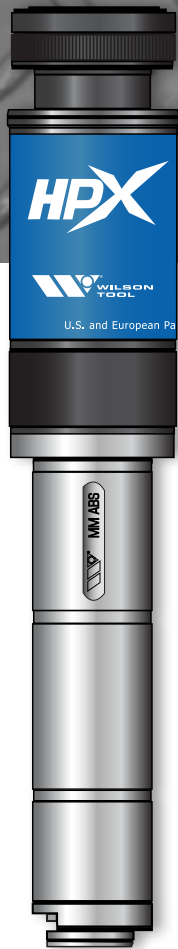


THICK TURRET TOOLING SOLUTIONS

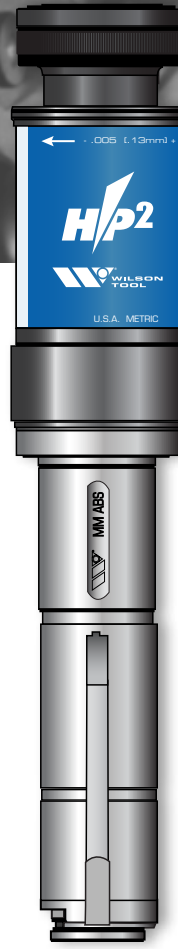
Standards, Specials and Accessories



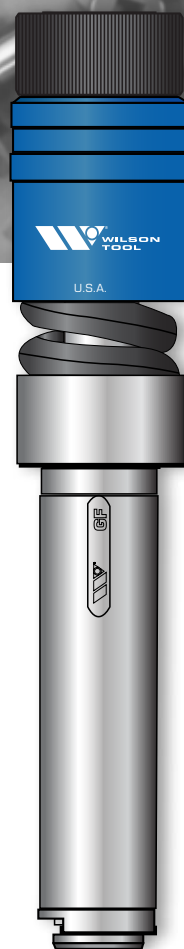
WILSON THICK TURRET TOOLING



HPX



HP2



basix

WILSON THICK TURRET TOOLING

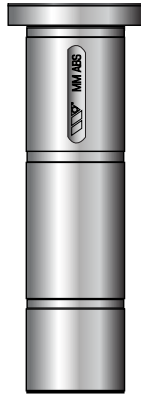


WILSON STYLE TOOLING SOLUTIONS

SMALL STATION ADVANTAGES	HPX	HP2	BASIX
Hardened guides for increased durability	●	●	●
Simple tool-less stripper change	●	●	●
Relieved strippers for extended guide life	●	●	●
Optima® coated punches available	●	●	●
Slug Hugger® 2 - maximum slug retention	●	●	●
Internal and external tool lubrication	●	●	
Machine lubrication capability (ABS/WLS only, all HPX)	●	●	
OEM compatible	●	●	
In machine adjustment for faster set ups	●	●	
Easy click length adjustment - no shims or tooling required	●	●	
Maximum available grind life	●	●	
EXP quick change technology	●		
Made standard from Ultima® premium tool steel	●		
Accepts round or shaped punches in the same assembly	●		



PUNCH AND GUIDE ASSEMBLY



GUIDE



EXP PUNCH



STRIPPER



DIE

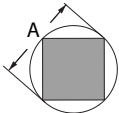
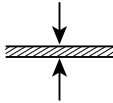


SHIM

PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
Round	14026	
Shape	14012	
Optima® Coating		
GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly only -Punch and stripper purchased separately.	14027	
GUIDE	CAT. NO.	PRICE
Round	13073	
Shape 0°	13074	
Shape 0° & 45°	13075	
Shape 0° & 90°	13076	
PUNCH	CAT. NO.	PRICE
Round	13904	
Shape	13905	
Optima® Coating		
STRIPPER	CAT. NO.	PRICE
Round	13045	
Shape	13152	
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2192	
Round Standard	1808	
Shape Slug Hugger® 2*	12959	
Shape Positive	1817	
Shape Negative	1818	
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.		
DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2101	
.030 [0.76mm] single	2721	
.060 [1.5mm] single	2104	
.010 [0.25mm] pack of 25	2208	
.030 [0.76mm] pack of 25	2722	
.060 [1.5mm] pack of 25	2172	

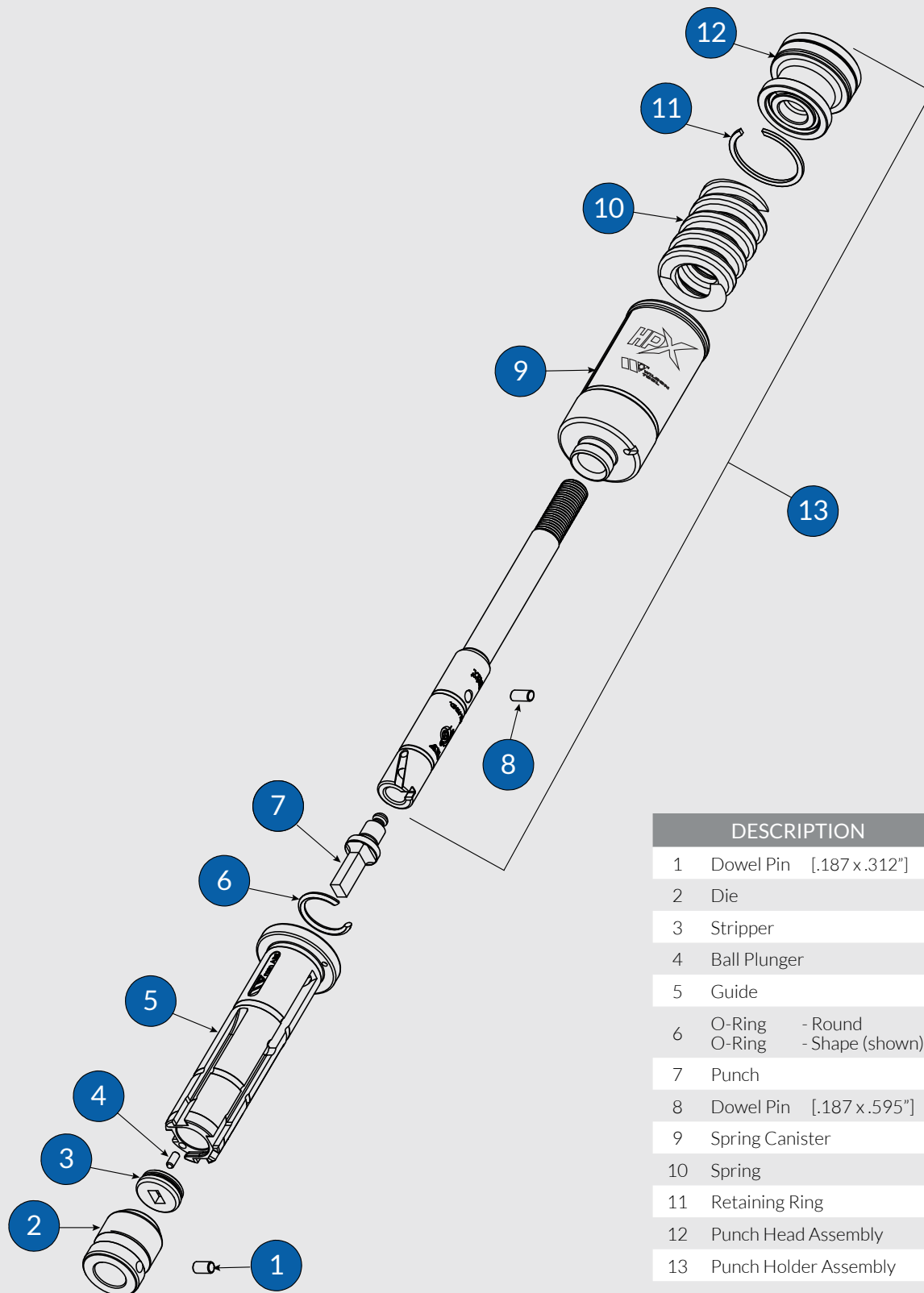


See this tool in action on the
Wilson Tool YouTube Channel

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HPX tooling is Wilson Tool's 'Best' product. It is loaded with all the great features of the HP2 plus the EXP quick change punch system with Ultima® tool steel.	.500" [12.7mm] 	.150" [3.81mm] 	Compatible with ABS and non-ABS machines. Ultima tool steel is standard in EXP punches. Ultima tool steel is available for dies.

STANDARD SHAPES

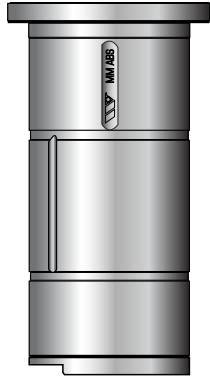




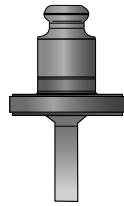
	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .312"]	6013
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980973
5	Guide	See Opposite Page
6	O-Ring - Round O-Ring - Shape (shown)	971303 13069
7	Punch	See Opposite Page
8	Dowel Pin [.187 x .595"]	6015
9	Spring Canister	14015
10	Spring	24291
11	Retaining Ring	24290
12	Punch Head Assembly	14133
13	Punch Holder Assembly	14014



PUNCH AND GUIDE ASSEMBLY



GUIDE



EXP PUNCH



STRIPPER



DIE



SHIM

PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
Round	14029	
Shape	14018	
Optima® Coating		

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly only -Punch and stripper purchased separately	14030	

GUIDE	CAT. NO.	PRICE
Round	13097	
Shape 0°	13098	
Shape 0° & 45°	13099	
Shape 0° & 90°	13100	

PUNCH	CAT. NO.	PRICE
Round	13916	
Shape	13917	
Optima® Coating		

STRIPPER	CAT. NO.	PRICE
Round	2433	
Shape	2432	

DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2194	
Round Standard	2021	
Shape Slug Hugger® 2*	12961	
Shape Positive	2025	
Shape Negative	2026	

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

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-standard features. See page 143..

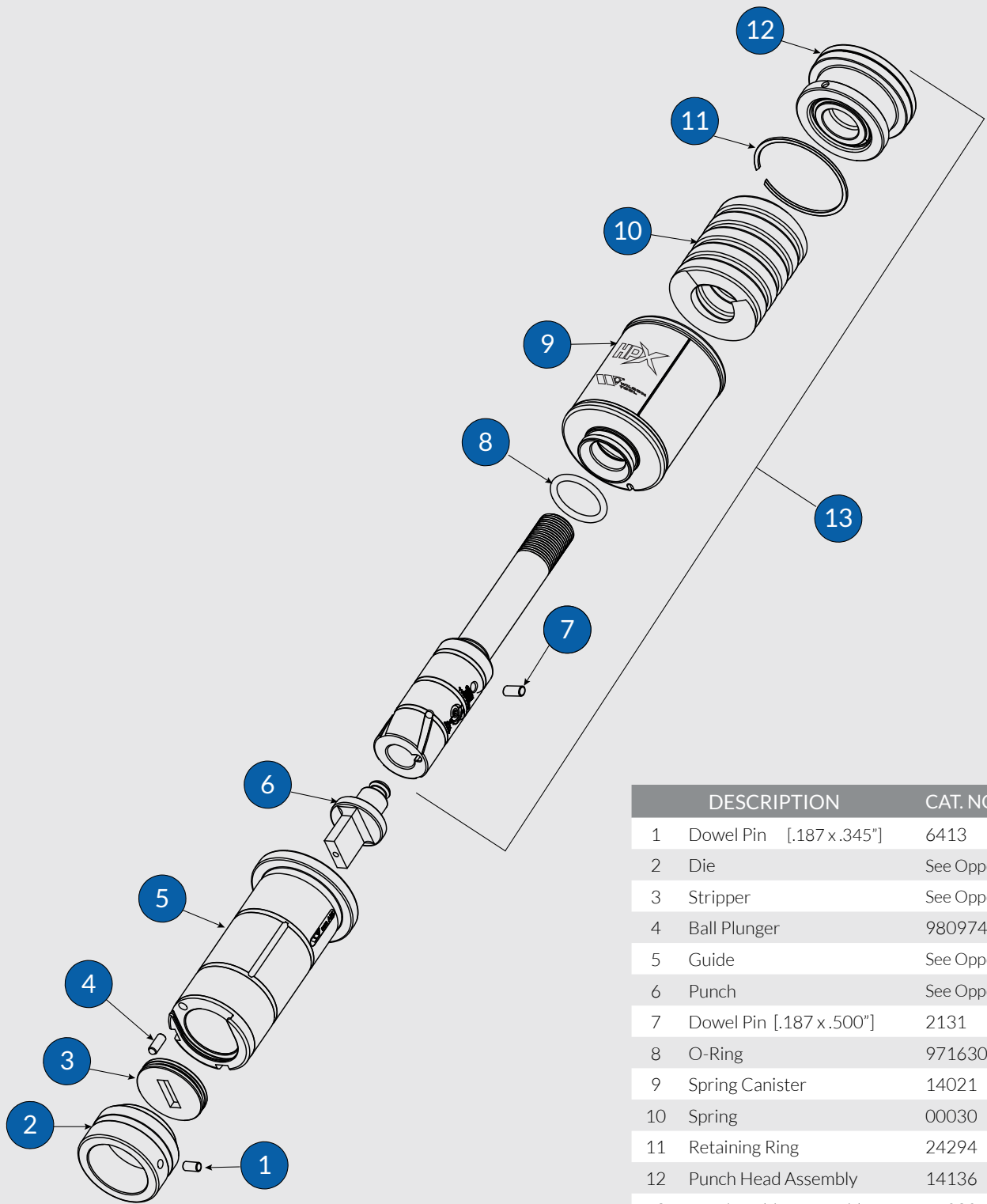


See this tool in action on the
Wilson Tool YouTube Channel

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HPX tooling is Wilson Tool's 'Best' product. It is loaded with all the great features of the HP2 plus the EXP quick change punch system with Ultima tool steel.	1.250" [31.8mm] 	.250" [6.35mm] 	Compatible with ABS and non-ABS machines. Ultima tool steel is standard in EXP punches. Ultima tool steel is available for dies

STANDARD SHAPES





	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .345"]	6413
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980974
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin [.187 x .500"]	2131
8	O-Ring	971630
9	Spring Canister	14021
10	Spring	00030
11	Retaining Ring	24294
12	Punch Head Assembly	14136
13	Punch Holder Assembly	14020



HP PUNCH HOLDER

Compatible with HP and HP2 Punch and Guide Assemblies

	CAT. NO.	PRICE
Round	13974	
Shape	13975	

HP ABS/WLS PUNCH HOLDER

Compatible with HP and HP2 Punch and Guide Assemblies

	CAT. NO.	PRICE
Round	13976	
Shape	13906	

STANDARD PUNCH HOLDER

Compatible with Wilson Basix Punch and Guide Assemblies

	CAT. NO.	PRICE
Round	13977	
Shape	13947	

ULTRA PUNCH HOLDER

Compatible with Ultra Punch and Guide Assemblies

	CAT. NO.	PRICE
Ultra	15535	



EXP PUNCH

Compatible with all punch holders above

	CAT. NO.	PRICE
Round	13904	
Shape	13905	
Optima® Coating		



See this tool in action on the Wilson Tool YouTube Channel

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
EXP punch holders allow you to convert your current Wilson Style punch and guide assemblies to the EXP quick change punch system. All EXP punches are Ultima tool steel.	.500" [12.7mm] 	.150" [3.81mm] 	Additional charges may apply to non-standard features. See page 143.

STANDARD SHAPES





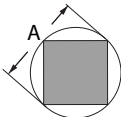
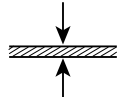
HP PUNCH HOLDER			HP ABS/WLS PUNCH HOLDER			STANDARD PUNCH HOLDER			ULTRA PUNCH HOLDER		
Compatible with HP and HP2 Punch and Guide Assemblies			Compatible with HP and HP2 Punch and Guide Assemblies			Compatible with Wilson Basix Punch and Guide Assemblies			Compatible with Ultra Punch and Guide Assemblies		
CAT. NO.	PRICE		CAT. NO.	PRICE		CAT. NO.	PRICE		CAT. NO.	PRICE	
Round	13988		Round	13990		Round	13991		Ultra	15537	
Shape	13989		Shape	13918		Shape	13972				



EXP PUNCH		
Compatible with all punch holders above		
EXP PUNCH	CAT. NO.	PRICE
Round	13916	
Shape	13917	
Optima® Coating		

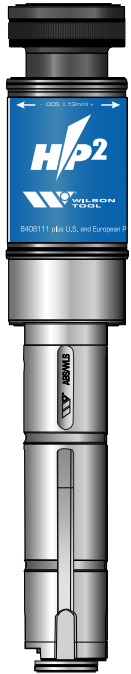


See this tool in action on the Wilson Tool YouTube Channel

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
EXP punch holders allow you to convert your current Wilson Style punch and guide assemblies to the EXP quick change punch system. All punches are Ultima tool steel.	1.250" [31.8mm] 	.250" [6.35mm] 	Additional charges may apply to non-standard features. See page 143.

STANDARD SHAPES





HP2 PUNCH AND GUIDE ASSEMBLY



PUNCH



GUIDE



STRIPPER



DIE



SHIM



HP SPRING PACK ASSEMBLY

HP2 PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE	ABS/WLS CAT. NO.	PRICE
Round	13767		13770	
Shape	13769		13772	

Optima® Coating				
Spring Pack Assembly	14150		14150	

HP PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	12781		12793	
Shape	13137		13146	

Optima® Coating				
Spring Pack Assembly	2747		2747	

PUNCH	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2405		2385	
Shape	2406		2389	

Optima® Coating				
GUIDE	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2821		2835	
Shape 0°	2822		2836	
Shape 0° & 45°	2903		2907	
Shape 0° & 90°	2904		2908	

STRIPPER	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	13044		13045	
Shape	13143		13152	

DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2192	
Round Standard	1808	
Shape Slug Hugger® 2*	12959	
Shape Positive	1817	
Shape Negative	1818	

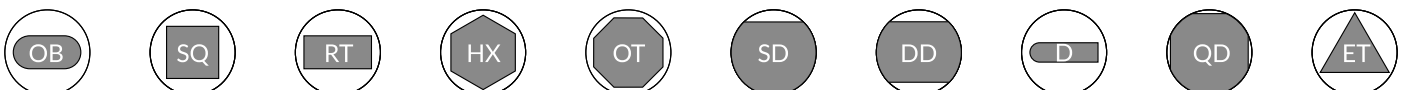
* Slug Hugger dies must be ordered punch size plus clearance.
Size restrictions apply.

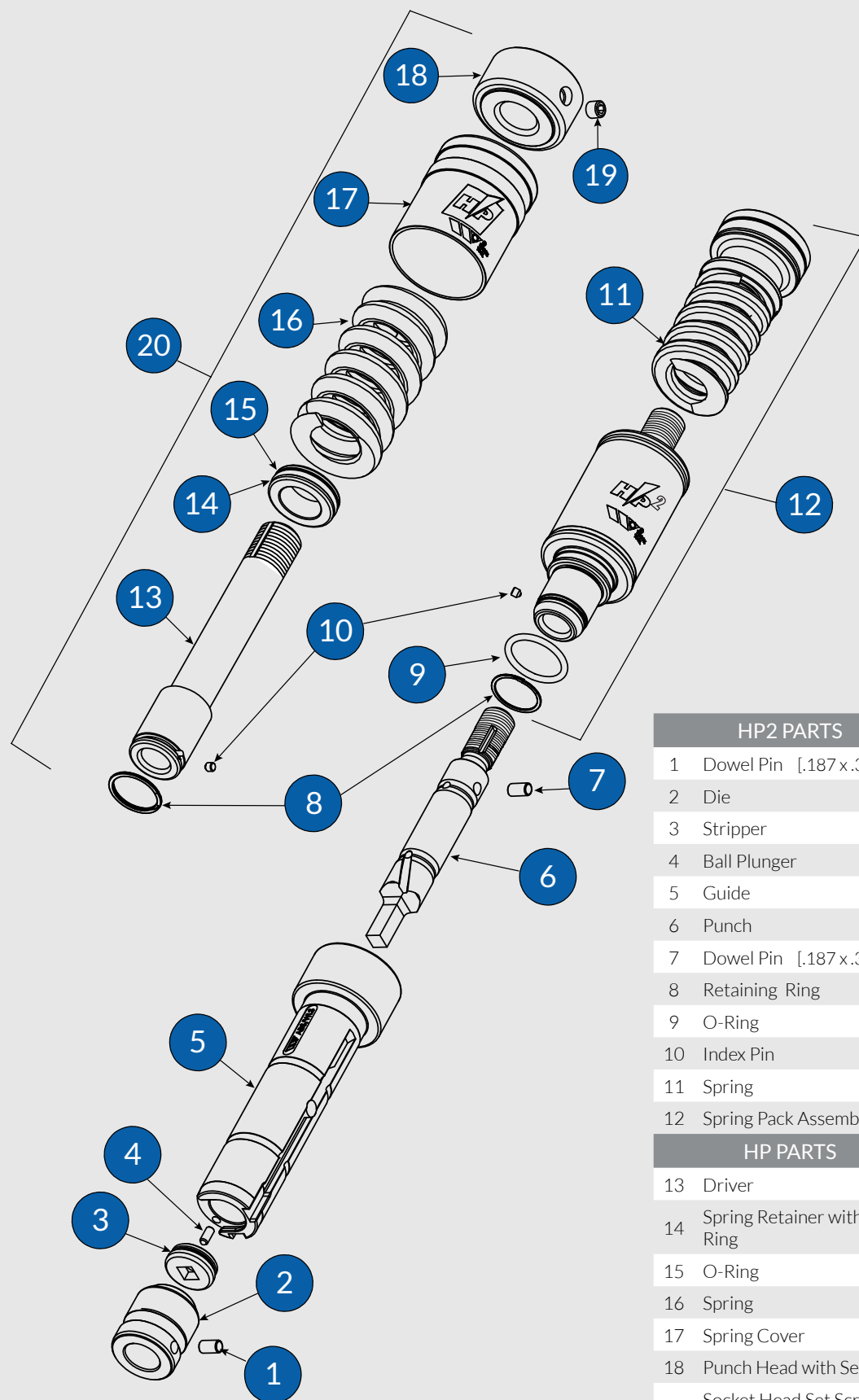
DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2101	
.030 [0.76mm] single	2721	
.060 [1.5mm] single	2104	
.010 [0.25mm] pack of 25	2208	
.030 [0.76mm] pack of 25	2722	
.060 [1.5mm] pack of 25	2172	

Additional charges may apply to non-standard features. See page 143.

