If it's important to you, it's important to us.

Find out how our attention to details forms the basis for your success.





R-K Press Brake Dies, Inc.



For more than 30 years, leading sheet metal fabricators have looked to R-K Press Brake Dies for precision die design and tooling. Customers specify our products because we offer the combination of technical expertise, customer service and product performance that exceeds expectations.

You, too, can count on R-K Press to provide the tools that form your success. Here's why:

We deliver outstanding customer service.
You'll find that R-K Press creates customer value that goes beyond competitive pricing.
We create effective and cost-efficient customized solutions for special applications.

Unlike most competitors,
we have a dedicated team of sales
engineers to handle custom
requests. Additionally, our service
desk provides ongoing customer
support when it's needed.

Whether you're ready to place an order now or you need advice to handle a more specialized need, contact your authorized R-K Press distributor or call us directly at 708-371-1756.

Let us show you how R-K Press can form the basis for your success.





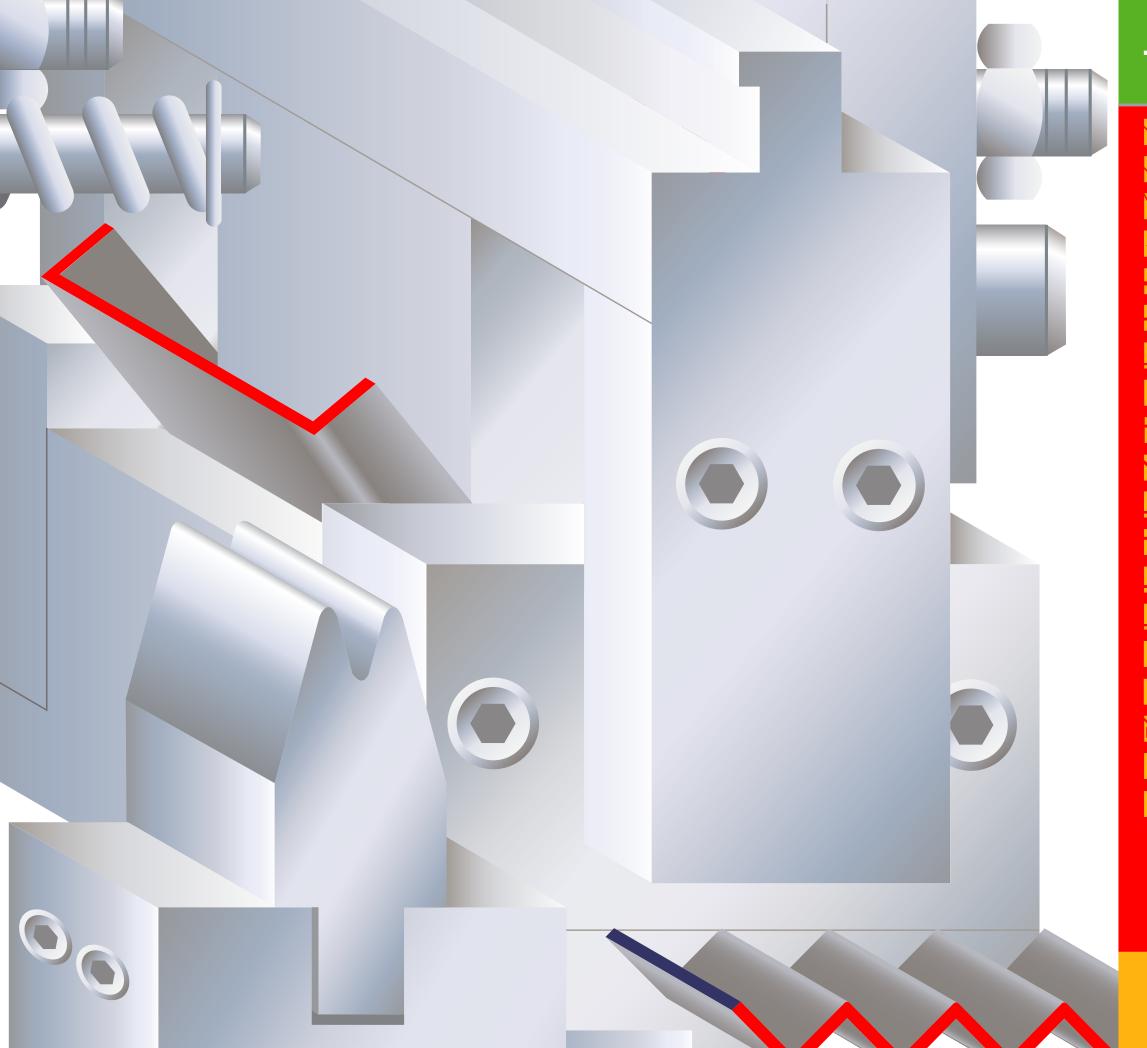


Table of Contents

90 Forming Punches and Dies	3-6
Gooseneck Punches	7-8
30 Forming Punches and Dies	9-10
Flattening Dies	11-12
Offset Forming Dies	13-16
Hemming Dies	17-18
Radius Dies	19-20
Channel Dies	21-24
Wiping Dies	25-26
Tipped Angle Dies	27
Rocker Dies	28
Corrugation Dies	29-30
Standing Seam Dies	31-32
Curling Dies	33-35
Box Forming Dies	36
3-Way and 4-Way Dies	37
Adjustable Vee Die	38
Special Ram Adapters	39
Die Holders	40
Tonnage Chart	41-42
R-K Press Information	43
· · · · · · · · · · · · · · · · · · ·	
	Gooseneck Punches 30 Forming Punches and Dies Flattening Dies Offset Forming Dies Hemming Dies Radius Dies Channel Dies Wiping Dies Tipped Angle Dies Rocker Dies Corrugation Dies Standing Seam Dies Curling Dies Box Forming Dies 3-Way and 4-Way Dies Adjustable Vee Die Special Ram Adapters Die Holders Tonnage Chart R-K Press Information - How to Order - Special Tool



forms the basis for your success.



R-1/32



Forming Punches and

90° Forming Punches and Dies

These punches and dies are the most widely used to form 90° and greater bends. By adjusting the ram, the depth of punch travel can be regulated to produce the desired angle of bend. The U-2 punch is used to form longer return bends; in addition the width of the U-2 punch is narrowed to form a short flange.

- Punches and dies are available from stock.
- Can be used for air bending or bottom bending.
- Can be modified to a special angle or radius.
- Can be sectionalized to fit your needs.

←1→

L-2 22 Gauge

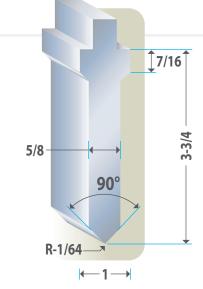
Used for forming 10-gauge and lighter material.

