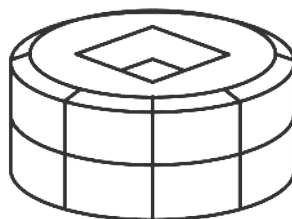
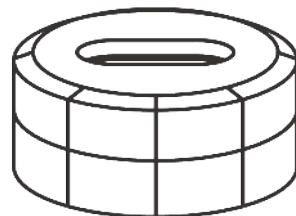
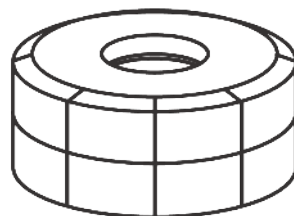


tipco»



CATALOG

IRONWORKER TOOLING



Founded in 1959, Tipco has been providing companies with high-quality and innovative precision tooling products for over 60 years. Tipco started with one manufacturing facility in Toronto, Ontario, Canada; however, our company now has manufacturing facilities in the United States, Canada, Italy, and United Kingdom.

Tipco manufactures precision tooling products for a diverse range of industries, including the metal stamping and plastic molding sectors. Our customers include automotive, appliance, building, infrastructure, furniture, and pharmaceutical manufacturers and suppliers.

Tipco is committed to operational and customer service excellence. Our commitment extends to manufacturing superior products, providing invaluable customer support and service, and exceeding industry standards. Tipco's commitments to our various stakeholders include:

- Eliminating external defects and customer complaints;
- Providing on-time delivery of products;
- Hiring and promoting well-trained, knowledgeable staff;
- Providing a safe working environment;
- Providing efficient and productive facilities with state-of-the-art equipment; and,
- Adopting and implementing up-to-date information technology to ensure the precise and timely flow of information.

From a manufacturing perspective, Tipco is committed to producing best-in-class tooling products. To achieve our company's manufacturing objectives, Tipco is continually investing in new and innovative machinery, equipment, technologies, and processes.

Tipco is also committed to supplying superior complementary products, including best-in-class die springs, marking stamps, automated tapping systems, tool and die accessories, and more.

Customer support and satisfaction is integral to our business. Tipco is continually focusing on adding and creating value for our customers. For customers, our company's value-add and value-creation capabilities include extensive design, machining, and application experience.

Tipco's knowledge and expertise includes working with customers to: review and analyze customer tooling requirements; design customer-specific tooling specifications; and, resolve external failure mechanisms. To optimize tooling performance, Tipco also works closely with customers to review and analyze material selection, heat treat requirements, and product coatings.

In addition, Tipco is continually working on meeting and exceeding statutory and regulatory standards. For example, Tipco's North American operations are ISO 9001 compliant.

For more information, please visit our website at www.tipcopunch.com.

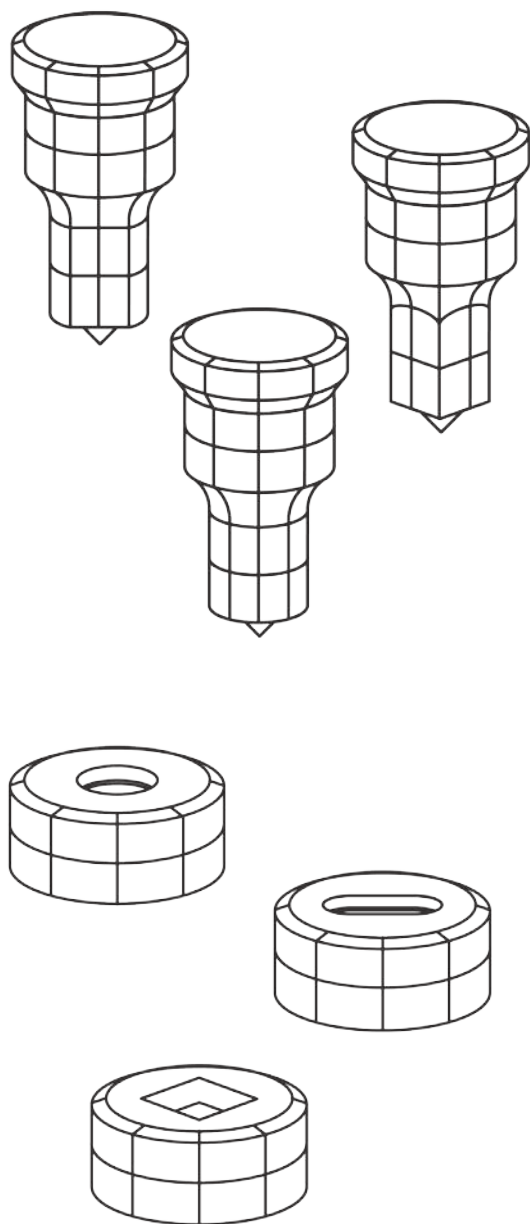
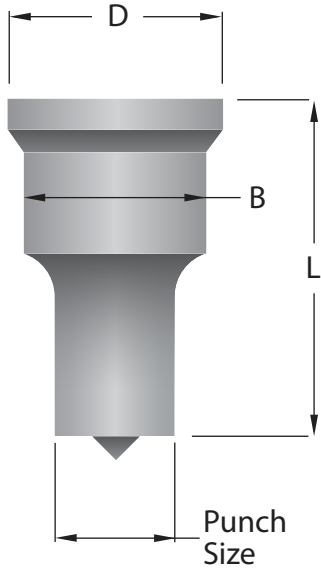


