November 2012

WILSON HP™ MURATA WIEDEMANN® 112 AND 114 STYLE TOOLING

Your Choice for Speed and Precision



WILSON TOOL

Strength. Performance. Innovation.

INCREASE PRODUCTIVITY WITH A WILSON HIGH PERFORMANCE™ MURATA WIEDEMANN® TOOLING SYSTEM.

Uniquely designed to handle high speed punching, the Wilson High Performance™ tooling system for Murata Wiedemann® boosts punch press productivity. It not only withstands more punches per minute than traditional punch press tooling but its innovative holder design speeds adjustments, drastically reducing downtime and improving efficiency. The standard Wilson HP holder works with all 112 and 114 style punches for Murata Wiedemann machines.

Engineered for Speed and Precision.

Wilson HP features full guiding and spring stripping for higher speed punching and increased punch life. Each tooling is constructed from hardened tool steel to increase durability and scratch resistance. A quick release steel stripper plate produces cleaner holes with less sheet distortion for greater precision.



Fast Adjustments Reduce Downtime.

Wilson Tool's exclusive holder technology provides quick and easy push button adjustments that reduce downtime. Positive, in-machine adjustments can be made with a simple click-and-turn motion in .005" (0.13mm) increments for standard tooling. Wilson HP holders eliminate the need for shims and significantly increase adjustment accuracy.



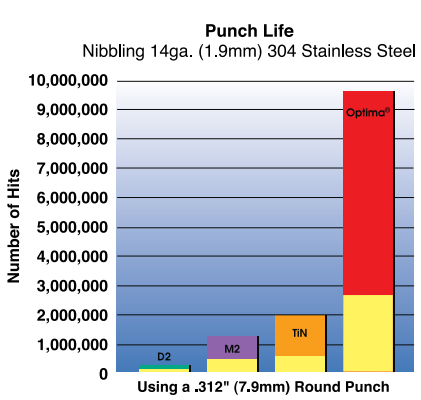
Improve Wear Resistance with Optima®.

Every Wilson 112 and 114 style Tooling is available with Wilson's exclusive Optima® coating. Developed by Wilson engineers, Optima provides a surface hardness, wear resistance and lubricity unmatched by any other coated or uncoated turret punch press tooling. The result is a longer tool life, more hits between sharpenings, reduced galling, better performance and less downtime.

Optima® coating provides:

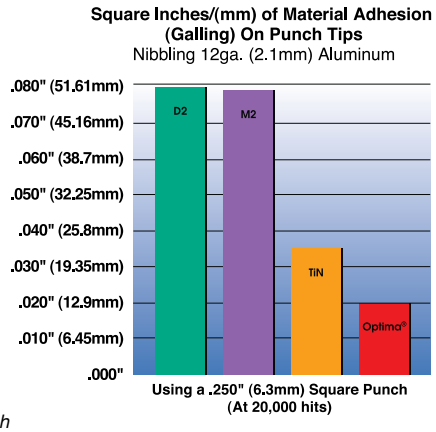
- Longer tool life
- Increased wear resistance
- More hits between sharpenings
- Reduced adhesion (galling)
- Reduced slug pulling
- Reduced corner breakdown
- Improved special tooling performance
- Lower overall tooling costs

Punch Life

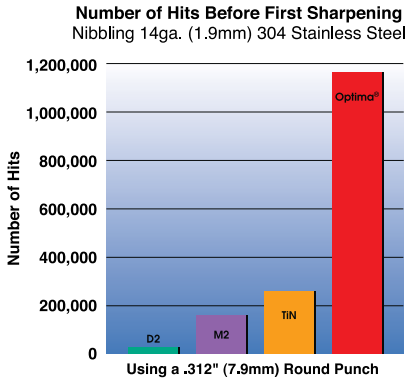


The yellow area indicates actual results achieved through three tool sharpenings of .010" (0.25mm) each. The complete graph indicates projected results with a total of .236" (6mm) removed for sharpening.

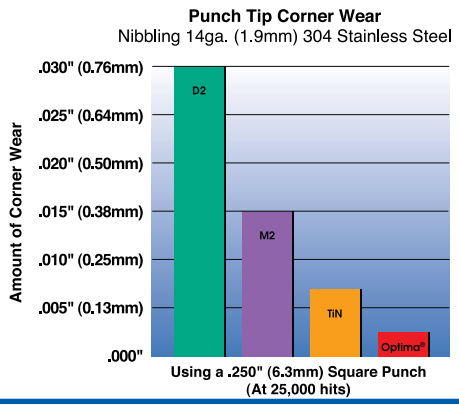
Material Adhesion



Number of Hits



Tip Wear



Local
Tel: 651-286-6001
Fax: 651-286-5959

Toll Free U.S.A. & Canada
Tel: 800-328-9646
Fax: 800-222-0002

Toll Free Mexico
Tel: 001-800-741-2510
Fax: 001-800-544-2096

Website & Email
www.wilsontool.com
salesdesk@wilsontool.com

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WILSON HP™ ASSEMBLIES

FOR 112 & 114 STYLE TOOLING

DESCRIPTION	CAT. NO.
XB Wilson HP™ 112 Style Guide Assembly	22517
XB Wilson HP™ 114 Style Guide Assembly*	22500
Thread Adapter 5/16-18 to 1/2-13	22535
B Wilson HP™ 112 Style Guide Assembly	22514
B Wilson HP™ 114 Style Guide Assembly*	22513
Wilson HP™ Stripper Plate - round	22530
Wilson HP™ Stripper Plate - shape	22531
Thread Adapter 5/16-18 to 1/2-13	22535
C Wilson HP™ 112 Style Guide Assembly	22591
C Wilson HP™ 114 Style Guide Assembly	22592
Wilson HP™ Stripper Plate - round	22607
Wilson HP™ Stripper Plate - shape	22608
D Wilson HP™ 112 Style Guide Assembly**	22613
D-Al Wilson HP™ 112 Style Guide Assembly (3.375" O.D.)	22617
D Wilson HP™ 114 Style Guide Assembly**	22616
D-Al Wilson HP™ 114 Style Guide Assembly (3.375" O.D.)	22618
D-Al Lifter Button Assembly (set of 4)	22596
Wilson HP™ Stripper Plate - round	22638
Wilson HP™ Stripper Plate - shape	22639
EF Wilson HP™ 112 Style Guide Assembly (4.562" O.D.)	22536
F-Al Wilson HP™ 112 Style Guide Assembly (4.172" O.D.)	22563
EF Wilson HP™ 114 Style Guide Assembly (4.562" O.D.)	22537
F-Al Wilson HP™ 114 Style Guide Assembly (4.172" O.E.)	22562
Wilson HP™ Stripper Plate - round	22557
Wilson HP™ Stripper Plate - shape	22558
GHJ Wilson HP™ 114 Style Guide Assembly (5.937" O.D.)	22595
Wilson HP™ Stripper Plate - round	22587
Wilson HP™ Stripper Plate - shape	22588



* Uses thread adapter
** Assembly can be converted to Auto-Index by adding catalog #22596

Wilson HP™ Assemblies fit the following machines:

Centrum 3000, 3500
Magnum 2125, 5000
Vectrum 3046, 3056, 5058
Motorum 2044, 2048
Wiedematic 3050, 4560

Accessories

Catalog #23533 (1/4" T-handle hex wrench)
Price: $10.50
Used on: 114 XB thru GHJ Assembly
112 XB thru EF Assembly

Features and Benefits:

- Accepts standard 112/114 Wiedemann tooling.
- Push button length adjustment in .005 increments. (XB Assembly does not have the above feature)
- Punches are self-stripping and guided.
- Utilizes a steel stripper retention system (no tools required).

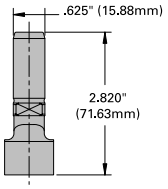
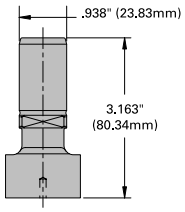
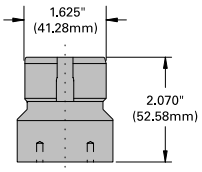
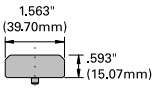
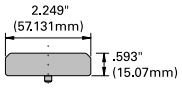
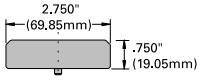
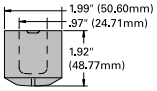
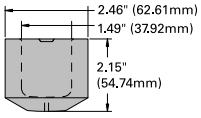
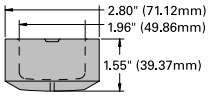
WILSON TOOL

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Fax: 800-222-0002

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Fax: 001-800-544-2096

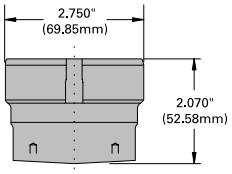
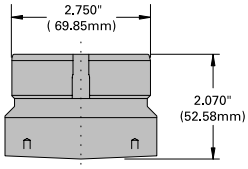
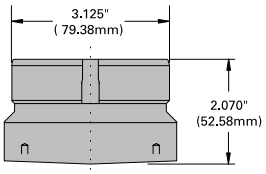
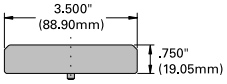
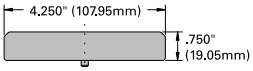
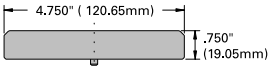
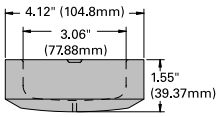
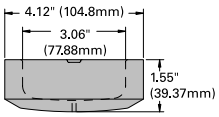
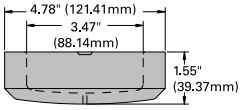
Website & Email
www.wilsontool.com
salesdesk@wilsontool.com

