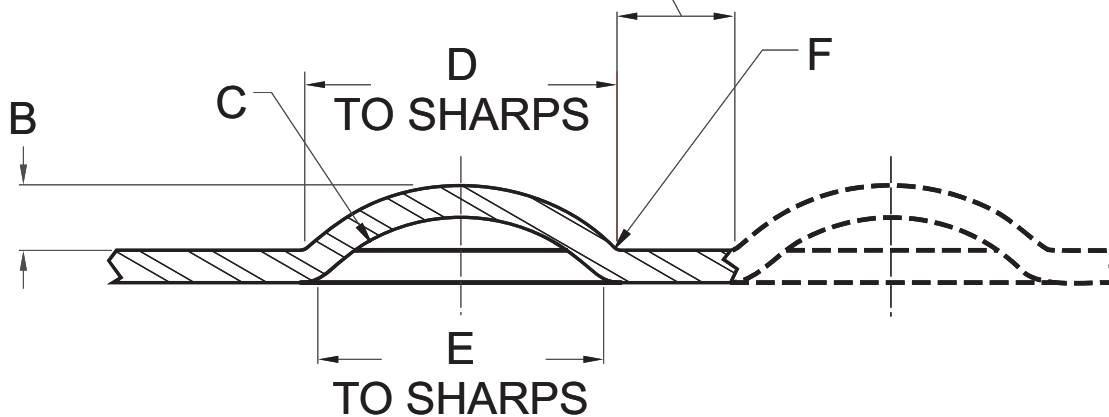
TOOL INFORMATION

A _____
B _____
C _____
D _____
E _____
F _____
G _____

FILL IN CRITICAL DIMS ONLY



IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION PLEASE SPECIFY OR SUBMIT PATTERN DRAWING.



MATE'S STANDARD RADIUS -DIMENSION F- IS .03.

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SCREW POCKET

COMMON SCREW THREAD HOLES

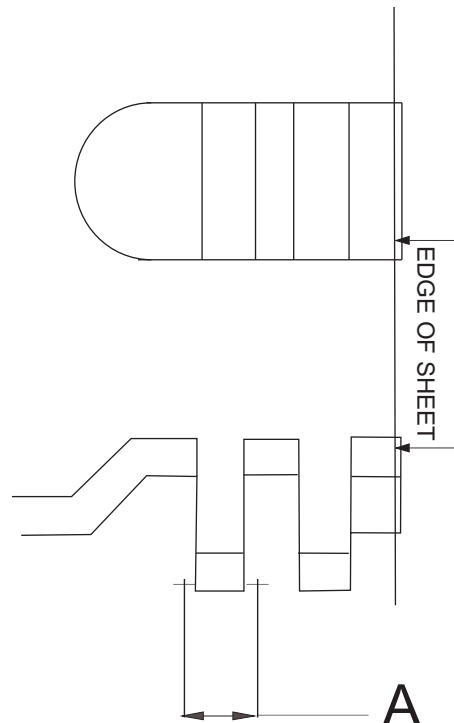
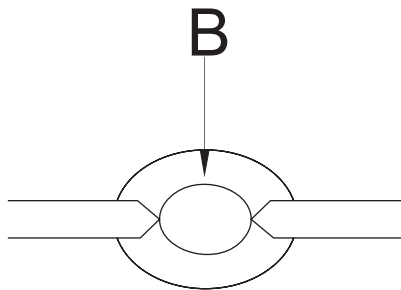
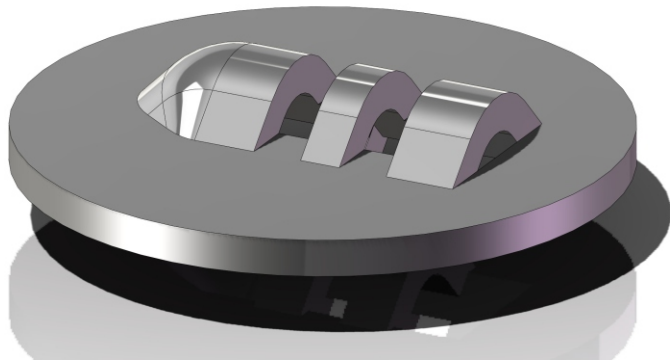
SIZE	HOLE ID	
	CUT THREAD	ROLLED THREAD
M3	2.5 (.098)	2.7 (.108)
M4	3.3 (.130)	3.7 (.146)
M5	4.2 (.165)	4.6 (.183)
#4-40	.089 (2.3)	.100 (2.5)
#5-40	.100 (2.5)	.112 (2.8)
#6-32	.107 (2.7)	.120 (3.0)
#8-32	.136 (3.5)	.150 (3.8)
#10-24	.150 (3.8)	.167 (4.2)
#10-32	.159 (4.0)	.174 (4.4)
#12-24	.173 (4.4)	.194 (4.9)
1/4 - 20	.201 (5.1)	.219 (5.6)
1/4 - 28	.218 (5.5)	.235 (6.0)