R-3/64

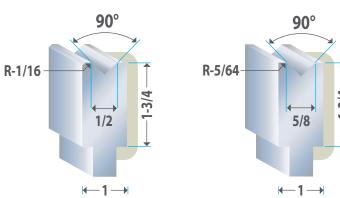
3/8

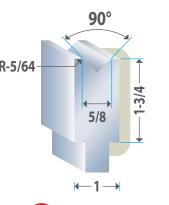
←1→

L-3 18 Gauge

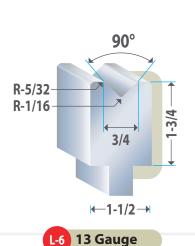


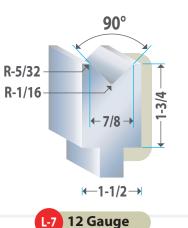






L-5 14 Gauge



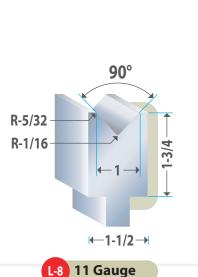


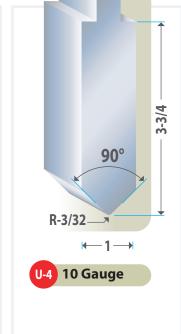
90°

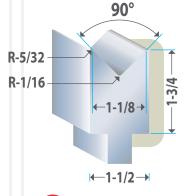
←1→

R-1/64 —

U-3 11 Gauge







L-9 10 Gauge

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L-4 16 Gauge









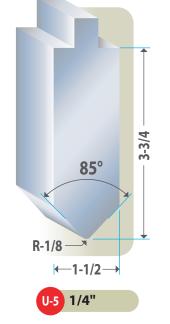


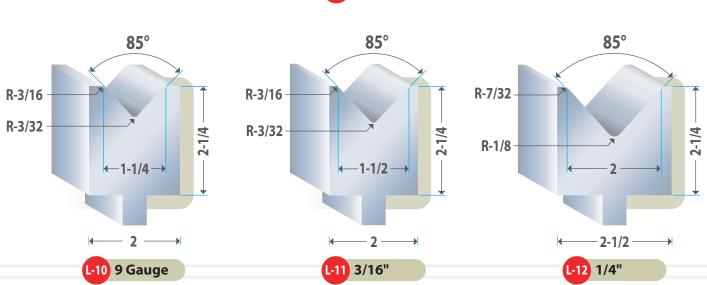
Forming Punches and

90° Forming Punches and Dies

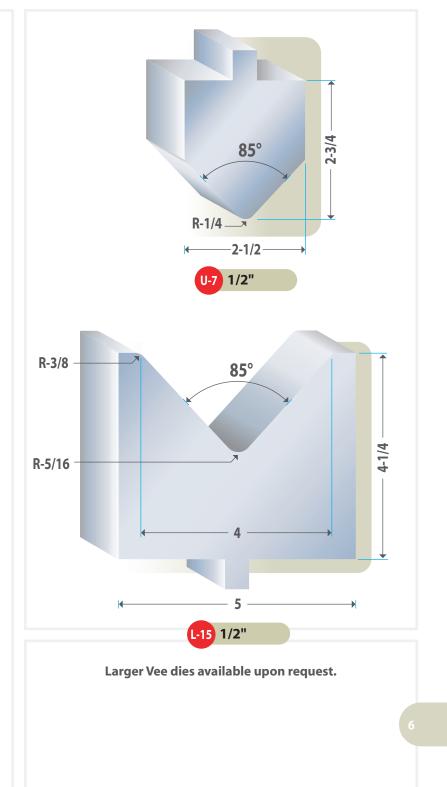
These punches and dies are used for air bending heavier gauges of material. Air bending will minimize the press brake load and material fracture.

- Punches and dies are available from stock.
- Can be modified to a special angle or radius.
- Can be sectionalized to fit your needs.
- Used for forming 9-gauge and heavier material.





85° R-3/16 — U-6 3/8" 85° R-1/4 R-3/16 2-1/2 3-1/2 L-13 5/16" 85° R-9/32 R-5/16 L-14 3/8"



R-K Press Brake Dies can provide tooling for any model press brake.













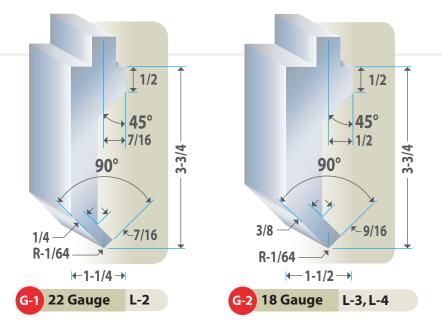


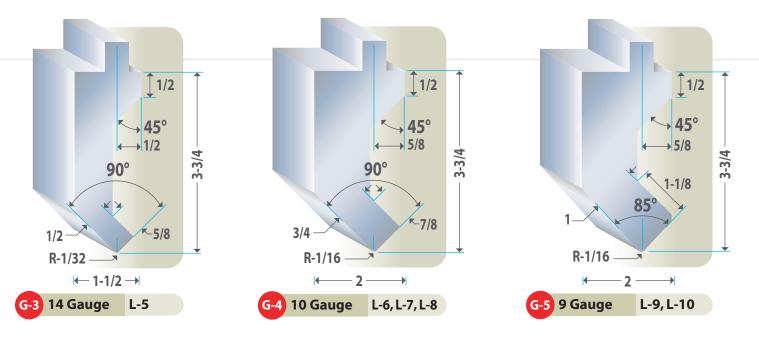
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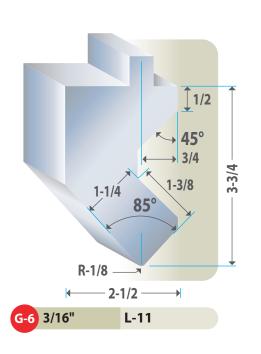
Gooseneck Punches

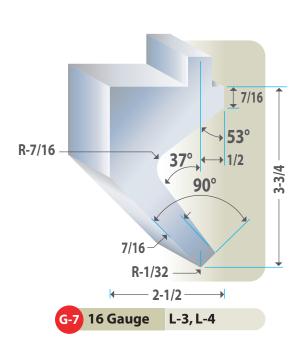
Gooseneck punches are used to form a channel in two strokes of the press brake. In addition special shapes where 90° punch would interfere can also be formed. The Gooseneck punches G-6, G-7, G-8, G-9 are cut back beyond centerline allowing longer return flanges. Because of the taper on the inside of the Gooseneck the width of the channel must be increased.

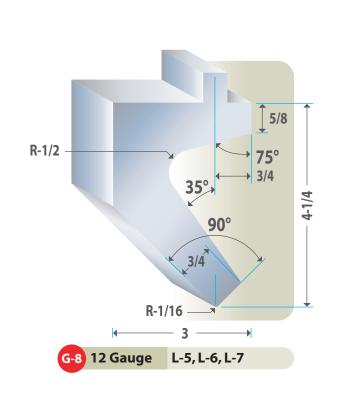
- Punches and dies are available from stock.
- Use to form a channel in two strokes of the press brake.
- Can be used for air bending or bottom bending.
- Can be modified to a special angle or radius.
- Can be sectionalized to fit your needs.

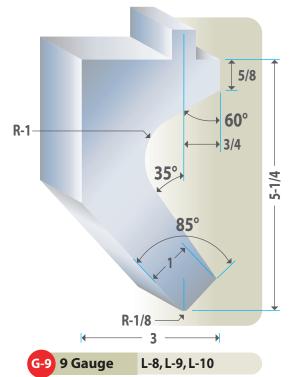












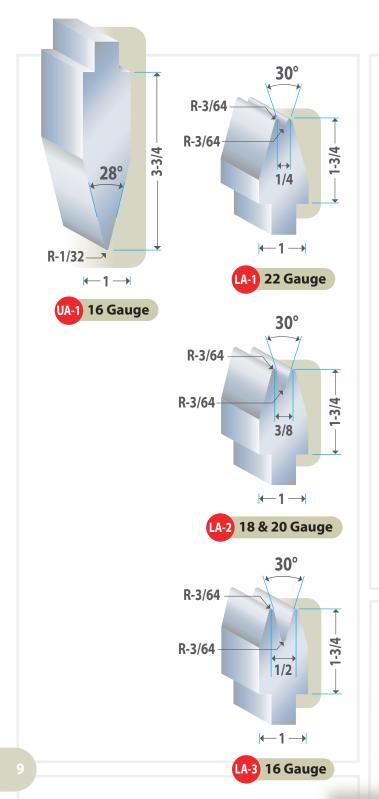
R-K Press Brake Dies can provide tooling for any model press brake.

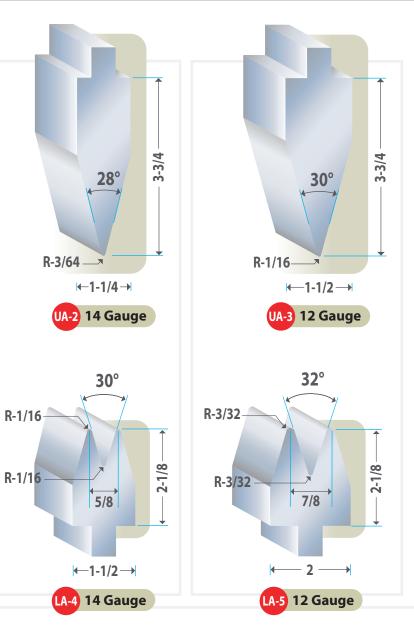


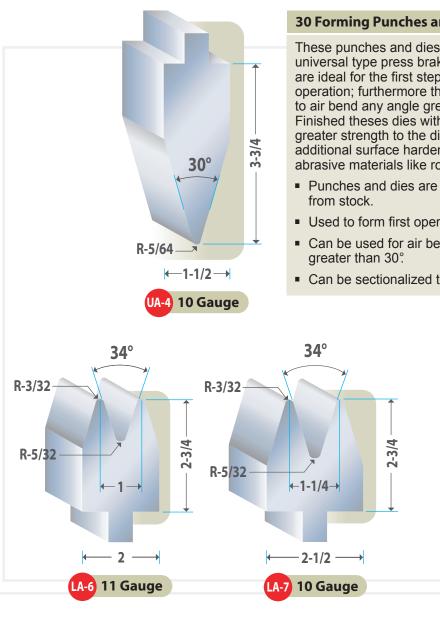








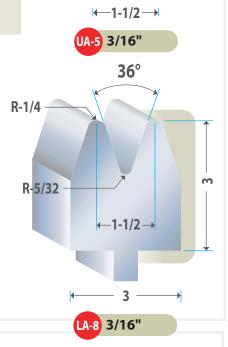




30 Forming Punches and Dies

These punches and dies are the most universal type press brake dies. They are ideal for the first step in a hemming operation; furthermore they can be used to air bend any angle greater then 30°. Finished theses dies with a flat top gives greater strength to the die and allows for additional surface hardening when forming abrasive materials like rod or wire.

