



Standards, Specials and Accessories





Time-tested. In 2011, Wilson Tool introduced the industry's first quick-change punch tip technology, making EXP the proven choice for your tooling needs. Since then, thousands of satisfied users have converted to EXP technology and continue to reap the savings and benefits of this efficient technology.

Faster Tool Changes. Loading EXP is as easy as inserting the punch tip into the punch holder, then turning the key to lock it in place. Switching from one punch to the next can be done in seconds, significantly reducing downtime.

Longer-lasting Punches. Every EXP punch is manufactured with Wilson's exclusive Ultima® premium tool steel to increase wear resistance. As a result, EXP punches have twice the tool life as most standard punches. With up to twice as long between regrinds, EXP punches made with Ultima tool steel substantially reduce downtime and tool replacement costs.

Storage Savings. A fraction of the size of standard punches, EXP punches give you the flexibility to stock more shapes, using less space for storage.

Universal Design. EXP punches offer greater flexibility because they fit into multiple styles of tooling, allowing you to enjoy the ease, speed and durability of EXP for all your punch tooling needs. EXP fits the following tool styles:



When you consider the lower punch price combined with faster setup, increased life between sharpening, and greater versatility, EXP clearly offers the lowest cost of ownership of any punch on the market today.

FAB STYLE

6

6	HPX®	1-1/4	'Station
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- 7 HP2 1-1/4" Station
- 8 HP 1-1/4" Station
- 9 HP 1-1/4" Station Heavy Duty
- 10 Basix 1-1/4" Station
- 11 Drop In 5/8" Station
- 12 Snap Apart 1/2" Station
- 13 Drop In 1/2" Station
- 14 Center Punch
- 16 HP 2" Station
- 18 HP 3-1/2" Station
- 20 HP Dura-Blade®
- 22 HP Notcher Stripper Plate

COATINGS

15

SPECIALS

23

- 24 Coining Tools
- 25 Card Guide
- 26 Emboss
- 27 Extrusion
- 28 Hinge Tool
- 29 Progressive Rib
- 30 Rollover Tool
- 31 Bridge Lance and Form
- 32 EKOs
- 33 Half Shear | Rooftop Half Shear
- 34 Scratch Tool
- 35 Lance and Forms
- 36 Louvers
- 37 Progressive Louvers
- 38 Thread Form
- 39 Thread Loop
- 40 Cluster Tool
- 41 Letter Stamp
- 42 Wilson Multi-Scribe®
- 43 Stamping
- 44 Zip-Tech
- 45 Wilson Wheel® Family
- 46 Light Spring Unit
- 47 E-Z Set Punch Head
- 49 Special Shapes
- 55 4-Way Radius Tools | Inverted Diamond

SLUG PULLING

48



ACCESSORIES

56

- 56 Hand Tools
- 58 Measurement Equipment
- 59 Alignment Tools
- 59 Ball Riding / Brush Die
- 59 Adapters
- 60 Tool Storage
- 60 Shear Grinding Fixture
- 61 XSharp[™] Grinder
- 62 Tool Maintenance
- 62 Lubricants
- 63 Die Shims
- 63 Slug Ejectors
- 63 Turret Bushings

REFERENCE

64

- 64 Shear Options
- 65 Standard Shapes & Keying Locations
- 66 Non-Standard Keying
- 66 Die Clearance
- 67 Non-Standard Add-Ons

Prices and product availability are subject to change without notice.

THE WILSON TOOL DIFFERENCE



COMPANY OVERVIEW

From very humble beginnings in a small manufacturing facility in St. Paul, Minnesota, Wilson Tool has added manufacturing facilities and sales channels around the world to better serve our thousands of global customers. Throughout our International expansion, our mission has never wavered — we continue to offer products and services that help you be more successful. Every product you buy, every employee with whom you communicate, and every training event you attend, are designed to help customers just like you be more successful.

The products included in this catalog represent the results of over 50 years of helping customers resolve their most challenging fabrication issues. Don't be concerned if the challenge you are currently facing can't be resolved with a product included in this catalog — give us a call and let us put our many decades of expertise to the test. We will work with you to find the best possible solution to whatever challenge you may be facing.

And, as always, if you are not happy with the final solution we provide, we will either find a way to help you succeed or we will refund your money.

From all of us at Wilson Tool International, thank you for the trust you have placed in us to provide you with products and services that support your business. We look forward to the continuation of our partnership into the future.

Sincerely,
Brian Robinson
CEO of Wilson Tool Enterprises

PUNCHING

Wilson Tool's Punching division continues to drive the industry with new levels of quality, delivery, service and innovation.

From the early days of Series 80 tooling to Wilson Wheels to innovative EXP® technology, our punching division has been the industry-leading innovation driver. When combined with the most experienced customer support professionals in the industry, Wilson Tool continues to raise the bar on performance and innovation. Thick turret, Trumpf, Salvagnini, or any other style of punch press you may be using, Wilson Tool offers the most complete line of tooling solutions available today.





BENDING

Wilson Tool's Bending division delivers the most complete line of tooling and clamping solutions available anywhere. Period.

Whether you use American, European, or Wila/Trumpf style precision tooling or conventional style tooling, Wilson Tool has a solution for you. Our clamping options cover these styles as well. With hydraulic push button options, quick release mechanical options, or standard manual clamps, Wilson Tool has a clamping solution for any style of machine or budget. And our custom tooling manufacturing capabilities have quickly become the envy of the industry with innovative solutions for very complex bending challenges. With manufacturing facilities located in the USA and Canada, our delivery times to North American fabricators are the fastest in the industry.

STAMPING

Wilson Tool's Stamping division (aka Impax Tooling Solutions®) offers high quality punch and die components for the stamping industry.

Innovative products such as our HP Accu-Lock® retainer inserts and extensive coating options, combined with our world-class customer service, have enabled us to quickly grow into a world-class provider. With a direct sales force throughout North America, we deliver products straight from the factory to you, enabling the fastest deliveries in the industry. Our custom tooling expertise is second to none with many customers coming to us for their most difficult stamping challenges.



TABLETING

Wilson Tool's Tableting division delivers standard and custom tooling for superior production capability by utilizing the latest innovations in tableting science.

Wilson Tool's punches and dies for the pharmaceutical, nutraceutical, confectionery and related industries provide the best value tooling per application. We collaborate with you to create the punch and die most suited to meet the specific needs of your tableting application.



ACCESSORIES

Whether you need tooling storage systems, urethane rolls, hand tools or other types of related supplies, our accessory products offer a wide range of solutions to help you be more productive, organized and efficient.









PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
Round	10661	
Shape	10660	
Optima® Coating		
EXP PUNCH HOLDER	CAT. NO.	PRICE
EXP® Punch Holder only	10627	
SPRING PACK ASSEMBLY	CAT. NO.	PRICE
Spring Pack Assembly only	10659	
PUNCH	CAT. NO.	PRICE
EXP® Round	13916	
EXP® Shape	13917	
Optima® Coating		
GUIDE	CAT. NO.	PRICE
Round	158	
Shape	159	
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	454	
Round Standard	133	
Shape Slug Hugger® 2*	10373	
Shape Positive	162	
Shape Negative	244	
* Slug Hugger dies must be ordered pund Size restrictions apply.	ch size plus clea	irance.

DIE SHIM	CAT. NO.	PRICE
010 [0.25mm] single	2097	
.030 [0.76mm] single	2723	
.060 [1.5mm] single	2100	
010 [0.25mm] pack of 25	2209	
.030 [0.76mm] pack of 25	2724	
.060 [1.5mm] pack of 25	2173	
Additional charges may apply to non-star	ndard features.	See page 67.

REPLACEMENT PARTS	CAT. NO.	
O-Ring	466	
Key	10639	
Punch Pin	24097	

























CAT. NO.	PRICE
10662	
10663	
CAT. NO.	PRICE
10649	
CAT. NO.	PRICE
10457	
161	
CAT. NO.	PRICE
158	
159	
159 CAT. NO.	PRICE
	PRICE
CAT. NO.	PRICE
CAT. NO. 454	PRICE
CAT. NO. 454 133	PRICE
CAT. NO. 454 133 10373 162 244	
CAT. NO. 454 133 10373 162	
CAT. NO. 454 133 10373 162 244 ch size plus clea	irance.
CAT. NO. 454 133 10373 162 244	
CAT. NO. 454 133 10373 162 244 ch size plus clea	irance.
CAT. NO. 454 133 10373 162 244 th size plus clea	irance.
CAT. NO. 454 133 10373 162 244 ch size plus clea CAT. NO. 2097	irance.
	10662 10663 CAT. NO. 10649 CAT. NO. 10457 161 CAT. NO.

.060 [1.5mm] pack of 25	2173			
Additional charges may apply to non-standard features. See page 67				
REPLACEMENT PARTS CAT. NO.				
O-Ring	466			
Dowel Pin	6015			

2724



.030 [0.76mm] pack of 25





NOTES

** HP2 assembly requires a pinned round punch. This is the replacement punch for Quick Adjust Assemblies.





















.060 [1.5mm]

.060 [1.5mm]

single

pack of 25

Additional charges may apply to non-standard features. See page 67.

010 [0.25mm] pack of 25

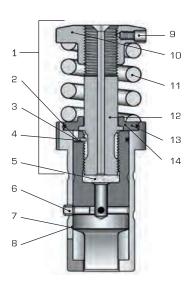
.030 [0.76mm] pack of 25











REP	LACEMENT PARTS	CAT. NO.
1	Driver Assembly	10156
2	Retaining Ring (Ball-lock design)	2803
3	Index Pin	6874
4	Ring Clip	10044
5	Felt Filter	10155
6	Dowel Pin (3/16 x .595) (Replacement Round Only)	6015
7	Guide - Round	10144
8	Guide - Shape/Fitted	10139
9	Socket Head Set Screw (Cone Pt M58 x 8mm)	6268
10	Adj. Punch Head	145
11	Spring	125
12	Driver	10141
13	O-Ring	6562
14	Spring Support with O-Ring	10142

2100

2209

2724

2173

















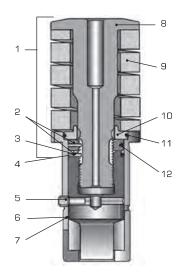






PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
Round	10039	
Shape	10040	
Optima® Coating		
PUNCH	CAT. NO.	PRICE
Round	10046	
Shape	10045	· · ·
Optima® Coating		
GUIDE		
Round	10027	: :
Shape	10020	DDICE
DIE	CAT. NO.	PRICE
Round Slug Hugger®* Round Standard	454 133	
Shape Slug Hugger® 2*	10373	· •
Shape Positive	162	: :
Shape Negative	244	· ·
* Slug Hugger dies must be ordered pun Size restrictions apply.	ch size plus clea	irance.
DIE SHIM	CAT. NO.	PRICE
010 [0.25mm] single	2097	
.030 [0.76mm] single	2723	
.060 [1.5mm] single	2100	
010 [0.25mm] pack of 25	2209	
.030 [0.76mm] pack of 25	2724	
.060 [1.5mm] pack of 25	2173	
Additional charges may apply to non-sta	ndard features.	See page 67.

REPLACEMENT PARTS		CAT. NO.
1	Driver Assembly	10055
2	Ring Clip	10044
3	Retaining Ring (ball-lock design)	2803
4	Index Pin	6874
5	Dowel Pin (Replacement Round Only)	6015
6	Guide Round	10027
7	Guide - Shape/Fitted	10020
8	Driver	10042
9	Spring	30
10	Spring Support with O-Ring	10047
11	O-Ring	10035
12	Threaded Spring Retainer with Ring Clip	10043
13	Dowel Pin (3/16 x .345)	6431







MAX. MATERIAL THICKNESS	NOTES
.375" [9.5mm]	HP Heavy Duty: Spherical concave shear & Optima® standard on 1" [25.4mm], 25mm, and 1.250" [31.75mm] diameters.
<u> </u>	Full size (1-1/4" body) : Urethane spring assemblies available upon request.