GENERAL INFORMATION

MATERIAL TYPE _____
 MATERIAL THICKNESS _____
 MACHINE TYPE _____
 TOOLING STYLE _____

TOOL INFORMATION

A _____
 B _____
 STANDARD CONFIGURATION 3
 FORMS UP AND 2 FORMS DOWN



ORDERS@MATE.COM



KNOCKOUT DOUBLE DIAMETER

FORM UP FORM DOWN

MATE STANDARDS

TAB LOCATION		
AØ OR BØ	LOWER	UPPER
0- 1.374 (0,00-34,90)		
1.375 TO MAX (34,93) TO MAX		

TAB SIZE		
MATERIAL THICKNESS	C	D
.020-.045(0,51-1,14)	.060(1,52)	.030(0,76)
.046-.070(1,16-1,78)	.090(2,29)	.050(1,27)
.071-.097(1,80-2,46)	.120(3,05)	.060(1,52)
.098-.127(2,49-3,23)	.180(4,57)	.090(2,29)
.128-.179(3,25-4,55)	.250(6,35)	.125(3,18)

GENERAL INFORMATION

MATERIAL TYPE _____
 MATERIAL THICKNESS _____
 MACHINE TYPE _____
 TOOLING STYLE _____

TOOL INFORMATION

AØ _____
 BØ _____

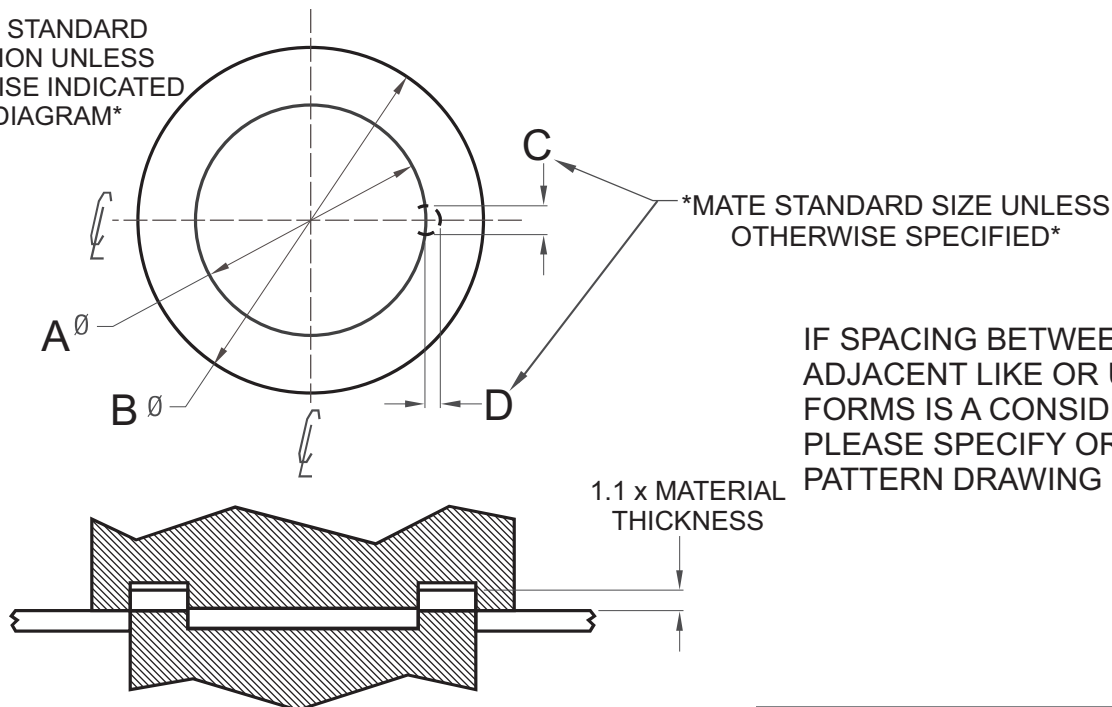
IF NOT MATE STANDARD TAB SIZE:

C _____
 D _____

QUANTITY _____

LOCATION- INDICATE ON DIAGRAM.

MATE STANDARD LOCATION UNLESS OTHERWISE INDICATED ON DIAGRAM



MATE STANDARD SIZE UNLESS OTHERWISE SPECIFIED

IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION, PLEASE SPECIFY OR SUBMIT PATTERN DRAWING

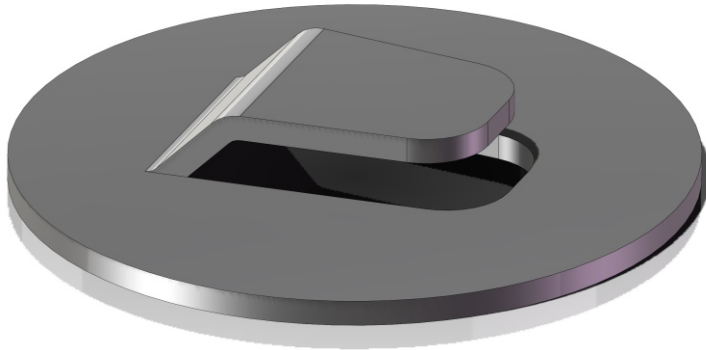
*FORM UP SHOWN IN DIAGRAM

ORDERS@MATE.COM



SHELF CLIP

FORM UP FORM DOWN



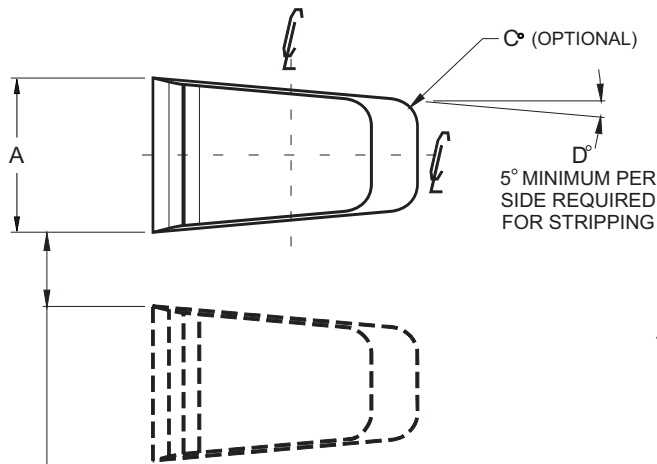
GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