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Ironworker Round Punches



CATEGORY NUMBER	D HEAD DIA.	B BODY DIA.	L LENGTH
2	9/16	13/32	1 1/4
3	23/32	19/32	1 1/2
4	3/4	9/16	1 1/2
6	3/4	9/16	2 1/8
7	29/32	25/32	1 1/2
9	1	13/16	1 1/2
10	1	13/16	1 7/8
11	1	3/4	2 1/8
12	1 5/32	1 1/32	1 15/16
12L	1 5/32	1 1/32	2 1/8
15	1 1/4	1 1/16	1 7/8
16	1 1/4	1 1/16	2 1/8
17	1 1/4	1 1/16	2 1/4
19	1 1/4	1 1/16	2 1/2
19L	1 1/4	1 1/16	2 3/4
20	1 3/8	1 7/32	2 3/8
21	1 3/8	1 7/32	2 5/8
23	1 1/4	1 1/16	2 3/4
26	1 11/16	1 17/32	2 11/16
28	1 7/8	1 9/16	2 5/8
29	1 7/8	1 9/16	3 3/8
30	2 1/4	2 1/16	2 5/8
31	2 1/4	2 1/16	2 3/8
32	2 13/16	2 9/16	3 3/8
C48	2	1 25/32	3
C50	2 1/2	2 9/32	3
C52	2 7/8	2 21/32	3 1/8
C53	3 19/32	3 9/32	3 3/8
C54	4 1/2	4 5/32	3 1/2

Standard Round Punch Sizes

PUNCHING DIAMETER	4	6	7	9	10	11	12	12L	15	16	17	19	19L	20	21	23	26
1/8																	
5/32																	
3/16																	
7/32																	
1/4																	
9/32																	
5/16																	
11/32																	
3/8																	
13/32																	
7/16																	
15/32																	
1/2																	
17/32																	
9/16																	
19/32																	
5/8																	
21/32																	
11/16																	
23/32																	
3/4																	
25/32																	
13/16																	
27/32																	
7/8																	
29/32																	
15/16																	
31/32																	
1																	
1 1/32																	
1 1/16																	
1 3/32																	
1 1/8																	
1 5/32																	
1 3/16																	
1 7/32																	
1 1/4																	
1 9/32																	
1 5/16																	
1 11/32																	
1 3/8																	
1 13/32																	
1 7/16																	
1 15/32																	
1 1/2																	
1 17/32																	
1 9/16																	

☒ Stock Items
☐ Made to order

Metric sizes available

Ironworker Round Dies

Standard Round Die Sizes

DIE SIZE	CATEGORY NUMBER									
	42	43	45	46	52	55	59	60	62	65
1/8										
5/32										
3/16										
7/32										
1/4										
9/32										
5/16										
11/32										
3/8										
13/32										
7/16										
15/32										
1/2										
17/32										
9/16										
19/32										
5/8										
21/32										
11/16										
23/32										
3/4										
25/32										
13/16										
27/32										
7/8										
29/32										
15/16										
31/32										
1										
1 1/32										
1 1/16										
1 3/32										
1 1/8										
1 5/32										
1 3/16										
1 7/32										
1 1/4										
1 9/32										
1 5/16										
1 11/32										
1 3/8										
1 13/32										
1 7/16										
1 15/32										
1 1/2										
1 17/32										
1 9/16										
1 19/32										
1 5/8										
1 11/16										