	B Station Up to 1.000" (25.4mm)	C Station 1.001 - 1.500" (25.4 - 38.1mm)	D Station 1.501- 2.000" (38.1 - 50.8mm)
PUNCHES	 Cat. No. Shape 20101 Shape Punch 0° & 45° 20102 Optima™ 20152 –	 Cat. No. Round 20103 Shape 20104 Shape Punch 0° & 45° 20154 Optima™ –	 Cat. No. Round 20105 Shape 20106 Optima™ –
DIES	 Cat. No. Round Slug Hugger-2™* 20001 Round Standard 20000 Shape Slug Hugger-2™* 20004 Shape Positive 20003 Shape Die Positive at 0° & 45° 20282 Shape Slug Hugger-2™* at 0° & 45° 20283	 Cat. No. Round Slug Hugger-2™* 20007 Round Standard 20006 Shape Slug Hugger-2™* 20010 Shape Positive 20009	 Cat. No. Round Slug Hugger-2™* 20013 Round Standard 20012 Shape Slug Hugger-2™* 20016 Shape Positive 20015
STRIPPERS	 Cat. No. HP Round 22530 HP Shape 22531 Standard 20303 ≤ 1/8" (3.2mm) RT 20304	 Cat. No. HP Round 22607 HP Shape 22608 Standard 20305	 Cat. No. HP Round 22638 HP Shape 22639 Standard 20306 ≤ 1/8" (3.2mm) RT 20308 ≤ 1/2" (12.7mm) RT 20309 1" (2.54mm) SQ 20307
PUNCH SHIMS	**OD .59" (15mm)** **Thickness .060 (1.5mm)** Cat. No. 25 per bag 20226	**OD .90" (22.86mm)** **Thickness .060 (1.5mm)** Cat. No. 25 per bag 20228	**OD 1.59" (40.39mm)** **Thickness .060 (1.5mm)** Cat. No. 5 per bag 20230
DIE SHIMS	**OD 1.54" (39mm)** **Thickness .030 (0.75mm)** Cat. No. 25 per bag 20202	**OD 2.23" (56.6mm)** **Thickness .030 (0.75mm)** Cat. No. 25 per bag 20204	**OD 2.73" (69mm)** **Thickness .030 (0.75mm)** Cat. No. 5 per bag 20206

*Slug Hugger-2™ dies must be ordered punch size plus clearance, .098 (2.49mm) min. dia. on rounds, .060 (1.53mm) min. width on shapes, .006 (0.15mm) min. clearance.

For 112 Style Tooling add ons, and other urethane stripper options, see page 6.

HP™ 112 STYLE TOOLING

	E Station 2.001 - 2.500" (50.8 - 63.5mm)	F Station 2.501 - 3.125" (63.5 - 79.4mm)	G Station 3.126 - 3.500" (79.4 - 88.9mm)
PUNCHES			
	Cat. No.	Cat. No.	Cat. No.
Round	20107	20109	20111
Shape	20108	20110	20112
Optima™	–	–	–
DIES			
	Cat. No.	Cat. No.	Cat. No.
Round Slug Hugger-2™*	20019	20025	20031
Round Standard	20018	20024	20030
Shape Slug Hugger-2™*	20022	20028	20034
Shape Positive	20021	20027	20033
STRIPPERS			
	Cat. No.	Cat. No.	Cat. No.
HP Round	22557	22557	22587
HP Shape	22558	22558	22588
Standard	20310	20312	20315
≤ 1/2" (12.7mm) RT	20311	20314	20317
2" (50.8mm) SQ		20313	
PUNCH SHIMS	**OD 2.72" (69mm)** **Thickness .060 (1.5mm)**		**OD 3.09" (78.5mm)** **Thickness .060 (1.5mm)**
	Cat. No.		Cat. No.
5 per bag	20232		20234
DIE SHIMS	**OD 3.480" (88.4mm)** **Thickness .030 (0.75mm)**	**OD 4.23" (107.4mm)** **Thickness .030 (0.75mm)**	**OD 4.73" (120.1mm)** **Thickness .030 (0.75mm)**
	Cat. No.	Cat. No.	Cat. No.
5 per bag	20208	20210	20212

*Slug Hugger-2™ dies must be ordered punch size plus clearance, .098 (2.49mm) min. dia. on rounds, .060 (1.53mm) min. width on shapes, .006 (0.15mm) min. clearance.

For 112 Style Tooling add ons, and other urethane stripper options, see page 6.

A, B, C Station Add Ons		
Add ons for Rounds		
Small Diameter .031 - .061 (0.79 - 1.55 mm) .062 - .092 (1.57 - 2.34 mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**
Add ons for Shapes		
Small Widths .031 - .039 (0.79 - 1.0mm) .040 - .092 (1.02 - 2.34mm)	**Punch**	**Die**
Small 'A' Dimension† C < .750 (19.05mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**

D Station Add Ons		
Add ons for Rounds		
Small Diameter < 1.250 (31.75mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**
Add ons for Shapes		
Small Widths .031 - .039 (0.79 - 1.0mm) .040 - .092 (1.02 - 2.34mm)	**Punch**	**Die**
Small 'A' Dimension† < 1.150 (29.21mm) 1.150 - 1.500 (29.21 - 38.1mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**

E, F, G Station Add Ons		
Add ons for Rounds		
Small Diameter E, F < 1.900 (48.26mm) G < 3.024 (76.81mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**
Add ons for Shapes		
Small Widths .031 - .039 (0.79 - 1.0mm) .040 - .092 (1.02 - 2.34mm)	**Punch**	**Die**
Small 'A' Dimension† E, F < 1.750 (44.45mm) G < 2.750 (69.85mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**

Radius or 45° Chamfer 4 Corners		
	Radius or Chamfer Size	**Price**
Punches	.001 - .062 (0.02 - 1.57mm) .063 - .250 (1.58 - 6.35mm) Greater than .250 (6.35mm)	
Dies	Any size	

Notes

- Add to round or shape punch for extra straight before radius, extra back taper, or no back taper.
- † 'A' Dimension = longest distance across shape.

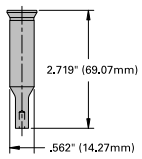
Urethane Stripper Options	
95 dA (natural)*	**Heavy Duty**
90 dA (blue)	**Standard**
80 dA (green)*	**Light Duty**
70 dA (yellow)*	**Very Light Duty**
Custom Molded*	

*Contact our sales desk for price and delivery.

HP™ 114 STYLE TOOLING

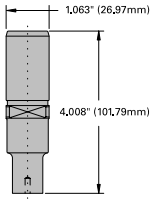
PUNCHES

A Station
Up to .500" (12.7mm)



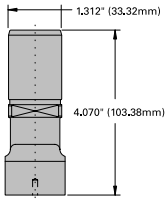
	Cat. No.
Round	20113
Optima™	–

B Station
Up to 1.000" (25.4mm)



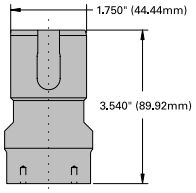
	Cat. No.
Round	20115
Shape	20116
Keyed Round Punch	20165
Shape Punch 0° & 45°	20166
Optima™	–

C Station
1.001 - 1.500" (25.4 - 38.1mm)



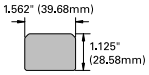
	Cat. No.
Round	20117
Shape	20118
Shape Punch 0° & 45°	20168
Optima™	–

D Station
1.501- 2.000" (38.1 - 50.8mm)

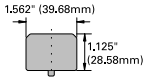


	Cat. No.
Round	20119
Shape	20120
Optima™	–

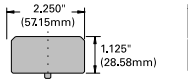
DIES



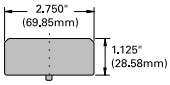
	Cat. No.
Round Slug Hugger-2™*	20037
Round Standard	20036



	Cat. No.
Round Slug Hugger-2™*	20037
Round Standard	20036
Shape Slug Hugger-2™*	20040
Shape Positive	20039
Shape Die Positive at 0º&45º	20291
Shape Slug Hugger-2™* at 0° & 45°	20292

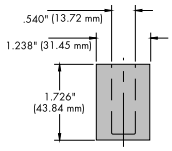


	Cat. No.
Round Slug Hugger-2™*	20043
Round Standard	20042
Shape Slug Hugger-2™*	20046
Shape Positive	20045

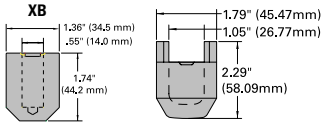


	Cat. No.
Round Slug Hugger-2™*	20049
Round Standard	20048
Shape Slug Hugger-2™*	20052
Shape Positive	20051

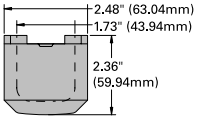
STRIPPERS



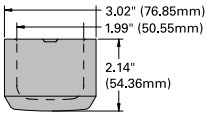
	Cat. No.
Standard	20401
(Magnum Machine)	20402



	Cat. No.
HP Round	22530
HP Shape	22531
XB	20400
Standard	20403
≤ 1/8" (3.2mm) RT	20404



	Cat. No.
HP Round	22607
HP Shape	22608
Standard	20405



	Cat. No.
HP Round	22638
HP Shape	22639
Standard	20406
≤1/8" (3.2mm) RT	20408
1" (2.54mm) SQ	20407

PUNCH SHIMS

	Cat. No.
OD 1.03" (26.2mm) Thickness .060 (1.5mm) 25 per bag	20236
OD 1.28" (32.5mm) Thickness .060 (1.5mm) 25 per bag	20238
OD 1.72" (43.7mm) Thickness .060 (1.5mm) 5 per bag	20240

DIE SHIMS

	Cat. No.
OD 1.54" (39mm) Thickness .030 (0.75mm) 25 per bag	20202
OD 2.23" (56.6mm) Thickness .030 (0.75mm) 25 per bag	20204
OD 2.73" (69mm) Thickness .030 (0.75mm) 5 per bag	20206

*Slug Hugger-2™ dies must be ordered punch size plus clearance, .098 (2.49mm) min. dia. on rounds, .060 (1.53mm) min. width on shapes, .006 (0.15mm) min. clearance.
For 114 Style Tooling add ons, and other urethane stripper options, see page 10.