TOOL INFORMATION

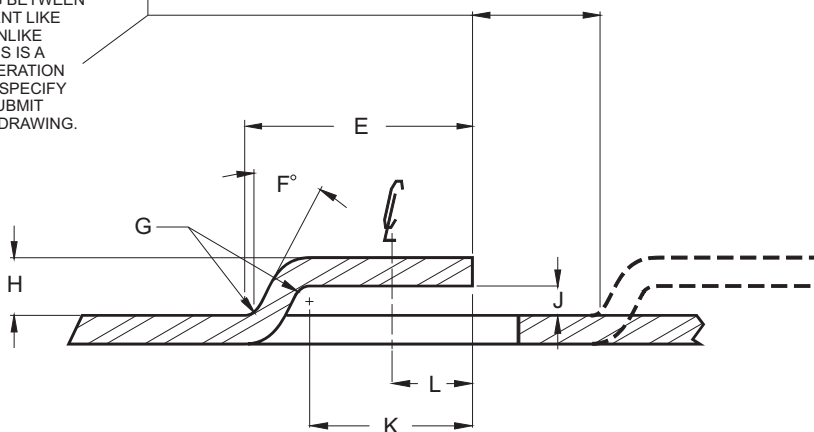
A _____
C° _____
D _____
E _____
F _____
G _____
H _____
J _____
K _____
L* _____

FILL IN CRITICAL DIMS ONLY



*IF NOT SPECIFIED MATE WILL DETERMINE

IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION PLEASE SPECIFY OR SUBMIT PATTERN DRAWING.



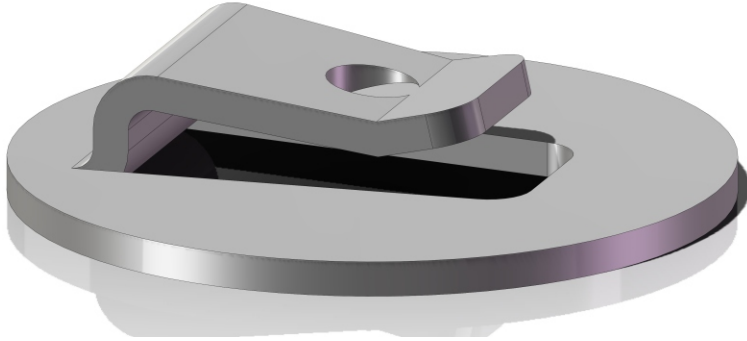
MATE'S STANDARD RADIUS
-DIMENSION G- IS .03.

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SNAP LOCK

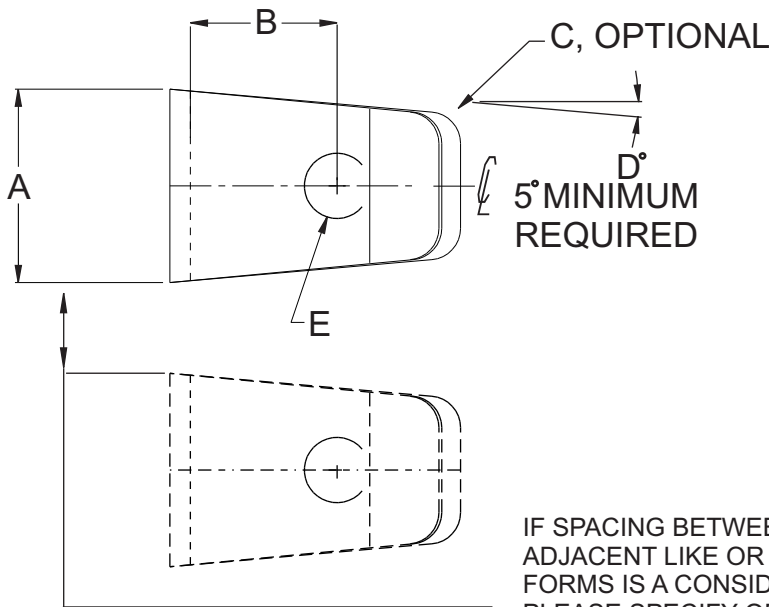
FORM UP FORM DOWN



GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

FILL IN CRITICAL DIMENSIONS ONLY



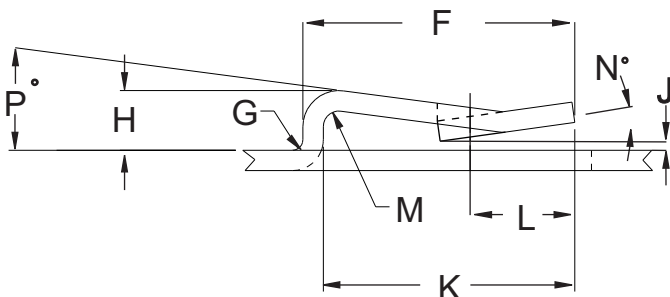
TOOL INFORMATION

- A _____
- B _____
- C° _____
- D _____
- E _____
- F _____
- G _____
- H _____
- J _____
- K _____
- L _____
- M _____
- N° _____
- P° _____