Required
die clearance:

FOR PLATE

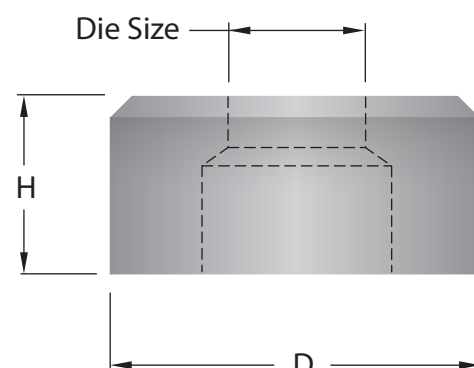
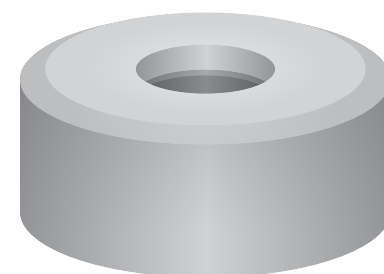
1/4" to 1/2" 1/32"

1/2" and over . . . 1/16"

All dies sizes shown
represent actual sizes.

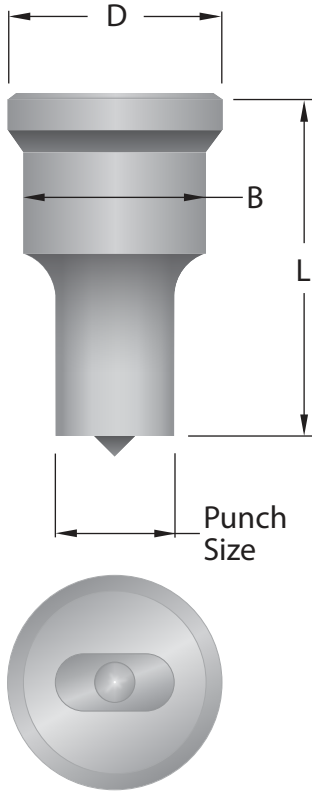
 Stock Items
 Made to order

Metric sizes available



CATEGORY NUMBER	D DIAMETER	H HEIGHT
42	1	7/8
43	1 1/4	7/8
45	1 1/2	7/8
46	1 1/2	1
52	1 3/4	1 1/4
55	1 13/16	1 1/8
59	2	1
60	2	1 1/8
62	2 3/8	1 1/4
65	2 1/2	1 1/4
71	3	1 1/4
72	4	1 1/4
73	6	1 5/16
74	8	1 5/8

Ironworker Oblong Punches



CATEGORY NUMBER	D HEAD DIA.	B BODY DIA.	L LENGTH
12	1 5/32	1 1/32	1 15/16
16	1 1/4	1 1/16	2 1/8
20	1 3/8	1 7/32	2 3/8
26	1 11/16	1 17/32	2 11/16

- Size of slot cannot exceed the body diameter of the punch.
- Refer to figure number of punch to obtain correct body size.
- All dies sizes shown represent actual shape sizes.

Standard Oblong Punch Sizes

OBLONG SIZE	CATEGORY NUMBER		
	16	20	26
3/16 x 3/4			
3/16 x 1	•	•	
1/4 x 1/2		•	
1/4 x 3/4	•		
1/4 x 1	•	•	•
1/4 x 1 1/16	•		
7/32 x 7/16			
7/32 x 1			
9/32 x 9/16			
9/32 x 3/4		•	
9/32 x 1			
5/16 x 1/2		•	
5/16 x 5/8			
5/16 x 3/4	•	•	
5/16 x 1	•	•	•
5/16 x 1 1/16	•		
5/16 x 1 1/4			•
5/16 x 1 1/2			•
11/32 x 11/16			
11/32 x 1			
3/8 x 1/2			
3/8 x 3/4	•	•	
3/8 x 1	•	•	•
3/8 x 1/16	•		
3/8 x 1 1/4		•	•
3/8 x 1 1/2			•
13/32 x 13/16			
13/32 x 1	•		
13/32 x 1 1/4			
7/16 x 9/16			
7/16 x 3/4	•	•	•
7/16 x 7/8			
7/16 x 1	•	•	•
7/16 x 1 1/16	•		
7/16 x 1 1/4		•	•
7/16 x 1 1/2			•
15/32 x 1		•	
1/2 x 3/4	•	•	
1/2 x 1	•	•	•
1/2 x 1 1/16	•		
1/2 x 1 1/4		•	•
1/2 x 1 1/2			•