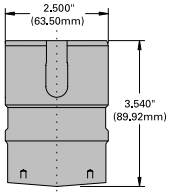
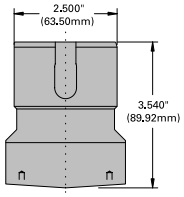
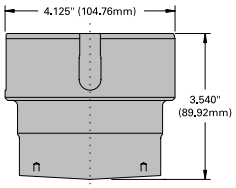
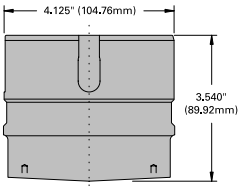
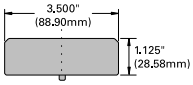
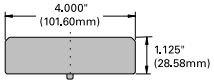
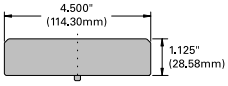
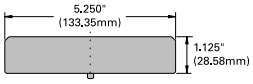
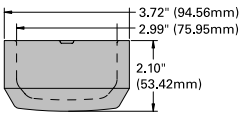
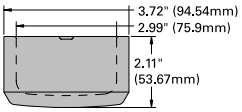
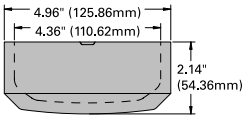
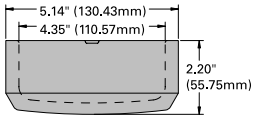
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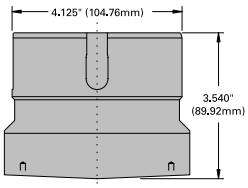
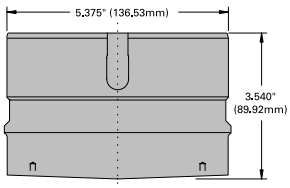
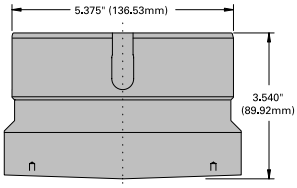
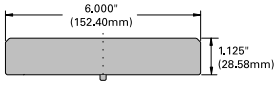
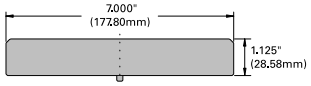
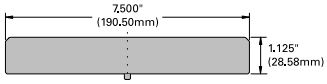
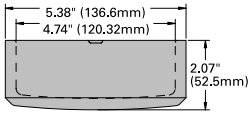
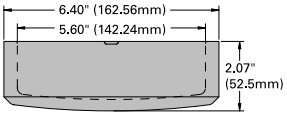
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	E Station 2.001 - 2.500" (50.8 - 63.5mm)	F Station 2.501 - 3.000" (63.5 - 76.2mm)	G Station 3.001 - 3.500" (76.2 - 88.9mm)	H Station 3.501 - 4.125" (88.9 - 104.8mm)
PUNCHES				
	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Round	20121	20123	20125	20127
Shape	20122	20124	20126	20128
Optima™	–	–	–	–
DIES				
	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Round Slug Hugger-2™*	20055	20061	20067	20073
Round Standard	20054	20060	20066	20072
Shape Slug Hugger-2™*	20058	20064	20070	20076
Shape Positive	20057	20063	20069	20075
STRIPPERS				
	Cat. No.	Cat. No.	Cat. No.	Cat. No.
HP Round	22557	22557	22587	22587
HP Shape	22558	22558	22588	22588
Standard	20410	20412	20415	20418
≤1/2" (12.7mm) RT	20411	20414	20417	20419
2" (50.8mm) SQ.		20413	20416	
PUNCH SHIMS	**OD 2.47" (62.7mm)** **Thickness .060 (1.5mm)**		**OD 4.09" (103.9mm)** **Thickness .060 (1.5mm)**	
	5 per bag	Cat. No. 20242	5 per bag	Cat. No. 20244
DIE SHIMS	**OD 3.48" (88.4mm)** **Thickness .030 (0.75mm)**	**OD 3.98" (101.1mm)** **Thickness .030 (0.75mm)**	**OD 4.48" (113.8mm)** **Thickness .030 (0.75mm)**	**OD 5.23" (132.8mm)** **Thickness .030 (0.75mm)**
	5 per bag Cat. No. 20208	5 per bag Cat. No. 20214	5 per bag Cat. No. 20216	5 per bag Cat. No. 20218

*Slug Hugger-2™ dies must be ordered punch size plus clearance, .098 (2.49mm) min. dia. on rounds, .060 (1.53mm) min. width on shapes, .006 (0.15mm) min. clearance.
For 114 Style Tooling add ons, and other urethane stripper options, see page 10.

HP™ 114 STYLE TOOLING

	J Station 4.126 - 4.750" (104.8 - 120.65mm)	K Station 4.751 - 5.500" (120.65 - 139.7mm)	L Station 5.501 - 6.000" (139.7 - 152.4mm)
PUNCHES			
	Cat. No.	Cat. No.	Cat. No.
	Round 20129 Shape 20130 Optima™ –	Round 20131 Shape 20132 Optima™ –	Round 20133 Shape 20134 Optima™ –
DIES			
	Cat. No.	Cat. No.	Cat. No.
	Round Slug Hugger-2™* 20079 Round Standard 20078 Shape Slug Hugger-2™* 20082 Shape Positive 20081	Round Slug Hugger-2™* 20085 Round Standard 20084 Shape Slug Hugger-2™* 20088 Shape Positive 20087	Round Slug Hugger-2™* 20091 Round Standard 20090 Shape Slug Hugger-2™* 20094 Shape Positive 20093
STRIPPERS			**Not Available**
	Cat. No.	Cat. No.	
	HP Round 22587 HP Shape 22588 Standard 20420 ≤1/2" (12.7mm) RT 20421	Standard 20422 ≤1/2" (12.7mm) RT 20424 (Magnum Machine) 20423	
PUNCH SHIMS	**OD 4.09" (103.9mm)** **Thickness .060 (1.5mm)**	**OD 5.34" (135.6mm)** **Thickness .060 (1.5mm)**	
	Cat. No.	Cat. No.	
	5 per bag 20244	5 per bag 20246	
DIE SHIMS	**OD 5.98" (151.9mm)** **Thickness .031 (0.79mm)**	**OD 6.98" (177.3mm)** **Thickness .030 (0.75mm)**	**OD 7.48" (190mm)** **Thickness .030 (0.75mm)**
	Cat. No.	Cat. No.	Cat. No.
	5 per bag 20220	5 per bag 20222	5 per bag 20224

*Slug Hugger-2™ dies must be ordered punch size plus clearance, .098 (2.49mm) min. dia. on rounds, .060 (1.53mm) min. width on shapes, .006 (0.15mm) min. clearance.

For 114 Style Tooling add ons, and other urethane stripper options, see page 10.

A, B, C Station Add Ons		
Add ons for Rounds		
Small Diameter .031 - .061 (0.79 - 1.55 mm) .062 - .092 (1.57 - 2.34 mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**
Add ons for Shapes		
Small Widths .031 - .039 (0.79 - 1.0mm) .040 - .092 (1.02 - 2.34mm)	**Punch**	**Die**
Small 'A' Dimension† C < .750 (19.05mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**

D Station Add Ons		
Add ons for Rounds		
Small Diameter < 1.250 (31.75mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**
Add ons for Shapes		
Small Widths .031 - .039 (0.79 - 1.0mm) .040 - .092 (1.02 - 2.34mm)	**Punch**	**Die**
Small 'A' Dimension† < 1.150 (29.21mm) 1.150 - 1.500 (29.21 - 38.1mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**

E, F, G Station Add Ons		
Add ons for Rounds		
Small Diameter E, F < 1.900 (48.26mm) G < 3.024 (76.81mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**
Add ons for Shapes		
Small Widths .031 - .039 (0.79 - 1.0mm) .040 - .092 (1.02 - 2.34mm)	**Punch**	**Die**
Small 'A' Dimension† E, F < 1.750 (44.45mm) G < 2.750 (69.85mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**

H, J Station Add Ons		
Add ons for Rounds		
Small Diameter < 3.400 (88.9mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**
Add ons for Shapes		
Small Widths .031 - .039 (0.79 - 1.0mm) .040 - .092 (1.02 - 2.34mm)	**Punch**	**Die**
Small 'A' Dimension† < 3.250 (82.55mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**

K, L Station Add Ons		
Add ons for Rounds		
Small Diameter < 4.650 (120.65mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**
Add ons for Shapes		
Small Widths .031 - .039 (0.79 - 1.0mm) .040 - .092 (1.02 - 2.34mm)	**Punch**	**Die**
Small 'A' Dimension† < 4.500 (114.3mm) **Clearance** < .004 (0.10mm)	**Punch**	**Die**

Radius or 45° Chamfer 4 Corners		
	Radius or Chamfer Size	**Price**
Punches	.001 - .062 (0.02 - 1.57mm) .063 - .250 (1.58 - 6.35mm) Greater than .250 (6.35mm)	
Dies	Any size	

Notes

- Add $7.00 to round or shape punch for extra straight before radius, extra back taper, or no back taper.
- † 'A' Dimension = longest distance across shape.