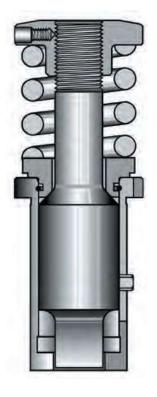






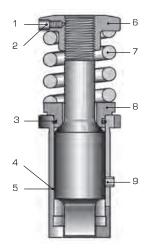








PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
Round	149	
Shape	164	
Optima® Coating		
PUNCH	CAT. NO.	PRICE
Round	148	
Shape	161	
Optima® Coating		
GUIDE	CAT. NO.	PRICE
Round	147	
Shape	159	
PUNCH SHIM	CAT. NO.	PRICE
1-1/4" Single	152	
1-1/4" Pack of 25	98	
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	454	
Round Standard	133	
Shape Slug Hugger® 2*	10373 162	
Shape Positive Shape Negative	10Z 244	
* Slug Hugger dies must be ordered pund		rance
Size restrictions apply.	iri size pius cica	ii ai icc.
DIE SHIM	CAT. NO.	PRICE
010 [0.25mm] single	2097	
.030 [0.76mm] single	2723	
.060 [1.5mm] single	2100	
010 [0.25mm] pack of 25	2209	
.030 [0.76mm] pack of 25	2724	
.060 [1.5mm] pack of 25	2173	
Additional charges may apply to non-star	ndard features.	See page 67.



RE	PLACEMENT PARTS	CAT. NO.
1	Socket Head Set Screw (Cone Pt M58 x 8mm)	6268
2	Socket Head Set Screw (Cone Pt 10-32 x 1/4)	6072
3	O-Ring	466
4	Guide - Round	147
5	Guide - Shape/Fitted	159
6	Adj. Punch Head	145
7	Spring	125
8	Guide Collar with O-Ring	146
9	Dowel Pin (3/16 x .595) (Replacement Round Only)	6015



















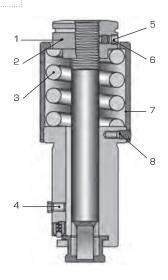




GUIDE ASSEMBLY	CAT. NO.	PRICE
Guide Assembly w/.625		
[15.88mm] dia. Closed Round	476	
Stripper Plate PUNCH	CAT. NO.	PRICE
Round	445	PRICE
Shape	445	
Optima® Coating	440	
STRIPPER	CAT. NO.	PRICE
Round	478	FRICE
Shape		
(Odd angle shape at required)	479	
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	454	
Round Standard	133	
Shape Slug Hugger® 2*	10373	
Shape Positive	162	
Shape Negative	244	
* Slug Hugger dies must be order	ed punch size p	lus
clearance. Size restrictions apply		DDICE
FIT TO STRIPPIT HOLDER	CAT. NO.	PRICE
Punch Head - New Style for Wilson and Strippit	475	
Punch Head - Old Style	444	
Stripper - Round	474	
Stripper - Shape	474	
(Odd angle shape at required)	473	
DIE SHIM	CAT. NO.	PRICE
010 [0.25mm] single	2097	
.030 [0.76mm] single	2723	
.060 [1.5mm] single	2100	
010 [0.25mm] pack of 25	2209	
.030 [0.76mm] pack of 25	2724	
.060 [1.5mm] pack of 25	2173	
Additional charges may apply to r	on-standard fe	atures.
See page 67.		

96	96

REPL	ACEMENT PARTS	CAT. NO
1	Adj. Punch Head	475
2	Adj. Punch Head -Old Style (not shown)	444
3	Spring	125
4	Dowel Pin (3/16 x .375) (Replacement Round only)	2150
5	Socket Head Set Screw (Cone Pt M58 x 8mm)	6268
6	Socket Head Set Screw (Cone Pt 10-32 x 1/4)	6072
7	Spring Canister	453
8	Socket Set Screw (M5 x 8mm)	6372















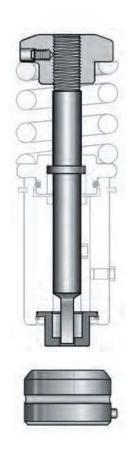






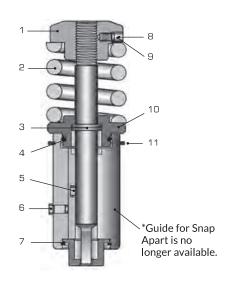






PUNCH	CAT. NO.	PRICE
Round	195	
Shape	333	
Optima® Coating		
STRIPPER	CAT. NO.	PRICE
Round	478	
Shape (Odd angle shape at required)	337	
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	454	
Round Standard	133	
Shape Slug Hugger® 2*	10373	
Shape Positive	162	
Shape Negative	244	
* Slug Hugger dies must be orde clearance. Size restrictions appl		plus
DIE SHIM	CAT. NO.	PRICE
010 [0.25mm] single	2097	
.030 [0.76mm] single	2723	
.060 [1.5mm] single	2100	
010 [0.25mm] pack of 25	2209	
.030 [0.76mm] pack of 25	2724	
.060 [1.5mm] pack of 25	2173	
Additional charges may apply to See page 67.	non-standard f	eatures.

Replacement punch, dies and strippers only.



REP	LACEMENT PARTS	CAT. NO.
1	Adj Punch Head	101
2	Spring	125
3	Retaining Ring	107
4	O-Ring	109
5	Dowel Pin (3/16 x .500) (Replacement Round only)	2131
6	Dowel Pin (3/16 x .375) (Replacement Round only)	2150
7	Retaining Ring	108
8	Socket Head Set Screw (Cone Pt M58 x 8mm)	6268
9	Socket Head Set Screw (Cone Pt 10-32 x 1/4)	6072
10	Spring Support With 0-Ring	103
11	Support Ring	362















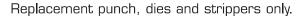




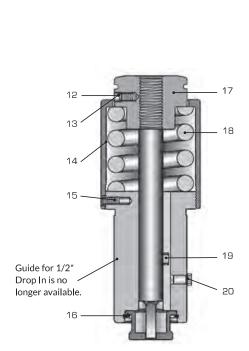




PUNCH	CAT. NO.	PRICE
Round	451	
Shape	450	
Optima® Coating		
STRIPPER	CAT. NO.	PRICE
Round	478	
Shape	337	
(Odd angle shape at required)		
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	454	
Round Standard	133	
Shape Slug Hugger® 2*	10373	
Shape Positive	162	
Shape Negative	244	
* Slug Hugger dies must be order clearance. Size restrictions apply		plus
FIT TO STRIPPIT HOLDER	CAT. NO.	PRICE
Punch Head - New Style for	CAI. NO.	FRICE
Wilson and Strippit	448	
Stripper - Round	474	
Stripper - Shape		
(Odd angle shape at required)	473	
DIE SHIM	CAT. NO.	PRICE
010 [0.25mm] single	2097	
.030 [0.76mm] single	2723	
.060 [1.5mm] single	2100	
010 [0.25mm] pack of 25	2209	
.030 [0.76mm] pack of 25	2724	
.060 [1.5mm] pack of 25	2173	
Additional charges may apply to See page 67.	non-standard f	eatures.



REP	LACEMENT PARTS	CAT. NO.
12	Socket Head Set Screw (Cone Pt M58 x 8mm)	6268
13	Socket Head Set Screw (Cone Pt 10-32 x 1/4)	6072
14	Spring Canister (Cone Pt 10-32 x 1/4)	453
15	Socket Set Screw (M5 x 8mm)	6372
16	Retaining Ring	108
17	Adj. Punch Head	448
18	Spring	125
19	Dowel Pin (3/16 x .500) (Replacement Round only)	2131
20	Dowel Pin (3/16 x .375) (Replacement Round only)	2150





























FORM DOWN

FORM UP

FORM DOWN	CAT. NO.	PRICE
Complete Form Down Assembly - die included	10677	
Replacement Center Punch Tip	400	
5/8" Replacement Punch Body	10666	
Blank Die	498	
Light Spring Kit	10668	
FORM UP	CAT. NO.	PRICE
Complete Form Up Assembly - upper and lower	10214	
	10214 10214	
upper and lower	1021	

WILSON TOOL OFFERS UNIQUE COATINGS TO INCREASE THE LIFE OF YOUR PUNCHES



Wearbeater

Wilson Tool's exclusive Wearbeater coating is a titanium nitride (TiN) coating that helps reduce galling and extends punch life in certain applications.

Optima®

Developed by Wilson Tool engineers in our state-of-the-art coating facility, our revolutionary Optima coating provides significantly longer tool life, more hits between sharpenings, reduced galling, better performance and less downtime. With a surface hardness of 95 Rockwell C, Optima far exceeds the hardness levels that can be achieved with conventional tool steels. It resists galling in stainless and galvanized steel and is unaffected by sharpening. Optima coating will outlast untreated tools by as much as 5-7 times.



Nitrex®

Our exclusive Nitrex high endurance surface enhancement increases punch press tooling life by several times that of ordinary tooling. Wilson Tool's patented process provides a surface hardness of HRC-70, increasing long-term durability. Nitrex is also very effective in reducing punch wear and galling when piercing galvanized materials.



Slip-Max®

Available only from Wilson Tool, our Slip-Max coating has proven effective in some very tough punching and forming applications. The combination of its hardness and lubricity greatly increases punch life and reduces galling when piercing aluminum. Slip-Max is also very effective in resolving even the most challenging stripping problems with punching or forming stainless steel and aluminum.



COATING RECOMMENDATION BY APPLICATION	WEARBEATER	OPTIMA	NITREX	SLIP-MAX
Punch wear piercing varied materials		*		
Punch or die wear piercing stainless steel		*		
Punch wear piercing galvanized		_	*	
Punch or die wear piercing aluminum			A	*
Galling on punch in stainless steel		_		
Galling on punch in galvanized		_	*	
Galling on punch in aluminum			A	*
Stripping problems when forming in stainless steel			A	*
Stripping problems when forming in aluminum				*
Stripping problems when piercing in stainless steel		*		
Stripping problems when piercing in aluminum			_	*
● GOOD ▲ E	BETTER	★ BEST		







GUIDE ASSEMBLY	CAT. NO.	PRICE
Guide Assembly	10530	
PUNCH	CAT. NO.	PRICE
Round	10568	
Shape	10567	
Optima® Coating		
STIPPER	CAT. NO.	PRICE
Round	10534	
Shape	10535	
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	10545	
Round Standard	10544	
Shape Slug Hugger® 2*	10548	
Shape Positive	10546	
Shape Negative	10547	
* Slug Hugger dies must be ordered pund Size restrictions apply.	ch size plus clea	rance.

DIE SHIM	CAT. NO.	PRICE
010 [0.25mm] single	2089	
.030 [0.76mm] single	2092	
.060 [1.5mm] single	2725	
010 [0.25mm] pack of 5	2726	
.030 [0.76mm] pack of 5	2210	
.060 [1.5mm] pack of 5	2174	
Additional charges may apply to non-star	ndard features.	See page 67.

NOTES

HP Guide Assemblies are keyed for shapes at 0°, 45°, 90°, 180°, 225°, 270°.

All punches will be shipped with no shear unless specified.

Square dies are keyed for shpe at 0° and 45°, all other shaped dies are keyed for shape at 0° and 90°.