- Punches and dies are available
- Used to form first operation of a hem.
- Can be used for air bending angles
- Can be sectionalized to fit your needs.



R-1/8—7

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Style Tooling

American









Flattening Dies

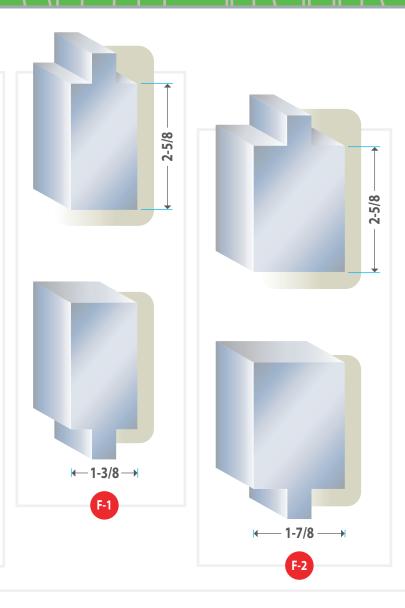
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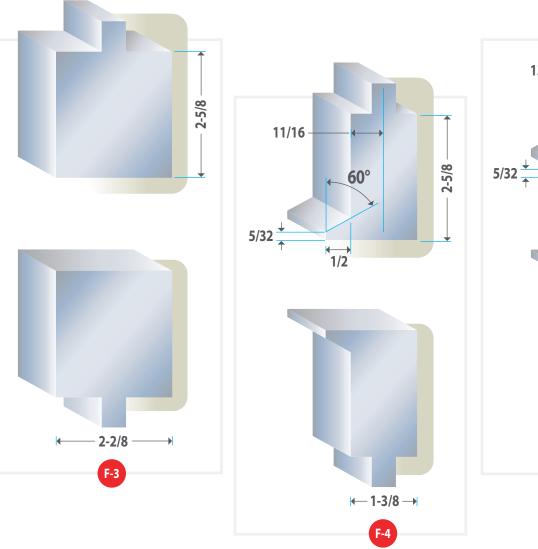
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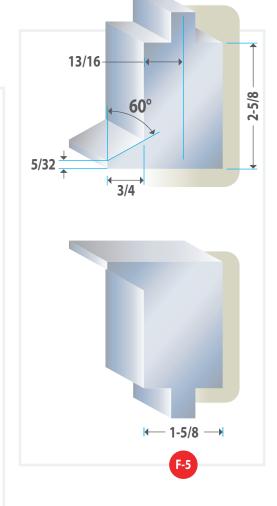
Flattening Dies

Flattening dies are used in the final operation to close a teardrop hem or a crushed hem.

- Punches and dies are available from stock.
- Used to form an open or closed hem.
- Used to close a standing seam.
- Can be sectionalized to fit your needs.







Our customers demand quality, service and innovation. We deliver even more:

- Competitive pricing
- **30-foot capacity machines**
- Fast & personal technical assistance
- **Immediate availability on standard sets**
- **•** Customized solutions for special applications
- Large inventory of standard and specialized American punches and dies
- Specialized European and Wila style tooling
- Reliable delivery you can count on every time

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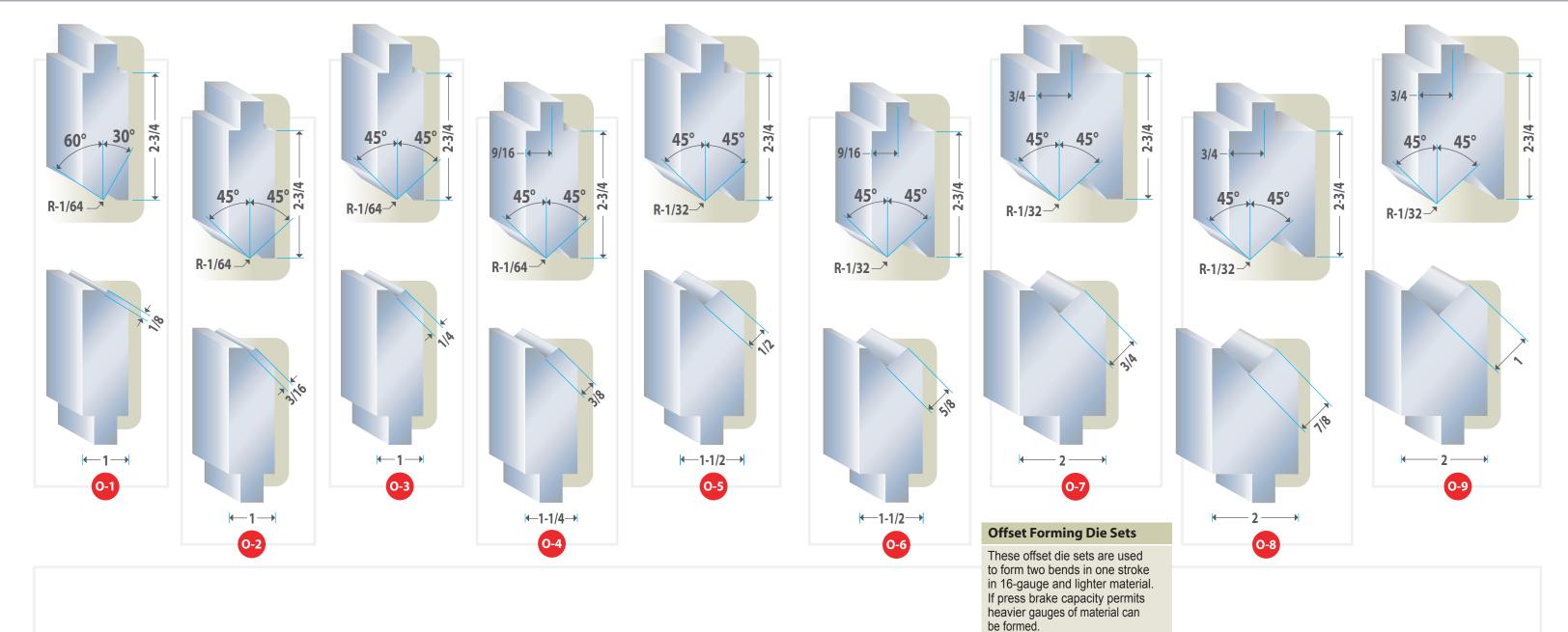








Offset Forming Dies



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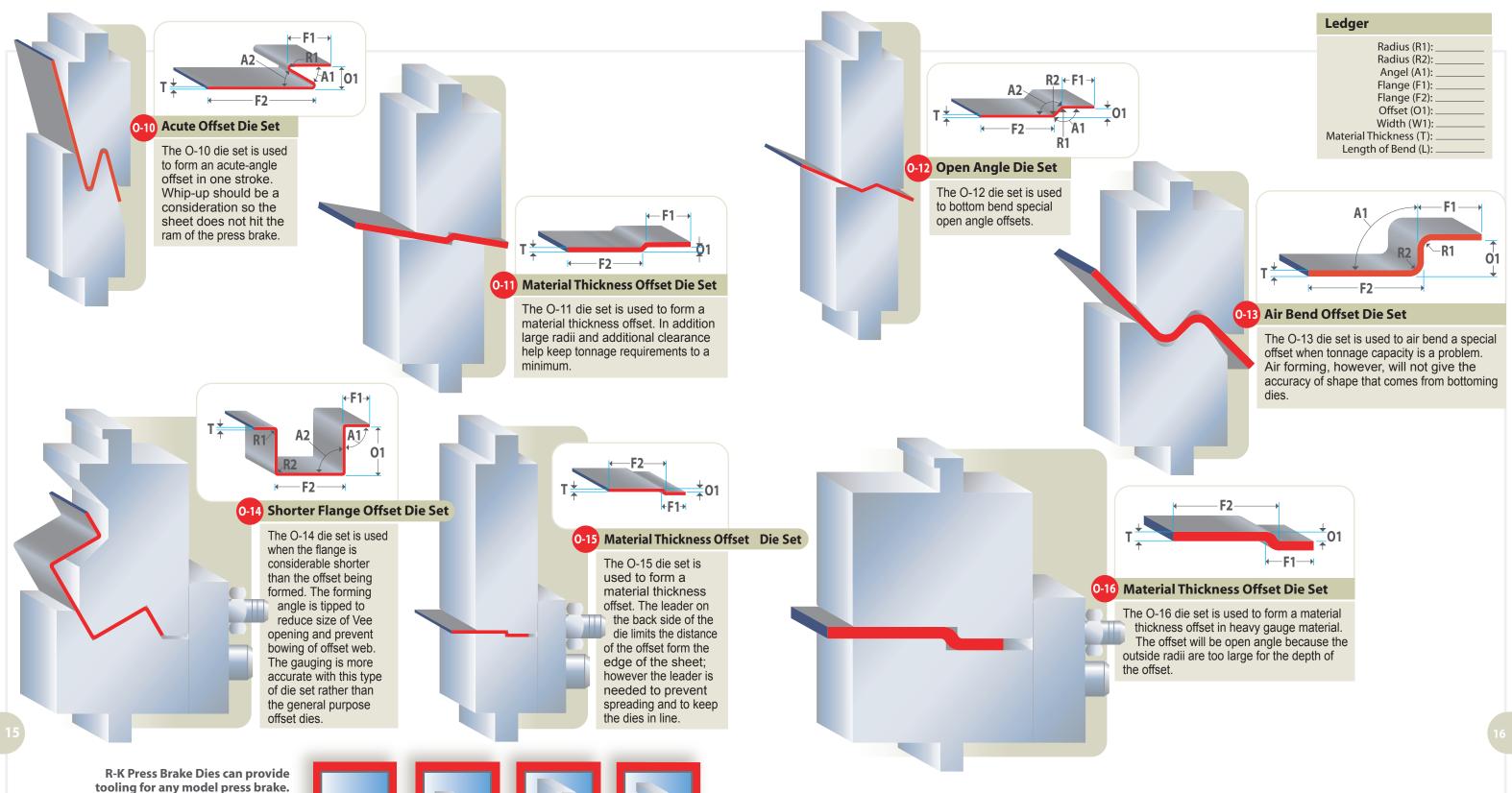