Urethane Stripper Options	
95 dA (natural)*	**Heavy Duty**
90 dA (blue)	**Standard**
80 dA (green)*	**Light Duty**
70 dA (yellow)*	**Very Light Duty**
Custom Molded*	

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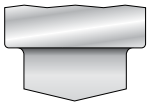
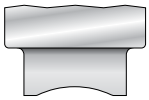
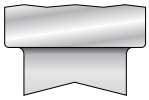
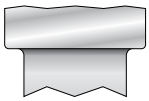
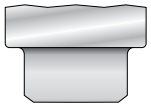
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SHEAR OPTIONS

Type of Shear	Benefit	Limitation
 **Rooftop**	Best shear for punching at maximum tonnages.	When nibbling, bite must be 75% of punch dimension or excessive side loading will result.
 **Concave or Double Concave**	Best shear for nibbling because it inverts stresses.	The punch is less resistant to breakage when punching at high tonnages because of inverted stresses.
 **Inverted Rooftop**	Also good shear for nibbling because it inverts stresses.	More susceptible to breakage because of a sharp focal point for stresses—use great care.
 **Double Valley Shear**	Best shear for nibbling when shape is long and narrow.	The punch is less resistant to breakage when punching at high tonnages because of inverted stresses.
 **JK Shear**	A special punch tip shear that allows you to punch high strength materials with a reduced risk of breakage.	Can only be used on punches up to 1.000" (25.4mm) diameter or 'A' dimension†.

Special Shears					
Station	'A' Dimensions †	Inverted Rooftop Or Single Concave		Double Valley Or Double Concave	
		112	114	112	114
		.062" (1.6mm) Shear	.093 (2.4mm) Shear	.062 (1.6mm) Shear	.093 (2.4mm) Shear
B,C	Within 1.500" (38.1mm)				
D, E, F	Within 3.125" (79.4mm)				
G, H, J	Within 4.750" (120.6mm				
K, L	Within 6.000" (152.4mm)				

.062"/1.6mm (112 Style) and .093"/2.4mm (114 Style) rooftop shear is given to all punches with 'A' dimension† greater than 2.000" (50.8mm) and width greater than .250" (6.35mm) at no extra charge. All punches .250" (6.35mm) and under in width will be shipped with no shear unless specified.

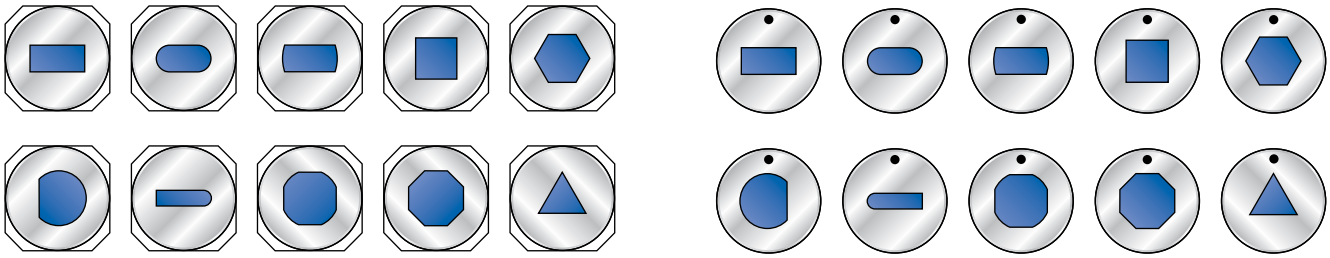
† 'A' Dimension = Longest dimension across shape.

NOTE: In some instances, inverted rooftop is substituted for single and double concave shears.

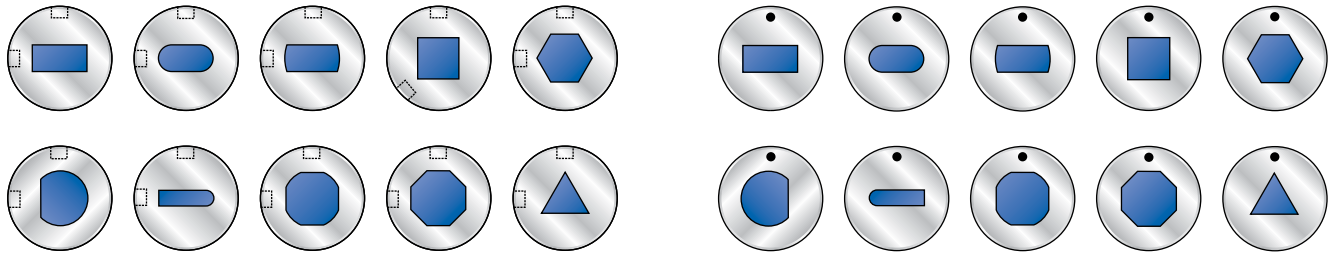
JK Shear	
Shape	Add On Price
Round	
Rectangle, Square, Hexagon, Single "D", Double "D"	
Obround	

STANDARD KEYING LOCATIONS

Punch View	B & C Stations	Die View



Punch View	D - L Stations	Die View



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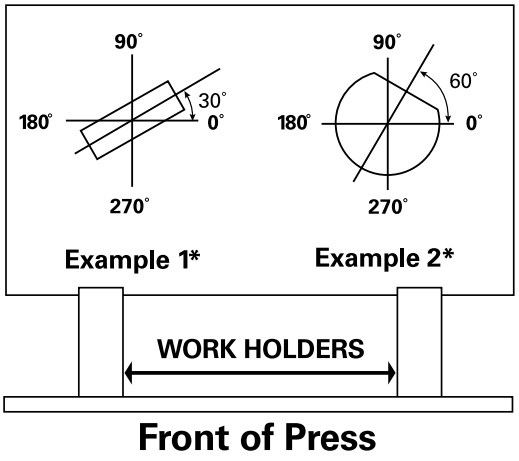
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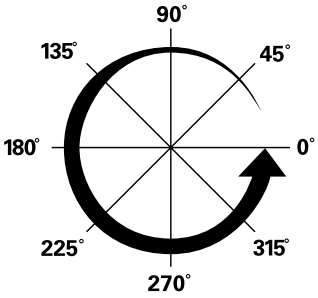
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NON-STANDARD KEYING

Examples of angle settings:



Note: Please refer to non-standard key locations by the following method:
- Example 1 "Shape at 30˚"
- Example 2 "Shape at 60˚"



Note: No additional charge on B & C stations for shape at 45 degree increments

Shape at single angle only at 15° Increments for 112 and 114		
Station	**Punches**	**Dies**
BC		
D		
EF		
GHJ		
KL		

Shape at single angle only at other than 15° Increments for 112 and 114		
Station	**Punches**	**Dies**
BC		
D		
EF		
GHJ		
KL		

Standard keying, plus extra keys for shapes at 45° increments for 112 and 114			
Station	**Punches**		**Dies**
	Available Options	**Add On Price**	**Add On Price**
BC	45˚ Only		
D	45˚ Increments		
EF	45˚ Increments		
GHJ	45˚ Increments		
KL	45˚ Increments		

Standard keying, plus extra pins or keys for shapes at other than 45° increments for 112 and 114		
Station	**Punches**	**Dies**
BC	Not Available	Not Available
D	Not Available	Not Available
EF		
GHJ		
KL		

FEATURES AND BENEFITS

Fast, Flexible and Accurate Wilson HP™ Special Tooling

In addition to the unique Wilson HP holder technology that allows fast, "click-and-turn" in-machine adjustment, Wilson HP Special Tooling offers:

- Positive, push-button adjustment in .002" (0.05mm) increments for improved accuracy without the use of shims, without tools and without removal from the machine
- Larger maximum "A" dimension than other forming punches which allows larger-sized forming tools to be used in the XB-L stations of Murata Wiedemann punch presses for faster, easier and more efficient punching
- The shortest lead-times and fastest deliveries in the industry
- An extensive selection of Special Forming Tools including:
  - Embosses
  - Extrusions
  - Half Shears
  - EKOs
  - Coining Tools
  - Lance and Forms
  - Progressive Ribs
  - Louvers
  - Bridges
  - Letter Stamps
  - Hinges
  - Thread Forms
  - Card Guides



For a special forming tool that is not on this list, contact our Sales Desk.