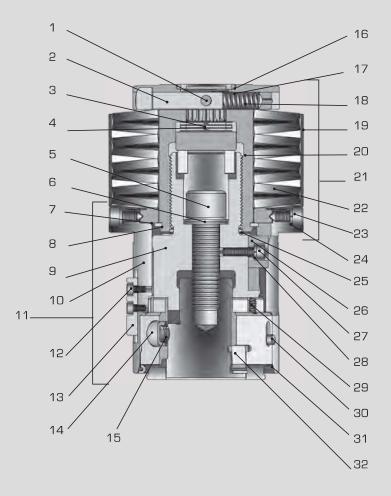








REPL	ACEMENT PARTS	CAT. NO.
1	Adj. Locking Ball	972420
2	Adj. Push Button	10539
3	Wave Spring	971692
4	Adj. Shaft	10576
5	Socket Head Cap Screw	971391
6	Disc Spring (2 required)	971690
7	Spring Support	5748
8	Retaining Ring	972571
9	Punch Holder	10541
10	Guide	10536
11	Guide Unit Assembly	10531
12	Socket Head Cap Screw (M3 x 6mm) (2 required)	972395
13	Guide Key	10445
14	Locking Button (2 required)	5519
15	Wave Spring (2 required)	8155
16	O-Ring	972430
17	Retaining Ring	972441
18	Spring	972396
19	Spring Cover	10537
20	Punch Driver	10578
21	Punch Driver Assembly	10574
22	Disc Spring (8 required)	10543
23	Socket Head Cap Screw (Spl M5 x .8 Cone Pt) (2 required)	5197
24	Lock Washer (2 required)	2112
25	Anti-Lock Shim	5412
26	Punch Holder Key	10448
27	Socket Head Cap Screw (M4 x 16mm)	970433
28	High Collar Lockwasher	2117
29	Spring (6 required)	971694
30	Special Pin (2 required)	5522
31	Guide Stripper Ring	10538
32	Stripper Clip (3 required)	5521









GUIDE ASSEMBLY	CAT. NO.	PRICE
Guide Assembly	10436	
PUNCH	CAT. NO.	PRICE
Round 1.250-1.562 [31.75-39.67] Dia.	181	
Round 1.563-2.500 [39.70-57.15] Dia.**	183	
Round 2.501-2.875 [57.17-73.03] Dia.**	184	
Round 2.876-3.500 [73.05-88.90] Dia.**	185	
Punch Retainer	182	
Shape 1.250-1.500 [31.75-38.10] Dia.	188	
Shape 1.501-2.500 [38.12-63.50] Dia.	189	
Shape 2.501-3.500 [63.52-88.90] Dia.	190	
Optima® Coating		
STRIPPER	CAT. NO.	PRICE
Round	186	
Shape	192	
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	459	
Round Standard	187	
Shape Slug Hugger® 2*	10381	
Shape Positive	212	
Shape Negative	251	
Shape Slug Hugger® 2* Heavy Duty	10382	
Shape Positive Heavy Duty	213	
Shape Negative Heavy Duty	252	
		i
* Slug Hugger dies must be ordered punch s		nce.
	size plus clearar	nce.

DIE SHIM	CAT. NO.	PRICE
010 [0.25mm] single	2081	
.030 [0.76mm] single	2727	
.060 [1.5mm] single	2084	
010 [0.25mm] pack of 5	2211	
.030 [0.76mm] pack of 5	2728	
.060 [1.5mm] pack of 5	2175	
Additional charges may apply to non-standar	rd features. Se	e page 67.

MAX A DIMENSION	NOTES
3.500" [88.9mm]	HP Guide Assemblies are keyed for shapes at 0°, 45°, 90°, 180°, 225°, 270°.
A	1/32" [.079mm] Rooftop shear is given to all punches with 'A' dimension greater than 2.000 [50.8] 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.
	Square dies are keyed for shpe at 0° and 45°, all other shaped dies are keyed for shape at 0° and 90°.
'A' dimension = longest distance across shape.	** Punch retainer required.















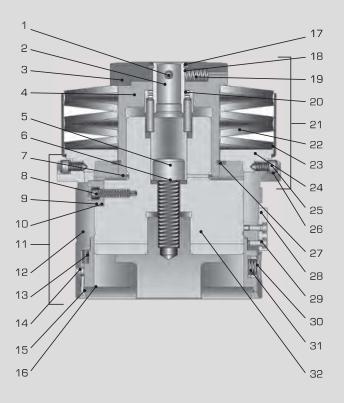


















GUIDE ASSEMBLY		CAT. NO.	PRICE
Guide Assembly		10516	
PUNCH		CAT. NO.	PRICE
Blade		10520	
Optima® Coating			
STRIPPER		CAT. NO.	PRICE
Shape		367	
DIE		CAT. NO.	PRICE
DIE Shape Slug Hugger® 2*		CAT. NO. 10381	PRICE
		÷	PRICE
Shape Slug Hugger® 2*		10381	PRICE
Shape Slug Hugger® 2* Shape Positive	Heavy Duty	10381 212	PRICE
Shape Slug Hugger® 2* Shape Positive Shape Negative	Heavy Duty Heavy Duty	10381 212 251	PRICE
Shape Slug Hugger® 2* Shape Positive Shape Negative Shape Slug Hugger® 2*		10381 212 251 10382	PRICE

 ^{*} Slug Hugger dies must be ordered punch size plus clearance.
 Size restrictions apply.

DIE SHIM	CAT. NO.	PRICE
010 [0.25mm] single	2081	
.030 [0.76mm] single	2727	
.060 [1.5mm] single	2084	
010 [0.25mm] pack of 5	2211	
.030 [0.76mm] pack of 5	2728	
.060 [1.5mm] pack of 5	2175	
Additional charges may apply to non-standa	rd features. Se	e page 67.

NOTES

HP Dura-Blade $^{\! 8}$ Guide Assemblies are keyed for shapes at 0°, 45°, 90°.

Maximum width for blade insert is .750 [19.05mm].

Maximum 'A' dimension = 3.500".

'A' dimension = longest distance across shape.















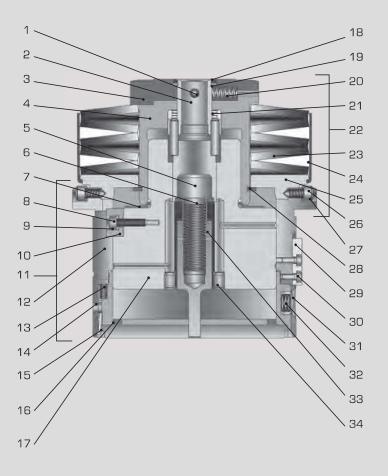










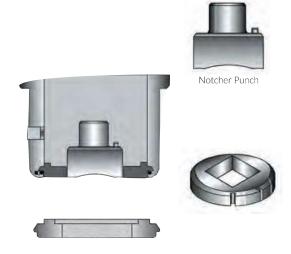




3-1/2" Station Notcher

(For Series 80° Plus and Series 90°, and HP Guide Assemblies)

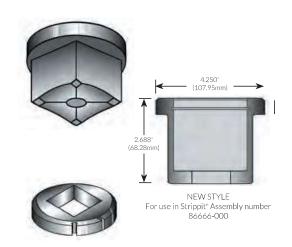
PUNCH	CAT. NO.	PRICE
2" [50.8mm] or 50mm square	449	
STRIPPER PLATE	CAT. NO.	PRICE
Notcher Stripper Plate	367	
DIE	CAT. NO.	PRICE
Shape Slug Hugger® 2*	10381	
Shape Positive	212	
Shape Negative 251		
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.		
Square dies are keyed for shape at 0° and 45.		
Optima® standard on all Notcher punches.		
Includes 1/16" [1.6mm] dbl. concave shear.		



Universal Notcher Station

(For Strippit® Universal Notch Guide Assemblies)

PUNCH	CAT. NO.	PRICE
Round	238	
Standard Square 1.000" [25.4mm] 1.500" [38.10mm] 2.000" [50.80mm] 50mm square	215	
Non-standard Square	239	
STRIPPING GUIDE	CAT. NO.	PRICE
Round	278	
Shape	279	:
DIE	CAT. NO.	PRICE
Round Slug Hugger® 2*	10597	
Round Standard	187	
Shape Slug Hugger® 2*	10381	
Shape Positive	212	
Shape Negative	251	**************************************
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.		
Additional charges flat punch.		
All square dies are keyed for shape at 0° and 4).		
Optima® standard on all Universal Notel	ner punches.	





SPECIALS



Incorporating forming applications into your fabrication can add value to your processes while reducing cost by boosting efficiencies and eliminating secondary operations.

No matter how unique your requirement, Wilson Tool works with you to design and manufacture punch press tooling that meet the needs of your most demanding application. Our highly skilled engineers and toolmakers combine unmatched experience with specialized manufacturing systems to produce products that meet the challenges of your most demanding applications.

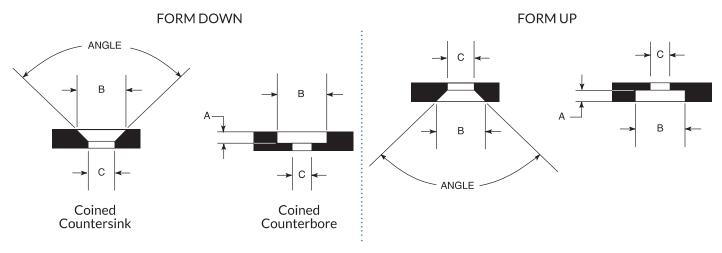
Wilson forming tools are manufactured with high grade materials to maximize tool life and machine up time. They are engineered with features like positive stopping to ensure you consistently get a form to your specifications on every hit. And when working with challenging material Wilson offers solutions like coatings to improve stripping and reduce sheet marking. Each special tool is tested using our in-house punch presses, and a sample is included with every forming special tool we ship. Wilson special tools are manufactured to our superior quality standards and tolerances and with the shortest lead times available.

YOU NEED BETTER SOLUTIONS, FASTER!

Wilson approaches every special tooling request with a "never say no" attitude. And with the fastest lead times in the industry, your special tooling will arrive when you need it.



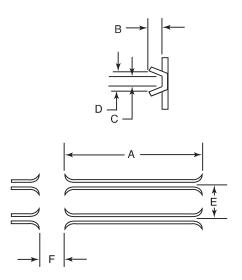


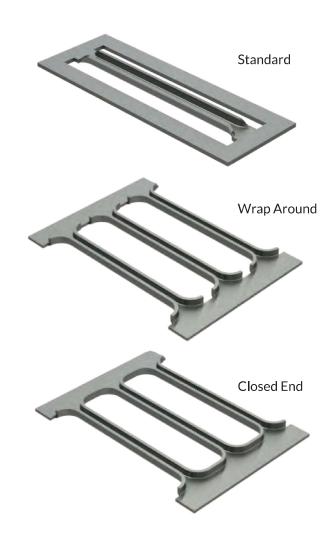


Estimated pre-punch formula: B - [(B - C) X .75] = Pre-punch

APPLICATION	ADVANTAGES	INFORMATION NEEDED
Coining tools are used for forming countersinks and counter bores for screws or to deburr the edge of a hole.	 Coining on the punch press eliminates costs and time when compared to a secondary operation of machining countersinks. Interchangeable inserts for form down countersinks allow you to easily change coin sizes and reduce tooling costs. Form up coin dies are self-stripping. Multiple coating options available to aid in stripping 	 Machine model Material thickness and type Angle, coin diameter (B), thru-hole size with or without pilot (C). Form-up or form-down







APPLICATION	ADVANTAGES	INFORMATION NEEDED
A card guide is used for retaining printed circuit boards that require standard lead-in or special lead-in shapes. Wilson Tool will estimate the web of material to be formed on all card guides and the pre-punch shape and size on special lead-in card guides.	 The replaceable insert design allows for lower costs and conversion to different size card guides. Fast and simple length adjustment Special lead-ins are available Built in stripping for best results Multiple coating options available to aid in stripping 	Machine model Material thickness and type Dimensional drawing or electronic file - center-to-center location and narrowest pre-punch. Pre-punch shape rectangle, obround, or rectangle with radius corners.