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HP2 is Wilson Tools "Better" product. It offers great value with standard features like, easy click length adjustment, high grade tool steel, and is available in ABS/WLS.	.500" [12.7mm] 	.150" [3.81mm] 	HP punches and dies are available in Ultima tool steel upon request.

STANDARD SHAPES





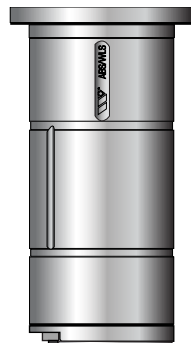
HP2 PARTS		CAT. NO.
1	Dowel Pin [.187 x .312"]	6013
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980973
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin [.187 x .312"]	6013
8	Retaining Ring	6853
9	O-Ring	2282
10	Index Pin	6873
11	Spring	24291
12	Spring Pack Assembly	14150
HP PARTS		CAT. NO.
13	Driver	2388
14	Spring Retainer with O-Ring	1804
15	O-Ring	2282
16	Spring	1803
17	Spring Cover	13052
18	Punch Head with Set Screw	2780
19	Socket Head Set Screw [Cone point M6 x 6mm]	6297
20	Spring Pack Assembly	2747



HP2 PUNCH AND GUIDE ASSEMBLY



PUNCH



GUIDE



HP SPRING PACK ASSEMBLY



STRIPPER



DIE



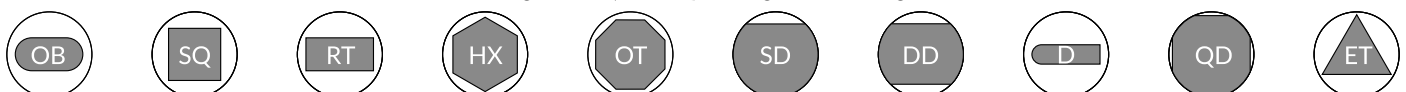
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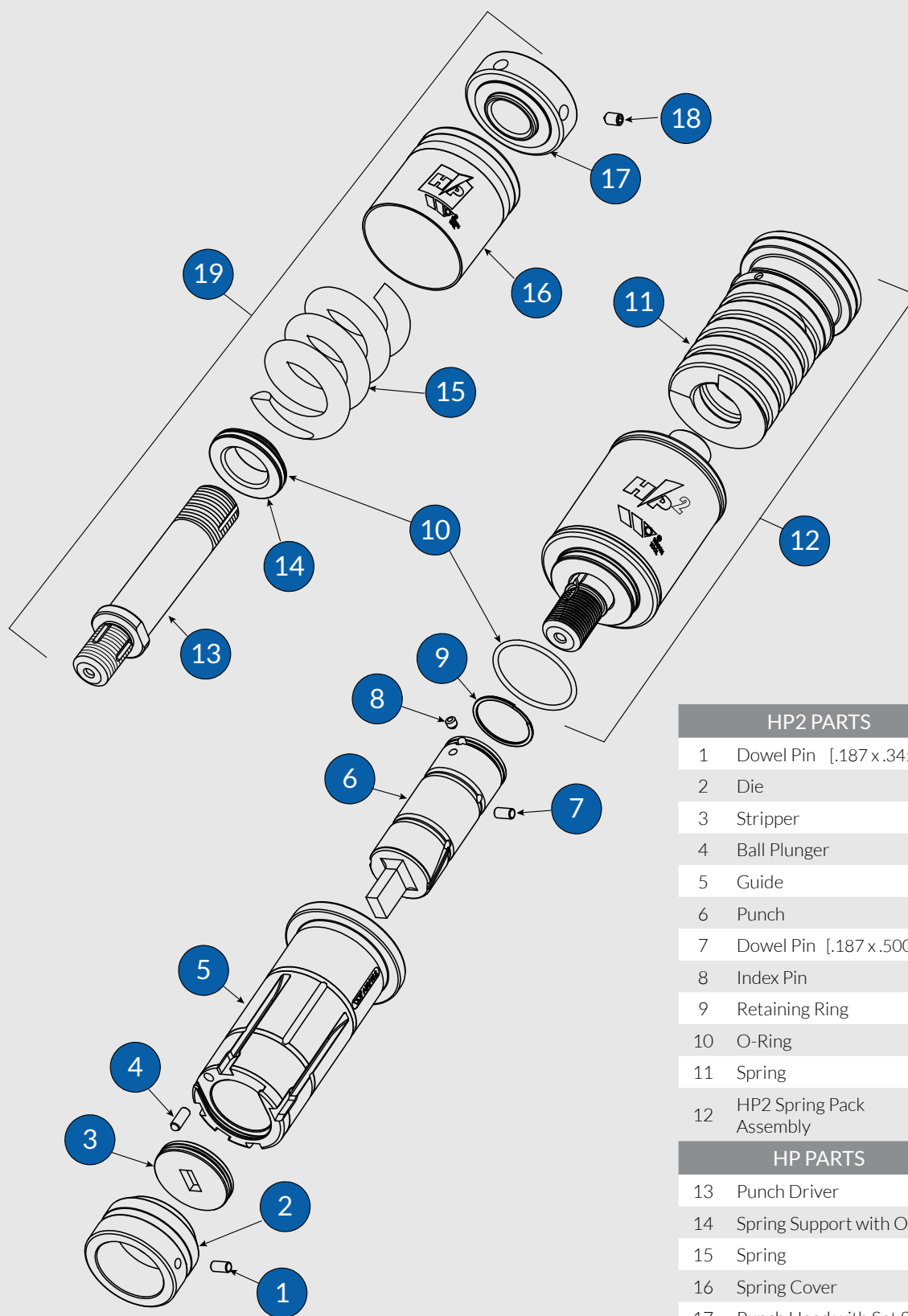
HP2 PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE	ABS/WLS CAT. NO.	PRICE
Round	13779		13782	
Shape	13781		13784	
Optima® Coating				
Spring Pack Assembly	14149		14149	
HP PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	12827		12831	
Shape	13167		13170	
Optima® Coating				
Spring Pack Assembly	2749		2749	
PUNCH	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2407		2398	
Shape	2408		2399	
Optima® Coating				
GUIDE	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2859		2881	
Shape 0°	2860		2882	
Shape 0° & 45°	2861		2883	
Shape 0° & 90°	2862		2884	
STRIPPER	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	1890		2433	
Shape	1917		2432	
DIE	CAT. NO.	PRICE		
Round Slug Hugger®*	2194			
Round Standard	2021			
Shape Slug Hugger® 2*	12961			
Shape Positive	2025			
Shape Negative	2026			
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.				
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-standard features. See page 143.

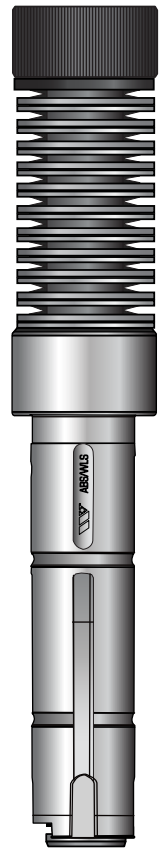
DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HP2 is Wilson Tools "Better" product. It offers great value with standard features like, easy click length adjustment, high grade tool steel, and is available in ABS/WLS.	1.250" [31.8mm] 	.250" [6.35mm] 	HP punches and dies are available in Ultima tool steel upon request.

STANDARD SHAPES





HP2 PARTS		CAT. NO.
1	Dowel Pin [.187 x .345"]	6431
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980974
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin [.187 x .500"]	2131
8	Index Pin	6874
9	Retaining Ring	2803
10	O-Ring	2283
11	Spring	00030
12	HP2 Spring Pack Assembly	14149
HP PARTS		CAT. NO.
13	Punch Driver	13556
14	Spring Support with O-Ring	1824
15	Spring	1953
16	Spring Cover	2732
17	Punch Head with Set Screw	2781
18	Socket Head Set Screw [Cone point M6 x 10mm]	6206
19	HP Spring Pack Assembly	2749



PUNCH
AND GUIDE
ASSEMBLY



PUNCH

GUIDE

STRIPPER

DIE

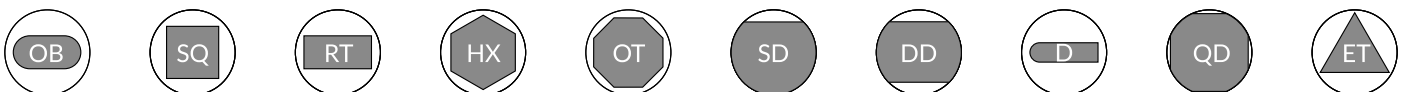
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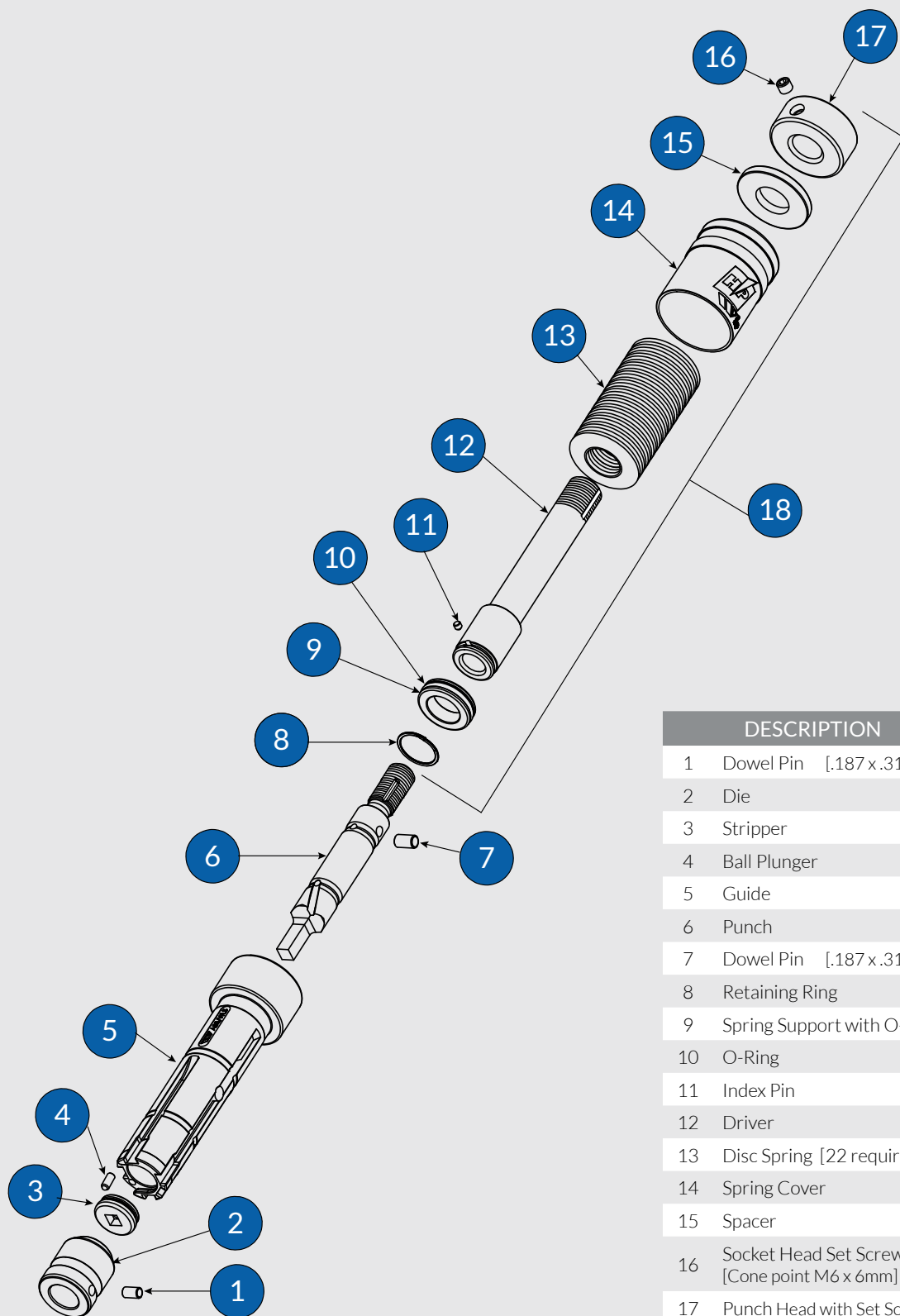
HP PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE	ABS/WLS CAT. NO.	PRICE
Round	12857		12861	
Shape	13182		13185	
Optima® Coating				
PUNCH	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2405		2385	
Shape	2406		2389	
Optima® Coating				
GUIDE	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2821		2835	
Shape 0°	2822		2836	
Shape 0° & 45°	2903		2907	
Shape 0° & 90°	2904		2908	
STRIPPER	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	13044		13045	
Shape	13143		13152	
DIE	CAT. NO.	PRICE		
Round Slug Hugger®*	2192			
Round Standard	1808			
Shape Slug Hugger® 2*	12959			
Shape Positive	1817			
Shape Negative	1818			
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.				
DIE SHIM	CAT. NO.	PRICE		
.010 [0.25mm] single	2101			
.030 [0.76mm] single	2721			
.060 [1.5mm] single	2104			
.010 [0.25mm] pack of 25	2208			
.030 [0.76mm] pack of 25	2722			
.060 [1.5mm] pack of 25	2172			

Additional charges may apply to non-standard features. See page 143.

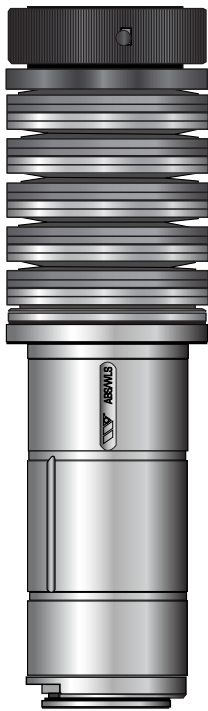
DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HP heavy duty tooling assemblies are designed to deliver the best performance when punching thicker materials up to .250" [6.35mm].	.500" [12.7mm] 	.250" [6.35mm] 	HP punches and dies are available in Ultima tool steel upon request.

STANDARD SHAPES





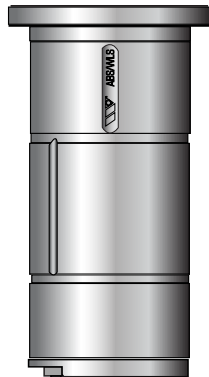
	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .312"]	6013
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980973
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin [.187 x .312"]	6013
8	Retaining Ring	6853
9	Spring Support with O-Ring	2295
10	O-Ring	2282
11	Index Pin	6873
12	Driver	2388
13	Disc Spring [22 required]	2297
14	Spring Cover	13052
15	Spacer	2296
16	Socket Head Set Screw [Cone point M6 x 6mm]	6297
17	Punch Head with Set Screw	2788
18	Spring Pack Assembly	2477



PUNCH
AND GUIDE
ASSEMBLY



PUNCH



GUIDE



STRIPPER



DIE



SHIM

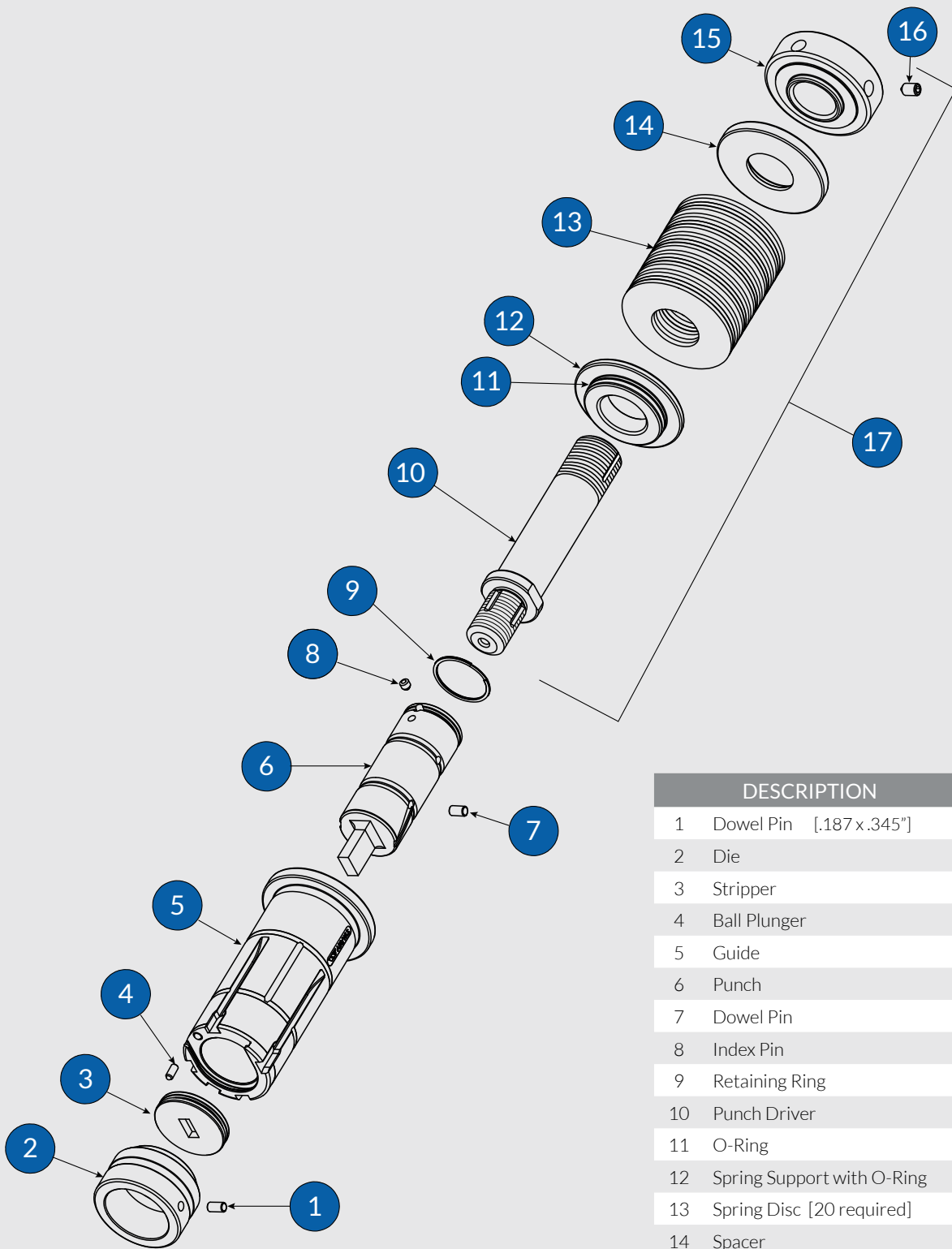
HP PUNCH AND GUIDE ASSEMBLY	CAT. NO	PRICE	ABS/WLS CAT. NO.	PRICE
Round	12873		12877	
Shape	13194		13197	
Optima® Coating				
PUNCH	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2407		2398	
Shape	2408		2399	
Optima® Coating				
GUIDE	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2859		2881	
Shape 0°	2860		2882	
Shape 0° & 45°	2861		2883	
Shape 0° & 90°	2862		2884	
STRIPPER	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	1890		2433	
Shape	1917		2432	
DIE	CAT. NO.	PRICE		
Round Slug Hugger®*	2194			
Round Standard	2021			
Shape Slug Hugger® 2*	12961			
Shape Positive	2025			
Shape Negative	2026			
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.				
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-standard features. See page 143.