Die sets available from stock.Can be used for air bending or bottom bending.

Offset Forming Dies

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Style Tooling



Style Tooling



Style Tooling





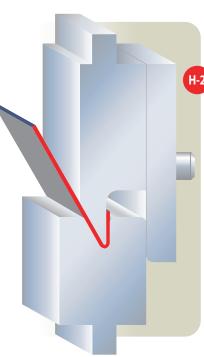




Hemming Die Set

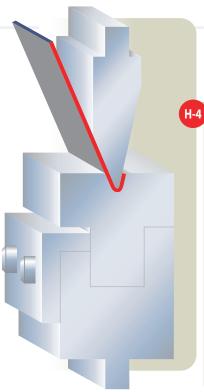
Is a low cost hemming die set that forms a teardrop or an open hem in a single handling without die change or adjustment. The greatest length of fold-over is 2 inches. In the closing operation, the material must be tilted and held high enough in the die to enable the punch point to pass the bend edge formed previously. A slight bow in the length of the sheet can be anticipated.

■ Used for 18-gauge and lighter material.



H-2 Hemming Die Set

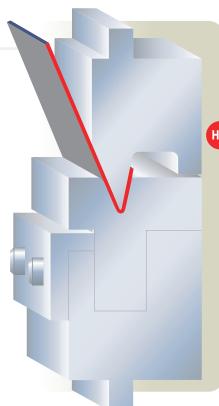
Used for 16-gauge and heavier material.



H-4 Hemming Die Set

The H-4 hemming die set bends an acute angle in the upper level and closes the hem in the lower level. The closing operation may be shimmed to form an open or closed hem in 18-gauge and lighter material.

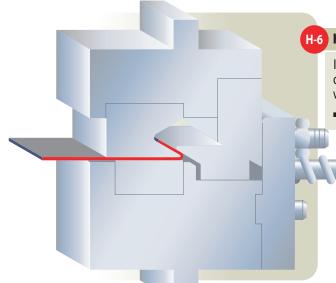
- Used for 18-gauge and lighter material.
- Closing operation is adjustable for forming open or closed hems.



H-5 Hemming Die Set

The H-5 hemming die set bends an acute angle in the upper level and closes the hem in the lower level. The closing operation may be shimmed to form an open or closed hem in 14-gauge and heavier material.

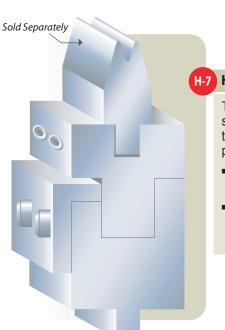
Used for 14-gauge and heavier material.



Hemming Die Set

Is a combination set that eliminates whip-up of the material. This curbs operator fatigue which is an important safety factor.

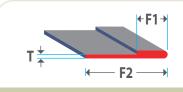
■ Used for 18-gauge and lighter material.



H-7 Hemming Die Set

The H-7 die set allows for a standard acute die set to be used as shown for hemming; In addition the middle section can be locked in the closed position emulating a standard die holder.

- Closing operation is adjustable for forming open or closed hems.
- The middle section can be locked in the closed position and used as a standard die holder.



Ledger

Flange (F1): Flange (F2): Material Thickness (T): Length of Bend (L):

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Style Tooling



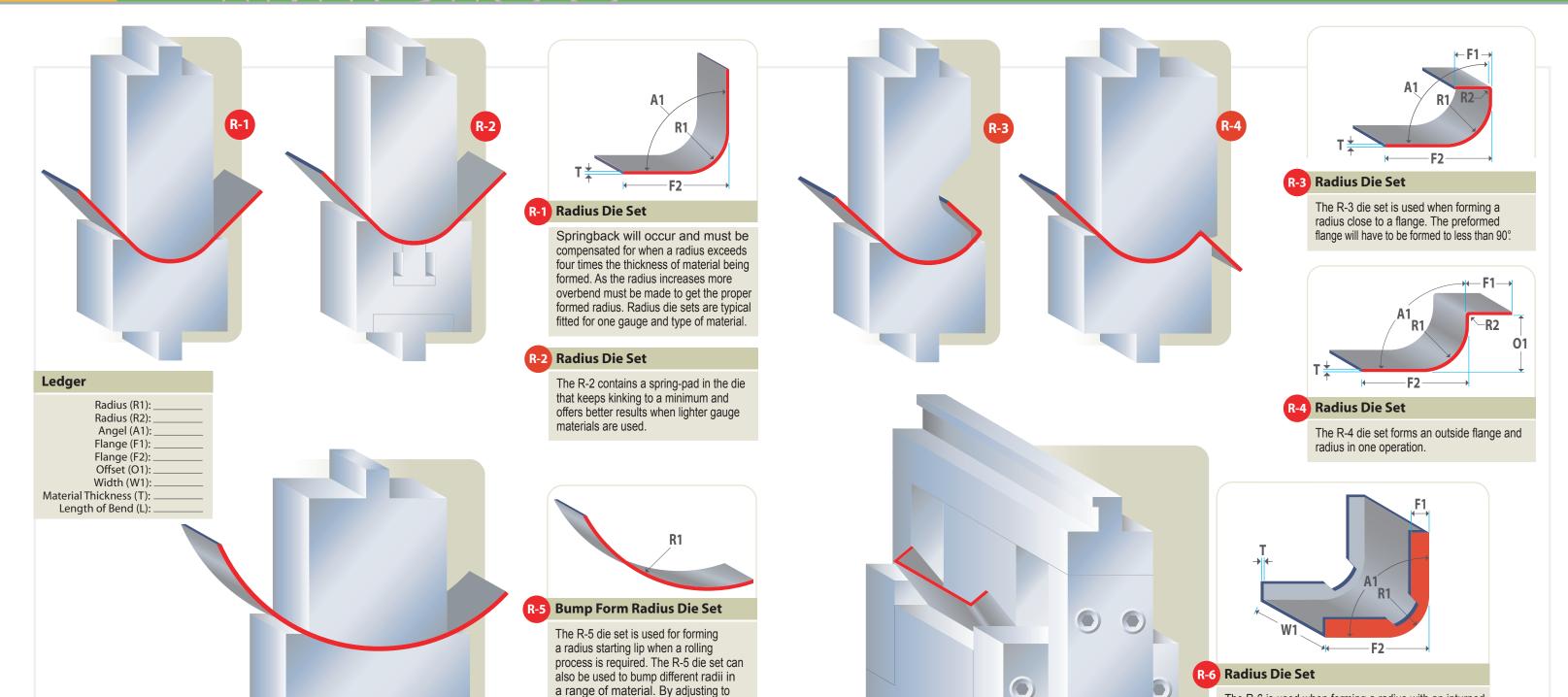






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be bump formed.



distance between bends lager radii can

Providing Tools To

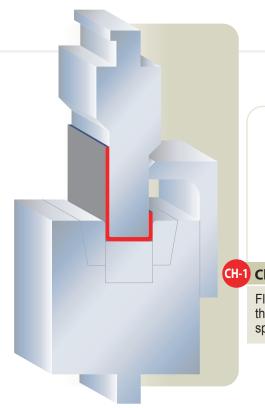
R-K Press Brake Dies, Inc.