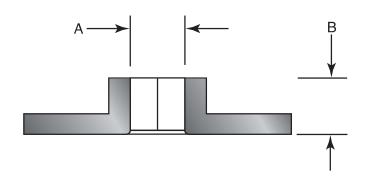


Specify C Dimension if more than one form exists on sheet. 45° **Emboss** RECOMMENDED В **RADIUS** THEORETICAL SHARP ANGI F **Formed Countersink**

APPLICATION	ADVANTAGES	INFORMATION NEEDED
Embosses, dimples and forming tools are typically used to create stand-offs, spacers, countersinks, locks for nuts. Logo embosses and other special shapes can be manufactured easily when an electronic file is provided.	 All tools are made to achieve a consistent high quality form. Form up designs are self-stripping. 1-1/4" station embosses are full body designs to give maximum bearing area to sheet. Large station tools are a punch, stripper, and die design that will fit your existing holder assembly. Multiple coating options available to aid in stripping. 	 Material thickness and type Machine model Dimensional drawing or electronic file Form-up or form-down Style of large station guide assembly





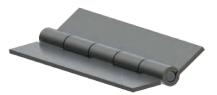


APPLICATION	ADVANTAGES	INFORMATION NEEDED
Extrusions are used in a broad spectrum of applications: • Self-tapping screws • Cooling tube holders • Air flow applications • Tread plates	 1-1/4" station extrusions are an insert style for fast and economical replacement. Form-down extrusions are designed to be self-stripping, providing consistent and trouble-free operation. The large station universal holder provides cost savings and flexibility. Purchase only a punch tip, ejector and die assembly to change size. Multiple coating options available to aid in stripping. 	 Machine model Material thickness and type I.D. and height or screw size and type Tolerance of I.D. Form-up or form-down Specify center-to-center if more than one extrusion exists on the sheet





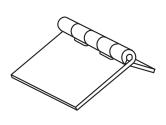


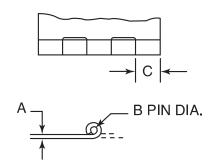


Offset Fully Curled Hinge



One-Hit Half Knuckle Hinge





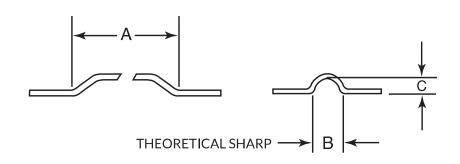
APPLICATION	ADVANTAGES	INFORMATION NEEDED
Integrating a formed a hinge on the edge of the sheet in your turret machine eliminates the need for costly hardware and a secondary operation to weld or fasten them.	 Wilson Tool's one-hit hinge tool is achieved with 1 set of tools. Standard hinge is achieved with 2 sets of tools. Offset hinge requires 3 sets of tools. 	 Machine model Material thickness (A) and type Dimensional drawing or electronic file - inside diameter or pin size (B) Knuckle size (C)



See this tool in action on the Wilson Tool YouTube Channel

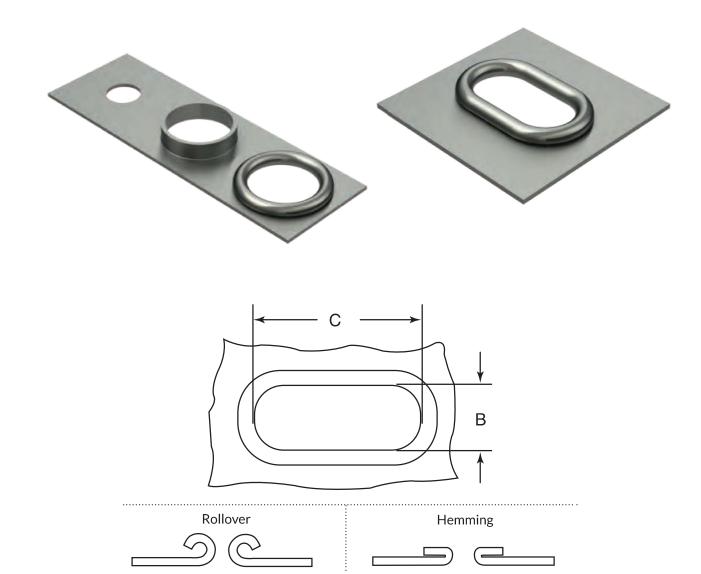






APPLICATION	ADVANTAGES	INFORMATION NEEDED
A progressive rib produces quality stiffening ribs, programmable to any length. Rounded or flat top ribs are available. For best results, inside radius should be equal to or greater than the height. Run in nibbling mode recommended (incremental moves should be equal to the material thickness or less).	The large station universal holder provides fast and easy length adjutments, cost savings and flexibility: • Purchase a punch tip and die to change size • The same upper holder can be used for electrical knockouts, extrusions, and lance and forms. When changing material thicknesses, only one component is required.	 Machine model Material thickness and type Dimensional drawing or electronic file Specifiy center-to-center if more than one form exists on the sheet





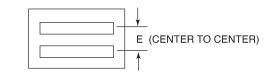
APPLICATION	ADVANTAGES	INFORMATION NEEDED
Rollover and hemming tools can be used in many applications such as hand holds, wire feeds and grommets.	Reduces costly secondary operations and handling.	Machine modelMaterial thickness and typeDiameter or length and width of
 Rollover is achieved in three operations: 1. Pre-punch (developed by Wilson Tool free of charge) 2. Form-up extrusion 3. Rollover Hemming is achieved in three operations: 1. Pre-punch (developed by Wilson Tool free of charge) 2. Form-up extrusion 3. Flare & Flatten. 	 Designed and manufactured to produce consistent results. Multiple coating options available to extend tool life. 	opening (C, B) Tolerance of opening What type of application (hand hold, wire feed, etc.) Style of guide assembly

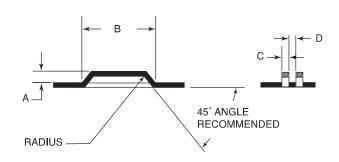










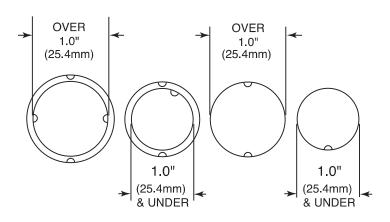


APPLICATION	ADVANTAGES	INFORMATION NEEDED
Bridge style lance and forms can be used for shear stops, locators, card guides, dividers, ventilation and wire tie downs.	The Wilson design creates a positive form ensuring a high quality, consistent part. Small and large station holders provide both cost savings and flexibility: • Purchase only a punch tip, ejector and die assembly to change size. • Use the same upper holder for other applications. Special lead-ins available. Form-down bridges are made self-stripping. Multiple coating options available to aid in stripping.	 Machine model Material thickness and type Dimensional drawing or electronic file for relief Top, side and end views Form-up or form-down





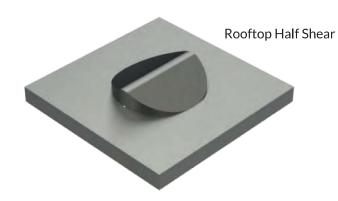
Standard Wilson Tool Tab Location



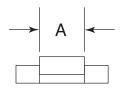
APPLICATION	ADVANTAGES	INFORMATION NEEDED
Electrical knockouts (EKOs) are used to create connection points for cable pathways. Available for: • Single • Double (concentric or tangential) • Standard and special shapes Single or multiple tools can be used to produce the desired number of EKOs for your requirements.	 Wilson Tool's EKO design has full stripping in both upper and lower units, which produce good quality, reliable knockouts every time. The universal holder provides both cost savings and flexibility. Purchase only a punch tip, ejector and die assembly to change size. Use the same upper holder for other applications. Multiple coating options available for extending tool life. 	 Machine model Material thickness, type or range Actual diameter Specify center-to-center if more than one knockout exists on the sheet. Form-up or form-down







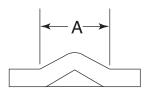
Half Shear



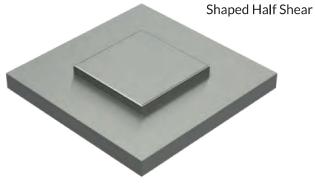


Rooftop Half Shear









APPLICATION	ADVANTAGES	INFORMATION NEEDED
The half shear is an easy-to-use tool that allows you to put in shear buttons and spot welding locators to the accuracy of your punch press.	Form-up half shears are available in stock sizes. B station form-up half shears have replaceable	Machine modelMaterial thickness and type (or range)Diameter or shape (on top of sheet)
Round half shears make excellent locators for angular shearing.	inserts up to .375" (9.53mm) diameter in lower unit. Rooftop half shears give you greater height protrusion compared to a standard half-shear	 Specify center-to-center if more than one exists on the sheet. Form-up or form-down

Half shears can be used on a .125" (3.17 mm)

when using thinner material.

range of material.

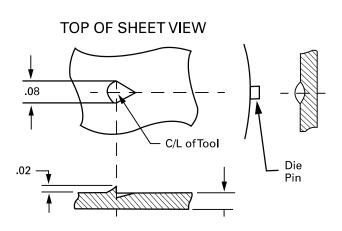
Rooftop half shears have approximately a

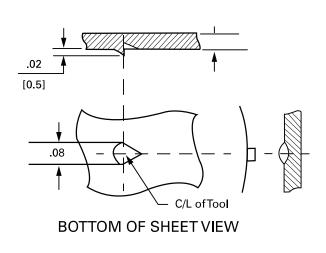
3 gauge material thickness range.







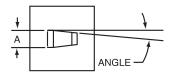


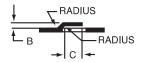


APPLICATION	ADVANTAGES	INFORMATION NEEDED
The scratch form can be used for spot welding locators, locators for angular shearing and shear stops. Height of the stop is .020"030" [.5mm – .8mm]. Tool is designed with relief for .500" [12.7mm] centers.	Punches a range of material from .036" to .125" [.91mm to 3.18mm]	 Machine model Material thickness and type Specify top or bottom of the sheet scratch

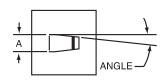


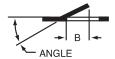






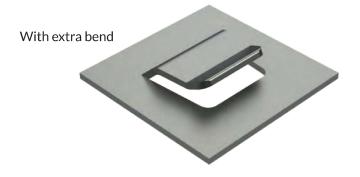
OTHER THAN 90°

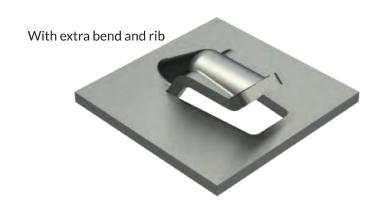




OTHER THAN 90°

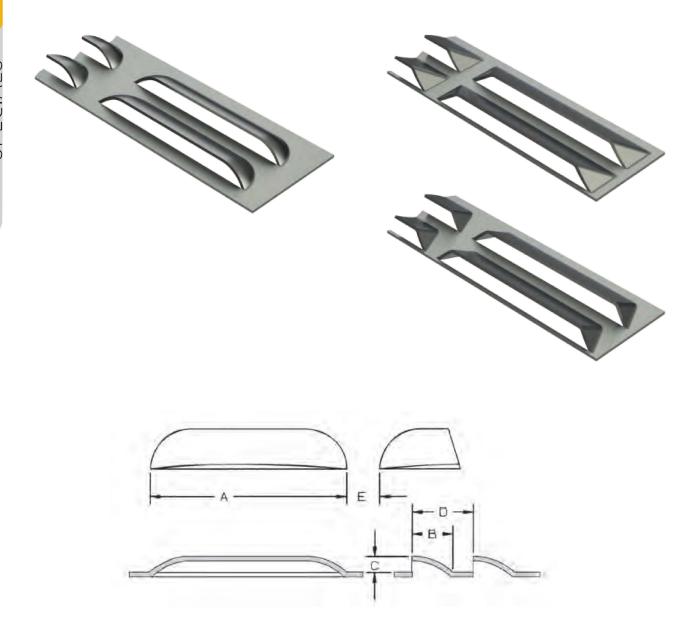






APPLICATION	ADVANTAGES	INFORMATION NEEDED
Lance and forms are used for a variety of applications, including: Air flow Decoration Location markers Shear tabs Wire harnesses Clip attachments.	High-quality lance and forms are assured with Wilson's positive form and self-stripping design. Lance and form other than 90° holder provides both cost savings and flexibility; • Purchase only a punch tip, ejector and die assembly to change size; • Use the same upper holder for other applications. Multiple coating options available to extend tool life.	 Machine model Material thickness and type Dimensional drawing or electronic file and pattern if relief is required. Style of large station guide assembly - for lance and forms of 90° only (e.g. series 80/90, Old Style, etc.) A taper of 5° per side should be added (if possible) to aid in stripping large station lance and forms. Form-up or Form-down

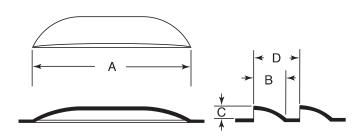




APPLICATION	ADVANTAGES	INFORMATION NEEDED
Louvers are used in a variety of industry applications that require airflow; electrical enclosures, HVAC, and food service equipment. Single hit louvers can be placed back to back (no web between louvers.)	Lower costs with replaceable inserts that can be converted to different size louvers. Stock sizes available. The large station universal holders provide both cost savings and flexibility: • Purchase only pocket, cutting, and forming inserts to change size. • Use the upper holder for other applications Keying at 0°, 90°, 180°, and 270° is standard Multiple coating options available to extend tool life.	Machine model Material thickness and type Dimensional drawing or electronic file



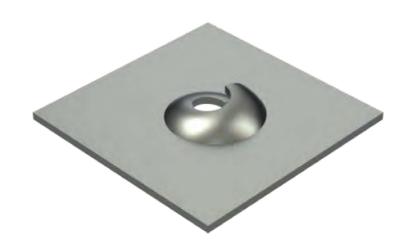




"A" dimension is programmable to any length. Form length on first full hit is approximately 2-1/4" (57mm) long.