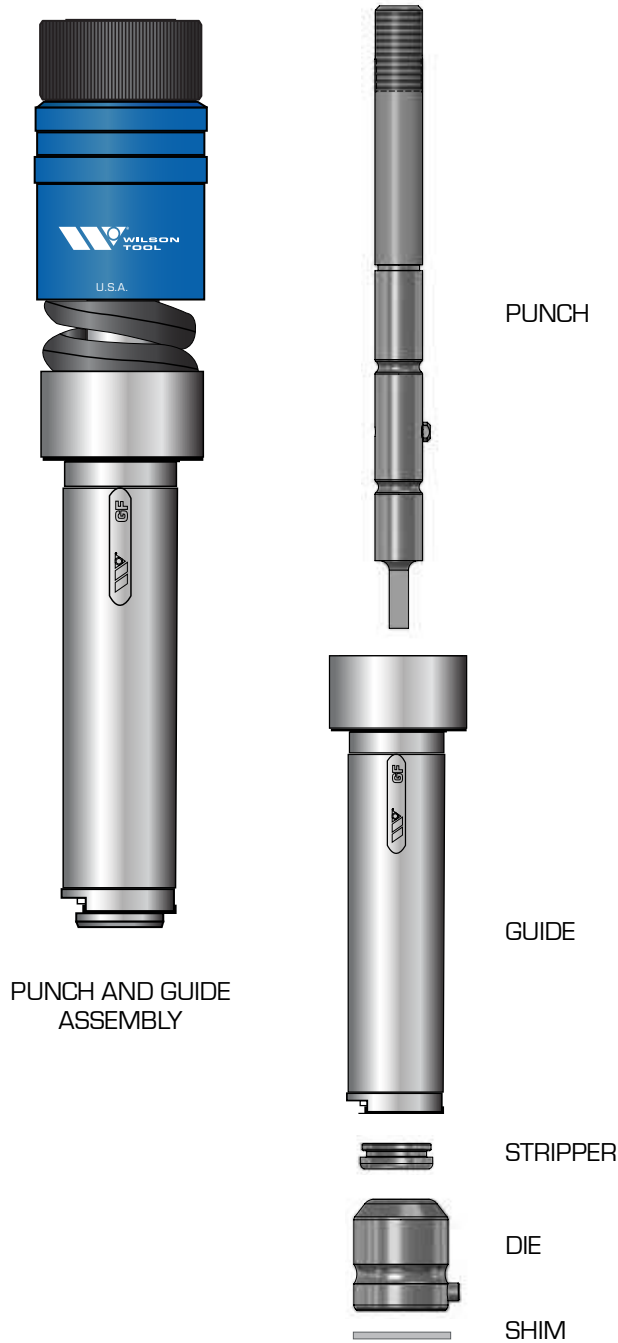
DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HP heavy duty tooling assemblies are designed to deliver the best performance when punching thicker materials up to .312" [7.93mm].	1.250" [31.8mm] 	.312" [7.93mm] 	HP punches and dies are available in Ultima tool steel upon request.

STANDARD SHAPES





	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .345"]	6431
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980974
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin	2131
8	Index Pin	6874
9	Retaining Ring	2803
10	Punch Driver	13556
11	O-Ring	2283
12	Spring Support with O-Ring	2435
13	Spring Disc [20 required]	2302
14	Spacer	2434
15	Punch Head with Set Screw	2781
16	Socket Head Set Screw [Cone point M6 x 10mm]	6206
17	Spring Pack Assembly	2478



PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
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Round	13453	
-------	-------	--

Shape	13455	
-------	-------	--

Optima® Coating		
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PUNCH	CAT. NO.	PRICE
-------	----------	-------

Round	1807	
-------	------	--

Shape	1816	
-------	------	--

Optima® Coating		
-----------------	--	--

GUIDE	CAT. NO.	PRICE
-------	----------	-------

Round	2821	
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Shape 0°	2822	
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Shape 0° & 45°	2903	
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Shape 0° & 90°	2904	
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STRIPPER	CAT. NO.	PRICE
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Round	13044	
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Shape	13143	
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DIE	CAT. NO.	PRICE
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Round Slug Hugger®*	2192	
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Round Standard	1808	
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Shape Slug Hugger® 2*	12959	
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Shape Positive	1817	
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Shape Negative	1818	
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* Slug Hugger dies must be ordered punch size plus clearance.
Size restrictions apply.

PUNCH SHIM	CAT. NO.	PRICE
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.060 [1.5mm] single	1898	
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.060 [1.5mm] pack of 25	2167	
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DIE SHIM	CAT. NO.	PRICE
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.010 [0.25mm] single	2101	
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.030 [0.76mm] single	2721	
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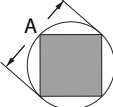
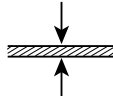
.060 [1.5mm] single	2104	
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.010 [0.25mm] pack of 25	2208	
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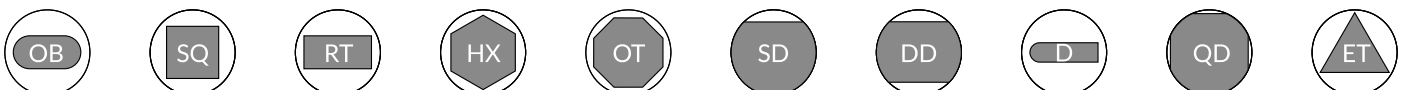
.030 [0.76mm] pack of 25	2722	
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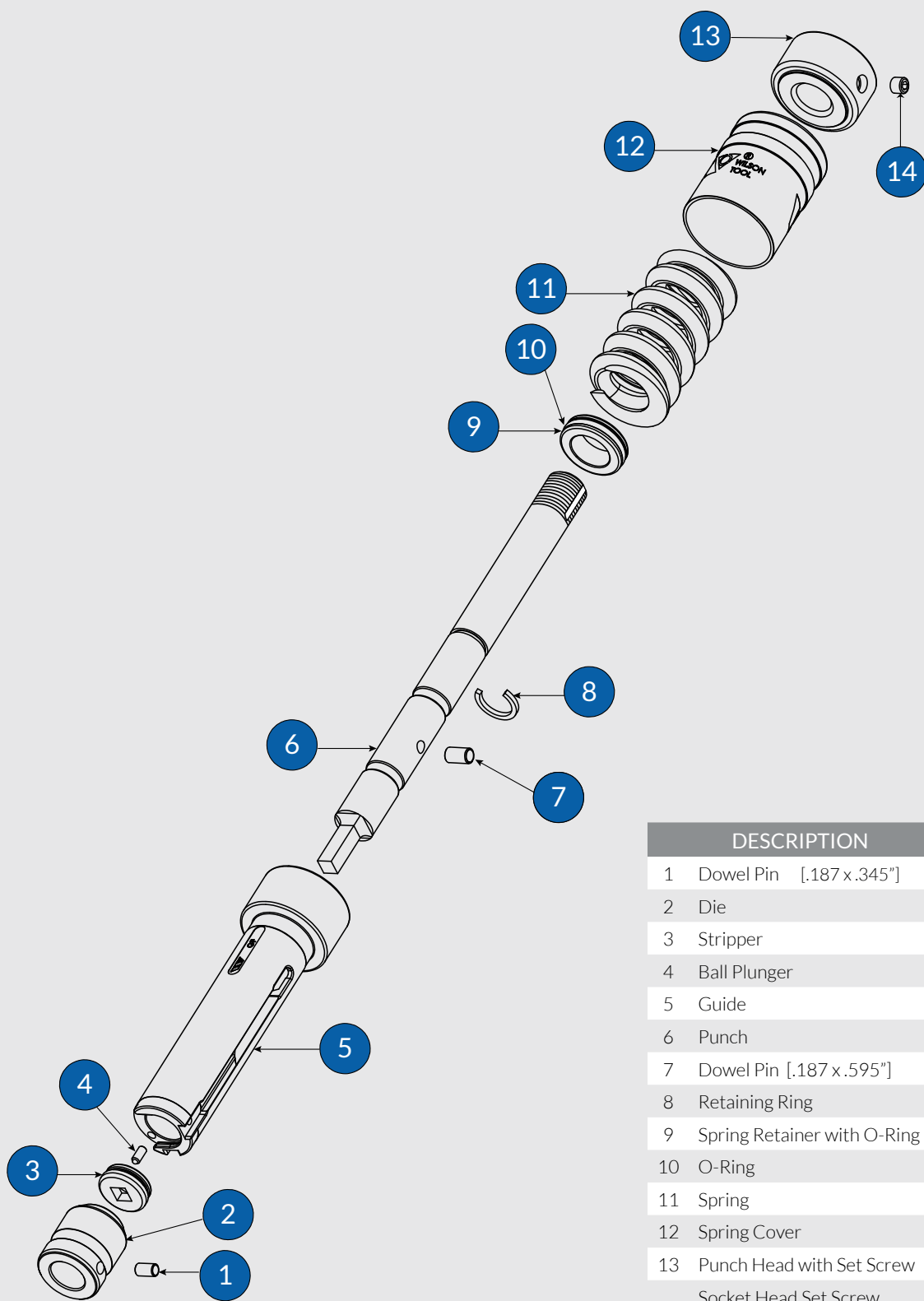
.060 [1.5mm] pack of 25	2172	
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Additional charges may apply to non-standard features.
See page 143.

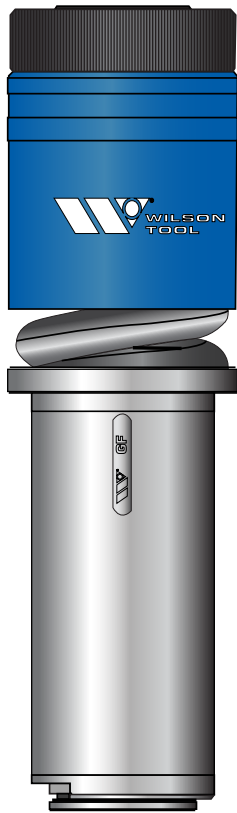
DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Basix assemblies are designed to deliver durability and performance at a lower cost with basic features.	.500" [12.7mm] 	.150" [3.81mm] 	Dies are available in Ultima tool steel upon request.

STANDARD SHAPES

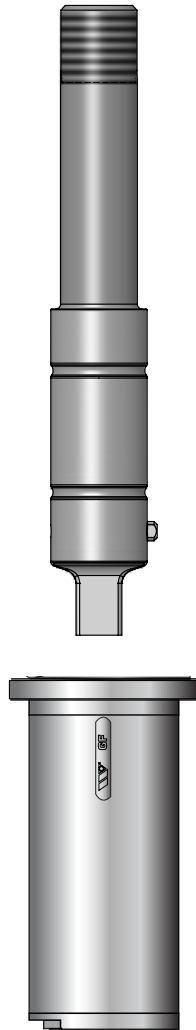




	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .345"]	6431
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980973
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin [.187 x .595"]	6015
8	Retaining Ring	1805
9	Spring Retainer with O-Ring	1804
10	O-Ring	2282
11	Spring	1803
12	Spring Cover	2731
13	Punch Head with Set Screw	2780
14	Socket Head Set Screw [Cone point M6 x 6mm]	6297



PUNCH AND GUIDE
ASSEMBLY



PUNCH

GUIDE



STRIPPER



DIE



SHIM

PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
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Round	2851	
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Shape	2853	
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Optima® Coating		
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PUNCH	CAT. NO.	PRICE
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Round	1827	
-------	------	--

Shape	1839	
-------	------	--

Optima® Coating		
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GUIDE	CAT. NO.	PRICE
-------	----------	-------

Round	2859	
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Shape 0°	2860	
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Shape 0° & 45°	2961	
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Shape 0° & 90°	2862	
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STRIPPER	CAT. NO.	PRICE
----------	----------	-------

Round	1890	
-------	------	--

Shape	1917	
-------	------	--

DIE	CAT. NO.	PRICE
-----	----------	-------

Round Slug Hugger®*	2194	
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Round Standard	2021	
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Shape Slug Hugger® 2*	12961	
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Shape Positive	2025	
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Shape Negative	2026	
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* Slug Hugger dies must be ordered punch size plus clearance.
Size restrictions apply.

PUNCH SHIM	CAT. NO.	PRICE
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.060 [1.5mm] single	1899	
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.060 [1.5mm] pack of 25	2168	
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DIE SHIM	CAT. NO.	PRICE
----------	----------	-------

.010 [0.25mm] single	2097	
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.030 [0.76mm] single	2723	
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.060 [1.5mm] single	2100	
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.010 [0.25mm] pack of 25	2209	
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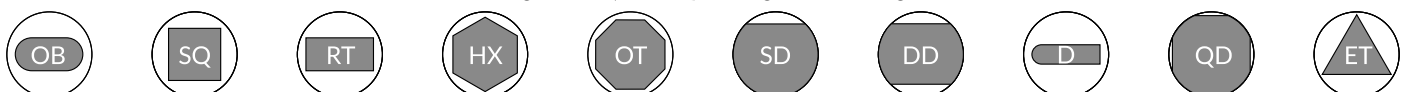
.030 [0.76mm] pack of 25	2724	
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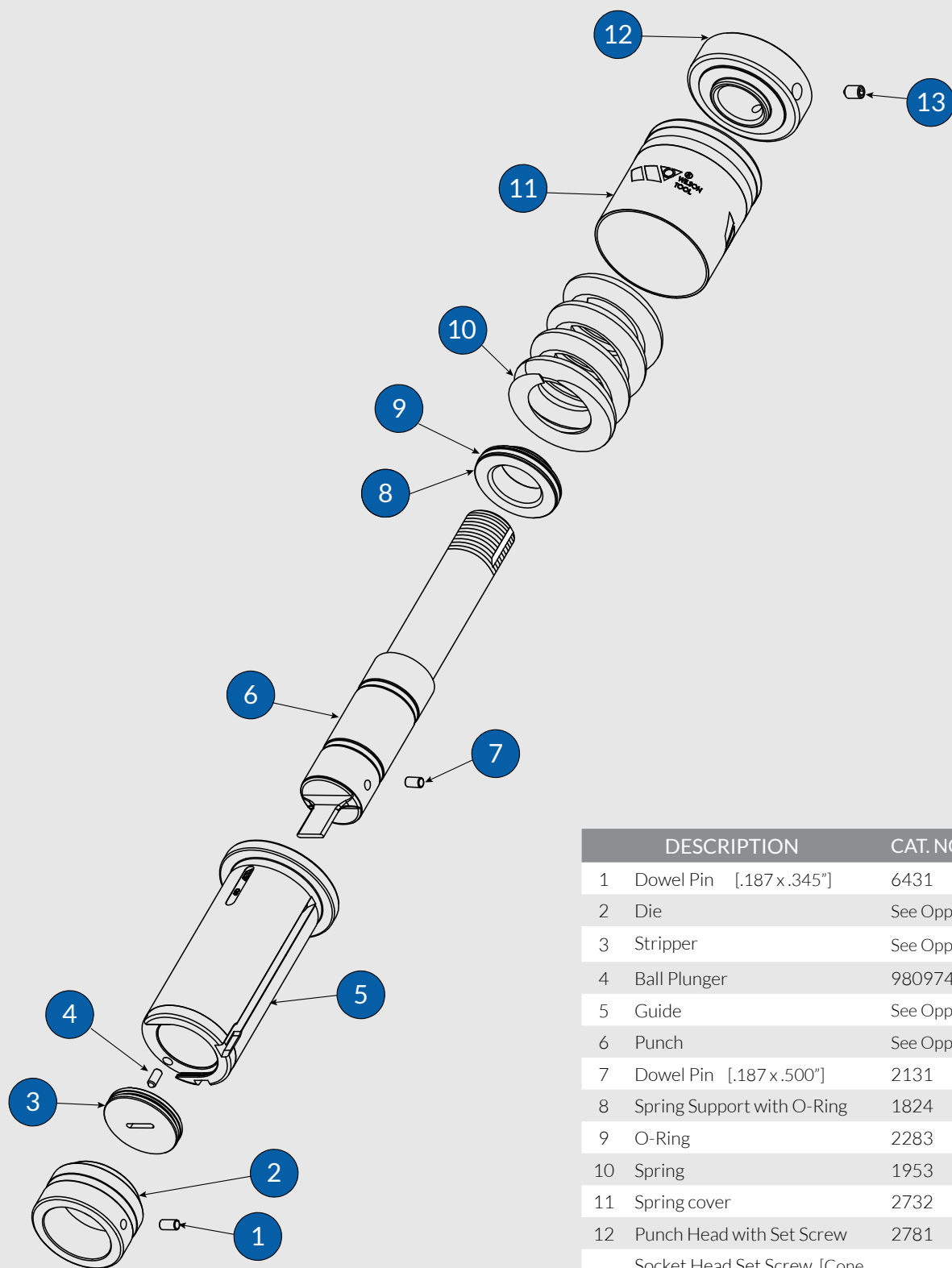
.060 [1.5mm] pack of 25	2173	
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Additional charges may apply to non-standard features.
See page 143.

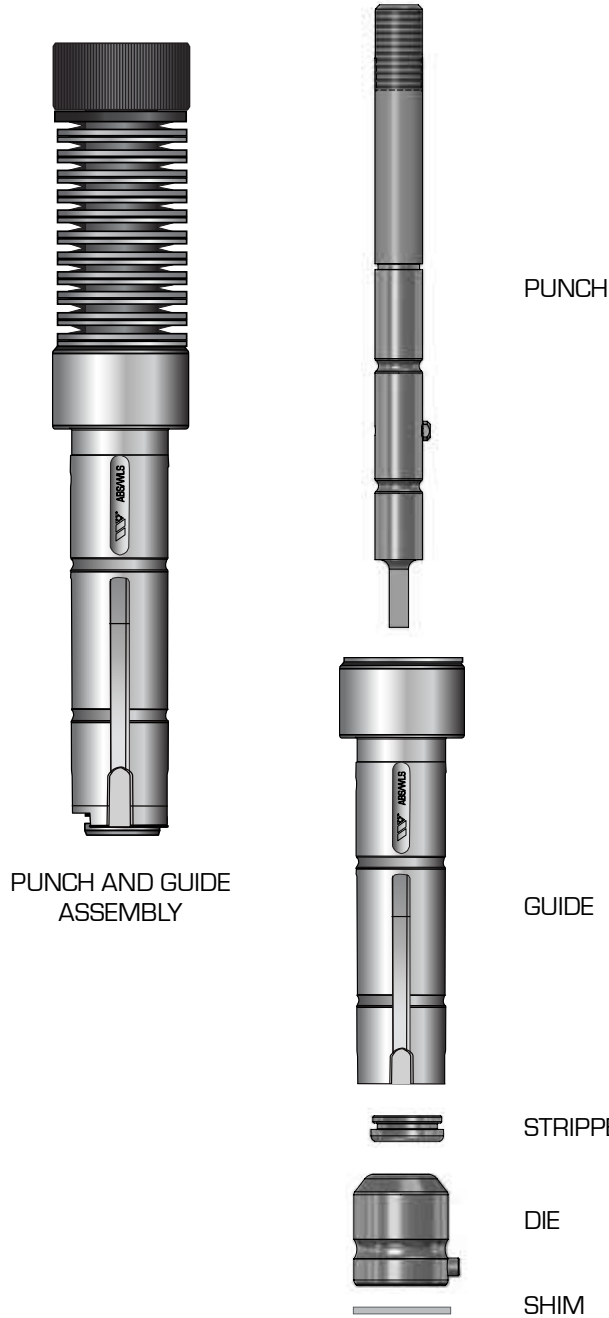
DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Basix assemblies are designed to deliver durability and performance at a lower cost with basic features.	1.250" [31.8mm] 	.250" [6.35mm] 	Dies are available in Ultima tool steel upon request.