MATERIAL THICKNESS OF MATING MATERIAL: _____

MATE'S STANDARD RADIUS -DIMENSION G- IS .03

IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION, PLEASE SPECIFY OR SUBMIT PATTERN DRAWING

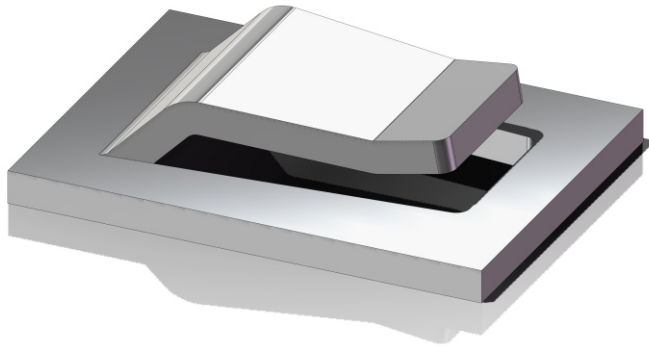


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SPRING CLIP

FORM UP FORM DOWN



FILL IN CRITICAL DIMS ONLY

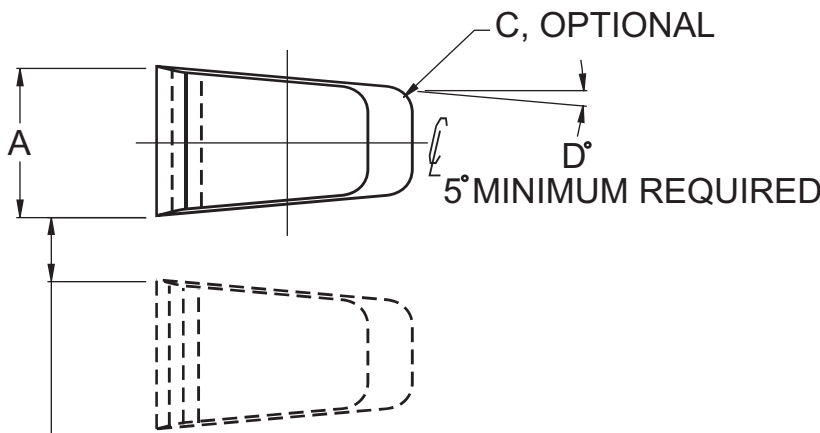
GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

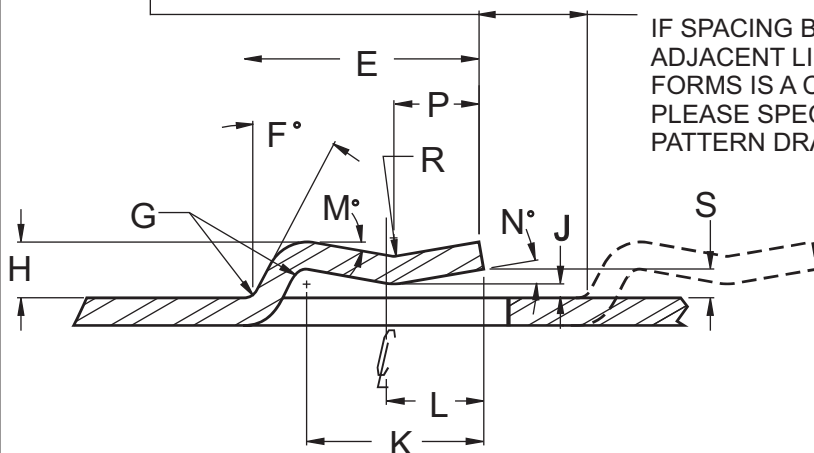
TOOL INFORMATION

- A _____
- C _____
- D° _____
- E _____
- F° _____
- F _____
- H _____
- J _____
- K _____
- L _____
- M° _____
- N° _____
- P _____
- R _____
- S _____

MATE'S STANDARD RADIUS
-DIMENSION G- IS .03.