OBLONG SIZE	CATEGORY NUMBER		
	16	20	26
17/32 x 1	•	•	
17/32 x 7/16			
17/32 x 1 1/4		•	
17/32 x 1 1/2			
9/16 x 3/4	•	•	
9/16 x 1	•	•	•
9/16 x 1 1/16	•		
9/16 x 1 1/4		•	•
9/16 x 1 1/2			•
5/8 x 3/4			
5/8 x 1	•	•	•
5/8 x 1 1/16	•		
5/8 x 1 1/4		•	•
5/8 x 1 1/2			•
11/16 x 1	•		•
11/16 x 1 1/16	•		
11/16 x 1 1/4		•	•
11/16 x 1 1/2			•
3/4 x 1	•		•
3/4 x 1 1/16	•		
3/4 x 1 1/4			•
3/4 x 1 1/2			•
13/16 x 1	•	•	•
13/16 x 1 1/16	•	•	
13/16 x 1 1/8			
13/16 x 1 1/4		•	•
13/16 x 1 1/2			•
7/8 x 1			
7/8 x 1 1/4		•	•
7/8 x 1 1/2			•
15/16 x 1 1/16			
15/16 x 1 1/8			•
15/16 x 1 1/4		•	•
15/16 x 1 1/2			•
1 x 1 1/4			
1 x 1 1/2			
1 x 1 9/16			
1 1/16 x 1 1/2			•
1 3/16 x 1 1/2			•

Stock Items
 Includes keyways in punches

 Made to order
 Metric sizes available

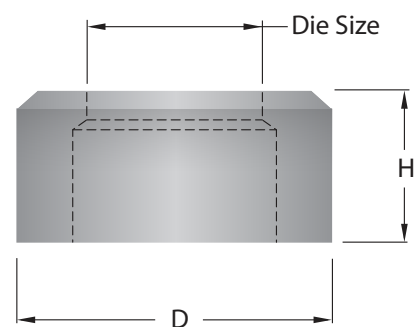
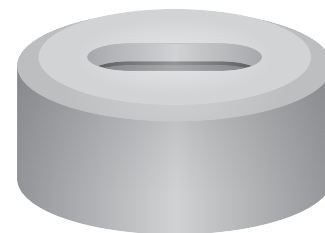
Standard Oblong Die Sizes

OBLONG SIZE 1/32" clearance	CATEGORY NUMBER		
	55	59	62
7/32 x 25/32			
7/32 x 1 1/32	•		
1/4 x 15/32		•	
1/4 x 1 1/32		•	
9/32 x 17/32		•	
9/32 x 25/32	•		
9/32 x 1 1/32	•	•	
9/32 x 1 3/32	•	•	
5/16 x 19/32		•	
5/16 x 25/32		•	
5/16 x 1 1/32		•	
11/32 x 17/32		•	
11/32 x 21/32		•	
11/32 x 25/32	•	•	
11/32 x 1 1/32	•	•	•
11/32 x 1 3/32	•		
11/32 x 1 9/32			•
3/8 x 23/32		•	
3/8 x 1 1/32			
13/32 x 17/32			
13/32 x 25/32	•		
13/32 x 1 1/32	•	•	•
13/32 x 1 3/32	•		
13/32 x 1 9/32		•	•
13/32 x 1 17/32			•
7/16 x 27/32			
7/16 x 1 1/32	•	•	
7/16 x 1 9/32		•	
15/32 x 9/32			
15/32 x 19/32			
15/32 x 25/32	•	•	•
15/32 x 29/32		•	
15/32 x 1 1/32	•	•	•
15/32 x 1 3/32			
15/32 x 1 9/32		•	•
15/32 x 1 17/32			•
1/2 x 1 1/32			
17/32 x 25/32	•	•	
17/32 x 1 1/32	•	•	•
17/32 x 1 9/32		•	•
17/32 x 1 17/32			•
9/16 x 1 1/32	•	•	
9/16 x 1 3/32			
9/16 x 1 9/32			
9/16 x 1 17/32			
19/32 x 23/32	•		
19/32 x 25/32	•	•	
19/32 x 1 1/32	•	•	•
19/32 x 1 3/32			
19/32 x 1 9/32		•	•
19/32 x 1 17/32			•