STANDARD SHAPES





	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .345"]	6431
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980974
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin [.187 x .500"]	2131
8	Spring Support with O-Ring	1824
9	O-Ring	2283
10	Spring	1953
11	Spring cover	2732
12	Punch Head with Set Screw	2781
13	Socket Head Set Screw [Cone point M6 x 10mm]	6206



PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
Round	13514	
Shape	13516	

Optima® Coating		
PUNCH	CAT. NO.	PRICE
Round	2303	
Shape	2304	

Optima® Coating		
GUIDE	CAT. NO.	PRICE
Round	2821	
Shape 0°	2822	
Shape 0° & 45°	2903	
Shape 0° & 90°	2904	

STRIPPER	CAT. NO.	PRICE
Round	13044	
Shape	13143	

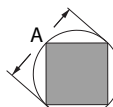
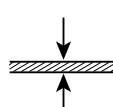
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2192	
Round Standard	1808	
Shape Slug Hugger® 2*	12959	
Shape Positive	1817	
Shape Negative	1818	

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

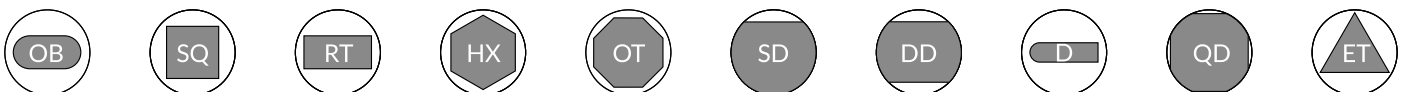
PUNCH SHIM	CAT. NO.	PRICE
.060 [1.5mm] single	1898	
.060 [1.5mm] pack of 25	2167	

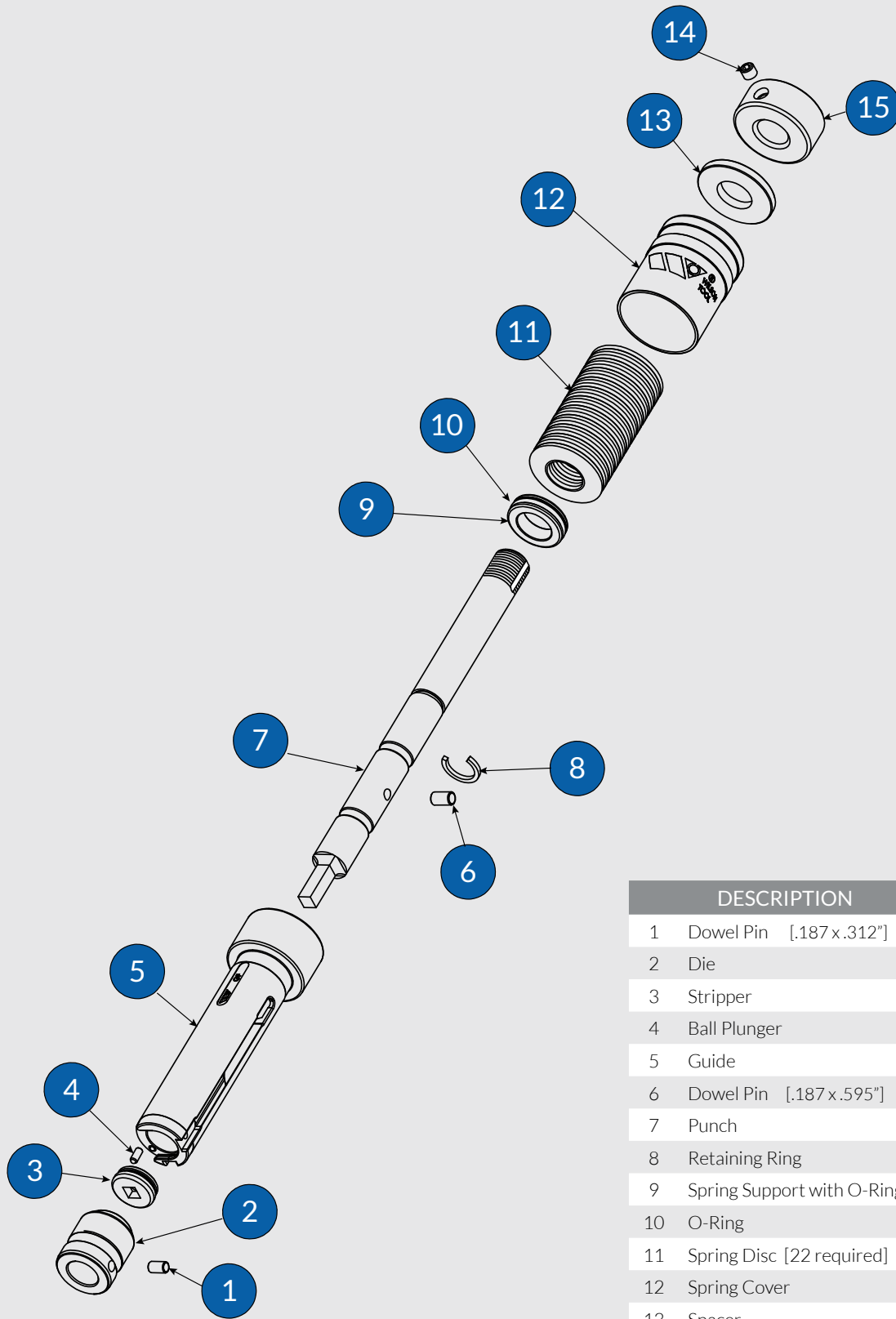
DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2101	
.030 [0.76mm] single	2721	
.060 [1.5mm] single	2104	
.010 [0.25mm] pack of 25	2208	
.030 [0.76mm] pack of 25	2722	
.060 [1.5mm] pack of 25	2172	

Additional charges may apply to non-standard features.
See page 143.

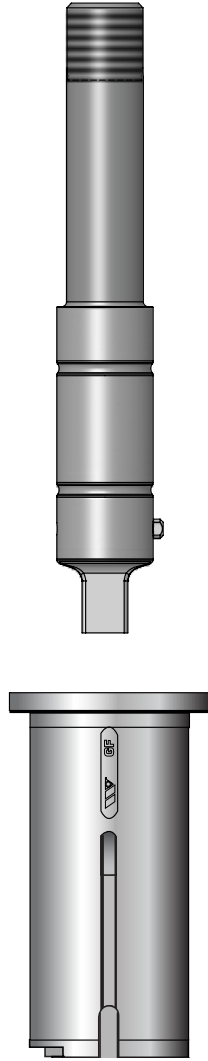
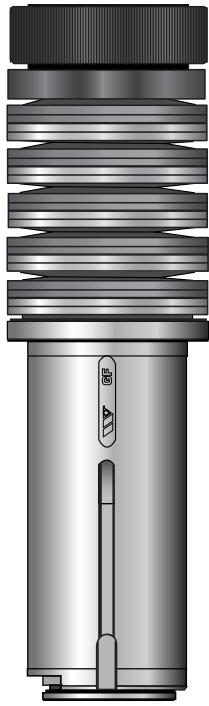
DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Basix heavy duty assemblies are designed to deliver the best performance when punching thicker materials up to .250" [6.35mm].	.500" [12.7mm] 	.250" [6.35mm] 	Dies are available in Ultima tool steel upon request.

STANDARD SHAPES



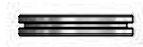


	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .312"]	6013
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980973
5	Guide	See Opposite Page
6	Dowel Pin [.187 x .595"]	6015
7	Punch	See Opposite Page
8	Retaining Ring	1805
9	Spring Support with O-Ring	2295
10	O-Ring	2282
11	Spring Disc [22 required]	2297
12	Spring Cover	2731
13	Spacer	2296
14	Socket Head Set Screw [Cone point M6 x 6mm]	6297
15	Punch Head with Set Screw	2788



PUNCH

GUIDE



STRIPPER



DIE



SHIM

PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
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Round	13520	
Shape	13522	

Optima® Coating		
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PUNCH	CAT. NO.	PRICE
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Round	2305	
Shape	2306	

Optima® Coating		
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GUIDE	CAT. NO.	PRICE
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Round	2859	
Shape 0°	2860	
Shape 0° & 45°	2961	
Shape 0° & 90°	2862	

STRIPPER	CAT. NO.	PRICE
----------	----------	-------

Round	1890	
Shape	1917	

DIE	CAT. NO.	PRICE
-----	----------	-------

Round Slug Hugger®*	2194	
Round Standard	2021	
Shape Slug Hugger® 2*	12961	
Shape Positive	2025	
Shape Negative	2026	

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

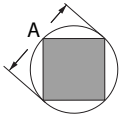
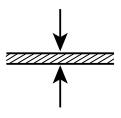
PUNCH SHIM	CAT. NO.	PRICE
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.060 [1.5mm] single	1899	
.060 [1.5mm] pack of 25	2168	

DIE SHIM	CAT. NO.	PRICE
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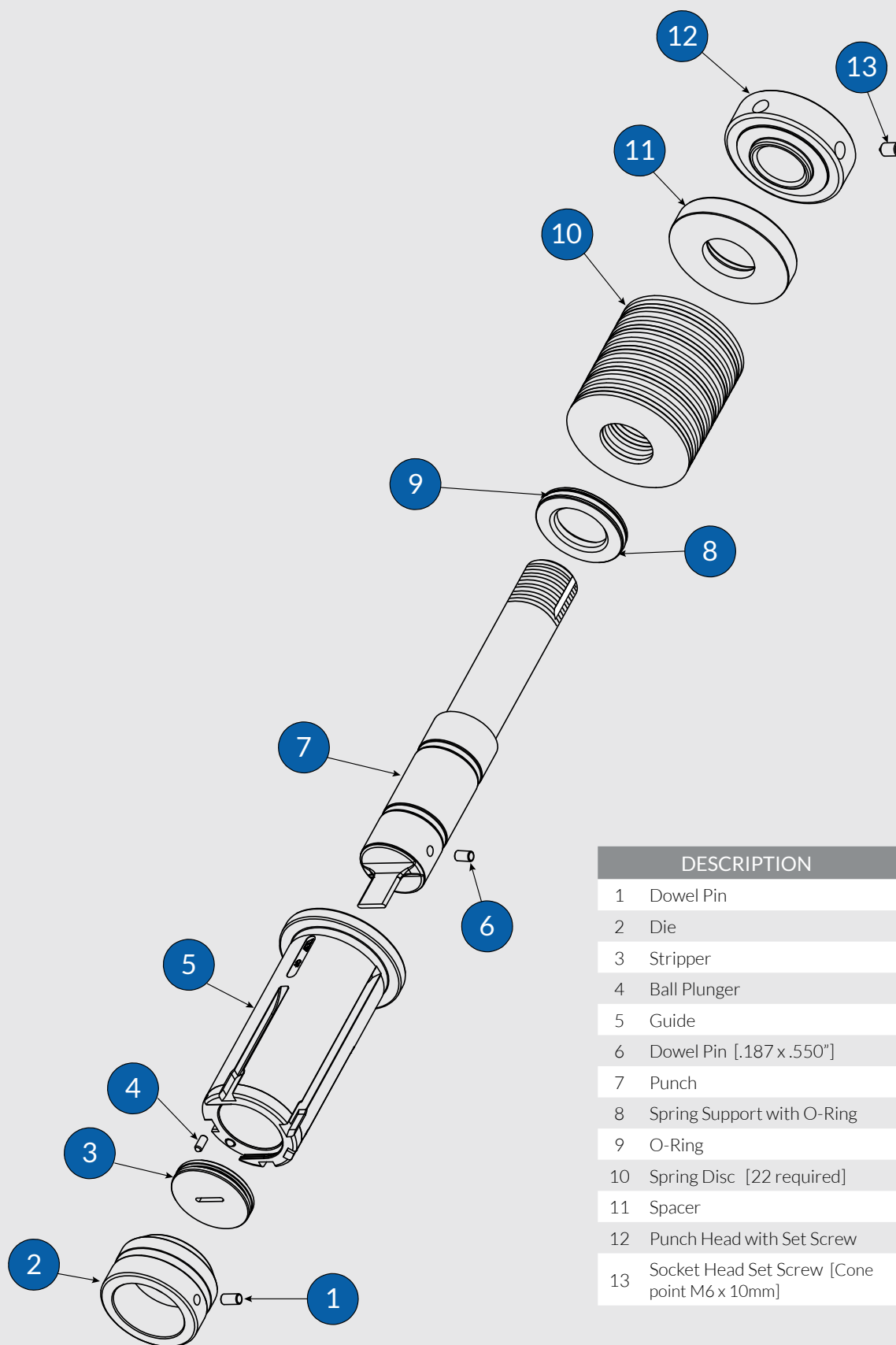
.010 [0.25mm] single	2097	
.030 [0.76mm] single	2723	
.060 [1.5mm] single	2100	
.010 [0.25mm] pack of 25	2209	
.030 [0.76mm] pack of 25	2724	
.060 [1.5mm] pack of 25	2173	

Additional charges may apply to non-standard features.
See page 143.

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Basix heavy duty assemblies are designed to deliver the best performance when punching thicker materials up to .312" [7.93mm].	1.250" [31.8mm] 	.312" [7.93mm] 	Dies are available in Ultima tool steel upon request.

STANDARD SHAPES





	DESCRIPTION	CAT. NO.
1	Dowel Pin	6431
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980974
5	Guide	See Opposite Page
6	Dowel Pin [.187 x .550"]	2131
7	Punch	See Opposite Page
8	Spring Support with O-Ring	2300
9	O-Ring	2283
10	Spring Disc [22 required]	2302
11	Spacer	2301
12	Punch Head with Set Screw	2781
13	Socket Head Set Screw [Cone point M6 x 10mm]	6206

WILSON THICK TURRET TOOLING



WILSON THICK TURRET TOOLING



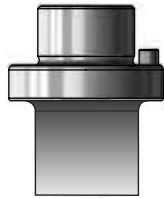
WILSON STYLE TOOLING SOLUTIONS

LARGE STATION ADVANTAGES

Fast and simple push button length adjustment
Made from hardened tool steel for increased durability
Up to 50% more bearing surface to reduce side loading
Optima® coated keys for superior wear resistance
Internal and external lubrication
ABS/WLS machine lubrication capability
External keyways at 0°, 90°, and 135°
Achieves angles of 0°, 90°, 135°, 180°, 270° and 315°
OEM compatible
Punches made from premium hardened tool steel
Optima® coated punches available
Relieved strippers for maximum grind life
Push button lock release for quick stripper plate removal



GUIDE
ASSEMBLY



PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly	5552	
ABS /WLS Assembly	5508	

PUNCH	CAT. NO.	PRICE
Round	5026	
Shape	5025	

Optima® Coating

HEAVY DUTY PUNCH	CAT. NO.	PRICE
Round .500-1.250 [12.7 - 31.75mm]	5117	
Round 1.251 - 1.625 [31.77 - 41.27mm]	5120	
Shape .500-1.250 [12.7 - 31.75mm]	5118	
Shape 1.251 - 1.625 [31.77 - 41.27mm]	5119	

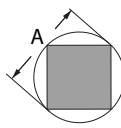
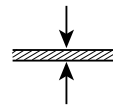
STRIPPER	CAT. NO.	PRICE
Round	1848	
Shape	1854	
Round ABS	5150	
Shape ABS	5151	

DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2196	
Round Standard	1850	
Shape Slug Hugger® 2*	12964	
Shape Positive	1855	
Shape Negative	1856	

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

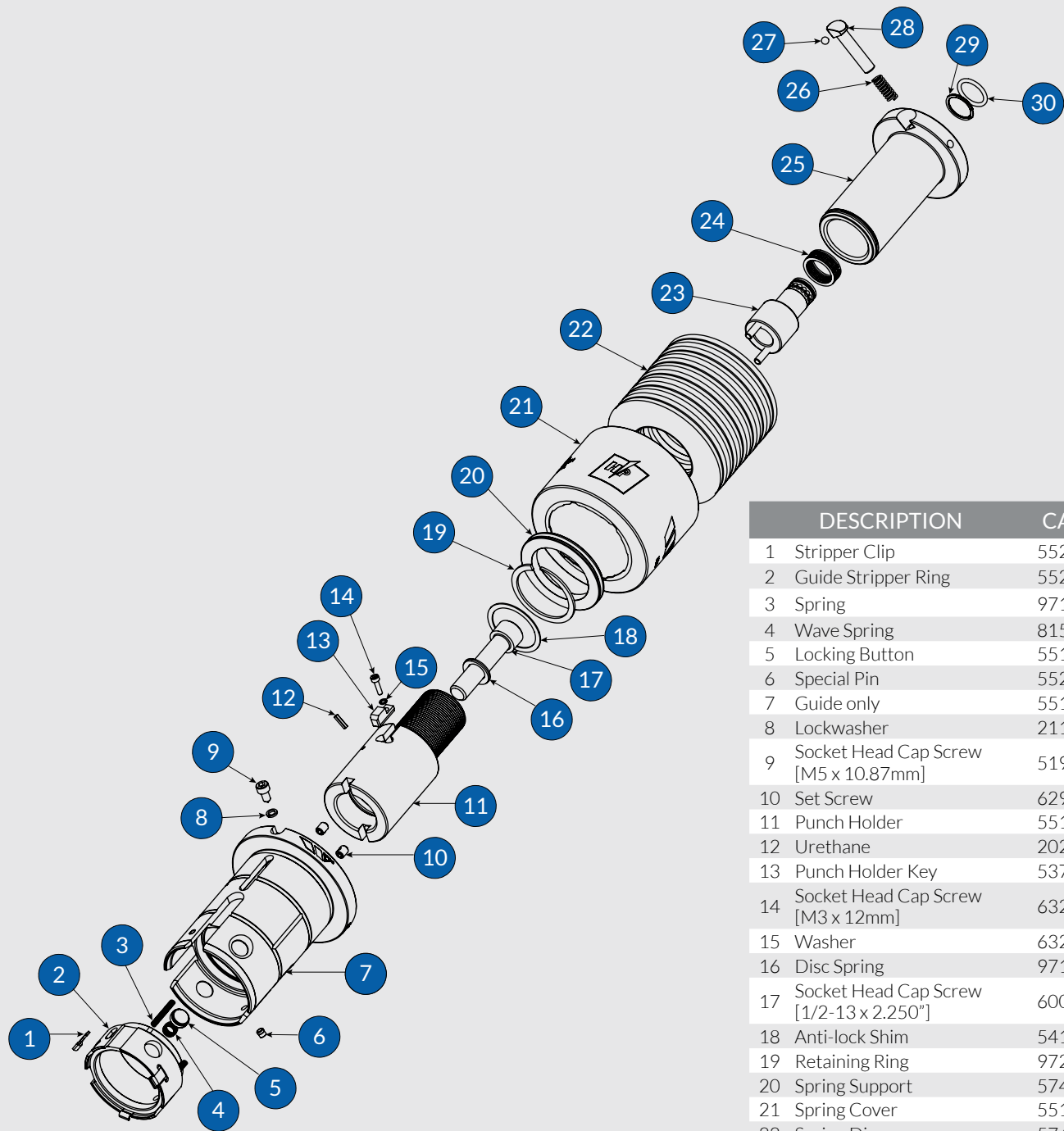
DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2089	
.030 [0.76mm] single	2725	
.060 [1.5mm] single	2092	
.010 [0.25mm] pack of 10	2210	
.030 [0.76mm] pack of 10	2726	
.060 [1.5mm] pack of 10	2174	

Additional charges may apply to non-standard features. See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Guide assemblies achieve angles of 0°, 45°, 90°, 180°, 225°, and 270°.	2.000" [50.8mm] 	.250" [6.35mm] 	All punches will be shipped with no shear, unless specified. Use heavy duty punches for material thickness > .250" [6.35mm]. HP punches and dies are available in Ultima tool steel upon request.