IF SPACING BETWEEN
ADJACENT LIKE OR UNLIKE
FORMS IS A CONSIDERATION,
PLEASE SPECIFY OR SUBMIT
PATTERN DRAWING

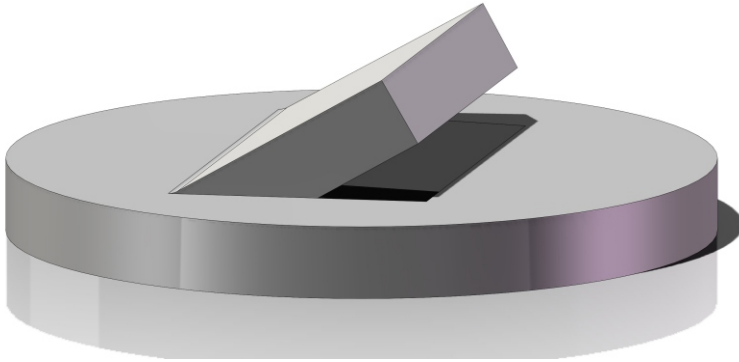


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SPRING TAB

FORM UP FORM DOWN



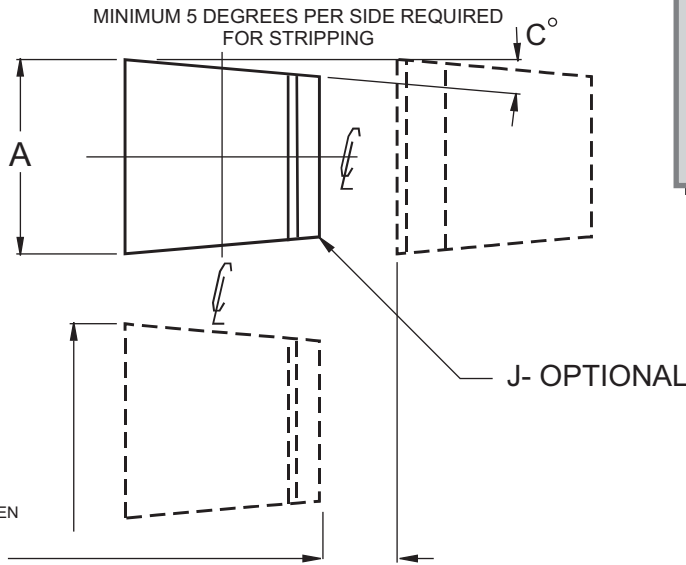
GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

TOOL INFORMATION

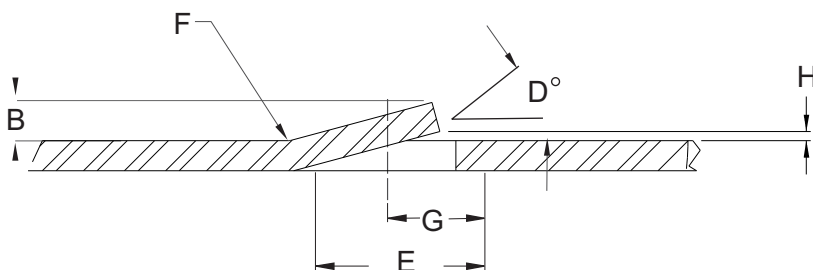
A _____
B _____
C° _____
D° _____
E _____
F _____
G _____
H _____
J _____

FILL IN CRITICAL DIMS ONLY



IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION PLEASE SPECIFY OR SUBMIT PATTERN DRAWING.

MATE'S STANDARD RADIUS -DIMENSION F- IS .03

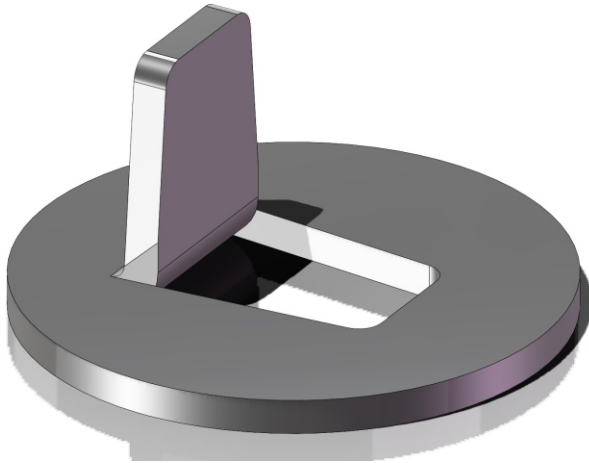


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VERTICAL TAB

FORM UP FORM DOWN



FILL IN CRITICAL DIMS ONLY

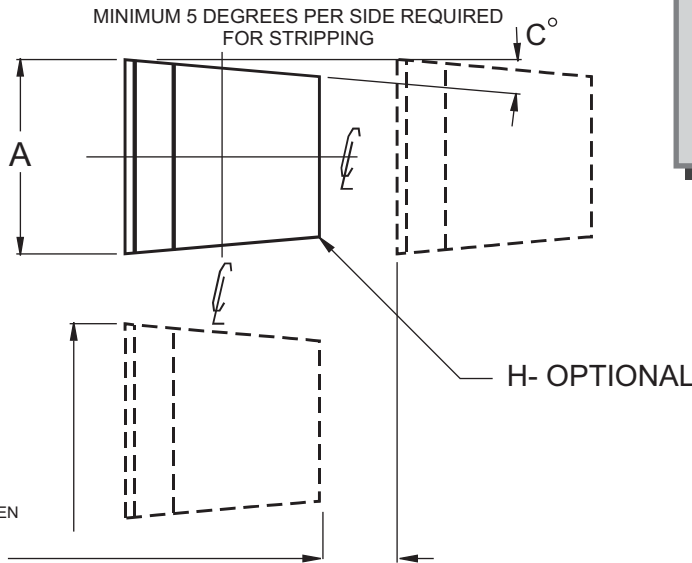
GENERAL INFORMATION

MATERIAL TYPE _____
MATERIAL THICKNESS _____
MACHINE TYPE _____
TOOLING STYLE _____

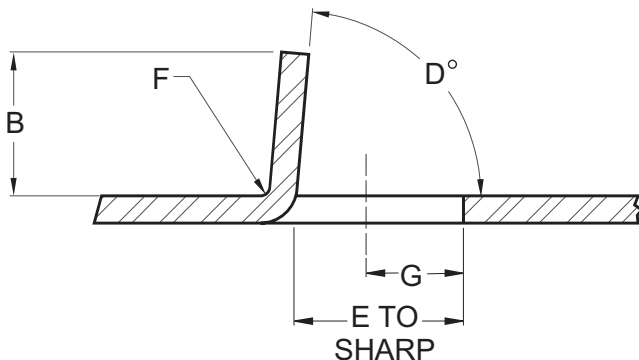
TOOL INFORMATION

A _____
B _____
C° _____
D° _____
E _____
F _____
G _____
H _____

MATES STANDARD RADIUS
-DIMENSION F- IS .03



IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION PLEASE SPECIFY OR SUBMIT PATTERN DRAWING.