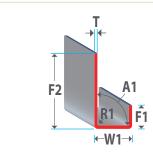
The R-6 is used when forming a radius with an inturned

flange. The lower die has a wiper plate at each end

to hold the flange square and limit the wrinkling of the

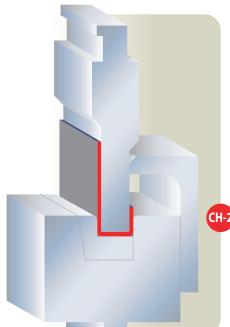
Channel Dies

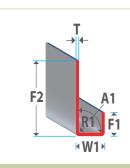




CH-1 Channel Die Set

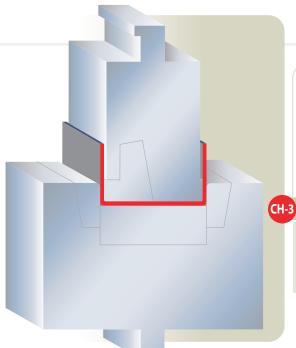
Flatness of channels can be obtained in the CH-1 with constant pressure from a spring-loaded pad.

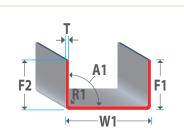




CH-2 Channel Die Set

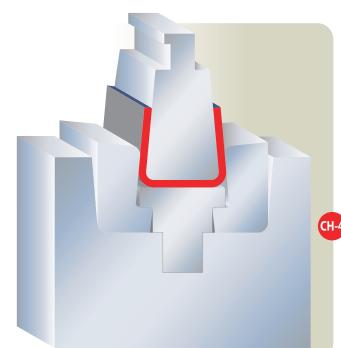
The CH-2 is used when the width of the channel being formed does not permit a spring pad in the die.

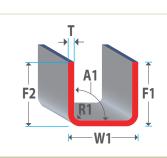




CH-3 Channel Die Set

The CH-3 die set produces an accurate channel with consistency due to a spring pressure pad. Part removal is made easier by release wedges on the punch and die.





CH-4 Channel Die Set

The CH-4 rocker channel die set is utilized when a particular stock or excessive radii are required. This die set produces the given amount of overbend required to make the legs parallel.

Ledger

Radius (R1): Angel (A1): Flange (F1):

Flange (F2):

Width (W1):

Material Thickness (T): Length of Bend (L):

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Style Tooling









Ledger

Radius (R1):

Angel (A1): Flange (F1):

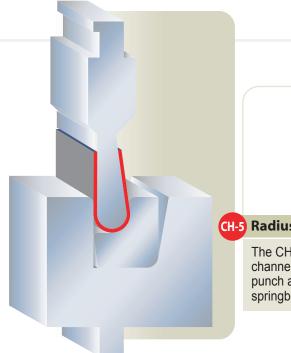
Flange (F2):

Offset (O1):

Width (W1):

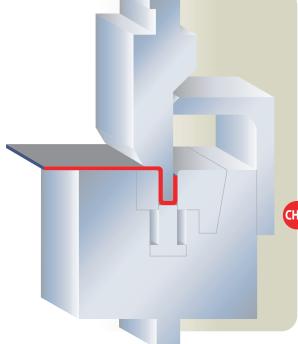
Material Thickness (T):

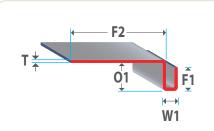
Length of Bend (L):



CH-5 Radius Channel Die Set

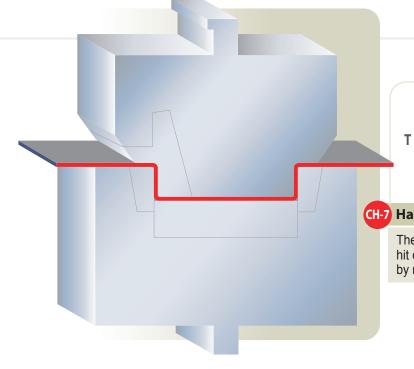
The CH-5 die set is designed for radius channels where overbend is built into the punch and die to compensate for springback.

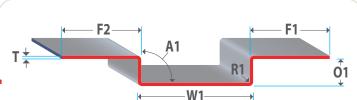




CH-6 Semi-Hat Channel Die Set

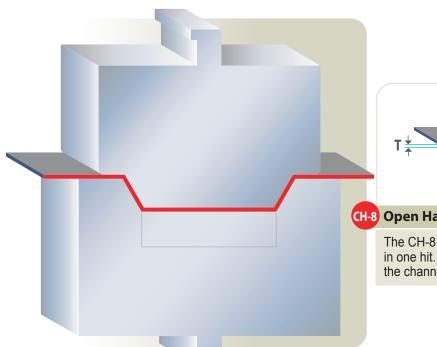
The CH-6 die set forms a semi-hat channel at the edge of a sheet. The release wedge in the die and hook stripper assures positive part removal.

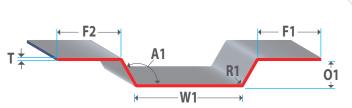




CH-7 Hat Channel Die Set

The CH-7 die set produces consistently square corners in one hit due to a spring pressure pad. Part removal is made easier by release wedges on the punch and die.





CH-8 Open Hat Channel Die Set

The CH-8 open hat channel die set forms an open hat channel in one hit. The pressure pad assures flatness in the bottom of the channel and easy pat removal.

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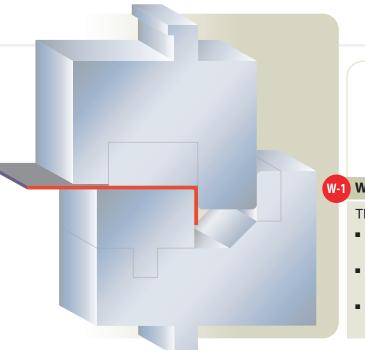


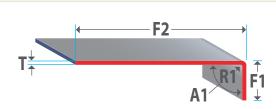
Style Tooling







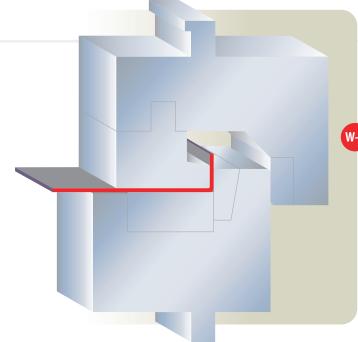


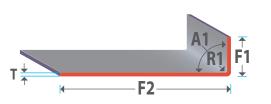


W-1 Wiping Die Set

The W-1 wiping die set produces a flange via a wiping action.

- The sheet is positioned horizontally and eliminates part whip up.
- Shimming an insert at the back of the die will adjust the small variations in material thickness.
- When forming on three or four sides the forming insert can be sectionalized for varying panel lengths.

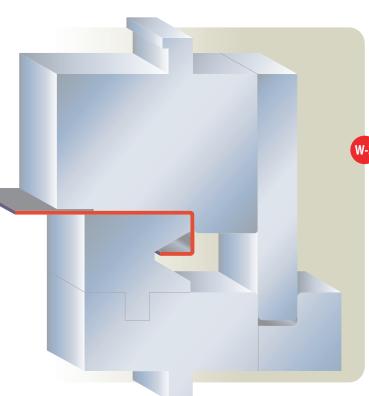


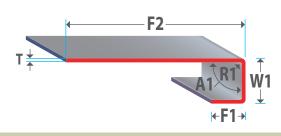


W-2 Wiping Die Set

The W-2 wiping die set produces a flange via a wiping action.

- The sheet is positioned horizontally and eliminates part whip up.
- The spring pressure pad aids in easy part removal.
- Shimming an insert at the back of the die will adjust the small variations material thickness.
- When forming on three or four sides the forming insert can be sectionalized for varying panel lengths.

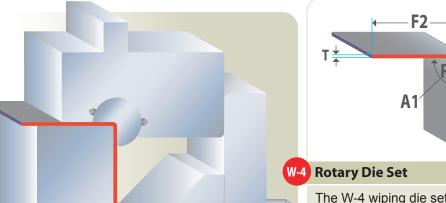




W-3 Wiping Die Set

The die set W-3 produces an edge channel in two strokes. The sheet is positioned horizontally on the die and located against the back gauge for producing the second bend on the following stroke.

- The bends are formed down and eliminating whip up.
- Shimming an insert at the back of the die will adjust the small variations in material thickness.
- When forming on three or four sides the forming insert can be sectionalized for varying panel lengths.
- Over bend can be built into the die set to compensate for spring back in heavier materials.





Ledger

Radius (R1): _______ Angel (A1): _____ Flange (F1): _____ Flange (F2): _____ Width (W1): ____ Material Thickness (T): _____ Length of Bend (L): _____

The W-4 wiping die set produces a flange via a rotary wiping action.

- The sheet is positioned horizontally and eliminates part whip up.
- Shimming the leader on the backside of the die will adjust the small variations in material thickness.
- When forming on three or four sides the W-4 can be designed with a sectionalized forming insert for varying panel lengths.
- Requires 30% less tonnage then other wiping dies.
- Over bend can be built into the die set to compensate for spring back in heavier materials.