STANDARD SHAPES

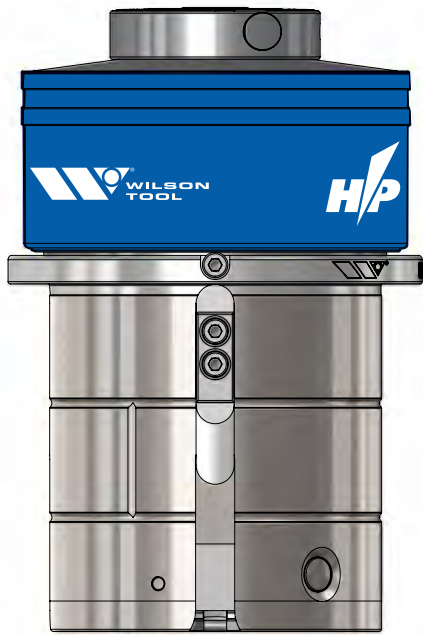




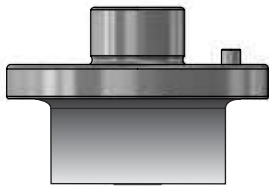
Cat. No. 5509 Guide Unit Assembly includes:
1, 2, 3, 5, 6, 7, 8, & 9

Cat. No. 5724 Driver Assembly includes:
19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 & 30

DESCRIPTION	CAT. NO.
1 Stripper Clip	5521
2 Guide Stripper Ring	5520
3 Spring	971694
4 Wave Spring	8155
5 Locking Button	5519
6 Special Pin	5522
7 Guide only	5518
8 Lockwasher	2112
9 Socket Head Cap Screw [M5 x 10.87mm]	5197
10 Set Screw	6298
11 Punch Holder	5510
12 Urethane	2020643
13 Punch Holder Key	5373
14 Socket Head Cap Screw [M3 x 12mm]	6326
15 Washer	6327
16 Disc Spring	971690
17 Socket Head Cap Screw [1/2-13 x 2.250"]	6002
18 Anti-lock Shim	5412
19 Retaining Ring	972570
20 Spring Support	5748
21 Spring Cover	5517
22 Spring Disc	5744
23 Adjustment Shaft	5735
24 Wave Spring	971692
25 Punch Driver	5736
26 Spring	972396
27 Adjustment Locking Ball	972420
28 Driver Lock Button	10539
29 Retaining Ring	972441
30 O-Ring [.687 x .094"]	972430



GUIDE
ASSEMBLY



PUNCH



STRIPPER



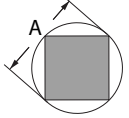
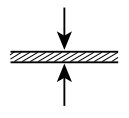
DIE



SHIM

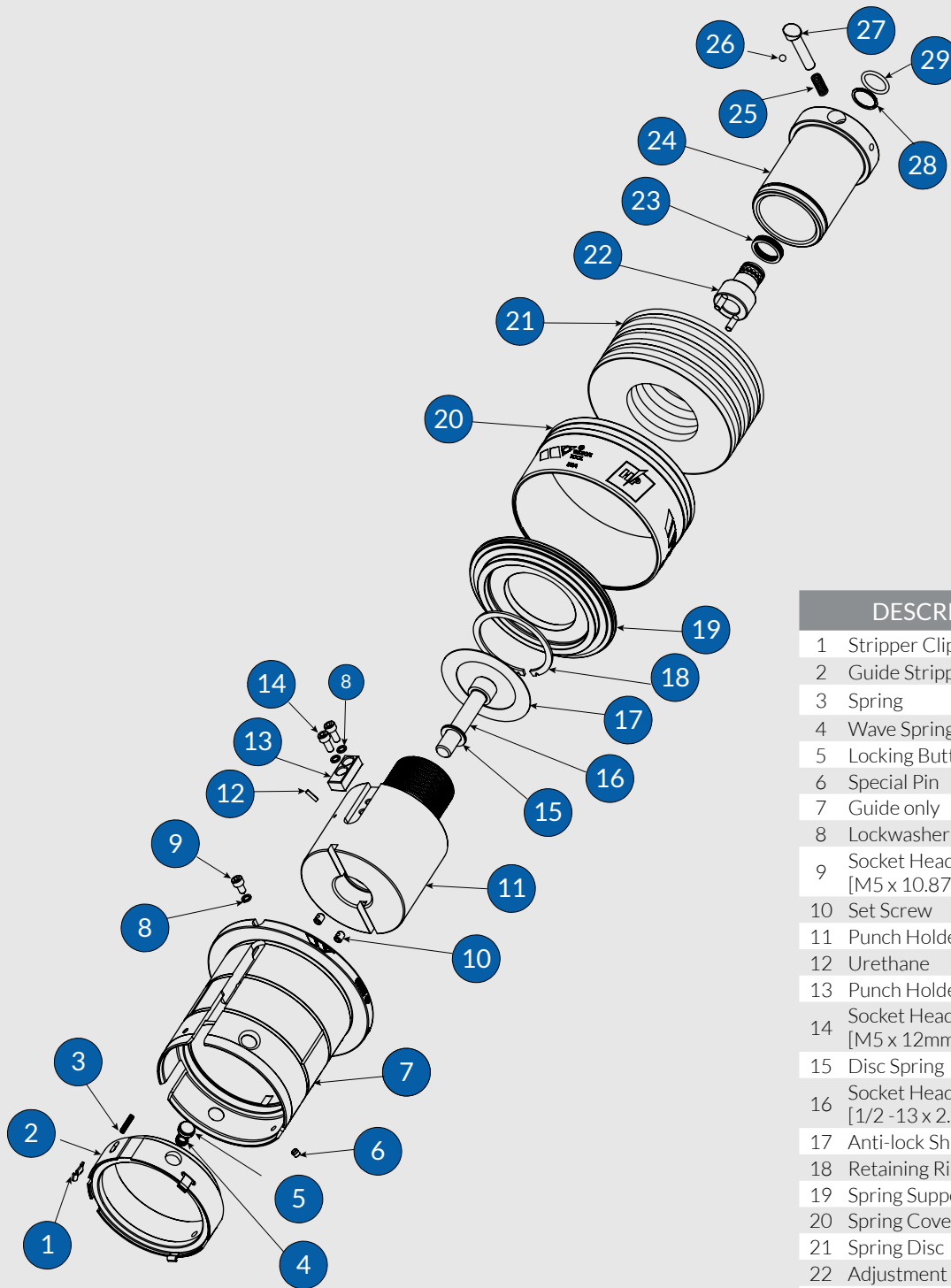
GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly	5553	
ABS/WLS Assembly	5523	
PUNCH	CAT. NO.	PRICE
Round	5028	
Shape	5027	
Optima® Coating		
STRIPPER	CAT. NO.	PRICE
Round	1864	
Shape	1869	
Round ABS	5152	
Shape ABS	5153	
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2198	
Round Standard	1865	
Shape Slug Hugger® 2*	12965	
Shape Positive	1870	
Shape Negative	1871	
* 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-standard features.
See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Guide assemblies achieve angles of 0°, 45°, 90°, 180°, 225°, and 270°.	3.500" [88.9mm] 	.250" [6.35mm] 	.062" [1.6mm] rooftop shear is given to all punches with 'A' dimension > 2.000" [50.8mm] and width > .250 [6.35mm]. Ultima® Premium tool steel available for punches and dies.

STANDARD SHAPES





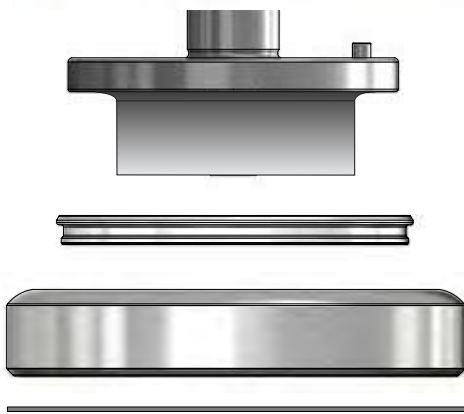
Cat. No. 5524 Guide Unit Assembly includes:
1, 2, 3, 5, 6, 7, 8, & 9

Cat. No. 5725 Driver Assembly includes:
19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 & 30

DESCRIPTION	CAT. NO.
1 Stripper Clip	5521
2 Guide Stripper Ring	5528
3 Spring	971694
4 Wave Spring	8155
5 Locking Button	5519
6 Special Pin	5522
7 Guide only	5527
8 Lockwasher	2112
9 Socket Head Cap Screw [M5 x 10.87mm]	5197
10 Set Screw	6298
11 Punch Holder	5525
12 Urethane	2020643
13 Punch Holder Key	1862
14 Socket Head Cap Screw [M5 x 12mm]	6110
15 Disc Spring	971690
16 Socket Head Cap Screw [1/2 -13 x 2.500"]	6566
17 Anti-lock Shim	5413
18 Retaining Ring	5747
19 Spring Support	5738
20 Spring Cover	5561
21 Spring Disc	5449
22 Adjustment Shaft	5739
23 Wave Spring	971692
24 Punch Driver	5740
25 Spring	972396
26 Adjustment Locking Ball	972420
27 Index Button	5737
28 Retaining Ring	972441
29 O-Ring	972430



GUIDE
ASSEMBLY



PUNCH

STRIPPER

DIE

SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
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Assembly	5554	
ABS/WLS Assembly	5533	

PUNCH	CAT. NO.	PRICE
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Round	5030	
Shape	5029	
Optima® Coating		

STRIPPER	CAT. NO.	PRICE
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Round	1877	
Round ABS	5154	
Shape	1882	
Shape ABS	5155	

DIE	CAT. NO.	PRICE
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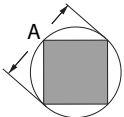
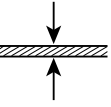
Round Slug Hugger®*	2200	
Round Standard	1878	
Shape Slug Hugger® 2*	12967	
Shape Positive	1883	
Shape Negative	1884	

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

DIE SHIM	CAT. NO.	PRICE
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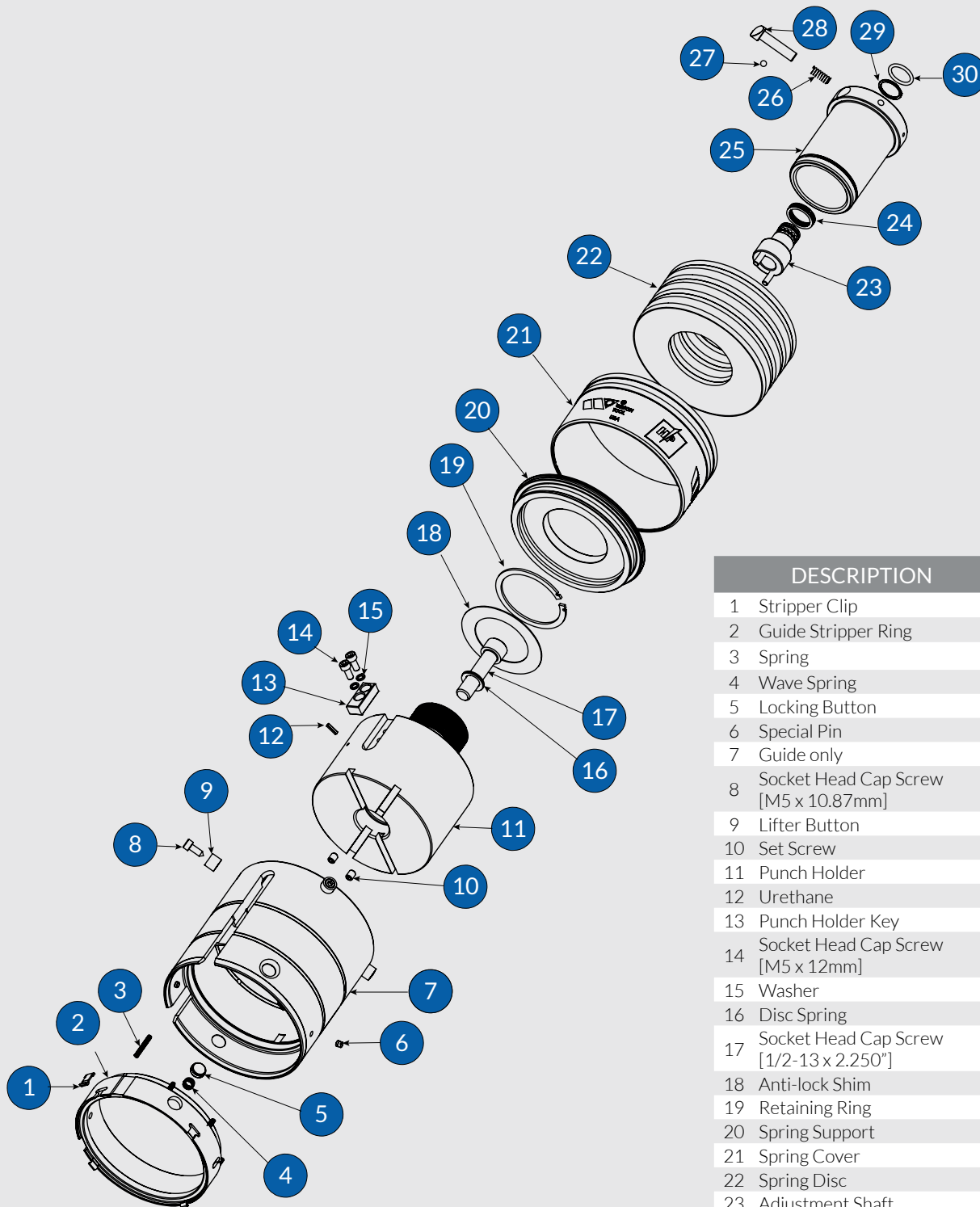
.010 [0.25mm] single	2073	
.030 [0.76mm] single	2729	
.060 [1.5mm] single	2076	
.010 [0.25mm] pack of 5	2212	
.030 [0.76mm] pack of 5	2730	
.060 [1.5mm] pack of 5	2176	

Additional charges may apply to non-standard features.
See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Guide assemblies achieve angles of 0°, 45°, 90°, 180°, 225°, and 270°.	4.500" [114.3mm] 	.250" [6.35mm] 	.062" [1.6mm] rooftop shear is standard on all punches with 'A' dimension > 2.000" [50.8mm] and width > .250 [6.35mm]. Ultima® Premium tool steel available for punches and dies.

STANDARD SHAPES

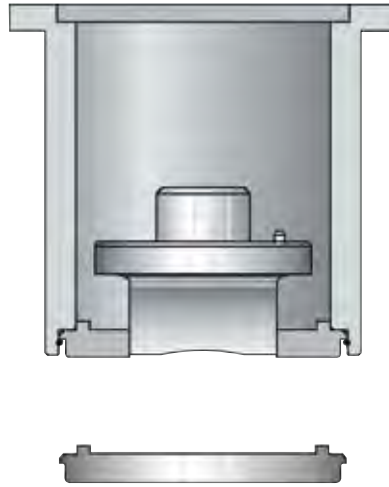




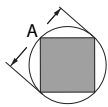
Cat. No. 5550 Guide Unit Assembly includes:
1, 2, 3, 5, 6, 7, 8, & 9

Cat. No. 5726 Driver Assembly includes:
19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 & 30

DESCRIPTION	CAT. NO.
1 Stripper Clip	5521
2 Guide Stripper Ring	5538
3 Spring	971694
4 Wave Spring	8155
5 Locking Button	5519
6 Special Pin	5522
7 Guide only	5537
8 Socket Head Cap Screw [M5 x 10.87mm]	5210
9 Lifter Button	5209
10 Set Screw	6298
11 Punch Holder	5535
12 Urethane	2020643
13 Punch Holder Key	1862
14 Socket Head Cap Screw [M5 x 12mm]	6110
15 Washer	2112
16 Disc Spring	971690
17 Socket Head Cap Screw [1/2-13 x 2.250"]	6325
18 Anti-lock Shim	5413
19 Retaining Ring	5747
20 Spring Support	5741
21 Spring Cover	5561
22 Spring Disc	5449
23 Adjustment Shaft	5739
24 Wave Spring	971692
25 Punch Driver	5742
26 Spring	972396
27 Adjustment Locking Ball	972420
28 Index Button	5737
29 Retaining Ring	972441
30 O-Ring	972430



STATION	MAX Punch 'A' Dimension	SHAPE	HP		HP ABS/WLS		S-90		S-90 ABS/WLS	
			CAT. NO.	PRICE	CAT. NO.	PRICE	CAT. NO.	PRICE	CAT. NO.	PRICE
C	2.000" [50.8 mm]	Round	2469		5643		5067		5453	
		Shape	2470		5644		5068		5454	
D	3.500" [88.9mm]	Round	2471		5645		5069		5455	
		Shape	2472		5646		5070		5456	
E	4.500" [114.3m]	Round	2473		5647		5071		5457	
		Shape	2474		5648		5072		5458	

DESCRIPTION	MAX A DIMENSION	ADVANTAGES	NOTES
The Notcher stripper plate is a hardened tool steel stripper plate that is precision ground to exacting tolerances. Uniquely designed to give the rigidity and slip fit of a special notching unit.	See chart above 	• Better guiding, less tool deflection • Greater flexibility of tooling applications • Longer tool life • Standard punch can be used	Designed to fit Wilson Tool manufactured guide assemblies.

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

Wear-Beater™

Wilson Tool's exclusive Wear-Beater 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.

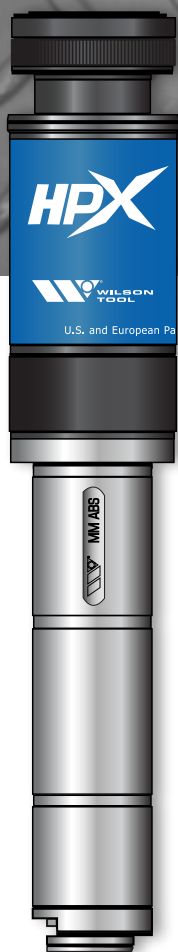
Slip-Max™

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.

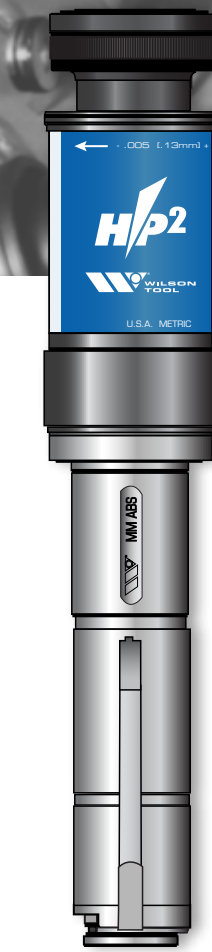


COATING RECOMMENDATION BY APPLICATION	WEAR-BEATER	OPTIMA	NITREX	SLIP-MAX
Punch wear piercing varied materials	●	★		
Punch or die wear piercing stainless steel	●	★		
Punch wear piercing galvanized	●	▲	★	
Punch or die wear piercing aluminum	●		▲	★
Galling on punch in stainless steel	●	▲		
Galling on punch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

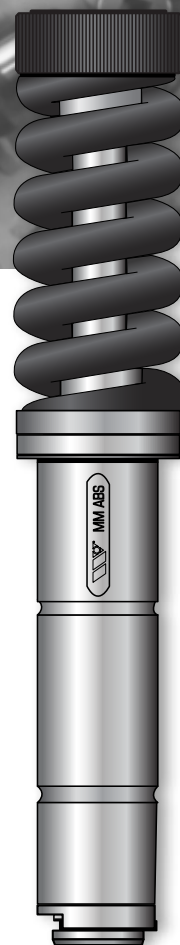
METRIC THICK TURRET TOOLING



HPX



HP2



basix

METRIC THICK TURRET TOOLING

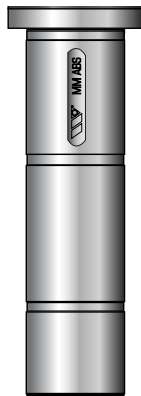


METRIC STYLE TOOLING SOLUTIONS

SMALL STATION ADVANTAGES	HPX	HP2	BASIX
Hardened guides for increased durability	●	●	●
Simple tool-less stripper change	●	●	●
Relieved strippers for extended guide life	●	●	●
Internal and external tool lubrication	●	●	●
Machine lubrication capability (ABS/WLS only, all HPX)	●	●	●
OEM compatible	●	●	●
Optima® coated punches available	●	●	●
Slug Hugger® 2 - maximum slug retention	●	●	●
In machine adjustment for faster set ups	●	●	
Easy click length adjustment - no shims or tooling required	●	●	
Maximum available grind life	●	●	
EXP quick change technology	●		
Made standard from Ultima® premium tool steel	●		
Accepts round or shaped punches in the same assembly	●		



PUNCH AND GUIDE ASSEMBLY



GUIDE



EXP PUNCH



STRIPPER



DIE



SHIM

PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
Round	14026	
Shape	14012	

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly only -Punch and stripper purchased separately	14027	

GUIDE	CAT. NO.	PRICE
Round	13073	
Shape 0°	13074	
Shape 0° & 45°	13075	
Shape 0° & 90°	13076	

PUNCH	CAT. NO.	PRICE
Round	13904	
Shape	13905	
Optima® Coating		

STRIPPER	CAT. NO.	PRICE
Round	13045	
Shape	13152	

DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2192	
Round Standard	1808	
Shape Slug Hugger® 2*	12959	
Shape Positive	1817	
Shape Negative	1818	

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

DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2101	
.030 [0.76mm] single	2721	
.060 [1.5mm] single	2104	
.010 [0.25mm] pack of 25	2208	
.030 [0.76mm] pack of 25	2722	
.060 [1.5mm] pack of 25	2172	

Additional charges may apply to non-standard features. See page 143.

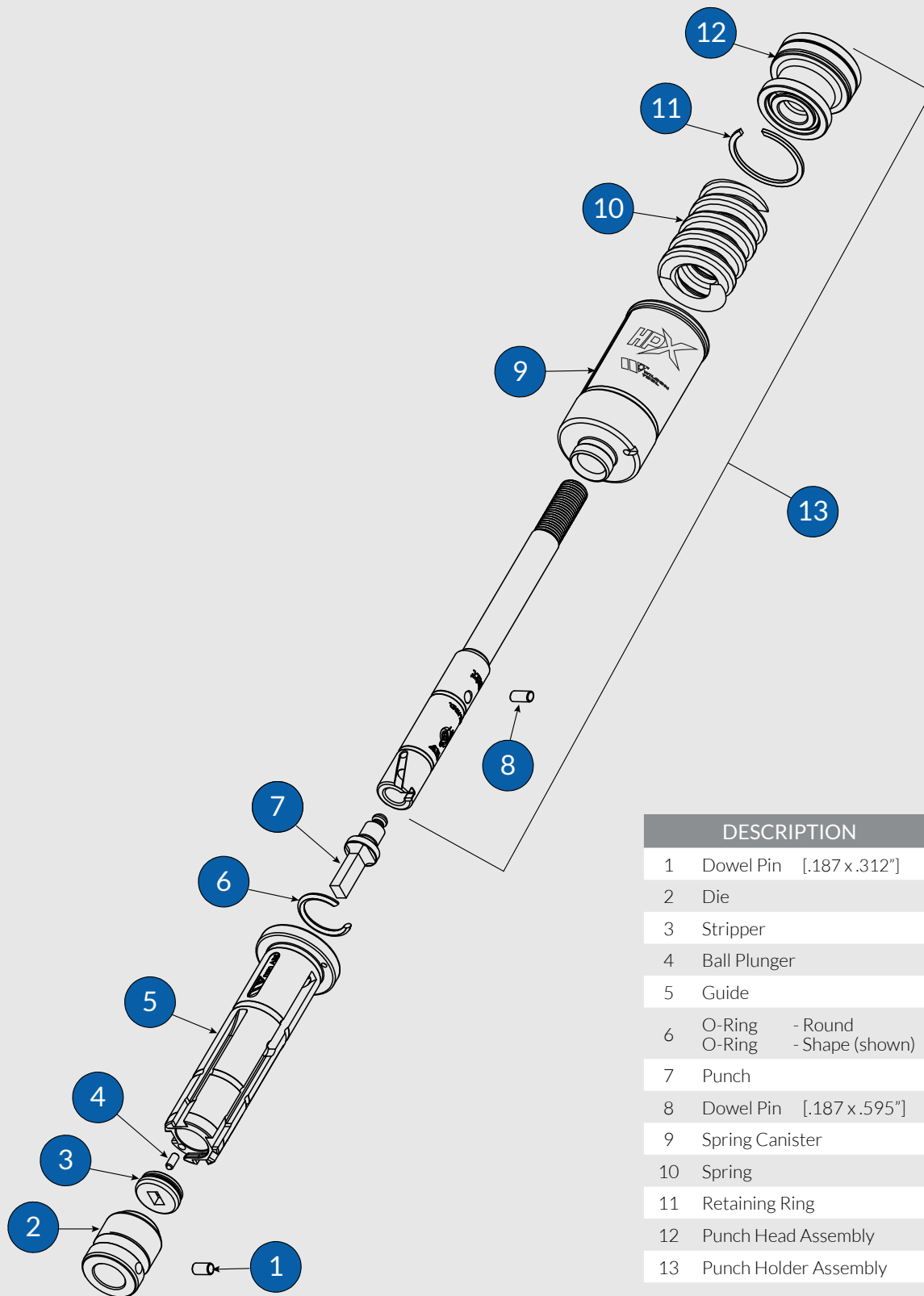


See this tool in action on the
Wilson Tool YouTube Channel

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HPX tooling is Wilson Tool's 'Best' product. It is loaded with all the great features of the HP2 plus the EXP quick change punch system with Ultima™ tool steel.	.500" [12.7mm] 	.150" [3.81mm] 	Compatible with ABS and non-ABS machines. Ultima tool steel is standard in EXP punches. Dies are available in Ultima tool steel upon request.