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KNOCKOUT SINGLE DIAMETER

FORM UP FORM DOWN

MATE STANDARDS

TAB LOCATION		
A Ø	E QUANTITY	LOCATION LOWER UPPER
.000-.313 (0,00-7,95)	1 TAB IN UPPER ONLY	
.314-1.374 (7,97-34,90)	1 TAB IN UPPER AND LOWER ASSEMBLY	
1.375 TO MAX (34,93) TO MAX	2 TABS IN UPPER & LOWER AT 180°	

TAB SIZE		
MATERIAL THICKNESS	C	D
.020-.045(0,51-1,14)	.060(1,52)	.030(0,76)
.046-.070(1,16-1,78)	.090(2,29)	.050(1,27)
.071-.097(1,80-2,46)	.120(3,05)	.060(1,52)
.098-.127(2,49-3,23)	.180(4,57)	.090(2,29)
.128-.179(3,25-4,55)	.250(6,35)	.125(3,18)

GENERAL INFORMATION

MATERIAL TYPE _____
 MATERIAL THICKNESS _____
 MACHINE TYPE _____
 TOOLING STYLE _____

TOOL INFORMATION

AØ _____

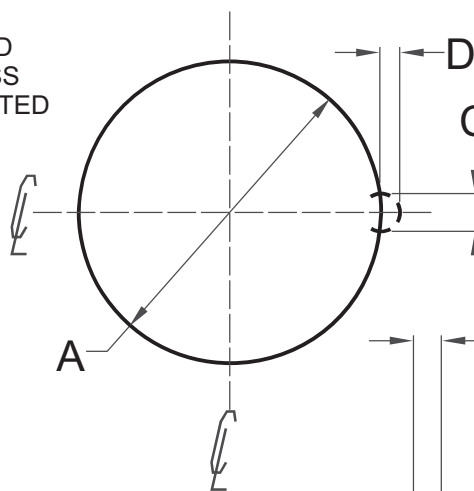
IF NOT MATE STANDARD TAB SIZE:

C _____
D _____

QUANTITY _____

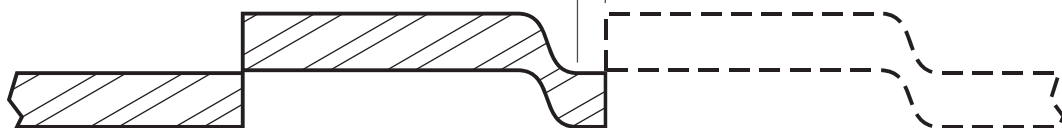
LOCATION- INDICATE ON DIAGRAM.

MATE STANDARD LOCATION UNLESS OTHERWISE INDICATED ON DIAGRAM



MATE STANDARD SIZE UNLESS OTHERWISE SPECIFIED

IF SPACING BETWEEN ADJACENT LIKE OR UNLIKE FORMS IS A CONSIDERATION, PLEASE SPECIFY OR SUBMIT PATTERN DRAWING



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MATE PRECISION TOOLING

DWN:	DATE:
APP:	DATE:
MFG:	DATE:

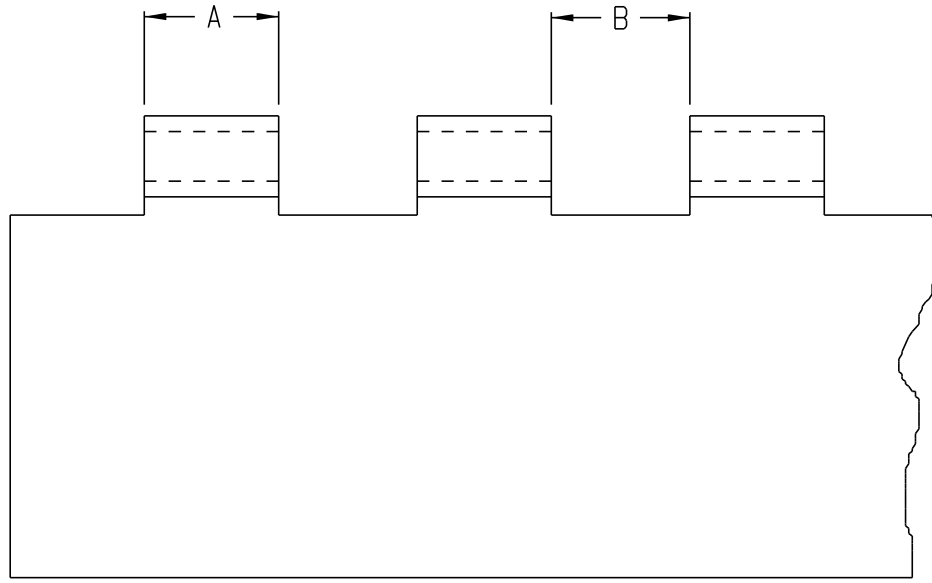
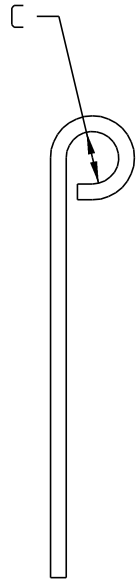
HINGE FORM DATA SHEET



HOLLAND PRECISION TOOLING

SCALE: NONE

ORIGINAL:



KNUCKLE LENGTH "A" _____

KNUCKLE SPACE "B" _____

KNUCKLE I.D. "C" _____

MAT'L TYPE _____

MAT'L THICKNESS "T" _____

MACHINE TYPE _____

TOOLING STATION & STYLE _____

DIMENSIONS FILLED IN BY _____

APPROVED BY _____

TO ASSURE AN ACCURATE FORMED RESULT THE MATERIAL THICKNESS MUST BE SPECIFIED AS AN ACTUAL MEASURED VALUE, NOT A GAUGE SPECIFICATION.