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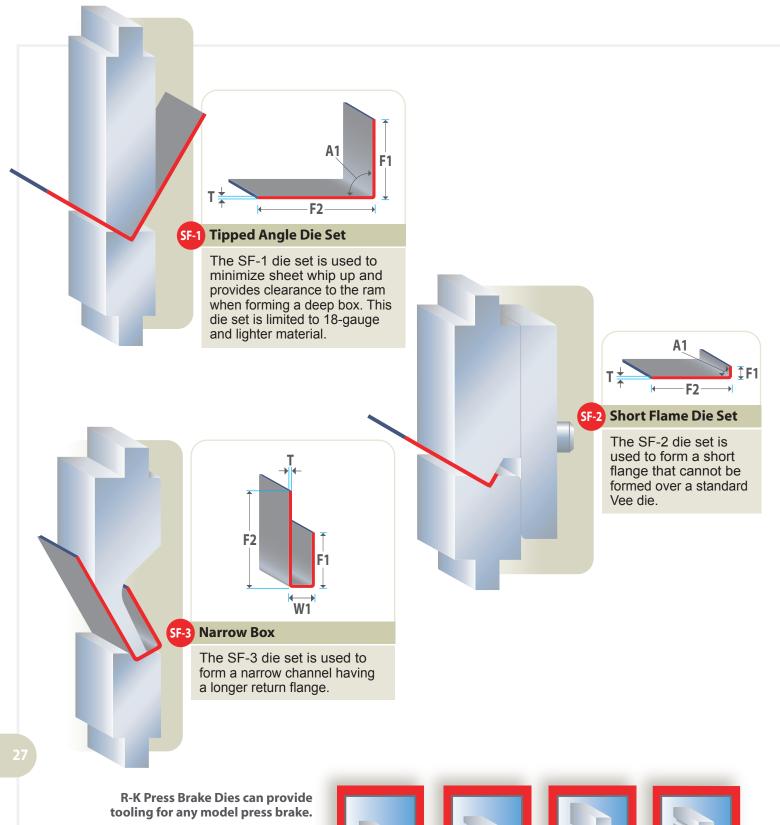


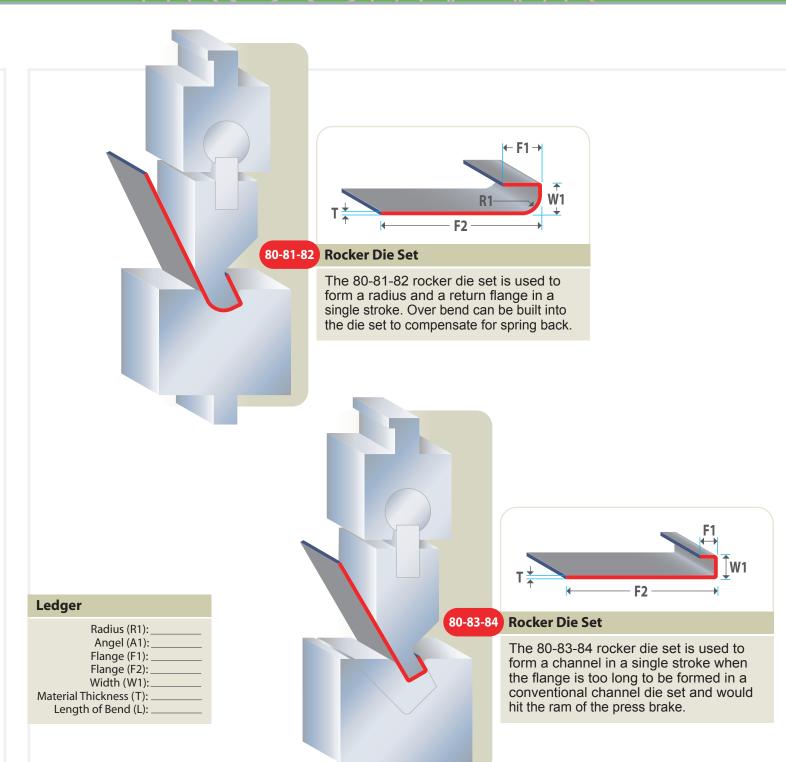




25

Tipped Angle Dies







Style Tooling



European **Style Tooling**



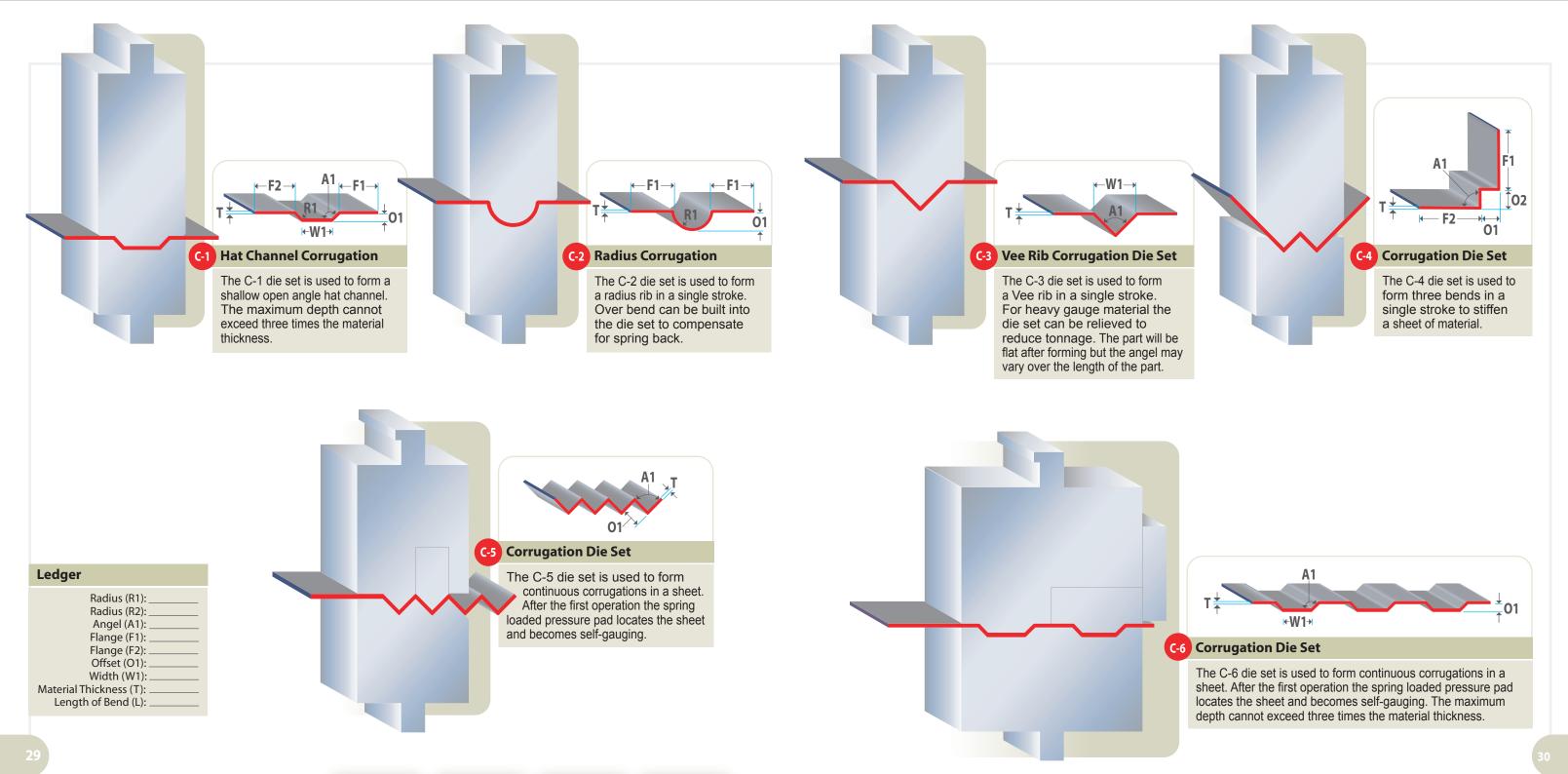




Corrugation Dies | | Corrugation Dies | | Corrugation Dies | Corrugati

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We think you'll form a favorable opinion.