STANDARD SHAPES

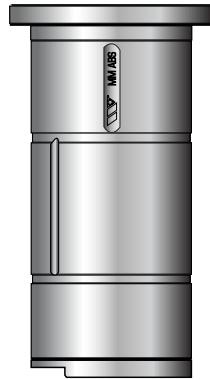




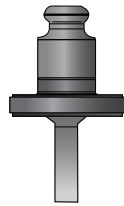
	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .312"]	6013
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980973
5	Guide	See Opposite Page
6	O-Ring - Round O-Ring - Shape (shown)	971303 13069
7	Punch	See Opposite Page
8	Dowel Pin [.187 x .595"]	6015
9	Spring Canister	14015
10	Spring	24291
11	Retaining Ring	24290
12	Punch Head Assembly	14133
13	Punch Holder Assembly	14014



PUNCH AND GUIDE ASSEMBLY



GUIDE



EXP PUNCH



STRIPPER



DIE



SHIM

PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE
Round	14029	
Shape	14018	

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly only -Punch and stripper purchased separately	14030	

GUIDE	CAT. NO.	PRICE
Round	13097	
Shape 0°	13098	
Shape 0° & 45°	13099	
Shape 0° & 90°	13100	

PUNCH	CAT. NO.	PRICE
Round	13916	
Shape	13917	
Optima® Coating		

STRIPPER	CAT. NO.	PRICE
Round	2433	
Shape	2432	

DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2194	
Round Standard	2021	
Shape Slug Hugger® 2*	12961	
Shape Positive	2025	
Shape Negative	2026	

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

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-standard features. See page 143.

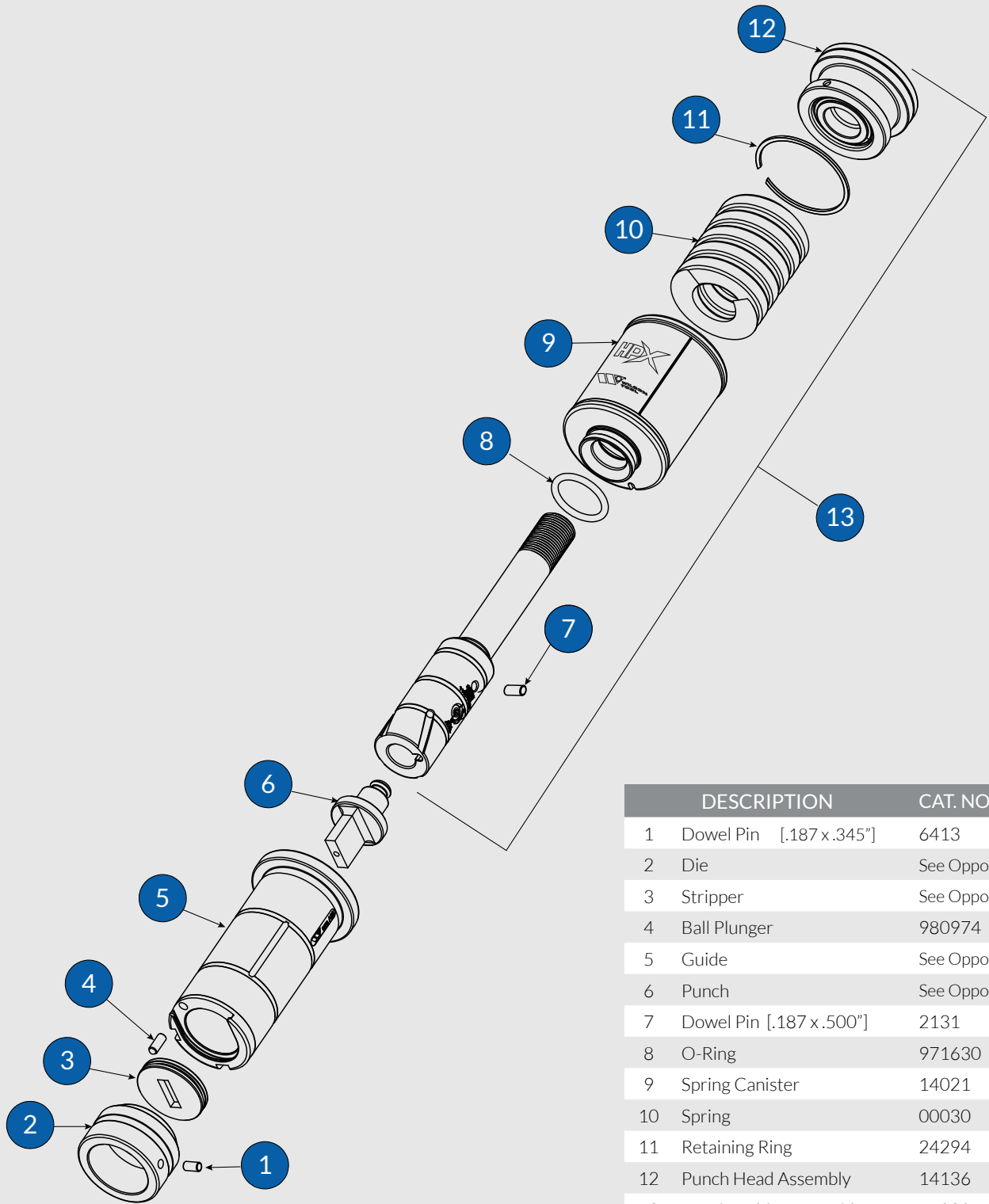


See this tool in action on the
Wilson Tool YouTube Channel

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HPX tooling is Wilson Tool's 'Best' product. It is loaded with all the great features of the HP2 plus the EXP quick change punch system with Ultima™ tool steel.	1.250" [31.8mm] 	.250" [6.35mm] 	Compatible with ABS and non-ABS machines. Ultima tool steel is standard in EXP punches. Dies are available in Ultima tool steel upon request.

STANDARD SHAPES





	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .345"]	6413
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980974
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin [.187 x .500"]	2131
8	O-Ring	971630
9	Spring Canister	14021
10	Spring	00030
11	Retaining Ring	24294
12	Punch Head Assembly	14136
13	Punch Holder Assembly	14020



METRIC PUNCH HOLDER

Compatible with Metric Style Punch and Guide Assemblies

	CAT. NO.	PRICE
Round	13978	
Shape	13979	



METRIC ABS/WLS PUNCH HOLDER

Compatible with Metric Style Punch and Guide Assemblies

	CAT. NO.	PRICE
Round	13980	
Shape	14024	



ULTRA PUNCH HOLDER

Compatible with Ultra Punch and Guide Assemblies

	CAT. NO.	PRICE
Ultra	15535	



EXP PUNCH

Compatible with all punch holders above

	CAT. NO.	PRICE
Round	13904	
Shape	13905	
Optima® Coating		



See this tool in action on the Wilson Tool YouTube Channel

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
EXP punch holders allow you to convert your current Wilson Style punch and guide assemblies to the EXP quick change punch system. Ultima tool steel is standard in EXP punches.	.500" [12.7mm] 	.150" [3.81mm] 	Additional charges may apply to non-standard features. See page 143.

STANDARD SHAPES



**METRIC PUNCH HOLDER**

Compatible with Metric Style Punch and Guide Assemblies

	CAT. NO.	PRICE
Round	13992	
Shape	13993	

**METRIC ABS/WLS PUNCH HOLDER**

Compatible with Metric Style Punch and Guide Assemblies

	CAT. NO.	PRICE
Round	13994	
Shape	14025	

**ULTRA PUNCH HOLDER**

Compatible with Ultra Punch and Guide Assemblies

	CAT. NO.	PRICE
Ultra	15537	

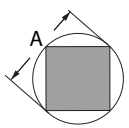
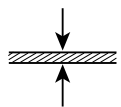
**EXP PUNCH**

Compatible with all punch holders above

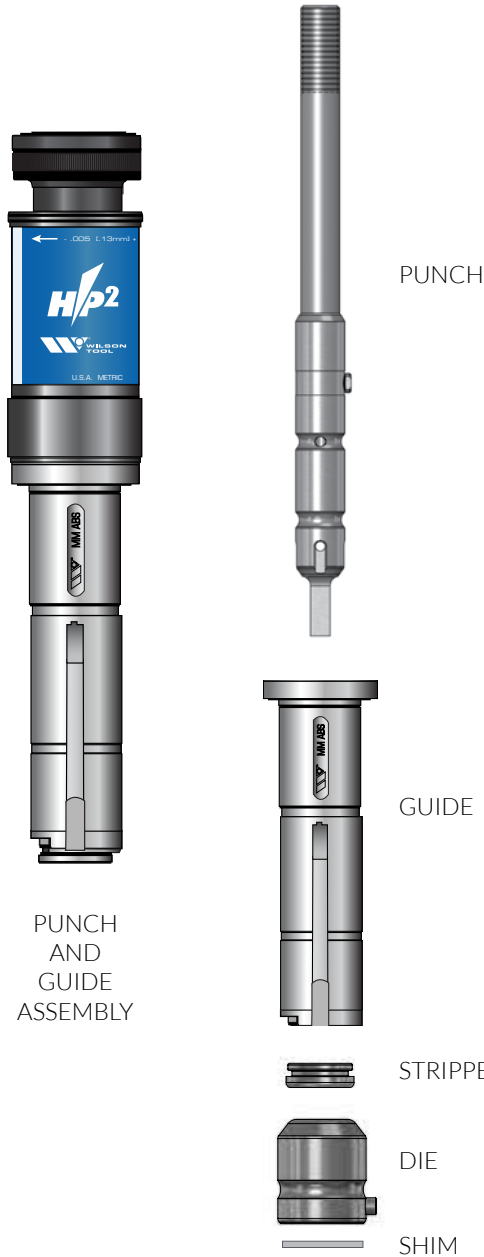
EXP PUNCH	CAT. NO.	PRICE
Round	13916	
Shape	13917	
Optima® Coating		



See this tool in action on the Wilson Tool YouTube Channel

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
EXP punch holders allow you to convert your current Wilson Style punch and guide assemblies to the EXP quick change punch system. Ultima tool steel is standard in EXP punches.	1.250" [31.8mm] 	.250" [6.35mm] 	Additional charges may apply to non-standard features. See page 143.

STANDARD SHAPES

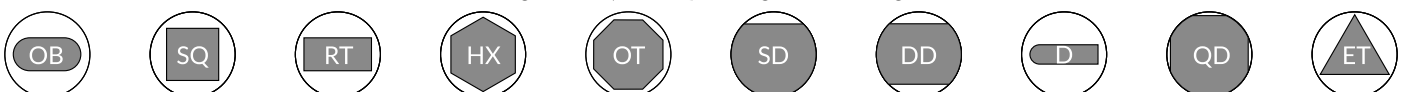


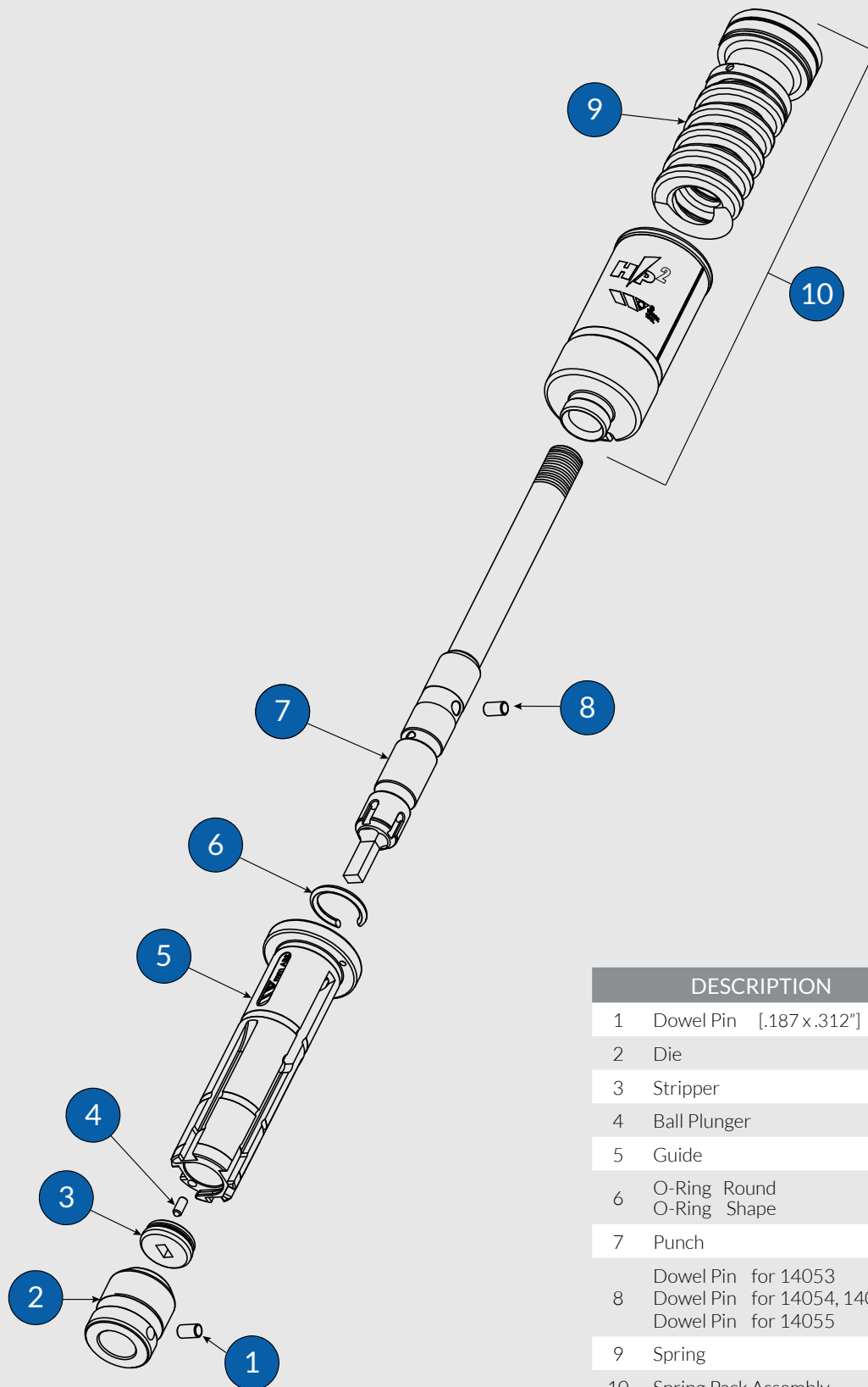
PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE	ABS/WLS	
Round	14052		CAT. NO.	PRICE
Shape	14053		14054	14055
Optima® Coating				
Spring Pack Assembly	14153		14153	
PUNCH	CAT. NO.	PRICE	CAT. NO.	PRICE
Round, pinned **	14048		13869	
Shape	2182		13870	
Optima® Coating				
GUIDE	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	14072		14076	
Shape 0°	14073		14077	
Shape 0° & 45°	14075		14079	
Shape 0° & 90°	14074		14078	
STRIPPER	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	13044		13045	
Shape	13143		13152	
DIE	CAT. NO.	PRICE		
Round Slug Hugger®*	2192			
Round Standard	1808			
Shape Slug Hugger® 2*	12959			
Shape Positive	1817			
Shape Negative	1818			
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.				
DIE SHIM	CAT. NO.	PRICE		
.010 [0.25mm] single	2101			
.030 [0.76mm] single	2721			
.060 [1.5mm] single	2104			
.010 [0.25mm] pack of 25	2208			
.030 [0.76mm] pack of 25	2722			
.060 [1.5mm] pack of 25	2172			

Additional charges may apply to non-standard features. See page 143.

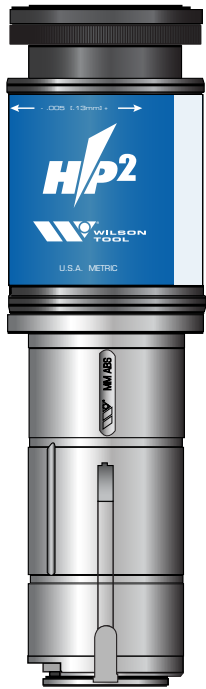
DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HP2 is Wilson Tool's 'Better' product. It offers a great value with standard features like easy click length adjustment, high grade tool steel, ABS/WLS compatible.	.500" [12.7mm] 	.150" [3.81mm] 	** HP2 assemblies require a pinned round punch. HP dies are available in Ultima tool steel upon request.

STANDARD SHAPES





	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .312"]	6013
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980973
5	Guide	See Opposite Page
6	O-Ring Round O-Ring Shape	971303 13069
7	Punch	See Opposite Page
8	Dowel Pin for 14053 Dowel Pin for 14054, 14052 Dowel Pin for 14055	6015 974189 2150
9	Spring	24291
10	Spring Pack Assembly	14153



PUNCH
AND
GUIDE
ASSEMBLY



PUNCH

GUIDE

STRIPPER

DIE

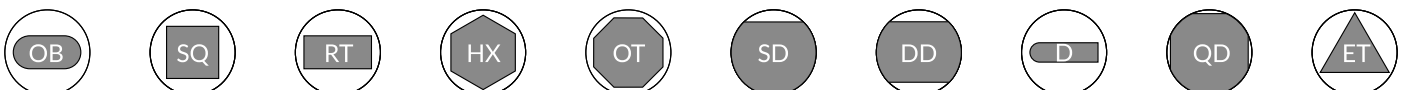
SHIM

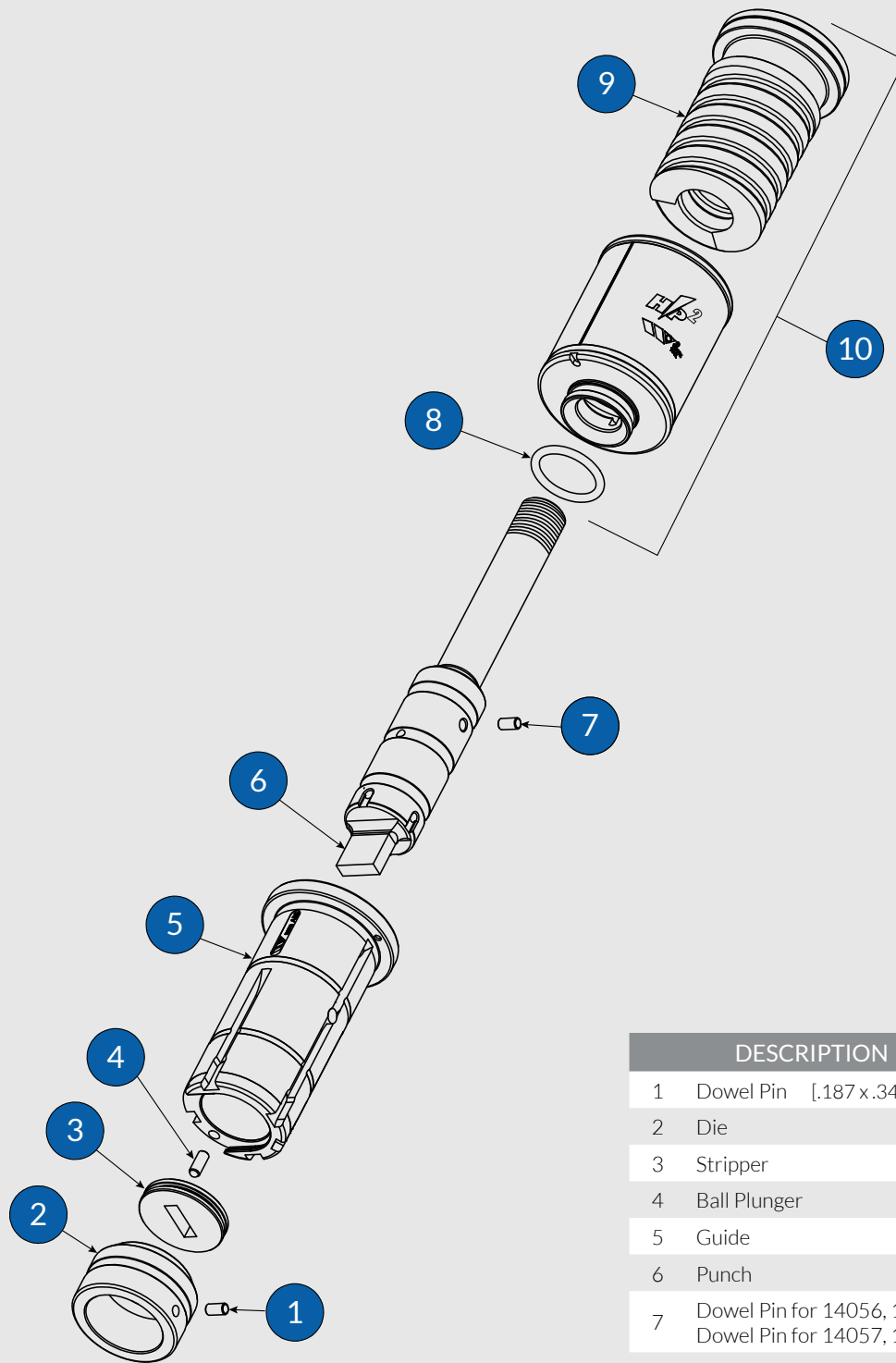
PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE	ABS/WLS	
Round	14056		CAT. NO.	PRICE
Shape	14057		14058	14059
Optima® Coating				
Spring Pack Assembly	14172		14172	
PUNCH	CAT. NO.	PRICE	CAT. NO.	PRICE
Round, pinned **	14049		13871	
Shape	2184		13872	
Optima® Coating				
GUIDE	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	14080		14084	
Shape 0°	14081		14085	
Shape 0° & 45°	14083		14087	
Shape 0° & 90°	14082		14086	
STRIPPER	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	1890		2433	
Shape	1917		2432	
DIE	CAT. NO.	PRICE		
Round Slug Hugger®*	2194			
Round Standard	2021			
Shape Slug Hugger® 2*	12961			
Shape Positive	2025			
Shape Negative	2026			
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.				
SHIMS	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-standard features. See page 143.