Local
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Fax: 651-286-5959

Toll Free U.S.A. & Canada
Tel: 800-328-9646
Fax: 800-222-0002

Toll Free Mexico
Tel: 001-800-741-2510
Fax: 001-800-544-2096

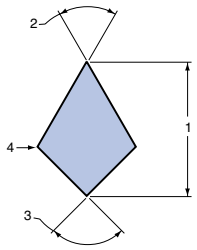
Website & Email
www.wilsontool.com
salesdesk@wilsontool.com

WILSON TOOL

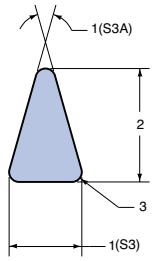
SPECIAL SHAPES

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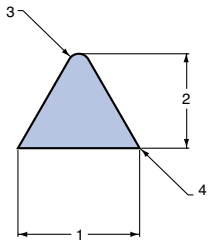
Note: Special Considerations May Alter Price and Lead Time



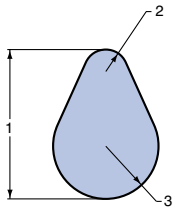
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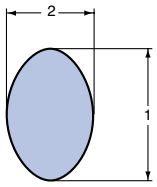
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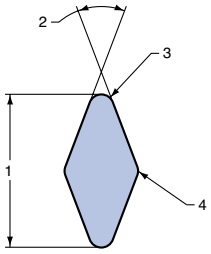
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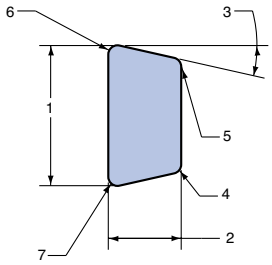
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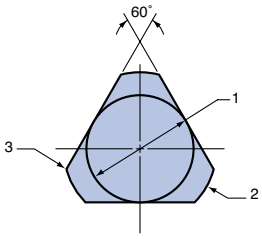
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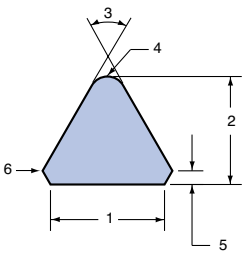
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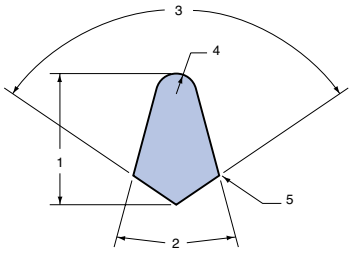
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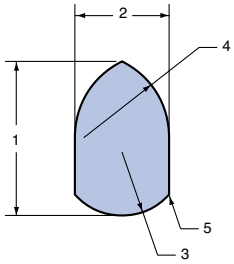
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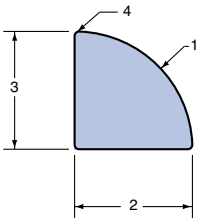
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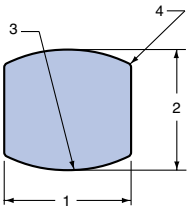
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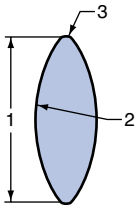
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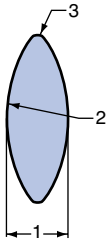
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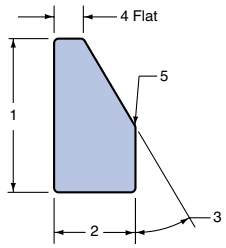


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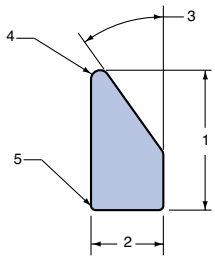


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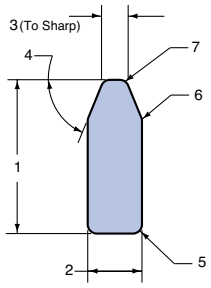
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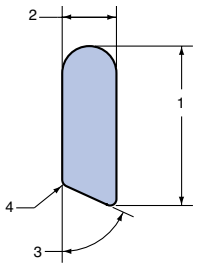
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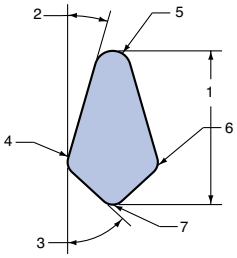
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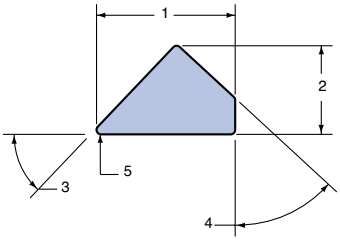
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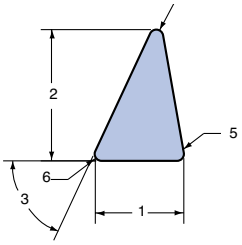
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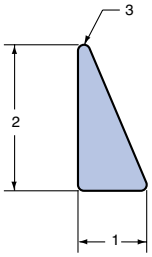
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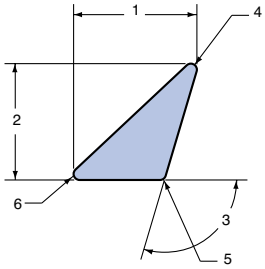
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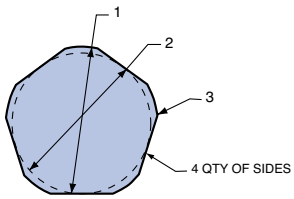
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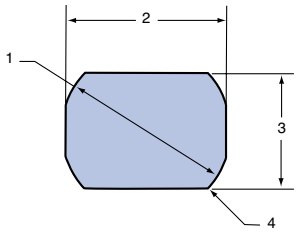
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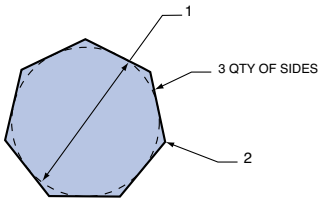
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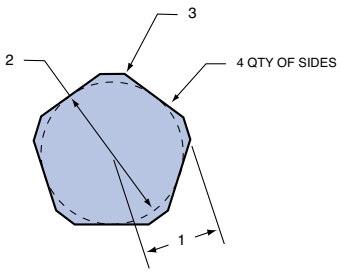
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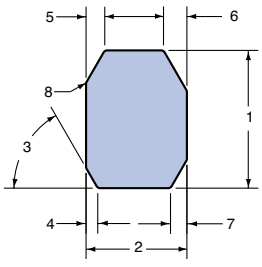
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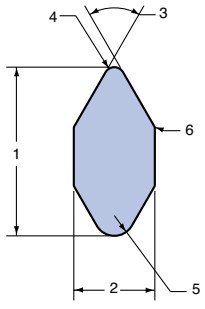
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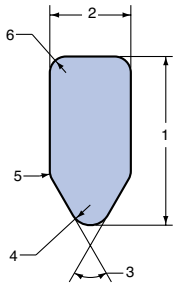
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S161



S162



S163

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Fax: 651-286-5959

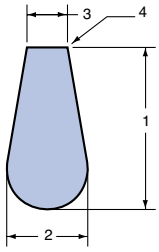
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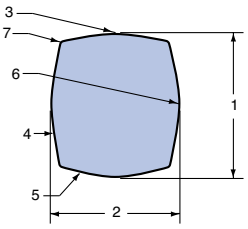
Website & Email
www.wilsontool.com
salesdesk@wilsontool.com

SPECIAL SHAPES

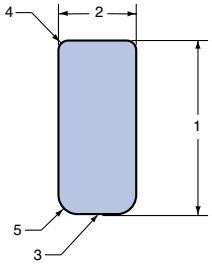
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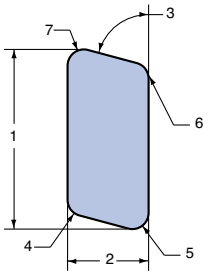
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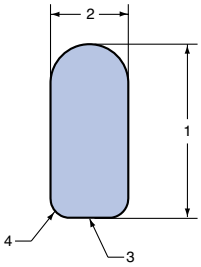
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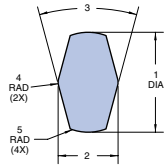
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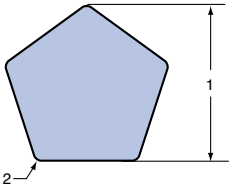
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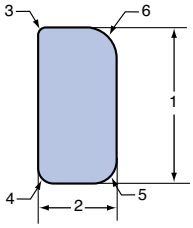
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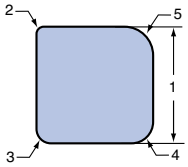
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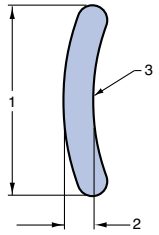


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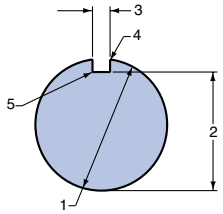