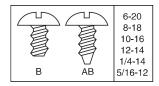
APPLICATION	ADVANTAGES	INFORMATION NEEDED
Progressive louvers are used in a variety of industry applications that require airflow; Electrical enclosures, HVAC, and food service equipment.	Lower costs with replaceable inserts that can be converted to different size louvers. Stock sizes available. The large station universal holders provide both cost savings and flexibility:	Machine modelMaterial thickness and typeB, C and D dimensions.
The progressive design produces various length louvers to give flexibility using one tool.	 Purchase only pocket, cutting, and forming inserts to change size. Purchase only pocket insert when changing 	
Run in nibbling mode (recommended incremental moves equal to the material	material Use the upper holder for other applications.	
thickness or less).	Keying at 0°, 90°, 180°, and 270° is standard. Multiple coating options available to extend tool life.	
A Dos and Don'ts information sheet is provided for ease of programming.		

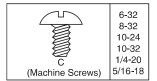






SCREW TYPE	Thread Size
A	6-18 8-15 10-12 12-11 14-10 20-9





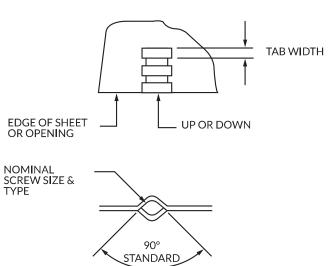
THREAD FORM DATA CHART Maximum Material Thickness with Coining

with Coining						
Thread Size	Inches	MM				
6-15	.120	3.05				
6-18	TBD	TBD				
6-20	.100	2.54				
6-32	.048	1.22				
7-16	.094	2.39				
8-15	.120	3.05				
8-18	.094	2.39				
8-32	.038	0.97				
10-12	.125	3.18				
10-16	.100	2.54				
10-24	.067	1.70				
10-32	.050	1.27				
12-11	.120	3.05				
12-14	.120	3.05				
12-24	.068	1.73				
14-10	.140	3.56				
20-9	.125	3.18				
1/4-14	.120	3.05				
1/4-20	.094	2.39				
5/16-12	.120	3.05				
5/16-18	.094	2.39				
3/16-24	.067	1.70				
3/8-16	.079	2.01				
1/2-13	.114	2.90				
M2.9 x 1.1	.080	2.03				
3.5 x 1.3	.100	2.54				
3.9 x 1.4	.098	2.49				
M4 x 0.7	.062	1.57				
M4.2 x 1.4	.074	1.88				
4.2 x 1.6	.094	2.39				
4.8 x 1.6	.094	2.39				
4.8 x 1.8	.100	2.54				
M5 x 0.8	.050	1.27				
5.5 x 1.8	.120	3.05				
M6 x 1.0	.065	1.65				
6.3 x 1.8	.120	3.05				
M8 x 1.25	.074	1.88				
8.0 x 2.1	.120	3.05				
M10 x 1.5	.085	2.16				
M12 x 1.75	.104	2.64				

APPLICATION	ADVANTAGES	INFORMATION NEEDED
A thread form is a great solution for eliminating secondary operations and supplemental hardware where a threaded hole is required.	 Reduces costly hardware and assembly time. Coining is included in the design of the tool when material exceeds the recommended thickness up to 2 times. Pre-punch information is provided. Multiple coating options available to extend tool life. 	 Machine model Material thickness and type Thread size and type

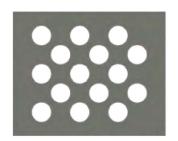


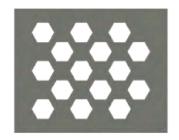




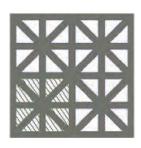
APPLICATION	ADVANTAGES	INFORMATION NEEDED
A thread loop is a great solution for eliminating secondary operations and supplemental hardware when a threaded hole is required.	The Wilson design gives a positive form, which ensures a high quality part. Reduces costly hardware and assembly time. Multiple coating options available to extend tool life.	 Machine model Material thickness and type Number of thread loop tabs Width of tab Direction of first tab Diameter of opening or screw size and type Dimensional drawing or electronic file













APPLICATION	ADVANTAGES	INFORMATION NEEDED
The cluster tool is the most cost effective method to manufacture perforated patterns and is commonly used for air ventilation, drains and filters. Cluster piercing is ideal for applications where tight tolerance is required on the hole pattern.	 Creates maximum number of holes with minimal hits. Saves on machine punching time and costly tool maintenance. Available in any hole size, shape or pattern. Holds tight tolerance from hole to hole. Punch available as solid or replaceable insert style. Wilson Tool's back bending feature on dies can help reduce sheet distortion. Multiple coating options available to extend tool life. Slug Hugger[®] 2 recommended to eliminate slug pulling. 	 Machine model Material type, thickness or range Number of holes in clusters Straight or staggered pattern Center-to-center dimensions Replaceable or solid design Style of large station guide assembly



FORM-DOWN





FORM-UP

FORM-UP	
MAXIMUM CHARACTERS PER R	

SIZE	_	1/4" TION		2" TION		1/2" TION
	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE
1/16" [1.57mm]	20	20	31	31	53	53
3/32" [2.36mm]	14	14	20	20	35	35
1/8" [3.17mm]	10	10	15	15	26	26
3/16" [4.75mm]	7	N/A	9	9	17	17
1/4" [6.35mm]	5	N/A	7	7	13	13
3/8" [9.52mm]	3	N/A	N/A	N/A	8	N/A

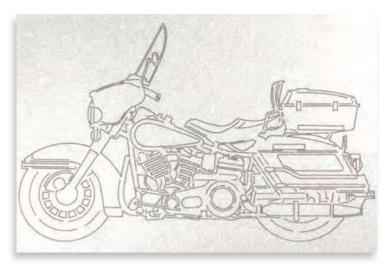
FORM-DOWN MAXIMUM CHARACTERS PER ROW FOR SINGLE & DOUBLE ROW STAMP

SIZE		1/4" TION		1/2" TION	•	5" TION
	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE
1/16" [1.57mm]	16	16	48	48	72	72
3/32" [2.36mm]	10	10	32	32	48	48
1/8" [3.17mm]	8	8	24	24	36	36
3/16" [4.75mm]	5	5	16	16	24	24
1/4" [6.35mm]	4	N/A	12	12	18	18
3/8" [9.52mm]	2	N/A	8	8	12	12

APPLICATION	ADVANTAGES	INFORMATION NEEDED
A letter stamp is a perfect solution for permanently marking and displaying company names, serial numbers, or part numbers. Replaceable punch tip design allows for versatility as well as quick and easy change out.	Stock sizes available in single and double row. Reduces the number of tools needed to mark parts. Eliminates secondary stamping operations. Adjustable for .125" (3.18mm) material range. Interchangeable punch tip design provides cost savings and flexibility to easily change character size by purchasing only a punch tip and characters. Form-up letter stamp tools are made self-stripping.	 Machine model Material thickness and type Size character, number of rows, number of characters per row Form-up or form-down Style of large station guide assembly

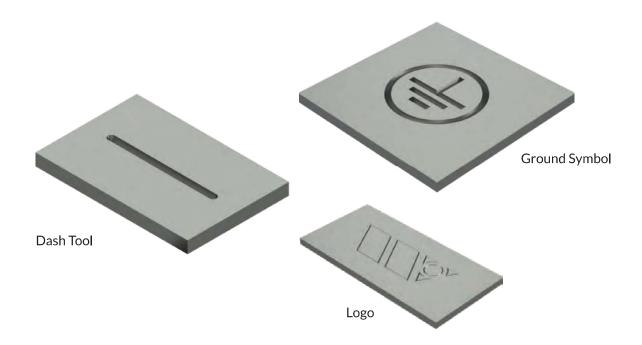


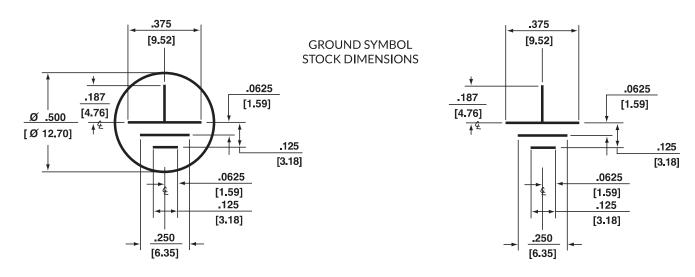




APPLICATION	ADVANTAGES	INFORMATION NEEDED
 Wilson Multi-Scribe is ideal for both sheet scribing and dot-matrix marking on a wide range of materials. Unique designs and logos can be achieved just by programming. Hydraulic rams produce both "scribe" and "dot-matrix" sheet marking. Mechanical rams produce "dot-matrix" sheet marking Works on a wide range of materials. 	 Can achieve variable scribe depth Design allows for consistent mark depth Long lasting diamond tip Won't deform the material or mark the underside of the sheet. Sold as a kit which includes: Punch & die assembly Red medium spring, yellow light spring Green heavy spring 120° and 150° diamond insert 90° carbide insert 3mm hex wrench Wilson Multi-Scribe tool comes assembled with 120° diamond and red medium spring. 	Machine model Material thickness and type







APPLICATION	ADVANTAGES	INFORMATION NEEDED
Stamping the top or bottom of the sheet is the perfect solution for permanently displaying company names, serial numbers, symbols, and product or company logos. Ground symbols, widely used in the electrical industry are available in stock sizes, form-down or form-up. Dash tools can be used to "V" notch the sheet to aid in bending, create numbers and letters, and location marks on a sheet. Dash tools are available in form-down or form-up, in various lengths and can be run progressively.	All form-up tools are designed self-stripping to prevent sheet marking and tool wear. Logo stamps and other special stamps can be manufactured easily when an electronic file is provided. When used in the auto index station, dash tools can be used to create numbers or letters. Adjustable for .125" [3.18mm] material range.	 Machine model Material thickness and type Length of dash Size of ground symbol (stock or non-stock) Electronic file for logos Form-up or form-down Style of large station guide assembly









APPLICATION	ADVANTAGES	INFORMATION NEEDED
Zip-Tech lance is achieved in three operations: 1. Pre-punch - round hole 2. Pre-punch - T-shape hole 3. Zip-Tech Lance and Form	Fabricates snaps to join metal parts together. Different types of materials of the same thickness can be joined together. Eliminate time consuming and labor intensive welding and grinding operations, spot welding or other fastening methods.	 Machine model Material thickness and type Auto index stations available



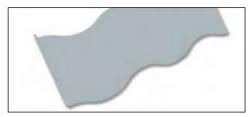


ROLLING FLARE

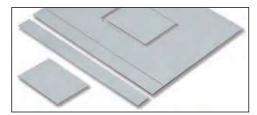




ROLLING OFFSET

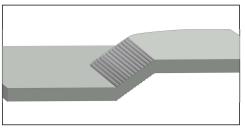


ROLLING SHEAR



ROLLING PINCHER





ROLLING FORGE

APPLICATION	ADVANTAGES	INFORMATION NEEDED
The Wilson Wheel family of products offers you flexible, high speed production of slits, ribs and offsets on a wide range of materials with virtually no burrs or nibble marks. Create curves, arcs and circles with your auto index station.	 High speed - equal to programmed table travel speed. Virtually no burrs or nibble marks on sheet. Eliminate scrap with rolling shear and pincher. Replacement forming wheels available. Available in form-up or form-down. Works on a wide range of material. Wheel tools can start or end anywhere on the sheet. Stock sizes available for fast delivery. 	 Machine model Material thickness and type Define fabrication needs



See this tool in action on the Wilson Tool YouTube Channel





APPLICATION	ADVANTAGES	INFORMATION NEEDED
Light Spring Packs help reduce sheet and form distortion as well as sheet marking in forming and piercing operations.	 Fast and easy assembly and disassembly with Series 80®, Series 80 Plus®, Series 90® and High Performance® (HP). Simply spin off the existing spring unit and spin on the partial light spring unit. Sold in partial or complete spring units. Assembly instructions included. 	Type of holder











APPLICATION	ADVANTAGES	INFORMATION NEEDED
The E-Z Set punch head provides quick turn-of-the-wrist adjustment. A simple lift and turn of the adjustable head is all that is required. You can achieve just the right mark or form when using the E-Z Set punch head on A or B station stamping and forming tools.	 Precise adjustment: Each adjustment click provides a .0035" (0.09 mm) incremental change in the tool length. The maximum adjustment is approximately .125" [3.18 mm]. Fine length adjustments can now be made without removing the tool from the turret, thus reducing machine down time. You will see instant payback based on reduced machine down time. 	Type of holder - imperial or metric Style of guide assembly



SLUG HUGGER® 2 ELIMINATES COSTLY SLUG PULLING

Manufacturers simply cannot afford frequent press downtime. The Slug Hugger® 2 die design helps eliminate the very costly problem of slug pulling — a major contributor to extra downtime.