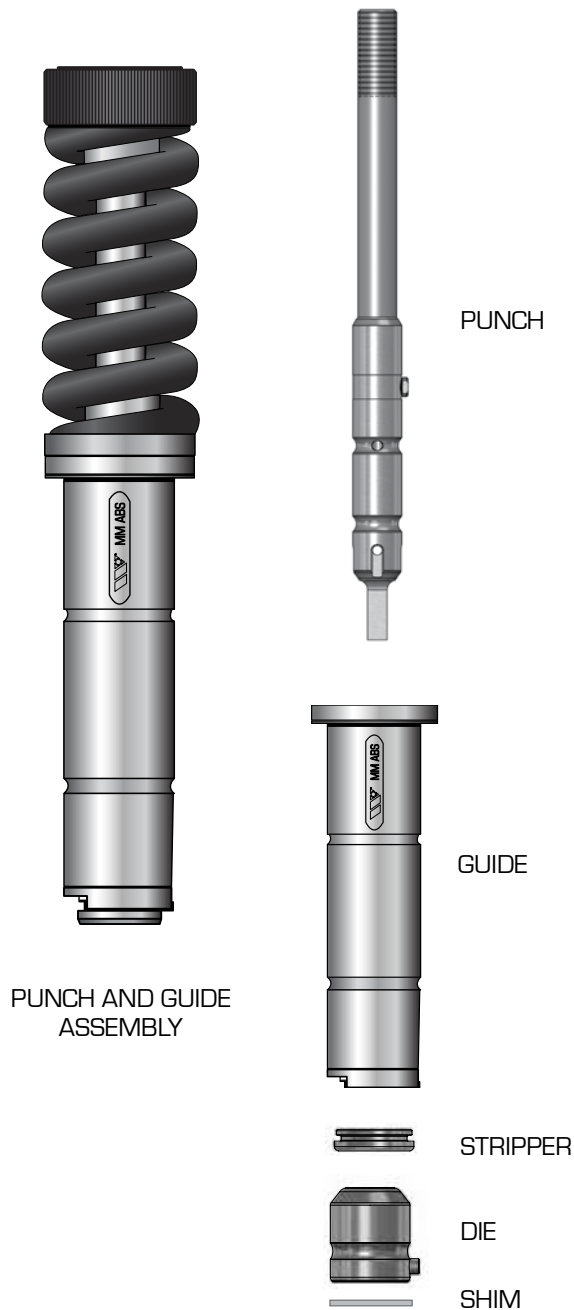
DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
HP2 is Wilson Tool's 'Better' product. It offers a great value with standard features like easy click length adjustment, high grade tool steel, ABS/WLS compatible.	1.250" [31.75mm] 	.250" [6.35mm] 	**HP2 assemblies require a pinned round punch. HP dies are available in Ultima tool steel upon request.

STANDARD SHAPES





	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .345"]	6413
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980974
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin for 14056, 14058 Dowel Pin for 14057, 14059	974189 2131
8	O-Ring	971630
9	Spring	EH200-250
10	Spring Pack Assembly	14172

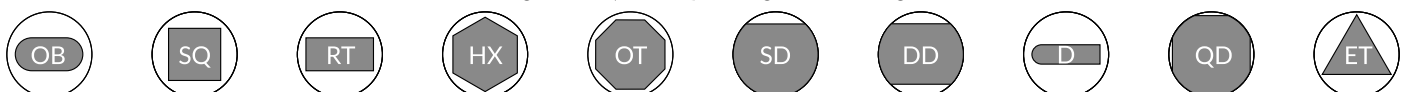


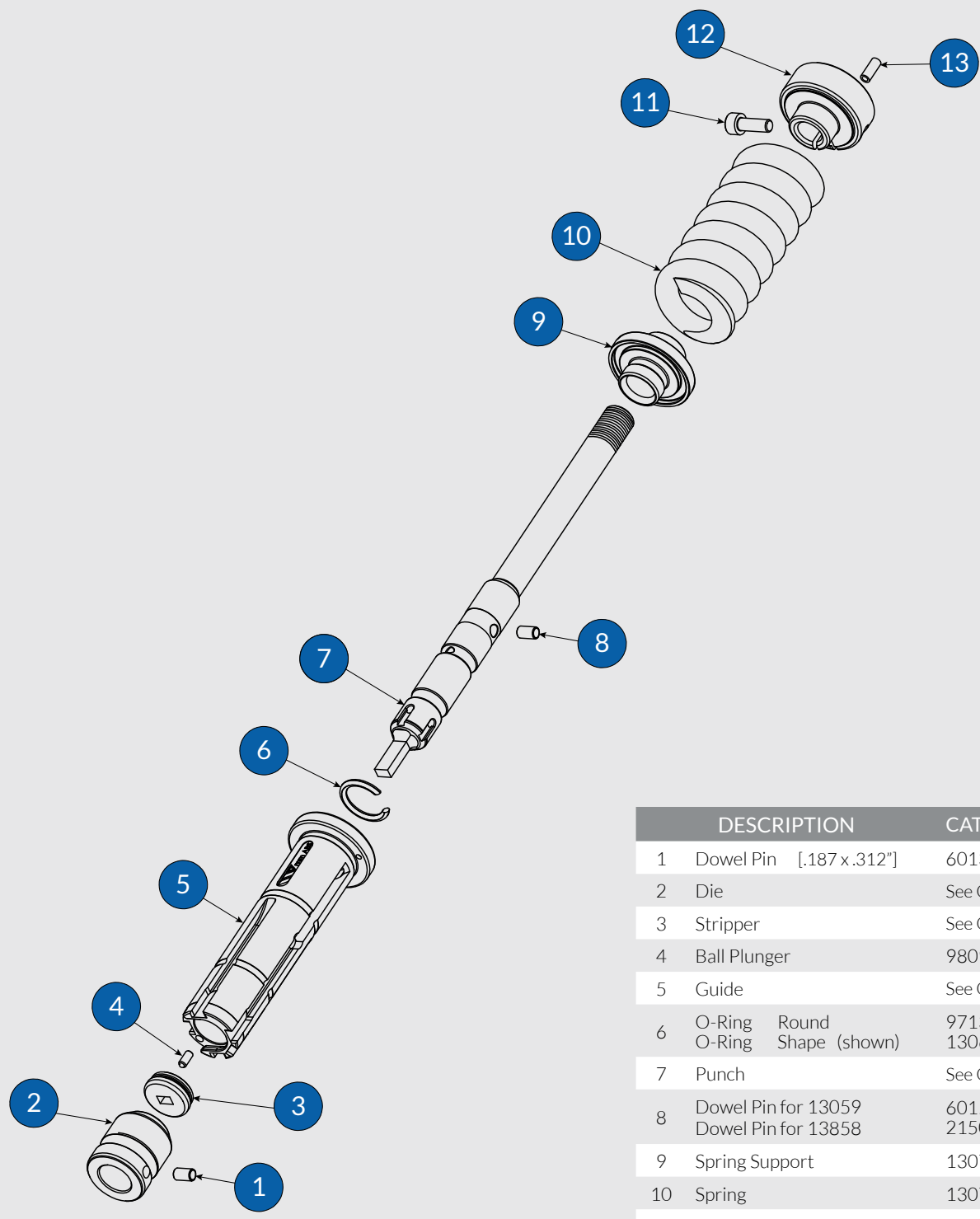
PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE	ABS/WLS CAT. NO.	PRICE
Round	13057		13856	
Shape	13059		13858	
Optima® Coating				
PUNCH	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2183		13827	
Shape	2182		13870	
Optima® Coating				
GUIDE	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	13065		13073	
Shape 0°	13066		13074	
Shape 0° & 45°	13067		13075	
Shape 0° & 90°	13068		13076	
STRIPPER	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	13044		13045	
Shape	13143		13152	
DIE	CAT. NO.	PRICE		
Round Slug Hugger®*	2192			
Round Standard	1808			
Shape Slug Hugger® 2*	12959			
Shape Positive	1817			
Shape Negative	1818			
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.				
PUNCH SHIM	CAT. NO.	PRICE		
.060 [1.5mm] single	1898			
.060 [1.5mm] pack of 25	2167			
DIE SHIM	CAT. NO.	PRICE		
.010 [0.25mm] single	2101			
.030 [0.76mm] single	2721			
.060 [1.5mm] single	2104			
.010 [0.25mm] pack of 25	2208			
.030 [0.76mm] pack of 25	2722			
.060 [1.5mm] pack of 25	2172			

Additional charges may apply to non-standard features. See page 143.

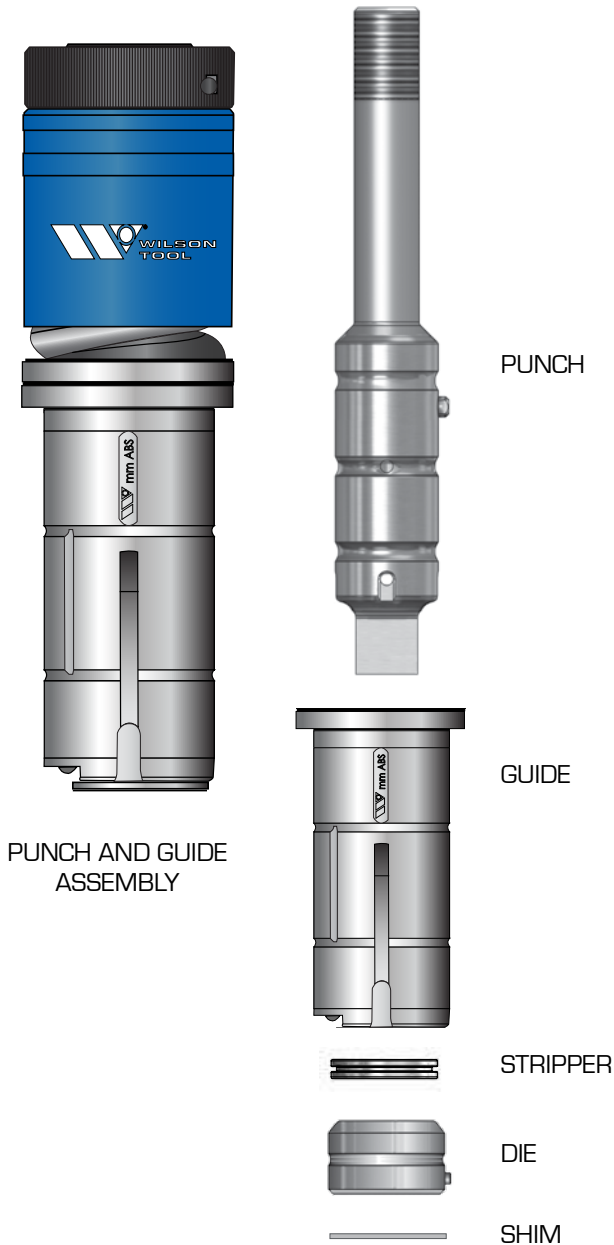
DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Basix assemblies are designed to deliver durability and performance at a lower cost with basic features.	.500" [12.7mm] 	.150" [3.81mm] 	Dies are available in Ultima tool steel upon request.

STANDARD SHAPES





	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .312"]	6013
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980973
5	Guide	See Opposite Page
6	O-Ring Round O-Ring Shape (shown)	971303 13069
7	Punch	See Opposite Page
8	Dowel Pin for 13059 Dowel Pin for 13858	6015 2150
9	Spring Support	13078
10	Spring	13079
11	Socket Head Cap Screw [M5 x 14mm]	970476
12	Punch Head Assembly	14193
13	Polyurethane Plug	974213

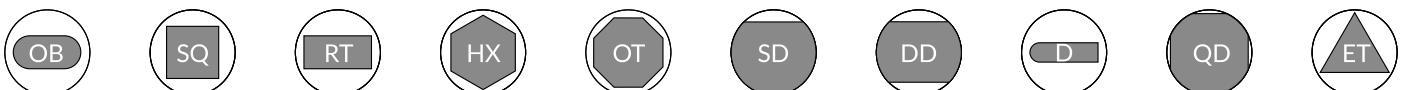


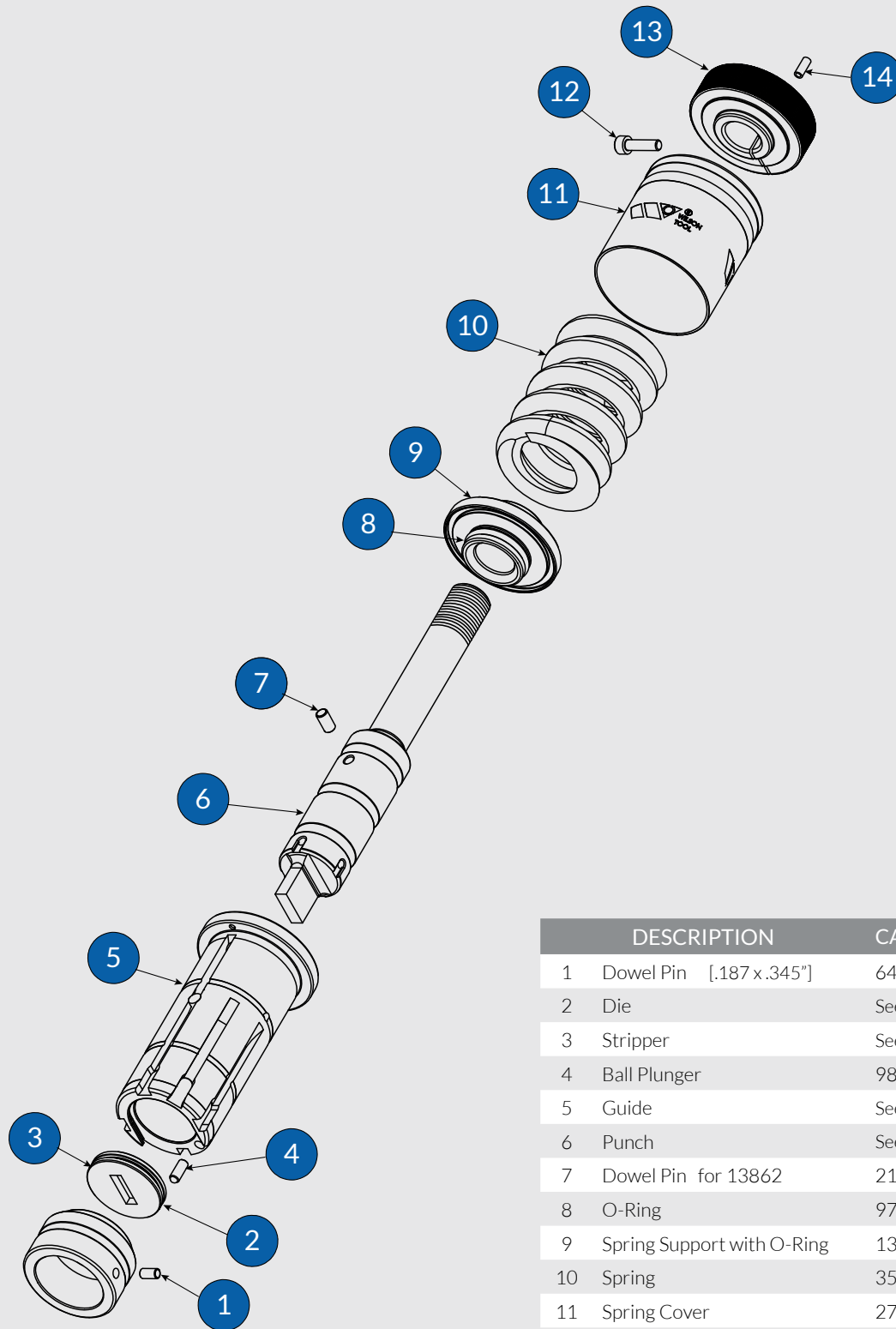
PUNCH AND GUIDE ASSEMBLY	CAT. NO.	PRICE	ABS/WLS CAT. NO.	PRICE
Round	13090		13860	
Shape	13092		13862	
Optima® Coating				
PUNCH	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	2185		13828	
Shape	2184		13872	
Optima® Coating				
GUIDE	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	13413		13097	
Shape 0°	13414		13098	
Shape 0° & 45°	13415		13099	
Shape 0° & 90°	13416		13100	
STRIPPER	CAT. NO.	PRICE	CAT. NO.	PRICE
Round	1890		2433	
Shape	1917		2432	
DIE	CAT. NO.	PRICE		
Round Slug Hugger®*	2194			
Round Standard	2021			
Shape Slug Hugger® 2*	12961			
Shape Positive	2025			
Shape Negative	2026			
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.				
PUNCH SHIM	CAT. NO.	PRICE		
.060 [1.5mm] single	152			
.060 [1.5mm] pack of 25	98			
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-standard features. See page 143.

DESCRIPTION	A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Basix assemblies are designed to deliver durability and performance at a lower cost with basic features.	1.250" [31.75mm] 	.250" [6.35mm] 	Dies are available in Ultima tool steel upon request.