OBLONG SIZE 1/32" clearance	CATEGORY NUMBER		
	55	59	62
21/32 x 1 1/32	•	•	•
21/32 x 1 3/32			
21/32 x 1 9/32		•	•
21/32 x 1 17/32			•
23/32 x 1 1/32	•	•	•
23/32 x 1 3/32	•		
23/32 x 1 9/32		•	•
23/32 x 1 17/32			•
25/32 x 1 1/32	•		•
25/32 x 1 3/32	•		
25/32 x 1 9/32		•	•
25/32 x 1 17/32			•
27/32 x 1 1/32	•	•	•
27/32 x 1 3/32	•	•	
27/32 x 1 5/32			
27/32 x 1 9/32		•	•
27/32 x 1 17/32			•
29/32 x 1 1/32	•		
29/32 x 1 9/32		•	•
29/32 x 1 17/32			•
31/32 x 1 3/32			
31/32 x 1 5/32			
31/32 x 1 9/32		•	
31/32 x 1 17/32			•
1 1/32 x 1 9/32			
1 1/32 x 1 17/32			•

OBLONG SIZE 1/16" clearance	CATEGORY NUMBER		
	55	59	62
1/2 x 13/16			
1/2 x 15/16			
9/16 x 13/16			
9/16 x 1 1/16			
9/16 x 1 5/16			
9/16 x 1 9/16			
19/32 x 1 1/16			
19/32 x 1 1/8			
19/32 x 1 5/16			
19/32 x 1 9/16			
5/8 x 13/16			
5/8 x 1 1/16	•	•	•
5/8 x 1 1/8			
5/8 x 1 5/16		•	•
5/8 x 1 9/16			•
11/16 x 1 1/16		•	
11/16 x 1 5/16		•	
11/16 x 1 9/16			
3/4 x 1 1/16	•	•	
3/4 x 1 1/8		•	
3/4 x 1 5/16		•	•
3/4 x 1 9/16			•

Ironworker Oblong Dies

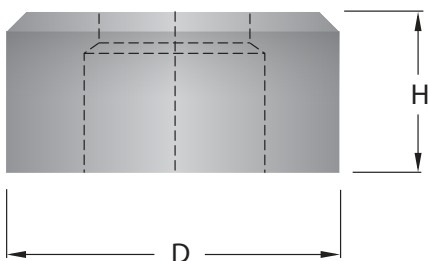
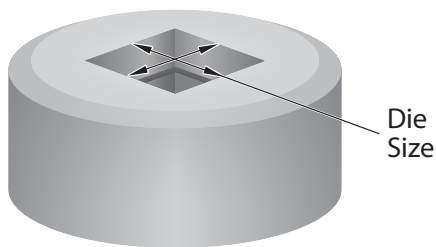
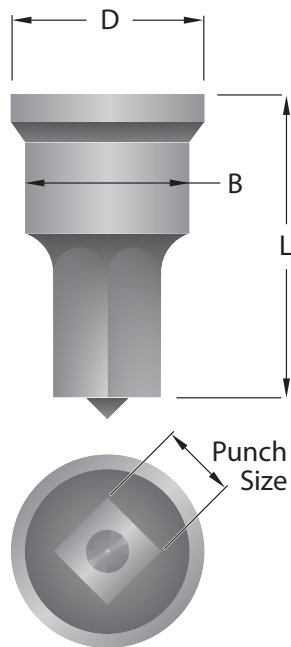