The Slug Pulling Solution

For a guaranteed solution, turn to Slug Hugger 2 dies. Slug Hugger 2 dies help eliminate scrapped parts, costly downtime, and possible press and tooling damage due to slug pulling. Their unique design helps eliminate unnecessary back-pressure on small punch tips by preventing packed slugs. The Slug Hugger 2 design works on most material types and thicknesses including aluminum and stainless steel.



How Does it Work?

The Slug Hugger 2 design grabs the slug just below the cutting surface of the die and retains it during the stripping process. Precision "nips" hold slugs in the die and when capacity is reached, one slug per hit is released through the relief.



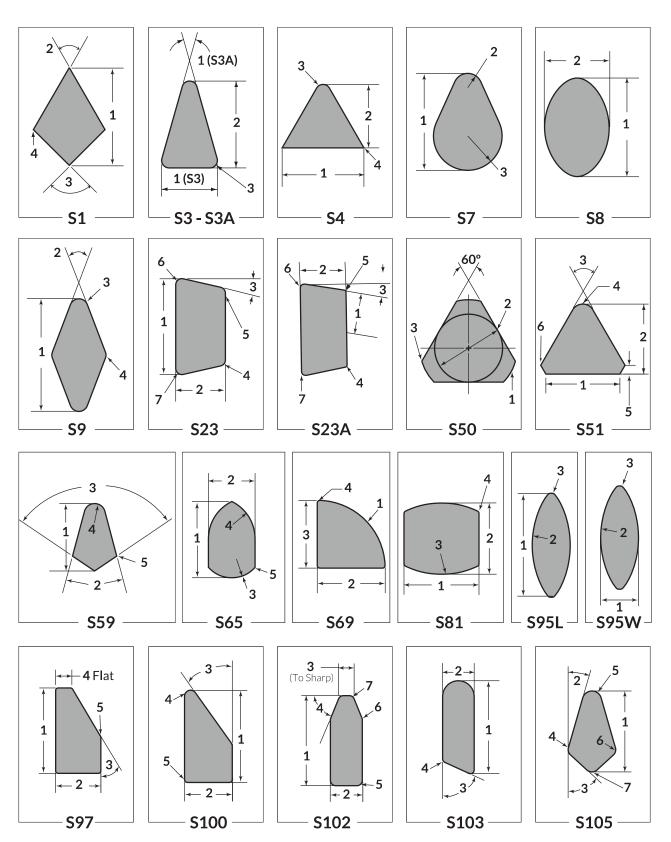








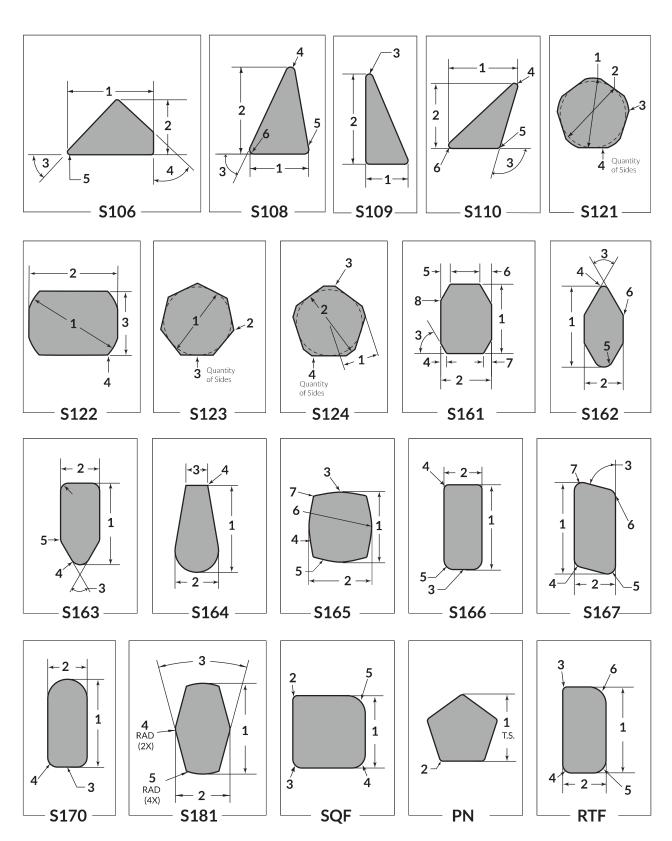
GROUP 'A'



NOTE: Special considerations may alter price and lead time.

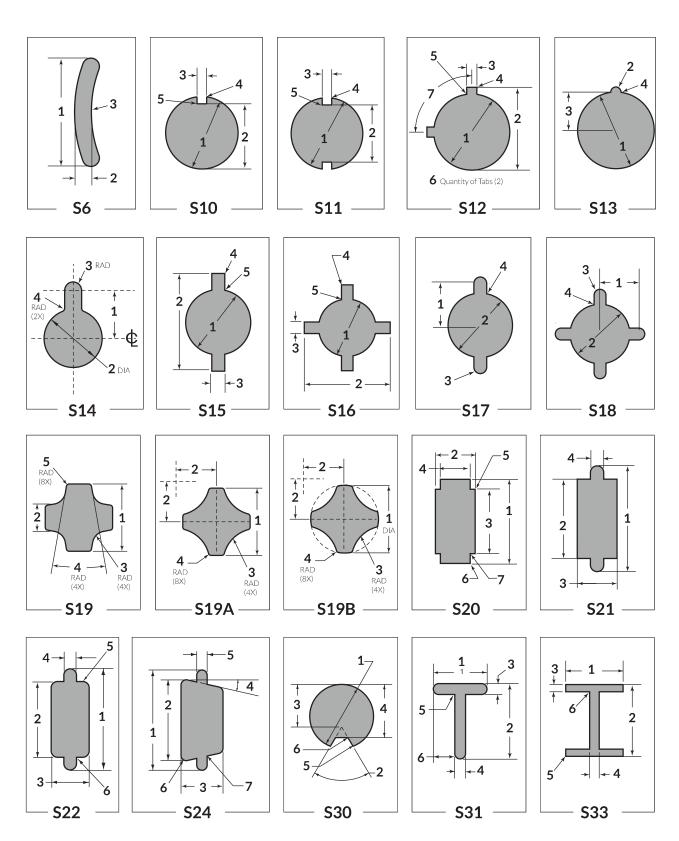


GROUP 'A'



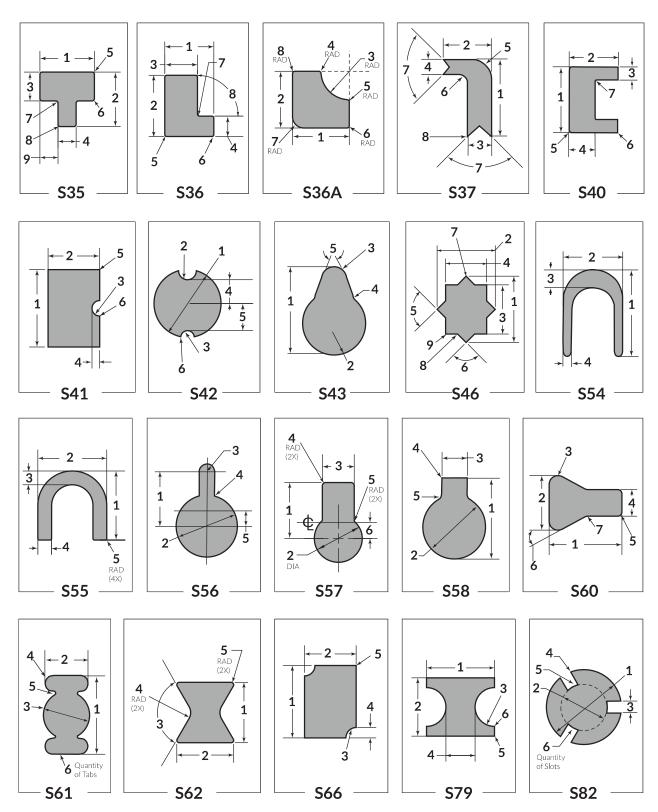
NOTE: Special considerations may alter price and lead time.





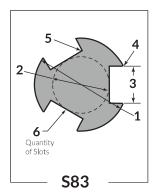
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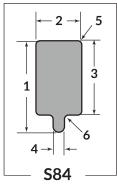


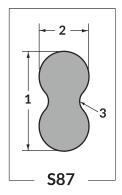


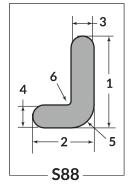
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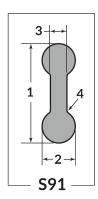


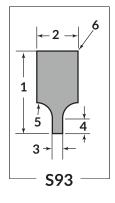


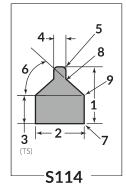


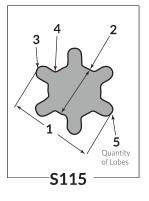


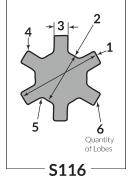


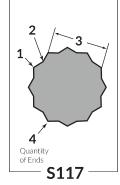


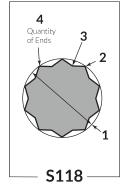


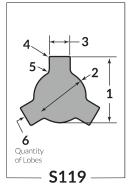


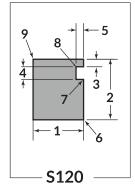


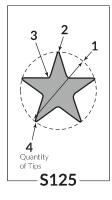


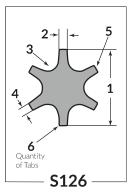


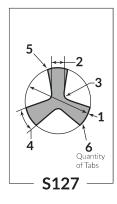


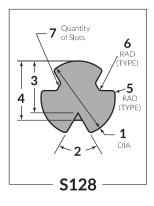


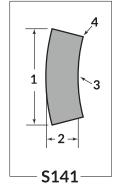


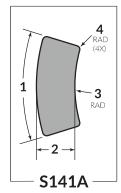


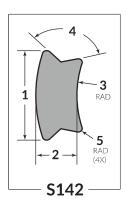






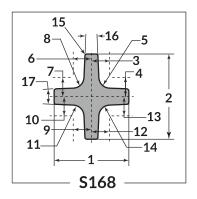


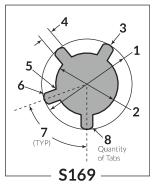


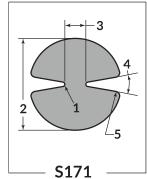


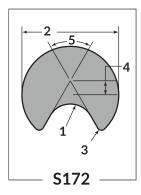
NOTE: Special considerations may alter price and lead time.