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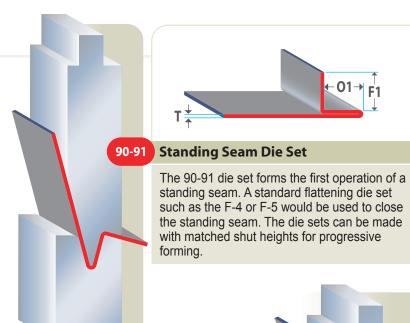
andard Ame







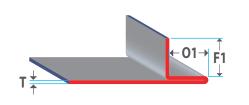
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Ledger

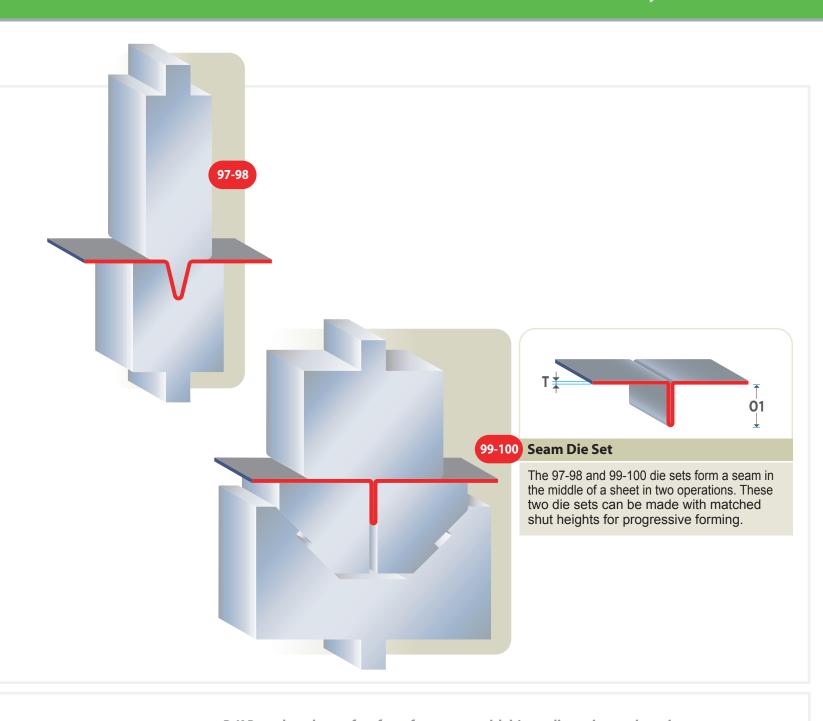
Flange (F1): _____ Offset (O1): ____ Material Thickness (T): ____ Length of Bend (L): ____





92-93 Standing Seam Die Set

The 92-93 standing seam die set forms a standing seam in two strokes. The first operation forms an acute and 90° bend that is closed in the second operation in the lower section of the die.



R-K Press has the perfect form for success with it's quality, price, and service. You can be assured that you are getting precision die design and tooling each and every time. Let us prove our claim!

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American Style Tooling





Providing Tools To

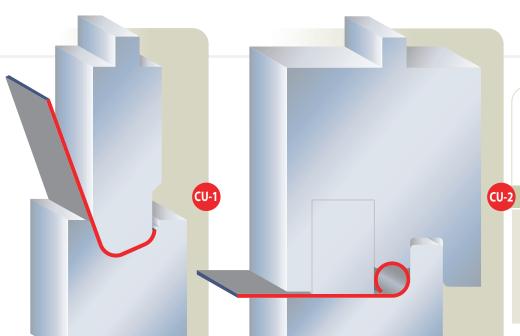


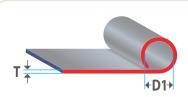
31

Ledger

Diameter (D1): Material Thickness (T):

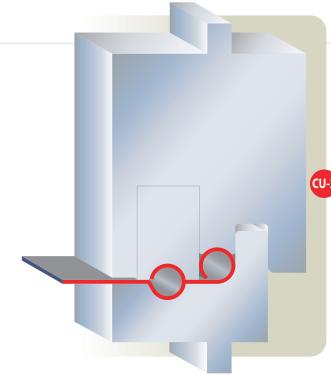
Length of Bend (L):

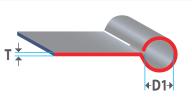




CU-2 Curling Die Set

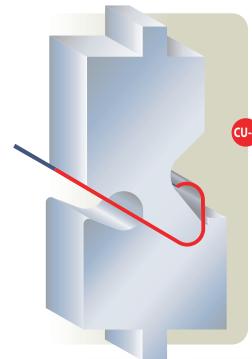
The CU-1and CU-2 curling dies sets when used in combination with each other form the tightest, most accurate off-center curl available in two press strokes. For progressive forming the die sets can be made with matched shut heights.

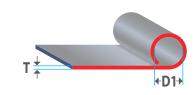




CU-3 Curling Die Set

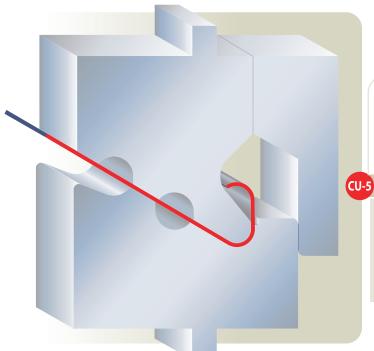
The CU-1 and CU-3 curling die sets form an off-center curl in three stokes or an on-center curl in three strokes. To maintain the diameter of the curl the part should be closed over a mandrel in the third operation.

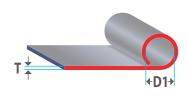




CU-4 Curling Die Set

The CU-4 curling die set forms a complete off-center curl in three operations. Whip-up is kept to minimum because of the small angle involved as the material travels through the first two operations. When forming heavier materials, a leader can be added to the backside of the punch which keeps the punch and die form spreading.





CU-5 Curling Die Set

The CU-5 curling die set forms a complete off-center curl in three operations or an on-center curl in four operations. To maintain the diameter of the curl the part should be closed over a mandrel in the third operation. A leader is added to the backside of the punch which keeps the punch and die form spreading.

R-K Press Brake Dies can provide tooling for any model press brake.



Style Tooling

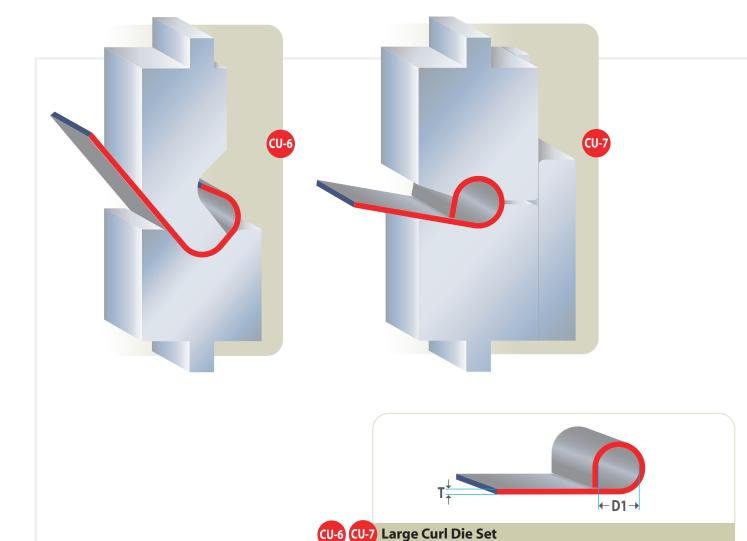






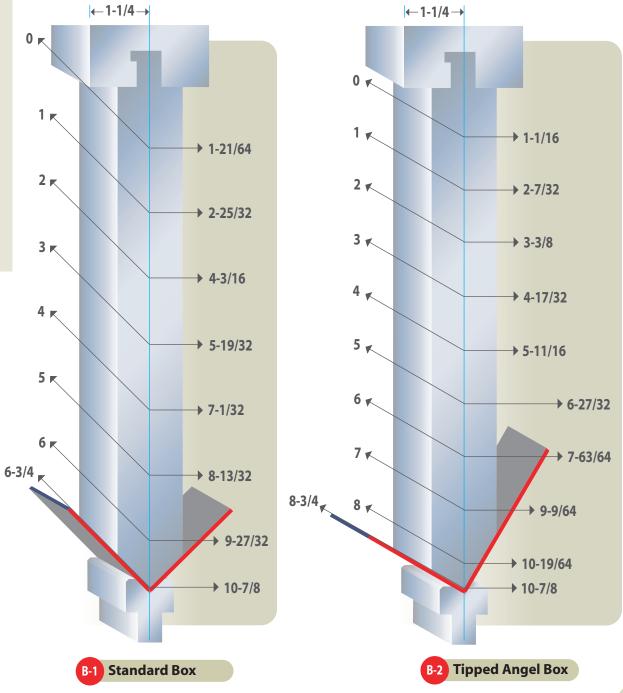


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90 Bends

Box forming die sets are used to form a pan, box, or similar part that requires the four sides to be bent up. The punch must be high enough so that when the last two bends are made the preformed sides will not hit the ram. The minimum punch height is shown for various box depths for forming 90° bends.



Ledger

Diameter (D1): Material Thickness (T): Length of Bend (L):

The CU-6 and CU-7 curling die sets are useful in forming larger diameter curls in three stokes. Three operations used in conjunction with both die sets will produce a closed curl, while an open curl up to 180° can be formed with just CU-6. Both dies may be placed next to each other for progressive forming.

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Style Tooling





Way and 4-Way



4-Way Die 3-Way & 4-Way Dies

The 3-way die can be used as a flattening die as well as for general forming purposes.