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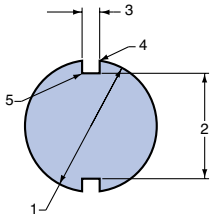
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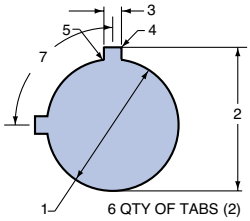
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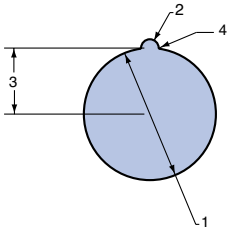
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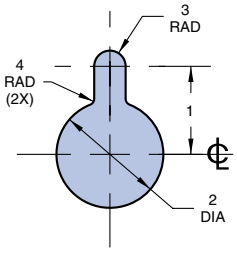
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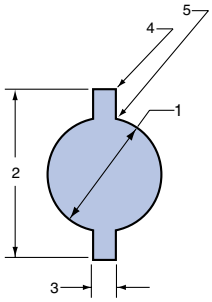
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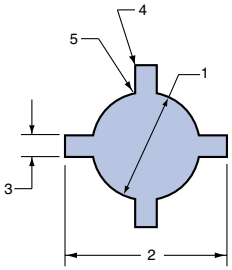
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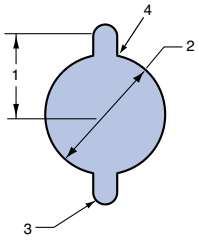
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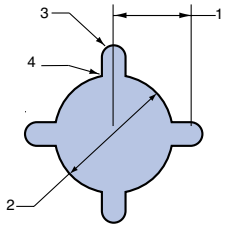
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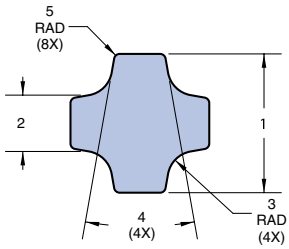
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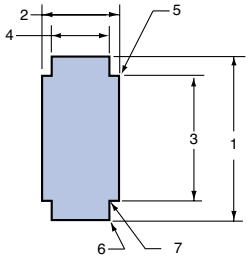
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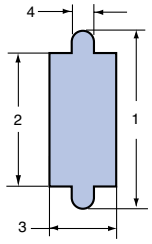
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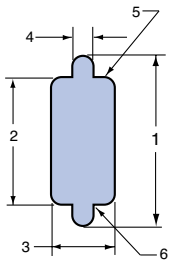
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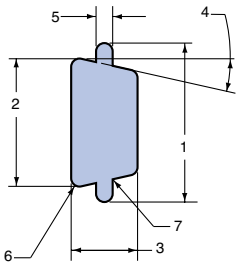
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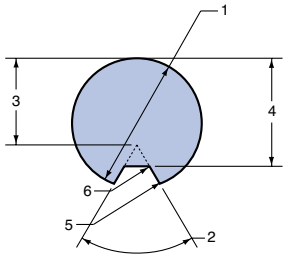
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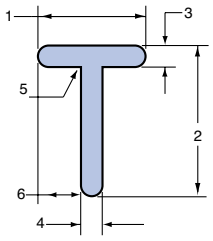
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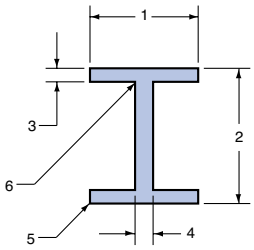
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SPECIAL SHAPES

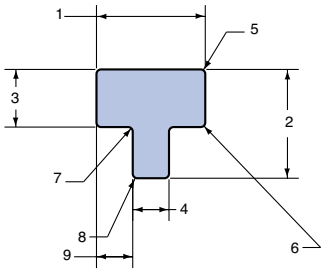
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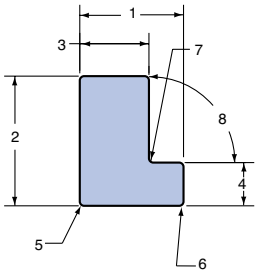
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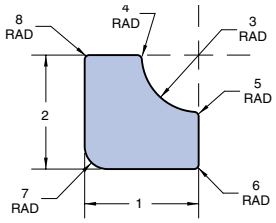
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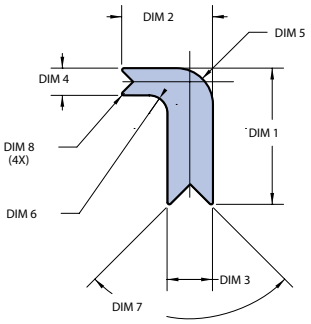
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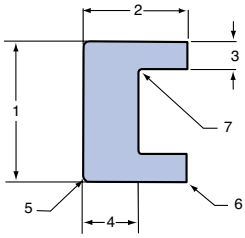
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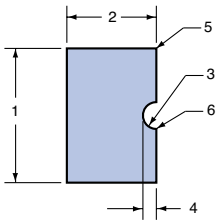
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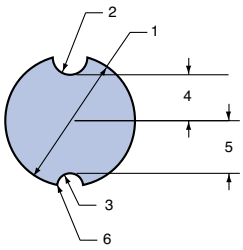
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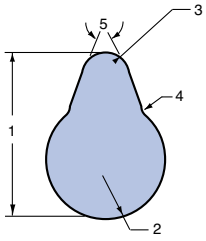
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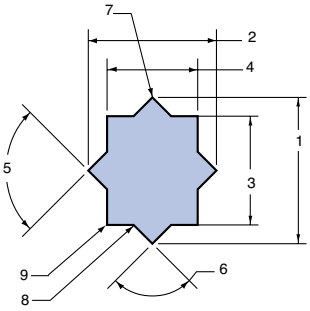
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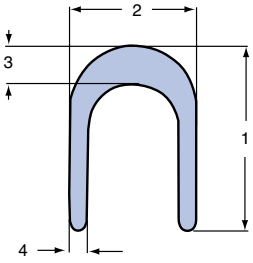
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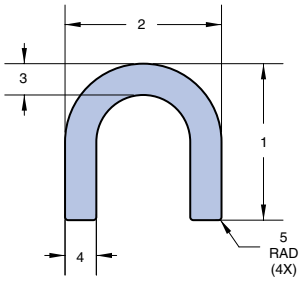
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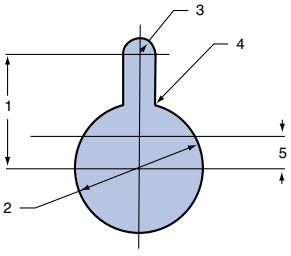
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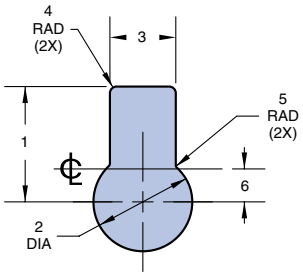
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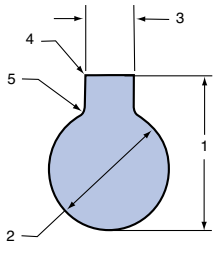
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S56

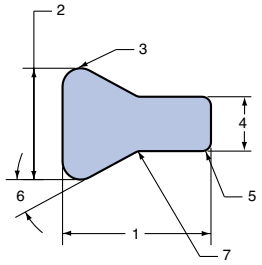


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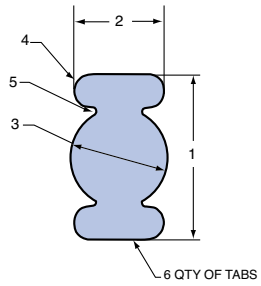


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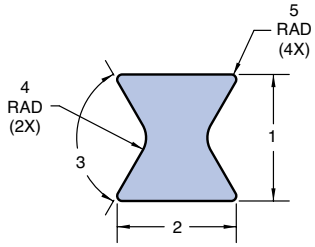
GROUP "B"



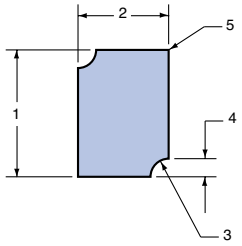
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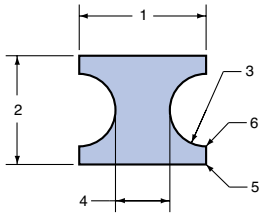
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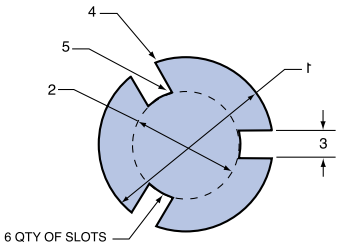
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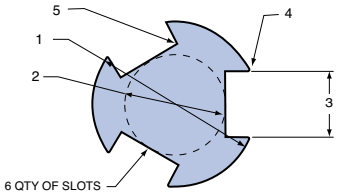
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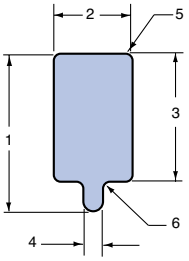
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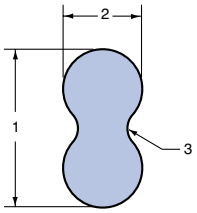
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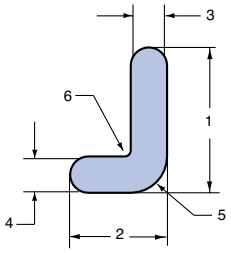
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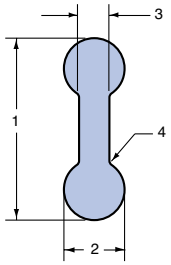
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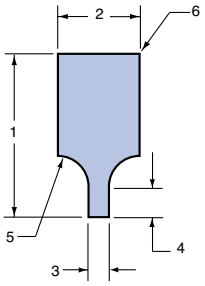
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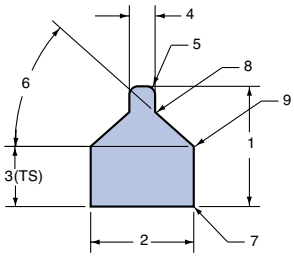
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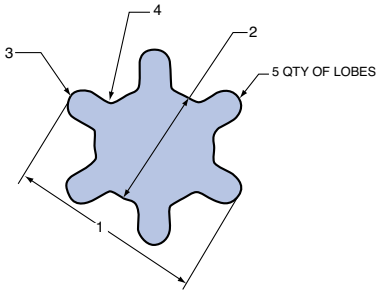
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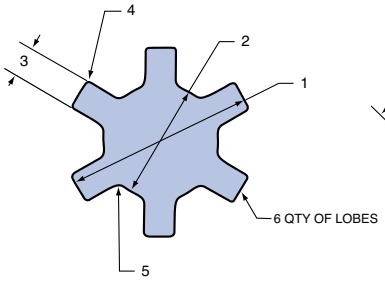
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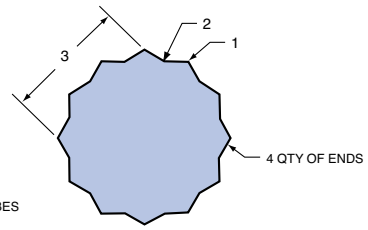
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S115