THE KNUCKLE I.D. "C" EQUALS THE PIN DIAMETER PLUS THE DESIRED CLEARANCE.

PLEASE SUBMIT A PART DRAWING IF AVAILABLE.

Your Name: _____
 Telephone# _____
 Company: _____

Mate Roller Solution - Offset Tool



ROLLING OFFSET

OFFSET WHEEL PARAMETERS

MATERIAL RANGE OF EACH TOOL

- .032" - .060" (0.8mm – 1.5mm) for Stainless Steel
- .032" - .079" (0.8mm – 2.0m m) for Mild Steel
- .032" - .098" (0.8mm – 2.5mm) for Aluminum

MINIMUM RADIUS

1.000" (25.4mm)

Maximum height for all machines is .188" (4.7mm)

Multiple passes required to get heights .156" (4mm) or greater

BASIC REQUIREMENTS TO RUN TOOL

Programmable ram

GENERAL INFORMATION

- *Never run material thicker than what it was designed for
- *If the customer is changing only material thickness from the original order, they only need an upper wheel assembly
- *Relief cannot be put on this tool
- *Minimum distance from the edge of the form is 1" (25.4mm)
- *To get a form down Offset, turn the tool or wheels 180°
- * Rib wheel assemblies are interchangeable with the Rolling Offset tool
- *The tool is ABS compatible

SPECIAL INFORMATION MACHINES

Finn-Power

- 7.8 or higher, the tool will work
- 7.7, will work if PLC software version is 75.11 or higher
- 7.6 or less, the tool will not work

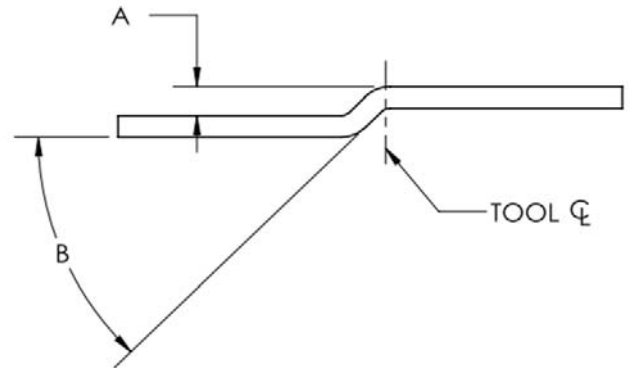
AMADA

- 04P-c is okay for straight lines only
- 04P-c will not work for machines that end in "8"
- 18p control is okay
- EM, AC, ACIES machines are okay

Questions, Changes, Comments Here:

A = .062"(1.5mm), B = 45° - Stock Size

A = .125" (3.2mm), B = 45° - Stock Size



Information Needed

Machine Model: _____

[Example: Amada Vipros]

Material Type _____

[Example: Aluminum]

Material Thickness: _____

[Example 0.060" or 1.6mm]

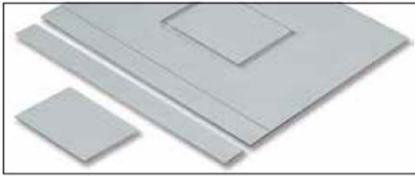
Height "A": _____

[0.188 (4.70mm) max]

Angle "B": _____

[45 std, 30 min, 60 max]

Mate Roller Solution - Pincher Tool



ROLLING PINCHER

Questions, Changes, Comments Here:

PINCHER WHEEL PARAMETERS

MATERIAL RANGE OF EACH TOOL

- .032" - .060" (0.8mm – 1.5mm) for Stainless Steel
- .032" - .079" (0.8mm – 2.0m m) for Mild Steel
- .032" - .098" (0.8mm – 2.5mm) for Aluminum

MINIMUM RADIUS

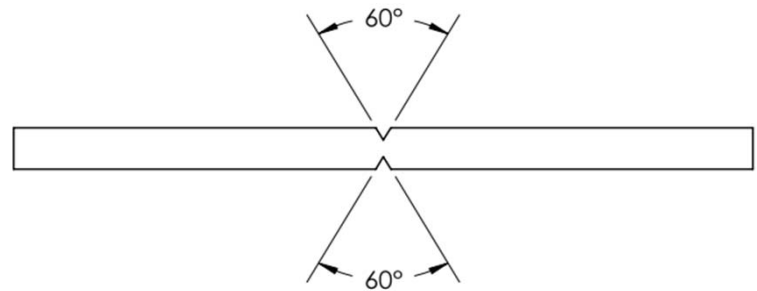
20" (500mm)

BASIC REQUIREMENTS TO RUN TOOL

Programmable ram

GENERAL INFORMATION

- *Stock chisel point angle is 60°
- *Relief cannot be put on this tool
- *Minimum distance from the edge of the form is 1" (25.4mm)
- *The tool is ABS compatible