The 4-way die as well as the 3-way die can be made up with Vee openings suitable to your forming needs. The charts below suggest the Vee-openings that can be used with a certain size square.



No.	Block Size	Three	Way Die	Opening
L3W225	2-1/4"	1/2"	3/4"	1"
L3W275	2-3/4"	3/4"	1-1/8"	1-1/2"
L3W325	3-1/4"	1"	1-1/2"	2"
L3W375	3-3/4"	1-1/8"	2"	2-1/2"
L3W425	4-1/4"	1"	2"	3"
L3W475	4-3/4"	1-1/4"	2"	3"
L3W525	5-1/4"	1-1/2"	2-1/2"	3-1/2"
L3W575	5-3/4"	1-1/2"	2-1/2"	4"
L3W675	6-3/4"	1-1/2"	2-1/2"	5"
L3W775	7-3/4"	2"	3"	6"
L3W10	10"	2-1/2"	4"	8"
L3W12	12"	3"	6"	10"

No.	Block Size	Fo	ur Way E	Die Open	ing
L4W225	2-1/4"	1/2"	3/4"	1"	1-1/4"
L4W275	2-3/4"	5/8"	7/8"	1-1/8"	1-1/2"
L4W325	3-1/4"	3/4"	1"	1-1/2"	2"
L4W375	3-3/4"	7/8"	1-1/8"	2"	2-1/2"
L4W425	4-1/4"	1"	1-1/2"	2"	3"
L4W475	4-3/4"	1"	1-1/4"	2-1/2"	3"
L4W525	5-1/4"	1-1/8"	1-1/2"	3"	3-1/2"
L4W575	5-3/4"	1-1/4"	2"	3"	4"
L4W675	6-3/4"	1-1/2"	2-1/2"	3-1/2"	5"
L4W775	7-3/4"	2"	3"	3-1/2"	6"
L4W10	10"	2-1/2"	3-1/2"	4"	8"
L4W12	12"	3"	4"	5"	10"

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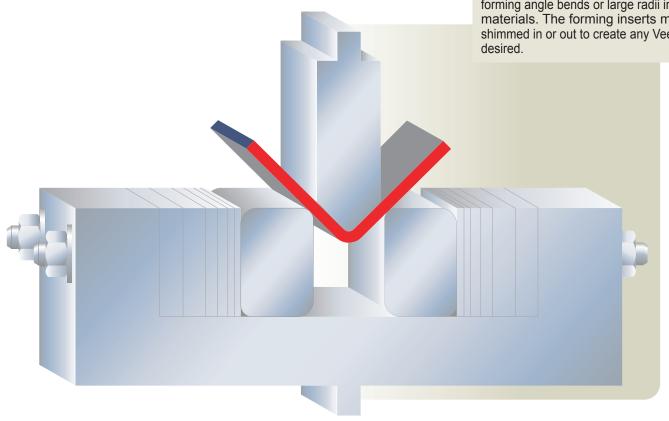






AG-1 Adjustable Vee Die

The AG-1 adjustable Vee die can be used for forming angle bends or large radii in various materials. The forming inserts may be shimmed in or out to create any Vee opening desired.



Vee Opening	Width	Height
3-8	16.25	5.75
4-10	19.5	7
5-12	20.5	10
8-15	28	10.5



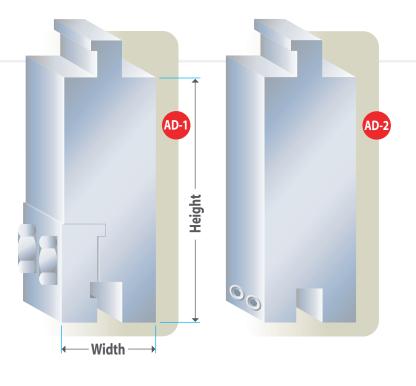


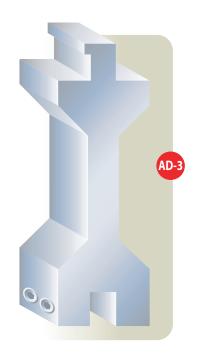
pecial Ram Adapters

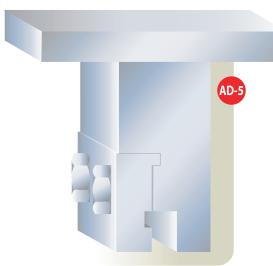
e Holders

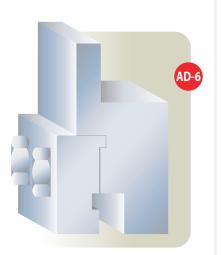
Ram Adapters

Often when there is not enough ram adjustment for a certain die set a space occurs. The ram adapters AD-1 through AD-6 are used to fill this die space. When using a ram adapter the die set can be mounted directly to the press bed. The adapter can be used to increase the height of a standard type forming punch to form a tube or box. Adapters can be manufactured in any height or width depending on the particular application.









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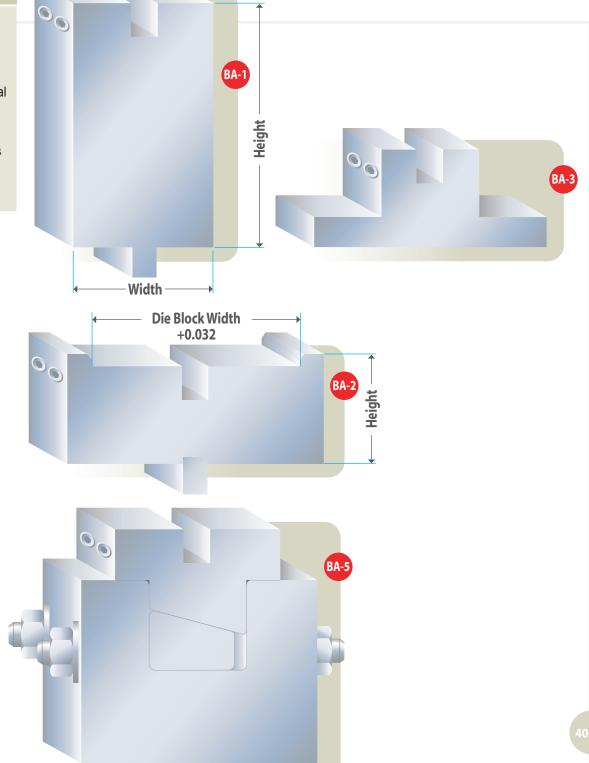






Die Holders

Die holders are used to hold the lower die to the bed of the press brake. The flat top die holder are used with standard and special dies sets. Universal die holders such as the BA-2 are used to hold a three-way or four-way die. The BA-5 die holder offers adjustment every 6" to compensate for deflection in the press brake.



	terial Width of Female Vee Die Openings Width of Female Vee Die Openings																												
Gauge	Dec.	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"	7"	8"	10"	12"	14"	16"	20"	24"	30"
20	.036	2.5	2	1.6	1.1	1.2																							
18	.0478		3.5	2.8	2.1	1.7	1.3																						
16	.0598			5.3	5.3	3.7	2.8	2.2	1.7																				
14	.0747					5.5	4.6	3.5	3.0	2.5	2.1																		
13	.0897						6.4	5.5	4.3	3.6	3.2	2.8																	
12	.046						9.2	6.9	6.0	5.0	4.3	3.9	3.1																
11	.1196							10.1	8.0	7.0	6.1	5.3	4.3	2.9															
10	.1345								10.3	8.7	7.8	6.9	5.7	3.9															
9	.1495									11.9	9.8	8.8	7.0	5.0	3.7														
3/16"	.187										16.9	13.9	11.2	8.3	6.7	4.9													
1/4"	.250											27.5	22.1	15.0	11.6	9.6	7.9	6.7											
5/16"	.312												39.2	26.5	19.3	15.0	12.5	10.4	7.7										
3/8"	.375													42.7	31.2	23.8	19.5	16.3	12.4	9.6									
7/16"	.438														45.5	35.2	28.5	24.4	17.4	15.0	11.5								
1/2"	.500															48.5	39.5	33.2	24.6	19.5	16.1	13.4							
5/8"	.625																65.5	57.9	42.8	33.1	27.3	23.3	17.0						
3/4"	.750															138	110	93	68.7	53.2	43.6	36.5	27.1	21.0					
7/8"	.875																165	137	103.5	81	64	53	39.5	31.4					
1"	1.00																	197	143	112.5	91	76	56	44					
	1.25																					131	98	76	62	51	38		
	1.50																						153	118.5	97.5	81	60	47	
	1.75																							175	144	119	88	69	51
	2.0																								199	165	122	97	71
	2.5			I _																						290	215	169	125
3"	3.0			T																							338	266	197

- Approximate tons per lineal foot of Forming (based on air bending 90° bend in mild steel).
- Red type areas are recommend VEE opening where customer has ample tonnage.
- When using material 5/8" and thicker, it is usual practice to have die opening 10 x metal thickness.

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←Vee→









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