CATEGORY NUMBER	D DIAMETER	H HEIGHT
55	1 13/16	1 1/8
59	2	1
62	2 3/8	1 1/4

OBLONG SIZE 1/16" clearance	CATEGORY NUMBER		
	55	59	62
13/16 x 1 1/16		•	•
13/16 x 1 5/16			•
13/16 x 1 9/16			•
7/8 x 1 1/16	•	•	•
7/8 x 1 1/8	•	•	•
7/8 x 1 3/16			
7/8 x 1 5/16		•	•
7/8 x 1 9/16			•
15/16 x 1 5/16		•	•
15/16 x 1 9/16			•
1 x 1 3/16			•
1 x 1 5/16		•	
1 x 1 9/16			•
1 1/16 x 1 5/16			
1 1/16 x 1 9/16			
1 1/16 x 1 5/8			

- Stock Items
 - Made to order
 - Includes locking notches on dies
- Metric sizes available

Ironworker Square Punches & Dies



Standard Square Punch Sizes

PUNCH SIZE	CATEGORY NUMBER		
	16	20	26
3/16	•		
7/32	•		
1/4	•	•	
9/32	•		
5/16	•	•	
11/32	•		
3/8	•	•	•
13/32	•	•	
7/16	•	•	•
15/32	•		
1/2	•	•	•
17/32	•	•	•
9/16	•	•	•
19/32			
5/8	•	•	•
21/32		•	•
11/16	•	•	•
23/32			
3/4	•	•	•
25/32		•	•
13/16	•	•	•
27/32	•		
7/8	•	•	
29/32			
15/16	•		
31/32			
1	•		•
1 1/32			•
1 1/16	•		•

Standard Square Die Sizes

DIE SIZE	CATEGORY NUMBER		
	16	20	26
9/32	•	•	
5/16			
11/32	•	•	
3/8			
13/32	•	•	•
7/16	•	•	
15/32	•	•	•
1/2	•		
17/32	•	•	•
9/16	•	•	•
19/32	•	•	•
5/8	•	•	
21/32	•	•	•
11/16	•	•	•
23/32	•	•	•
3/4	•		
25/32	•	•	•
13/16	•	•	•
27/32	•	•	•
7/8	•		•
29/32		•	
15/16			
31/32			
1			
1 1/32			•
1 1/16			•
1 3/32			•
1 1/8			•

SQUARE PUNCHES

Must be checked across the diagonals to determine whether they will fit through the bore size of the Coupling Nut.

Be sure to advise clearance required, or thickness of material to be punched.

• Stock Items

□ Made to order

- Includes keyways in punches and locking notches on dies

Metric sizes available

Square Punch Dimensions

CATEGORY NUMBER	D HEAD DIA.	B BODY DIA.	L LENGTH
16	1 1/4	1 1/16	2 1/8
20	1 3/8	1 7/32	2 3/8
26	1 11/16	1 17/32	2 11/16

Square Die Dimensions

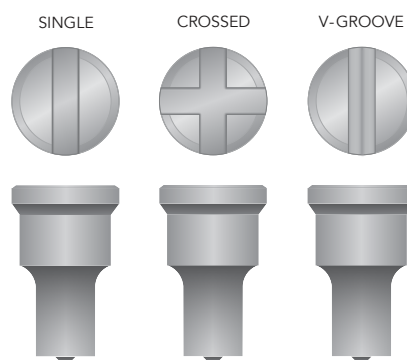
CATEGORY NUMBER	D DIAMETER	H HEIGHT
55	1 13/16	1 1/8
59	2	1
62	2 3/8	1 1/8

KEYWAYS IN HEAD OF PUNCH

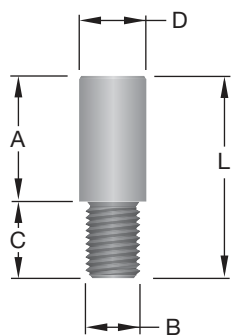
Oblong and square punches are stocked without keyways in the head. Keyways can be furnished on request at minimal cost.

Please specify relationship of keyway to punch end and size of keyway.

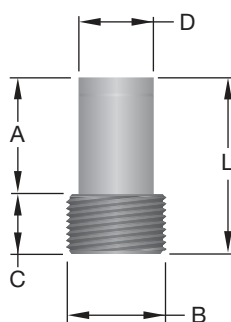
Keyways normally furnished are
1/4" wide x 1/8" deep / 4mm wide x 4mm deep.