SPECIAL INFORMATION MACHINES

Finn-Power

- 7.8 or higher, the tool will work
- 7.7, will work if PLC software version is 75.11 or higher
- 7.6 or less, the tool will not work

AMADA

- 04P-c is okay for straight lines only
- 04P-c will not work for machines that end in "8"
- 18p control is okay
- EM, AC, ACIES machines are okay

Information Needed

Machine Model: _____

[Example: Amada Vipros]

Material Type _____

[Example: Aluminum]

Material Thickness: _____

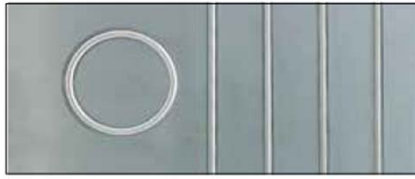
[Example 0.060" or 1.6mm]

Pincher Angle: _____

[60 degrees is standard]

Your Name: _____
 Telephone# _____
 Company: _____

Mate Roller Solution - Rib Tool



ROLLING RIB

RIB WHEEL PARAMETERS

MATERIAL RANGE OF EACH TOOL

- Minimum Thickness - .032" (0.8mm)
- Maximum Thickness- .060" (1.5mm) for Stainless Steel
- Maximum Thickness - .079" (2.0mm) for Mild Steel
- Maximum Thickness - .098" (2.5mm) for Aluminum

MINIMUM RADIUS

- .590" (15mm) on material up to .060" (1.5mm)
- .787" (20mm) on material greater than .060" (1.5mm)

Maximum height for all machines is .188" (4.7mm)

Multiple passes required to get heights .156" (4mm) or greater

BASIC REQUIREMENTS TO RUN TOOL

Programmable ram

GENERAL INFORMATION

- *Never run material thicker than what it was designed for
- *If the customer is changing only material thickness from the original order, they only need an upper wheel assembly
- *Relief cannot be put on this tool
- *Minimum distance from the edge of the form is 1" (25.4mm)
- * A form down rib is possible - Check with engineering
- Form up and form-down ribs are not interchangeable
- * Rib wheel assemblies are interchangeable with the Rolling Offset tool
- *The tool is ABS compatible

SPECIAL INFORMATION MACHINES

Finn-Power

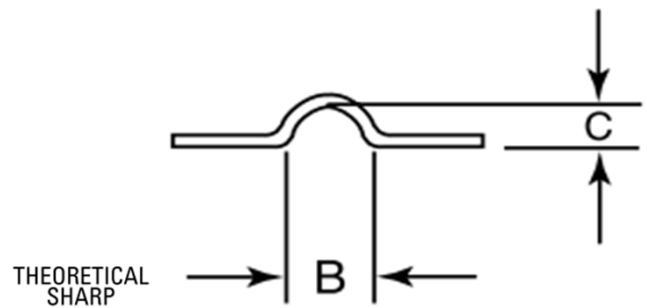
- 7.8 or higher, the tool will work
- 7.7, will work if PLC software version is 75.11 or higher
- 7.6 or less, the tool will not work

AMADA

- 04P-c is okay for straight lines only
- 04P-c will not work for machines that end in "8"
- 18p control is okay
- EM, AC, ACIES machines are okay

Questions, Changes, Comments Here:

B = .187", C = .094" (2.4mm) Stock Size
 B = .250", C = .125" (3.2mm) Stock Size
 Maximum B dimension is .500" (12.7mm)



Information Needed

Machine Model: _____

[Example: Amada Vipros]

Material Type _____

[Example: Aluminum]

Material Thickness: _____

[Example 0.060" or 1.6mm]

Height "C" _____

Width "B": _____

Mate Roller Solution - Shear Tool



Questions, Changes, Comments Here:

SHEAR WHEEL PARAMETERS

MATERIAL RANGE OF EACH TOOL

- .030" - .060" (0.8mm – 1.5mm) for Stainless Steel
- .030" - .079" (0.8mm – 2.0m m) for Mild Steel
- .030" - .098" (0.8mm – 2.5mm) for Aluminum
- .020" .029" (0.5 - 0.7mm) = non-stock ETO

MINIMUM RADIUS

1.77" – 3.94" (45 - 100mm)

BASIC REQUIREMENTS TO RUN TOOL

- Programmable ram
- Station alignment

GENERAL INFORMATION

- *Never run material thicker than what it was designed for
- *Thinner material can be run but there may be a slight curl at the sheared edge
- *Relief cannot be put on this tool
- *Minimum distance from the edge of the form is 1" (25.4mm)
- *Tool must start the cut on the edge or middle of the sheet or on the edge of a hole
- *The tool cannot start off the edge of the sheet or run through a hole (tool may force the sheet from the clamps)
- *The tool is not sharpenable
- *The tool is ABS compatible

SPECIAL INFORMATION MACHINES

Finn-Power

- 7.8 or higher, the tool will work
- 7.7, will work if PLC software version is 75.11 or higher
- 7.6 or less, the tool will not work

AMADA

- 04P-c is okay for straight lines only
- 04P-c will not work for machines that end in "8"
- 18p control is okay
- EM, AC, ACIES machines are okay

Information Needed

Machine Model: _____

[Example: Amada Vipros]

Material Type _____

[Example: Aluminum]

Material Thickness: _____

[Example 0.060" or 1.6mm]