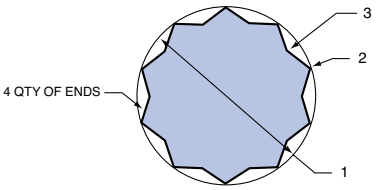
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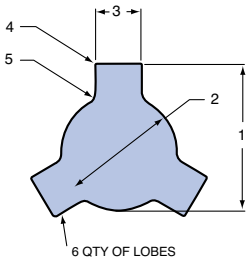
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SPECIAL SHAPES

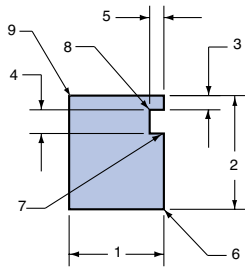
GROUP "B"



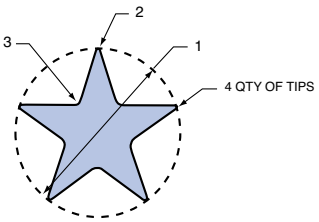
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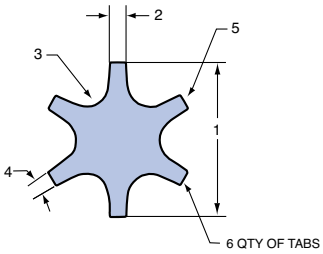
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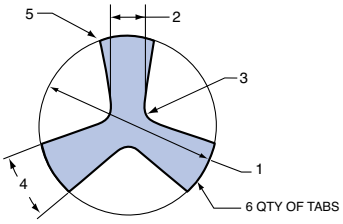
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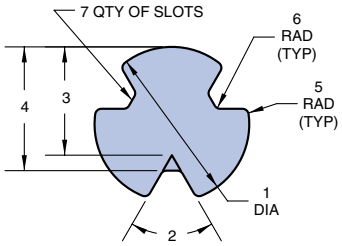
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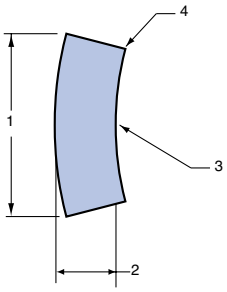
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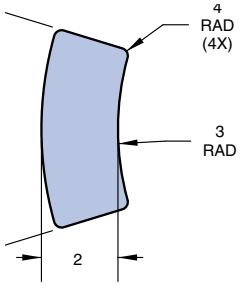
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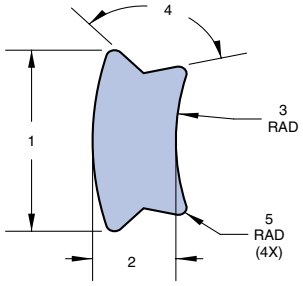
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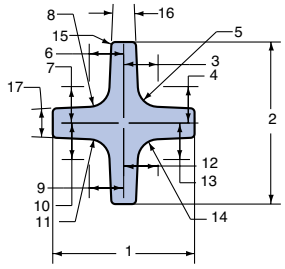
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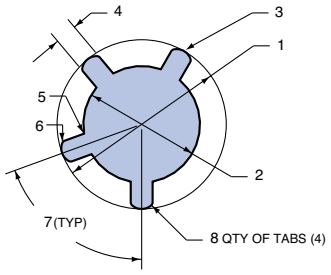
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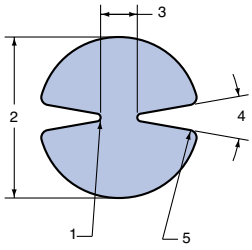
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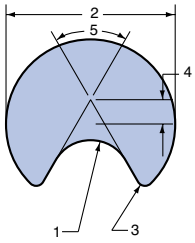
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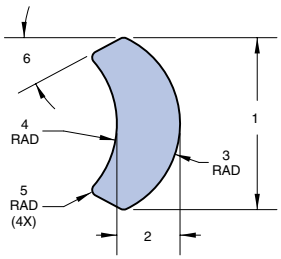
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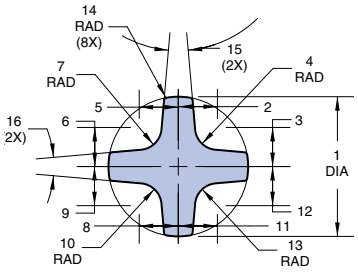
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S172

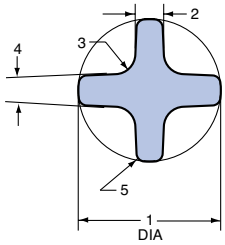


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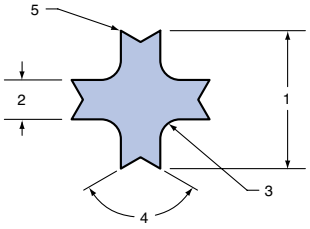


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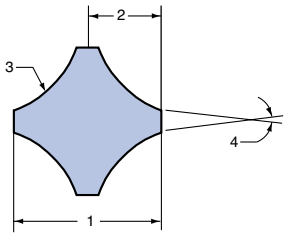
GROUP "B"