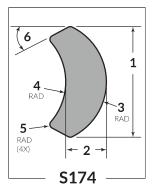


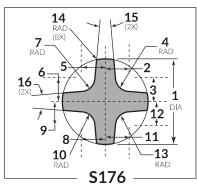


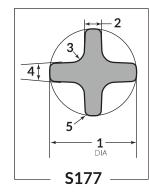


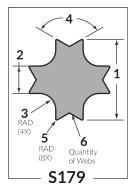




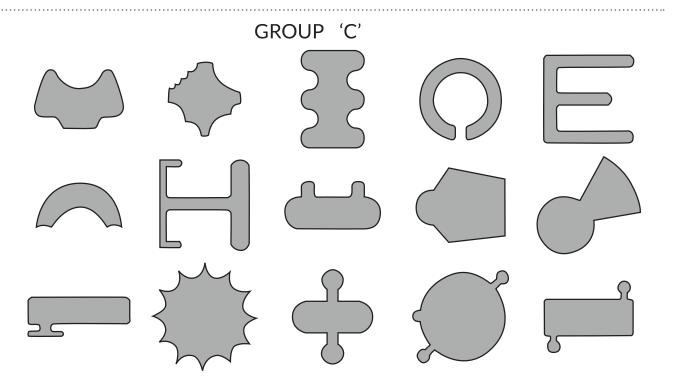








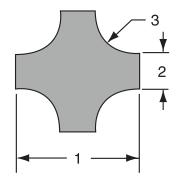
NOTE: Special considerations may alter price and lead time.



Any complex 2D shape ordered with a DXF file will be priced as a "B" Group. Electronic file will be validated at the time of ordering.

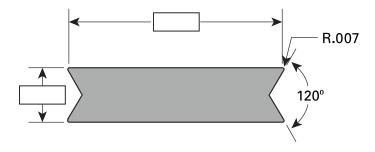


4-WAY RADIUS TOOLS - STANDARD SIZES



RADIUS INCHES/MM	DIM. 1 INCHES/MM	DIM. 2 INCHES/MM	DIM. 3 INCHES/MM
.062 [1.58]	.500 [1.58]	.250 [6.35]	.062 [1.58]
.094 [2.39]	.625 [2.39]	.250 [6.35]	.094 [2.39]
.125 [3.18]	.625 [3.18]	.250 [6.35]	.125 [3.18]
.156 [3.96]	.750 [3.96]	.250 [6.35]	.156 [3.96]
.188 [4.78]	.750 [4.78]	.250 [6.35]	.188 [4.78]
.250 [6.35]	.875 [6.35]	.250 [6.35]	.250 [6.35]
.312 [7.93]	1.000 [7.93]	.250 [6.35]	.312 [7.93]
.375 [9.53]	1.125 [9.53]	.250 [6.35]	.375 [9.53]
.500 [12.7]	1.250 [12.7]Ø	.250 [6.35]	.500 [12.7]

INVERTED DIAMOND





MAGNET SQUARE

Press Brake Compatible
Punch Press Compatible



ON/OFF work holding magnet 150 lb [70 kg] of hold force. Size: [30MM] Square

Cat. No. 974150

EXP® PUNCH REMOVAL KEY

Press Brake Compatible
Punch Press Compatible



This wrench is designed for use with EXP punches.

Cat. No. 6989

OIL STONE

Press Brake Compatible
Punch Press Compatible



3 sqare aluminum oxide sharpening stone.

Cat. No. 6060

DIAMOND FILE

Press Brake Compatible

Punch Press Compatible



Industrial file plated with finely selected diamond powder. Can be used on hardened tool steel.

Cat. No. 6059

T-HANDLE EXTRACTOR

Press Brake Compatible

Punch Press Compatible



Used for large station guide assemblies.

Cat. No. 6483

SAE HEX KEY WRENCH SET

Press Brake Compatible

Punch Press Compatible



Imperial 13 piece set. Contains .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" and 3/8".

Cat. No. 6057



Metric 9 piece long arm set. Contains 1.5x77, 2x83, 2.5x90, 3x98, 4x106, 5x118, 6x137, 8x156, and 10x170mm.

Cat. No. 6105



METRIC HEX KEY WRENCH SET

Press Brake Compatible

Punch Press Compatible

Polyurethane dead-blow hammer. Steel pellets inside hammer head impact a split second after the hammer face, reducing rebound.

Cat. No. 6106



SOFT FACE HAMMER

Press Brake Compatible

Punch Press Compatible

Retaining ring pliers for changing Old Style B Station Thick Turret strippers and Old Style 5/8" Drop-In strippers.

Cat. No. 6056



TRU-ARC PLIERS

Press Brake Compatible

Punch Press Compatible

Adjustable 'c' hook wrench for removing B Station Thick Turret and 1/4" Station ThinTurret/ Strippit punch heads.

Cat. No. 6058



SPANNER WRENCH

Press Brake Compatible

Punch Press Compatible

TOOL KIT

- (1) Tool Box,
- (1) Oil Stone,
- (1) Diamond File,
- (1) Tru-Arc Pliers,
- (1) Spanner Wrench,
- (1) Punch Lubricant,(1) Soft Face Hammer.
- (1) Metric Hex Key Wrench Set,
- (1) Hex Key Wrench Set (English),
- (1) Assortment of 4-sizes of square urethane ejectors.

Cat. No. 6091



TOOL KIT

Press Brake Compatible

Punch Press Compatible



DIGITAL ANGLE CUBE

Press Brake Compatible

Punch Press Compatible



The compact size of the Digital Cube allows you to quickly read bend angles of work material.

- Real time display of angle comparison.
- Magnets on three sides
- Self rotating display for 180° readings.

Cat. No. 974119

DIGITAL PROTRACTOR SET

Press Brake Compatible

Punch Press Compatible



Lightweight, easy-to-use, highly accurate protractors measure angles from 0° to 360°.

- Accuracy: ±.01 degrees.
- Set angles in .05 degree increments
- Front locking lever to hold the arm position.

A hold function and reverse reading capability.

Cat. No. 980065

DIGITAL THICKNESS GAUGE

Press Brake Compatible

Punch Press Compatible



- Compact size with spring loaded jaw mechanism
- Accuracy to 0.002"
- Readings in millimeters, inches and fractions

Cat. No. 974117

DIGITAL EASY READ CALIPER

Press Brake Compatible
Punch Press Compatible



- Large digital readout [0.875" x 2.375"]
- Measuring range 0-6"
- Accuracy to 0.001"

Cat. No. 974118

ZIP-MAR™ ADHESIVE DISCS

Press Brake Compatible

Punch Press Compatible

Zip-Mar™ reduces the costly marring of material by the stripper. The disk is applied to the bottom of a standard stripping guide or stripper plate. A hole is then cut with a sharp knife to reveal the existing hole in the stripper.



		CAT.
Station	QUANTITY	NO.
1/2", 5/8"	Pack of 10	6083
1-1/4"	Pack of 10	6084
3-1/2"	Pack of 10	6086
Sheet	6" x 12" [15.2 x 30.5 cm	6108

ALIGNMENT TOOLS, BALL RIDING AND BRUSH DIE_____



DESCRIPTION	CAT. NO.
1-1/4" Upper Unit	494
1-1/4" Lower Unit	495
2" Upper Unit	S190
2" Lower Unit	1841
3-1/2" Upper Unit	496
3-1/2" Lower Unit	497



ALIGNMENT TOOLS

Press Brake Compatible Punch Press Compatible

DESCRIPTION	CAT. NO
3-1/2" Station Alignment Fixture	24161

Bench mounted aid for assembling and maintaining 3-1/2" Strippit® style guide assemblies.



ASSEMBLY FIXTURE

Punch Press Compatible

A ball riding die consists of a spring loaded ball designed to help eliminate sheet hang-up from material running into a higher die, sheet deformation from punching next to dies of different heights and damage to die inserts when the die cap receives uneven loading. Overall Height = 1.328" [33.73mm]

STATION SIZE	BALL RIDING	BRUSH
	CAT. NO	CAT. NO
[1-1/4"]	10685	2761



BALL RIDING AND BRUSH DIE

Press Brake Compatible Punch Press Compatible

Brush dies are primarily used in applications where any marking that might be caused by ball riding dies is not acceptable. Overall Height = 1.248" [31.7mm]

THINTURRET 3- 1/2" to accept 1-1/4" STATION TOOLING

DESCRIPTION	CAT. NO.
Punch Assembly for Fab Station	10059
Die Adapter	10096
* Keyed 4 ways for use in all machines	

Keyed 4 ways for use in all machines



ADAPTER

Press Brake Compatible Punch Press Compatible

SQUARE SHEARPROOF FAB 7/8" [22.2mm]	
DESCRIPTION	CAT. NO.
Punch and Guide Assembly	223
Punch only	228
Adjustable Punch Head	145
Spring	125
Guide Collar w/"O" Ring	146
Guide (Slip Fit Shaped)	231
Die (Positive)	162
Die (Slug Hugger® 2)	10073
Punch Shims (single)	152



ADAPTER

Press Brake Compatible

Punch Press Compatible



TOOL STORAGE CABINET

9 DRAWER ARRANGEMENT & CAPACITY:

6 drawers for 1-1/4" station tooling:

- 18 punch & guide assemblies (per drawer)
- 36 dies & 18 additional punches (per drawer)

2 drawers for 3-1/2" station tooling:

• 16 sets of 3-1/2" station tooling per drawer

1 drawer for (9 compartments) for Guide Assemblies:

• 5" station tooling or miscellaneous tooling

1 drawer (9 compartments)

• 'E' or 'F' large station guide assemblies

Includes lock with two keys and forklift-ready base.

Overall Dimensions:

42" high x 28" wide x 29" deep 107 cm high x 71 cm wide x 74 cm deep



CABINET	CAT. NO
Thin Turret	974198
OPTIONS	CAT. NO
Plastic Drawer Liners	90002
Mobile Base	90003
Maple Top	90004
Cart Handle (1)	90005
Ribbed Rubber Mat	90006

Note: Actual color and drawer arrangement will vary slightly from photo.

SHEAR GRINDING FIXTURE

- Easy to adjust angle setting for shear grinding.
- Can be used with your existing surface grinder.
- Easy to use instruction sheet with grinding tips.



SHEAR GRINDING FIXTURE & ACC	ESSORIES
DESCRIPTION	CAT. NO.
Shear Grinding Fixture	6034
EXP Sharpening Adapter	6990
1/2" Tooling Sleeve Adapter	6045
5/8" Tooling Sleeve Adapter	6046
1-1/4" Tooling Punch and Die Holder	6044
2" & 3-1/2" Tooling Punch Holder	6041
Universal Notch Punch Holder	6071
Dura-Blade Grinding Fixture	6932
Pointer [Replacement]	6035
Degree Scale [Replacement]	6036
MULTI-TOOL PUNCH & DIE HOL	.DERS
DESCRIPTION	CAT. NO.
8 Station Punch & Die Holder	6159
8mm Punch & Die Holder	6156
16mm Punch & Die Holder	6157
24mm Punch & Die Holder	6158

XSHARP™ GRINDER

Benefits of Accurate Regrinding

- Burr-free, quality parts straight off the punch press
- Longer tool life for reduced tooling costs
- No scrapped or wasted sheets due to tooling malfunction
- Reduced wear on your punch press

Fully Automated Grinding Process

- Simple to operate; no previous grinding experience required
- Touchscreen controller with user-friendly multi-language interface for easy operation (language can be selected during machine setup)
- Automated height detection feature locates the top of any tool mounted in the chuck before the grinding cycle begins
- Automatic compensation makes up for any grinding wheel wear

Suitable for Most Tooling Styles: Flexible range of chucks and adapters allows for sharpening most punch press tooling styles

Precision: AC-servo motor drives a precision gear and ball screw with dual linear guides and four carriers to provide highly stable bearing properties

Shear Grinding Chuck: For sharpening punches with shears (included)

Closed Coolant System: Ensures the tool is constantly flooded with coolant during the grinding process

Interlocking Safety Guard: Automatically that opens and closes

Frame: Heavy-duty cast-iron frame for durability, stability and long life

Small Footprint: Machine can easily be placed next to the punch press



XSHARP™ ACCESSORIES				
DESCRIPTION	CAT. NO.			
Grinding Wheel	55109			
Coolant	55367			
Dressing Stone	55117			

TECHNICAL SPECIFICATIONS*

Machine Height 77.2" (1962mm) Machine Width 31.5" (800mm) Machine Depth 30.7" (779mm) Machine Weight 992 lbs./450kg **Power Supply** 230/460V, 60Hz Table Motor Power .24HP/.18 kW Table Rotation Speed 40 RPM

Max. Tool Diameter 6.3" (160mm) Max. Tool Height 9" (230mm) Air Pressure Supply 6 bar Grinding Motor Power 3HP/2.2kW Wheel Rotation Speed 2800 rpm Coolant Pump Power .21HP/0.16 kW Coolant Pump Water Flow Max. 11.5GPM/40 I/min

Note: Adapters may be required for some ranges of TRUMPF-style tooling.