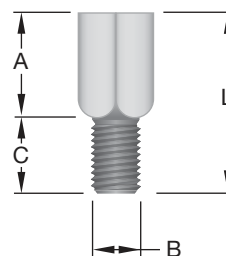
TIPCO Punch Keyways



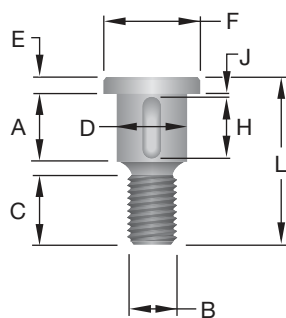
No. 290



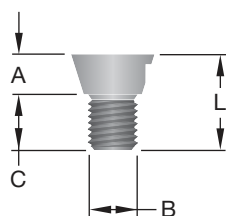
No. 290 OVERSIZE



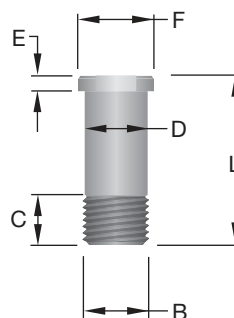
No. 291



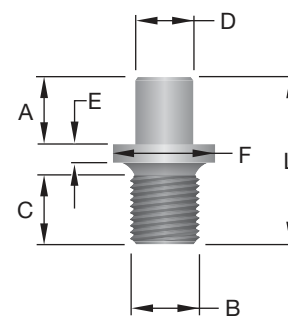
No. 292



No. 293



No. 294

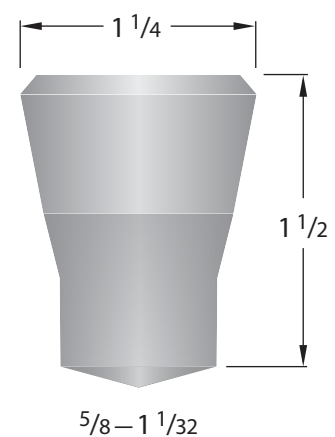
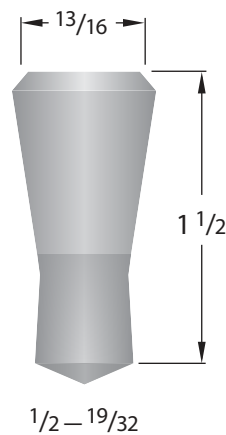
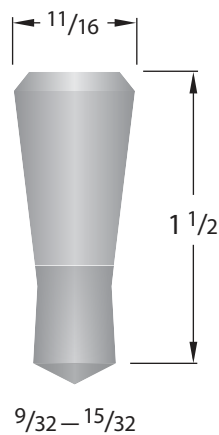


No. 295

TIPCO Punch Stems

TIPCO Taper Shank Punches

For cold
punching
spring steel



TIPCO Reducers

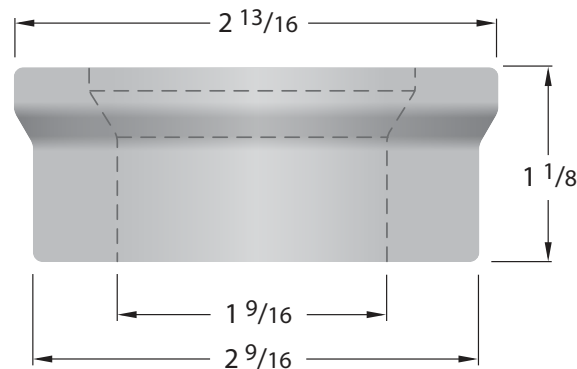


FIGURE 75
Use with TIPCO #7 coupling nut to
convert to Fig. No. 28, Fig. No. 29 punch

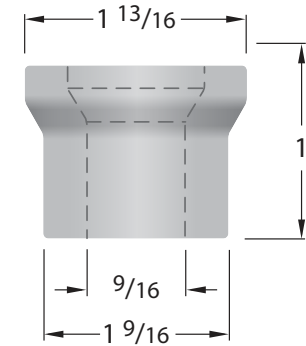


FIGURE 76
Use with TIPCO #3. #3s, 19, 20, 21
coupling nut to convert to
Fig. No. 6 punch