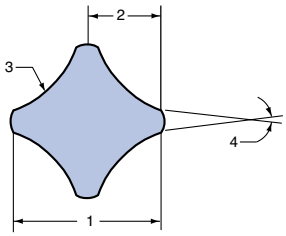
S177



S179

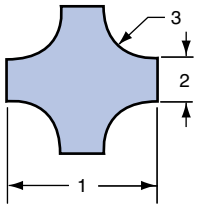


S19A



S19B

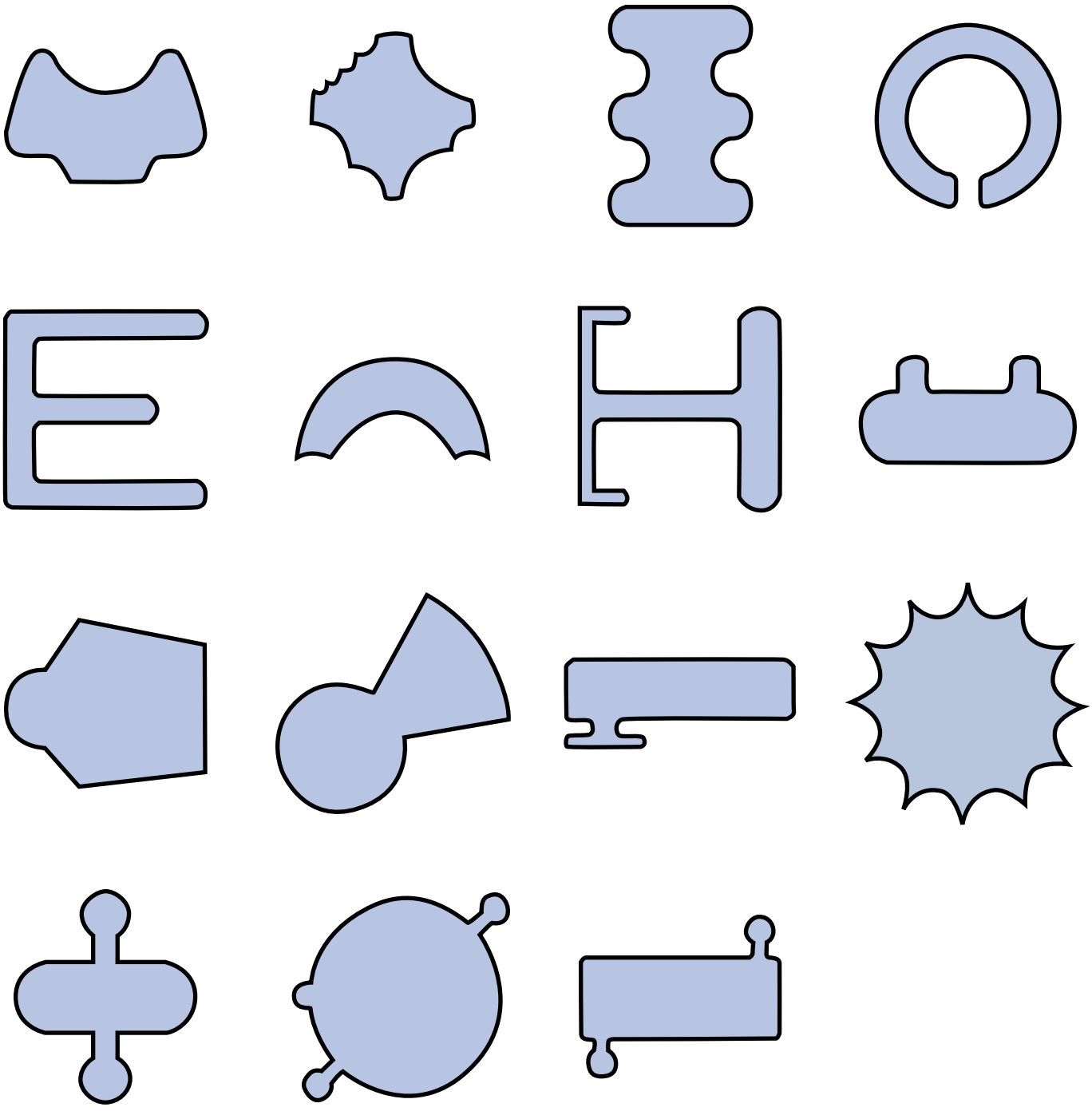
4-Way Radius Tools - Standard Sizes



RADIUS	DIM. 1	DIM. 2	DIM. 3
.062 (1.58mm)	.500 (12.70mm)	.250 (6.35mm)	.062 (1.58mm)
.094 (2.39mm)	.625 (15.88mm)	.250 (6.35mm)	.094 (2.39mm)
.125 (3.18mm)	.625 (15.88mm)	.250 (6.35mm)	.125 (3.18mm)
.156 (3.96mm)	.750 (19.05mm)	.250 (6.35mm)	.156 (3.96mm)
.188 (4.78mm)	.750 (19.05mm)	.250 (6.35mm)	.188 (4.78mm)
.250 (6.35mm)	.875 (22.23mm)	.250 (6.35mm)	.250 (6.35mm)
.312 (7.93mm)	1.000 (25.40mm)	.250 (6.35mm)	.312 (7.93mm)
.375 (9.53mm)	1.125 (28.58mm)	.250 (6.35mm)	.375 (9.53mm)
.500 (12.7mm)	1.250 (31.75mm)	.250 (6.35mm)	.500 (12.7mm)

SPECIAL SHAPES

GROUP "C"



WILSON TOOL

Local
Tel: 651-286-6001
Fax: 651-286-5959

Toll Free U.S.A. & Canada
Tel: 800-328-9646
Fax: 800-222-0002

Toll Free Mexico
Tel: 001-800-741-2510
Fax: 001-800-544-2096

Website & Email
www.wilsontool.com
salesdesk@wilsontool.com

FOR F (I/T) STATION ONLY



Punch & Die Adapter Set
CAT. NO. 21064 PRICE $827.50
(wheel tools not included)

Wheel tools shown with punch and die adapter set

Wilson Wheel® Rolling Rib
DESCRIPTION
Punch & Die Assembly for .093" (2.4mm) radius
Punch & Die Assembly for .125" (3.2mm) radius
Punch & Die Assembly for greater than .125" (3.2mm) radius
Replacement Wheel Assemblies
Pocket Wheel Assembly for .093" (2.4mm) radius
Forming Wheel Assembly for .093" (2.4mm) radius
Pocket Wheel Assembly for .125" (3.2mm) radius
Forming Wheel Assembly for .125" (3.2mm) radius
Pocket Wheel Assembly for greater than .125" (3.2mm) radius
Forming Wheel Assembly for greater than .125" (3.2mm) radius

Wilson Wheel® Rolling Offset
DESCRIPTION
Punch & Die Assembly for .062" (1.5mm) max offset
Punch & Die Assembly for .125" (3.2mm) max offset
Punch & Die Assembly for .187" (4.8mm) max offset
Replacement Wheel Assemblies
Upper Wheel Assembly for .062" (1.5mm) max offset
Lower Wheel Assembly for .062" (1.5mm) max offset
Upper Wheel Assembly for .125" (3.2mm) max offset
Lower Wheel Assembly for .125" (3.2mm) max offset
Upper Wheel Assembly for .187" (4.8mm) max offset
Lower Wheel Assembly for .187" (4.8mm) max offset

Wilson Wheel® Rolling Pincher
DESCRIPTION
Punch & Die Assembly
Replacement Wheel Assemblies
Upper Wheel Assembly
Lower Wheel Assembly

Wilson Wheel® Rolling Shear
DESCRIPTION
Punch & Die Assembly for .064" (1.6mm) max material
Punch & Die Assembly for greater than .064" (1.6mm) material
Replacement Wheel Assemblies
Wheel Assembly for .064" (1.6mm) max material
Wheel Assembly for greater than .064" (1.6mm) material

ACCESSORIES



Metric Hex Key Wrench Set
CAT. NO. 06105



SAE Hex Key Wrench Set
CAT. NO. 06057



Soft Face Hammer
CAT. NO. 06106



Oil Stone
CAT. NO. 06060

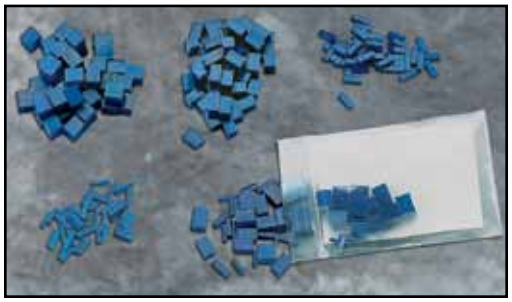


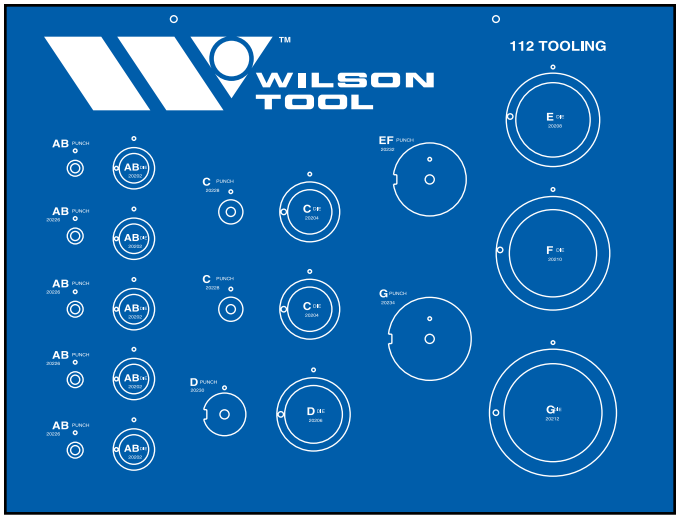
Diamond File
CAT. NO. 06059



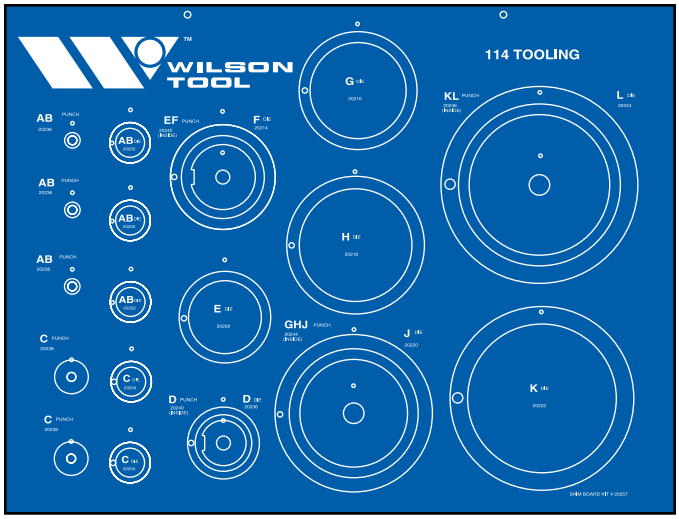
Sure Shot Sprayer
1-QT (.95 liter) capacity
CAT. NO. 06120

Slug Ejectors			
Square Urethane			
HOLE DIA. IN PUNCH	QTY.	CAT. NO.	PRICE
1/8" (3.2mm)	50	06116	
3/16" (4.8mm)	50	06117	
3/8" (9.5mm)	50	06118	
1/2" (12.7mm)	50	06119	
Assortment	50	06410	





Shim board and hook package for 112 Style Tooling*
CAT. NO. 20256



Shim board and hook package for 114 Style Tooling*
CAT. NO.20257

*Shims not included

TERMS OF SALE

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Minimum order is $50.00.

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All orders are subject to approval by our Credit Department. If you are a new account, please furnish us with your tax exempt status, a bank reference, three current supplier references and/or your current D&B rating with your first order. A credit limit will be imposed on new accounts until credit has been established.

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In the event an order is cancelled, an additional charge will be assessed to cover the cost of labor and material.

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All claims or product shortages must be made within 30 days of the invoice date.

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