5 EASY STEPS TO A SHARPER EDGE



Step 1. Load tool into chuck



Step 2. Set tool style



Step 3. Set tool size



Step 4. Set grind amount (in increments of 0.001" or 0.01mm)



Step 5. Touch start to sharpen the tool

^{*}Wilson Tool International reserves the right to change machine specifications without prior notice.



TOOL MAINTENANCE AND LUBRICANTS

NYLON VICE JAWS

Press Brake Compatible

Punch Press Compatible



Used to aid in the assembly and maintenance of Thin and Thick Turret style punch assemblies.

.....

Cat. No. 24001

RUBBERIZED ABRASIVE WHEEL

Press Brake Compatible

Punch Press Compatible



- For removing galling
- Measuring range 0-6"

Accuracy to 0.001"

Cat. No. 8050

PUNCH LUBRICANT

Press Brake Compatible

Punch Press Compatible



An extreme-pressure, solid lubricant that is used for metalworking and protecting against corrosion. Multi-purpose, low friction and heavy duty.

Cat. No. 6055

SHEET LUBRICANT

Press Brake Compatible

Punch Press Compatible



Xcel 1 Liter Spray Bottle Cat. No. 24315

Xcel 5 Liter Concentrate Cat. No. 24316

CUT-MAX 570

Press Brake Compatible

Punch Press Compatible



Cutting oil allows for faster cutting of difficult alloys while providing an excellent finish and extends tool life. Sample size bottle.

Cat. No. 6941

SURE SHOT SPRAYER

Press Brake Compatible

Punch Press Compatible



1 Quart [.95Liter] capacity enamel steel sprayer with adjustable plastic nozzle.

Cat. No. 6120

DIE SHIMS, SLUG EJECTORS, TURRET BUSHINGS



DIE SHIMS				
STATION	QUANTITY	THICKNESS	CAT. NO.	
1-1/4"	1		2097	
1-1/4"	25/pkg	010" [0.25mm]	2209	
3-1/2"	1	.010" [0.25mm]	2081	
3-1/2"	5/pkg		2211	
1-1/4"	1		2723	
1-1/4"	25/pkg	.030" [0.76mm]	2724	
3-1/2"	1	.030 [0.7611111]	2727	
3-1/2"	5/pkg		2728	
1-1/4"	1		2100	
1-1/4"	25/pkg	.060" [1.5mm]	2173	
3-1/2"	1	.000 [1.31111]	2084	
3-1/2"	5/pkg		2175	

PUNCH SHIMS				
STATION	QUANTITY	THICKNESS	CAT. NO.	
1/2"	1		100	
1/2"	25/pkg	040" [1.5mm]	99	
1-1/4"	1	.060" [1.5mm]	152	
1-1/4"	25/pkg		98	



	SLUG EJECTORS	Square Ur	ethane
Hole [Diameter in Punch	QTY.	CAT. NO.
1/8"	[3.2mm]	50	6116
3/16"	[4.8mm]	50	6117
3/8"	[9.5mm]	50	6118
1/2"	[12.7mm]	50	6119
Assort	ment	50	6410

TURRET BUSHINGS				
STATION	MACHINE MODELS	KEYING	CAT. NO.	
	For use in any SAF that utilizes	0° - 90° (Standard)	15	
1-1/4"	Strippit® 1-1/4" Tool Holder Assembly #62532-000 or #62515-000, as well	0° - 90° - 180° & 270°	490	
2.437" [61.9mm] Flange O.D.	as the following: T-SAF-30, FC75/30, FC750, FC1000 (I & II), FC1250 and	0° - 45° - 180° & 315°	491	
	Cap 1000	0° - 135° - 225° & 270°	492	
		0° - 90° (Standard)		
1-1/4"		0° - 90° - 180° & 270°	471	
2.375" [60.3mm]	FC1000 III & 33 STN. 1250, FC1000R	0° - 45° - 180° & 315°		
Flange O.D		0° - 135° - 225° & 270°		
		Multiple Keyways		
3-1/2"	FM-30-30	1 Keyway	280	
3-1/2"	For use in any SAF that utilizes Strippit® 3-1/2" Tool Holder Assembly #62530-000 or #93023-100, 200, as well as the following: T-SAF-30, FC75/30, FC750, FC1000 (I, II & III), FC1250 and Cap 1000, all XT & "S" Series machines.	1 Keyway	277	







ROOFTOP



CONCAVE OR DOUBLE CONCAVE



INVERTED ROOFTOP



DOUBLE VALLEY



JK SHEAR



Best shear for punching at maximum tonnages.



Less resistant to

breakage when

punching at high

inverted stresses.

tonnages because of

When nibbling, bite must be 75% of punch dimension or excessive side loading will result.



Best shear for nibbling because it inverts stresses.



More susceptible to breakage because of a sharp focal point for stresses — use great care.



Good shear for nibbling because it inverts stresses.



Best shear for

nibbling when

narrow.

shape is long and

Less resistant to breakage when punching at high tonnages because of inverted stresses.



A special 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'	Inverted Rooftop Single Concave	Double Valley Double Concave
JIANON	Dimension	1/16" 1/8" [1.6mm] [3.2mm]	1/16" 1/8" [1.6mm] [3.2mm]
1-1/4" (B)	Within 1.250" [31.75mm]		
2" (C)	Within 2.000" [50.8mm]		
3-1/2" (D)	Within 3.500" [88.9mm]		

SHEAR DETAILS	'A' DIMENSION	EXCEPTION
1/32" (1.6mm) rooftop shear is given to all punches with 'A' dimension T greater than 2.000" (50.8mm) and width greater than 2.50" (6.35mm) at no extra charge. All punches .250" (6.35mm) and under in width will be shipped with no shear unless specified.	A	In some instances, inverted rooftop is substituted for single and double concave shears.

JK SHEAR

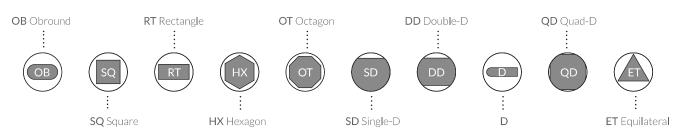
SHAPE	ADD ON PRICE
Round	
Rectangle, Square, Hexagon, Singe 'D', Double 'D'	
Obround	

SPECIAL SHEAR DETAILS

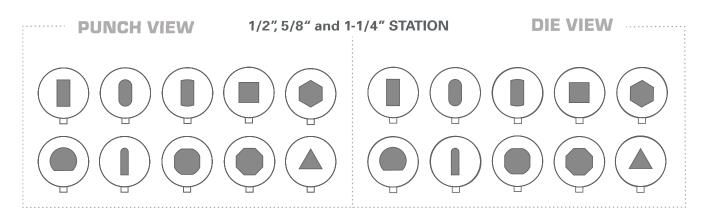
If specified: 1/16" (1.57mm) maximum rooftop shear can be given at N/C for any round or shape in 3-1/2" station. For rooftop shear on any round or shape in 1-1/4" station, add \$18.00.

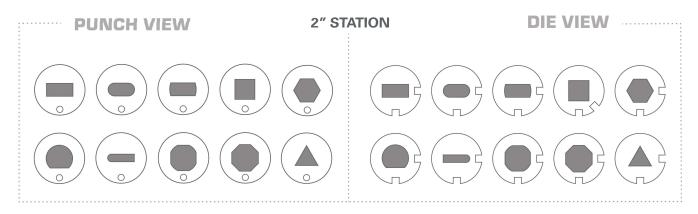


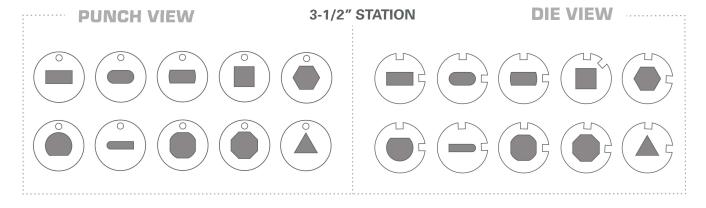
STANDARD SHAPES



STANDARD KEYING LOCATIONS

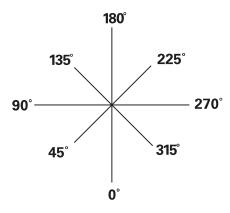


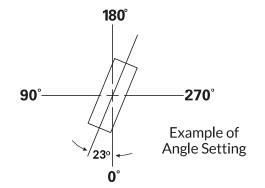






Wilson Tool Keying Diagram





SHAPE at single angles other than standard			
Station	Punch	Die	Guide or Stripper
1/2", 5/8"	N/C		N/C
1-1/4"			Not Applicable
2"			Not Applicable
3-1/2"			Not Applicable

No additional charge on 1-1/4" station for shape at 45° increments)

STANDARD keying, plus extra pins or keys for shapes other than 45° increments				
Station	Guide or Stripper			
1/2", 5/8"	Not Available	Not Available	Not Available	
1-1/4"	Not Available	Not Available	Not Available	
2"			Not Available	
3-1/2"			Not Available	

STANDARD keying, plus extra pins or keys for shapes at 45° increments					
Sta-	PUNC	CH	DII	E	Guide or
tion	Available Options	Add On Price	Available Options	Add On Price	Stripper
1-1/4"	0° & 45°		0° & 45°		Closed round guide
1-1/4"	0° & 180°		0° & 180°		or 2 fitted guides required
2'	45° increments		45° increments		Not Applicable
3-1/2"	45° increments		45° increments		Not Applicable

Die Clearance Selection Information			
Total Clearance			
Material	Minimum	Best	Maximum
Copper, 1/2 Hard	8%	12%	16%
Brass, 1/2 Hard	6%	11%	16%
Mild Steel	10%	15%	20%
Steel 0.50C	12%	18%	24%
Aluminum, Soft	5%	10%	15%
Stainless Steel	15%	20%	25%

% x Material Thickness = Total Clearance



1-1/4"	STATION	1	
Add on for ROUNDS			
Small Diameter	PUNCH	DIE	STRIPPER
.031061" [0.79 - 1.56mm]			N/C
.062092" [1.57 - 2.34mm]		N/C	N/C
.093249" [2.35 - 6.32mm]		N/C	N/C
Clearance < .004" [.10mm]			N/C
Add on for SHAPES			
Small Width	PUNCH	DIE	STRIPPER
.031039" [0.79 - 1.0mm]			
.040092" [1.01 - 2.34mm]		N/C	
'A' Dim < .437" [11.10mm]		N/C	N/C
Clearance < .004" [0.10mm]			N/C

2" ST	TATION		
Add on for ROUNDS			
Small Diameter	PUNCH	DIE	STRIPPER
<1.000 " [25.4mm]		N/C	N/C
Clearance < .004" [.10mm]			N/C
Add on for SHAPES			
Small Width	PUNCH	DIE	STRIPPER
.031039" [0.79 - 1.0mm]			
.040092" [1.01 - 2.34mm]			
'A' Dim < 1.150" [29.21mm]		N/C	N/C
1.150-1.249 [29.21-31.72mm] N/C N		N/C	
Clearance < .004" [0.10mm]			N/C

3-1/2	" STATIO	1	
Add on for ROUNDS			
Small Diameter	PUNCH	DIE	STRIPPER
<1.000 " [25.4mm]		N/C	N/C
Clearance < .004" [.10mm]			N/C
Add on for SHAPES			
Small Width	PUNCH	DIE	STRIPPER
.031039" [0.79 - 1.0mm]			
.040092" [1.01 - 2.34mm]			
'A' Dim < 1.150" [29.21mm] N/C N/C		N/C	
Clearance < .004" [0.10mm]			N/C

RADIUS OR 45° CHAMFER 4 CORNERS		
	RADIUS OR CHAMFER SIZE	PRICE
	.001062" [0.02 - 1.57mm]	
Punch	.063250" [1.58 - 6.35mm]	
	> .250" [6.35mm]	
	RADIUS OR CHAMFER SIZE	PRICE
Die	Any Size	

MAX 'A' DIMENSION	NOTES
A	Add \$7.50 to round or shape punch for : Extra straight before radius Extra back taper No back taper

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