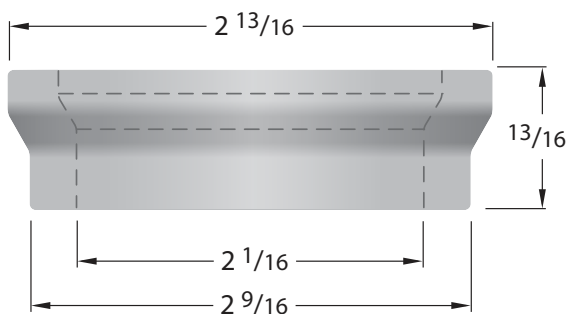


FIGURE 77
Use with TIPCO #7 coupling nut to
convert to Fig. No. 30, Fig. No. 31 punch

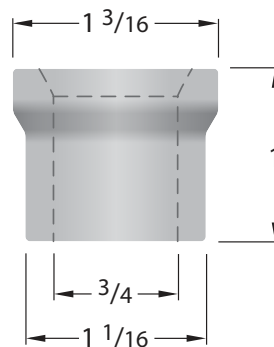


FIGURE 78
Use with TIPCO #3. #3s, 19, 20, 21
coupling nut to convert to
Fig. No. 11 punch

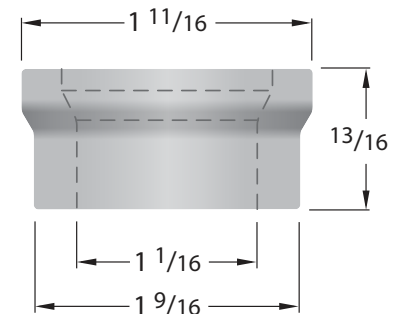


FIGURE 79
Use with TIPCO #4D, P&W7 coupling nut
to convert to Fig. No. 16 punch

Custom and Special Order Ironworker Punches and Dies

Tipco has a long-standing history of manufacturing specialized ironworker punches and dies for customers.

Tipco has the tools and resources to manufacture specialized ironworker punches and dies to customer drawings and/or CAD data requirements.

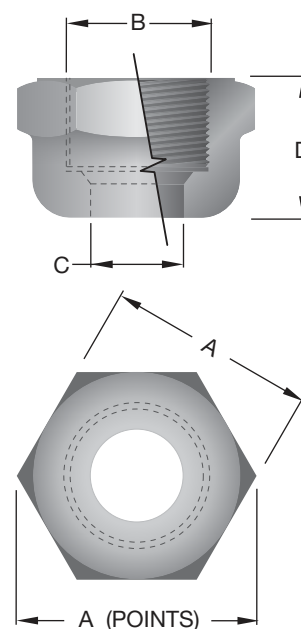
For more information on custom ironworker punches and dies, please contact us via email or our toll free number.



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TIPCO Coupling Nuts

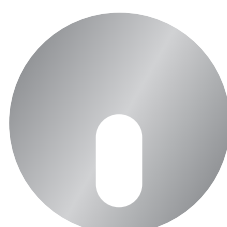
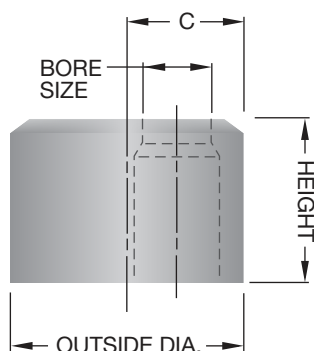


TIPCO Offset Flat Top Dies

Style 25E

Offset (Eccentric) Flat Top Dies

Requires a minimum of 1/4" wall thickness to insure punching strength.



POSITION A

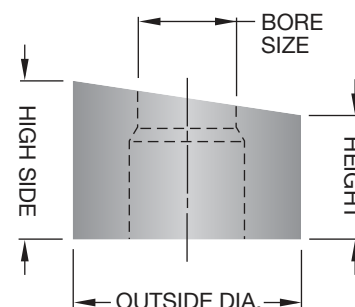


POSITION B

TIPCO Bevel Dies Special Purpose

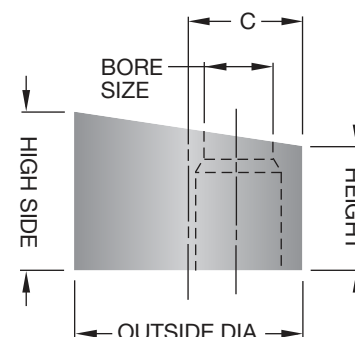
Style 26

Plain Bevel Smooth Top Concentric



Style 26E

Plain Bevel Smooth Top Eccentric





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