STANDARD SHAPES





	DESCRIPTION	CAT. NO.
1	Dowel Pin [.187 x .345"]	6413
2	Die	See Opposite Page
3	Stripper	See Opposite Page
4	Ball Plunger	980974
5	Guide	See Opposite Page
6	Punch	See Opposite Page
7	Dowel Pin for 13862	2131
8	O-Ring	971630
9	Spring Support with O-Ring	13411
10	Spring	35122
11	Spring Cover	2732
12	Socket Head Cap Screw [M5 x 18mm]	6449
13	Punch Head Assembly	14195
14	Polyurethane Plug	13868

METRIC THICK TURRET TOOLING



METRIC THICK TURRET TOOLING

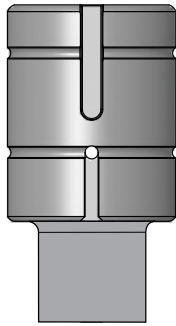


METRIC STYLE TOOLING SOLUTIONS

LARGE STATION ADVANTAGES	HP	STANDARD	BASIX
Up to 50% more bearing surface to reduce side loading	●	●	●
Internal and external lubrication	●	●	●
External keyways at 0°, 90°, and 225°	●	●	●
OEM compatible	●	●	●
Punches made from premium hardened tool steel	●	●	●
Optima® coated punches available	●	●	●
Relieved strippers for maximum grind life	●	●	●
Made from hardened tool steel for increased durability	●	●	
Optima® coated keys for superior wear resistance	●	●	
Fast and simple push button length adjustment	●	●	
ABS machine lubrication capability	●	●	
Push button lock release for quick stripper plate removal	●		



GUIDE
ASSEMBLY



PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly M-12	5577	
ABS Assembly M-14	13829	

PUNCH	CAT. NO.	PRICE
Round 1/2-13 Thread	1847	
Round M12 Thread	1933	
Round ABS M14 Thread	13614	
Shape 1/2-13 Thread	1853	
Shape M12 Thread	1934	
Shape ABS M14 Thread	13615	

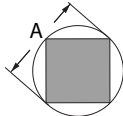
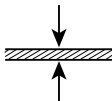
STRIPPER	CAT. NO.	PRICE
Round	1848	
Shape	1854	
Round ABS	5150	
Shape ABS	5151	

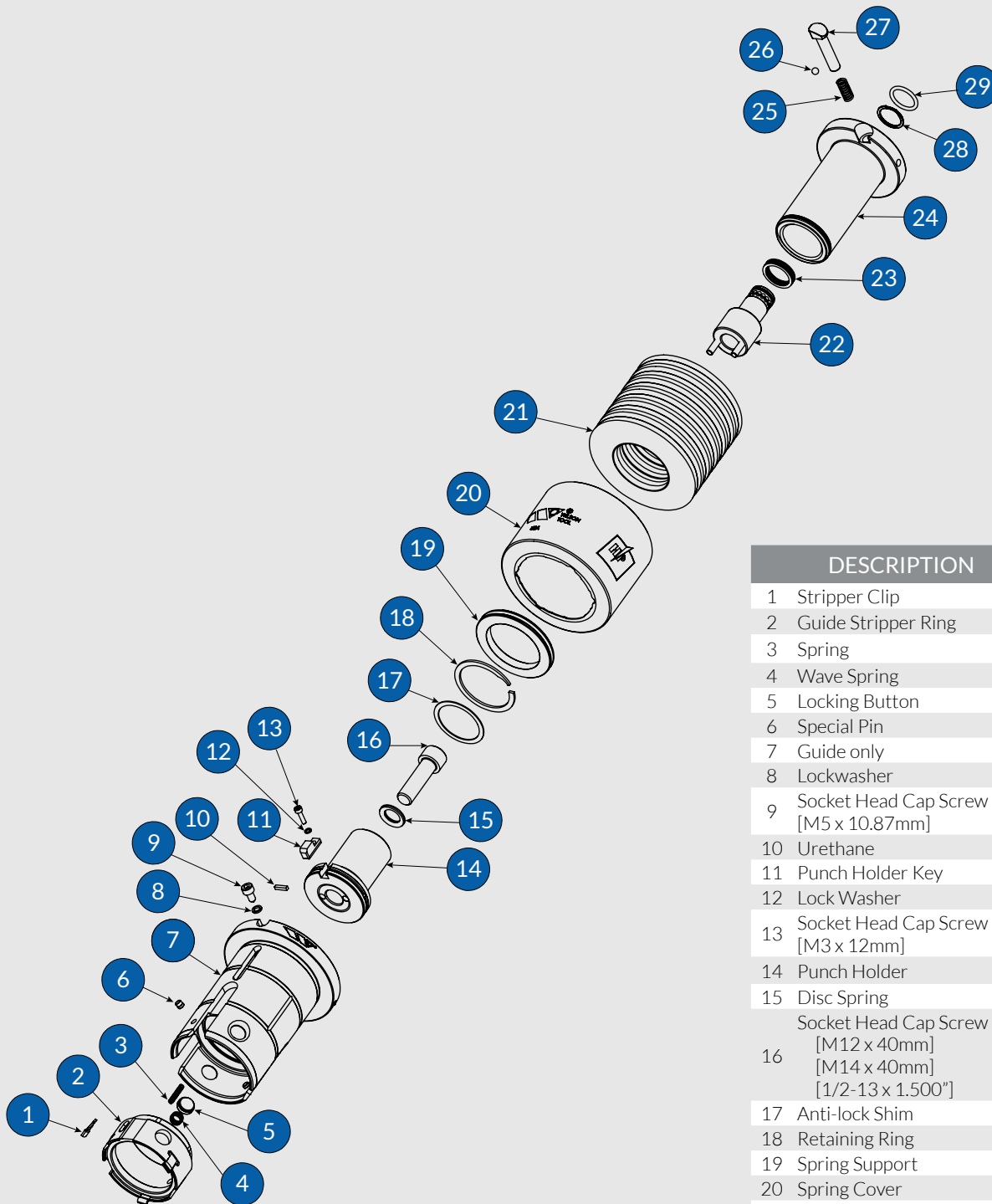
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2196	
Round Standard	1850	
Shape Slug Hugger® 2*	12964	
Shape Positive	1855	
Shape Negative	1856	

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

DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2089	
.030 [0.76mm] single	2725	
.060 [1.5mm] single	2092	
.010 [0.25mm] pack of 10	2210	
.030 [0.76mm] pack of 10	2726	
.060 [1.5mm] pack of 10	2174	

Additional charges may apply to non-standard features.
See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Quick Lock has a push button release for quick stripper plate removal. Guide assemblies are keyed for shapes at 0°, 90° and 225°.	2.000" [50.8mm] 	.250" [6.35mm] 	All punches shipped with no shear unless specified. 5577 assembly includes 1/2-13 bolt. 13829 assembly includes M-12 bolt. Dies are available in Ultima tool steel upon request.



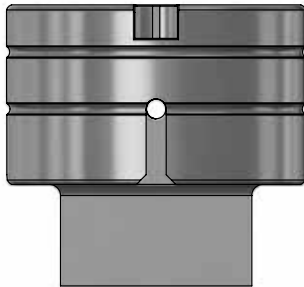
Cat. No. 5509 Guide Unit Assembly includes:
1, 2, 3, 5, 6, 7, 8 & 9

Cat. No. 5724 Driver Assembly includes:
18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 & 29

DESCRIPTION	CAT. NO.
1 Stripper Clip	5521
2 Guide Stripper Ring	5520
3 Spring	971694
4 Wave Spring	8155
5 Locking Button	5519
6 Special Pin	5522
7 Guide only	5518
8 Lockwasher	2112
9 Socket Head Cap Screw [M5 x 10.87mm]	5197
10 Urethane	2020643
11 Punch Holder Key	5373
12 Lock Washer	6327
13 Socket Head Cap Screw [M3 x 12mm]	6326
14 Punch Holder	5556
15 Disc Spring	971690
16 Socket Head Cap Screw (2) [M12 x 40mm]	6605
[M14 x 40mm]	13843
[1/2-13 x 1.500"]	6606
17 Anti-lock Shim	5412
18 Retaining Ring	972570
19 Spring Support	5748
20 Spring Cover	5517
21 Disc Spring	5744
22 Adjustment Shaft	5735
23 Wave Spring	971692
24 Punch Driver	5736
25 Spring	972396
26 Adjustment Locking Ball	972420
27 Driver Lock Button	10539
28 Retaining Ring	972441
29 O-Ring	972430



GUIDE
ASSEMBLY



PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly M-12	5578	
ABS Assembly M-14	13830	

PUNCH	CAT. NO.	PRICE
Round 1/2-13 Thread	1863	
Round M12 Thread	1937	
Round ABS M14 Thread	13616	
Shape 1/2-13 Thread	1868	
Shape M12 Thread	1938	
Shape ABS M14 Thread	13617	
Optima® Coating		

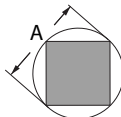
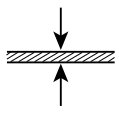
STRIPPER	CAT. NO.	PRICE
Round	1864	
Shape	1869	
Round ABS	5152	
Shape ABS	5153	

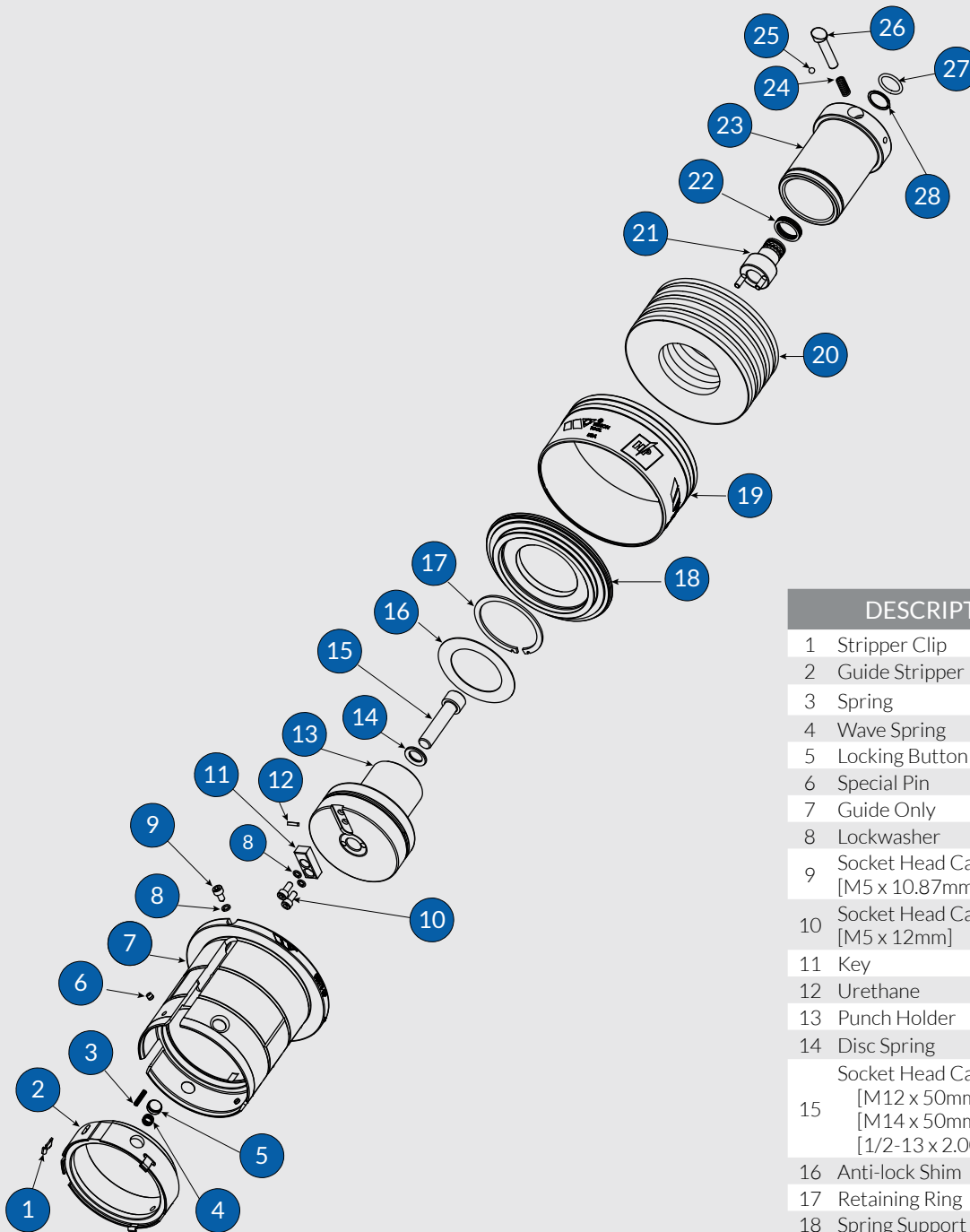
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2198	
Round Standard	1865	
Shape Slug Hugger® 2*	12965	
Shape Positive	1870	
Shape Negative	1871	

* 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-standard features. See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Quick Lock has a push button release for quick stripper plate removal. Guide assemblies are keyed for shapes at 0°, 90° and 225°.	3.500" [88.9mm] 	.250" [6.35mm] 	.062" [1.6mm] rooftop shear is given to all punches with 'A' dimension > 2.000" [50.8mm] and width > .250" [6.35mm]. 5578 assembly includes 1/2-13 bolt. 13830 assembly includes M-12 bolt. Dies available in Ultima tool steel upon request.



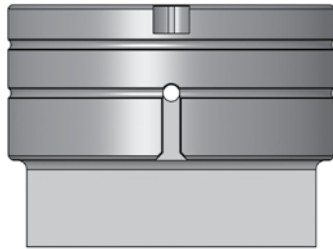
Cat. No. 5524 Guide Unit Assembly includes:
1, 2, 3, 5, 6, 7, 8 & 9

Cat. No. 5730 Driver Assembly includes:
17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27 & 28

	DESCRIPTION	CAT. NO.
1	Stripper Clip	5521
2	Guide Stripper Ring	5528
3	Spring	971694
4	Wave Spring	8155
5	Locking Button	5519
6	Special Pin	5522
7	Guide Only	5527
8	Lockwasher	2112
9	Socket Head Cap Screw [M5 x 10.87mm]	5197
10	Socket Head Cap Screw [M5 x 12mm]	6110
11	Key	1862
12	Urethane	2020643
13	Punch Holder	5556
14	Disc Spring	971690
15	Socket Head Cap Screw (2) [M12 x 50mm] [M14 x 50mm] [1/2-13 x 2.000"]	970467 13844 6325
16	Anti-lock Shim	5413
17	Retaining Ring	5747
18	Spring Support	5748
19	Spring Cover	5561
20	Disc Spring	5449
21	Adjustment Shaft	5739
22	Spring	971692
23	Punch Driver	5740
24	Spring	972396
25	Adjustment Locking Ball	972420
26	Index Button	5737
27	O-Ring	972430
28	Retaining Ring	972441



GUIDE
ASSEMBLY



PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
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Assembly M-12	5579	
ABS Assembly M-14	13831	

PUNCH	CAT. NO.	PRICE
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Round 1/2-13 Thread	1876	
Round M12 Thread	1941	
Round ABS M14 Thread	13618	
Shape 1/2-13 Thread	1881	
Shape M12 Thread	1942	
Shape ABS M14 Thread	13619	

Optima® Coating

STRIPPER	CAT. NO.	PRICE
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Round	1877	
Shape	1882	
Round ABS	5154	
Shape ABS	5155	

DIE	CAT. NO.	PRICE
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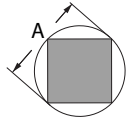
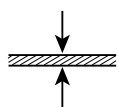
Round Slug Hugger®*	2200	
Round Standard	1878	
Shape Slug Hugger® 2*	12967	
Shape Positive	1883	
Shape Negative	1884	

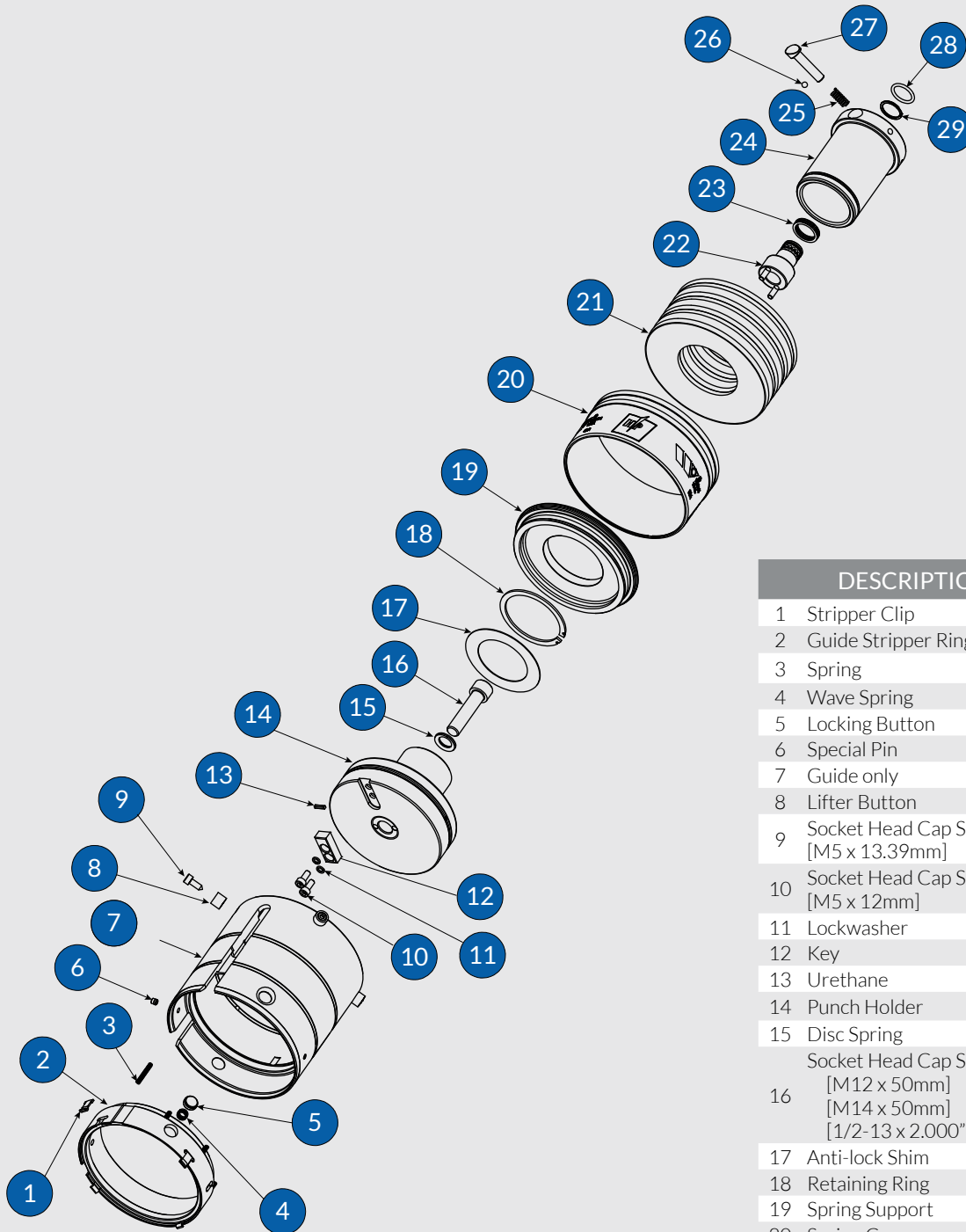
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.

DIE SHIM	CAT. NO.	PRICE
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.010 [0.25mm] single	2073	
.030 [0.76mm] single	2729	
.060 [1.5mm] single	2076	
.010 [0.25mm] pack of 5	2212	
.030 [0.76mm] pack of 5	2730	
.060 [1.5mm] pack of 5	2176	

Additional charges may apply to non-standard features.
See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Quick Lock has a push button release for quick stripper plate removal. Guide assemblies are keyed for shapes at 0°, 90° and 225°.	4.500" [114.3mm] 	.250" [6.35mm] 	.062" [1.6mm] rooftop shear is given to all punches with 'A' dimension > 2.000" [50.8mm] and width > .250" [6.35mm]. 5579 includes 1/2-13 bolt. 13831 includes M-12 Bolt. Dies available in Ultima tool steel upon request.



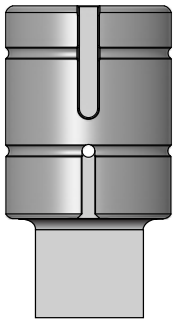
Cat. No. 5524 Guide Unit Assembly includes:
1, 2, 3, 5, 6, 7, 8 & 9

Cat. No. 5730 Driver Assembly includes:
18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 & 29

DESCRIPTION	CAT. NO.
1 Stripper Clip	5521
2 Guide Stripper Ring	5528
3 Spring	971694
4 Wave Spring	8155
5 Locking Button	5519
6 Special Pin	5522
7 Guide only	5537
8 Lifter Button	5209
9 Socket Head Cap Screw [M5 x 13.39mm]	5210
10 Socket Head Cap Screw [M5 x 12mm]	6110
11 Lockwasher	2112
12 Key	1862
13 Urethane	2020643
14 Punch Holder	5560
15 Disc Spring	971690
16 Socket Head Cap Screw (2) [M12 x 50mm] [M14 x 50mm] [1/2-13 x 2.000"]	970467 13844 6325
17 Anti-lock Shim	5413
18 Retaining Ring	5747
19 Spring Support	5741
20 Spring Cover	5561
21 Disc Spring	5449
22 Adjustment Shaft	5739
23 Wave Spring	971692
24 Punch Driver	5742
25 Spring	972396
26 Adjustment Locking Ball	972420
27 Index Button	5737
28 O-Ring	972430
29 Retaining Ring	972441



GUIDE
ASSEMBLY



PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly M-12	5583	
ABS Assembly M-14	13084	
WLS Assembly M-12	5592	

PUNCH	CAT. NO.	PRICE
Round 1/2-13 Thread	1847	
Round M12 Thread	1933	
Round ABS M14 Thread	13614	
Shape 1/2-13 Thread	1853	
Shape M12 Thread	1934	
Shape ABS M14 Thread	13615	

Optima® Coating

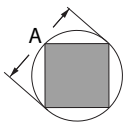
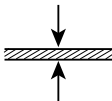
STRIPPER	CAT. NO.	PRICE
Round	1848	
Shape	1854	
Round ABS	5150	
Shape ABS	5151	

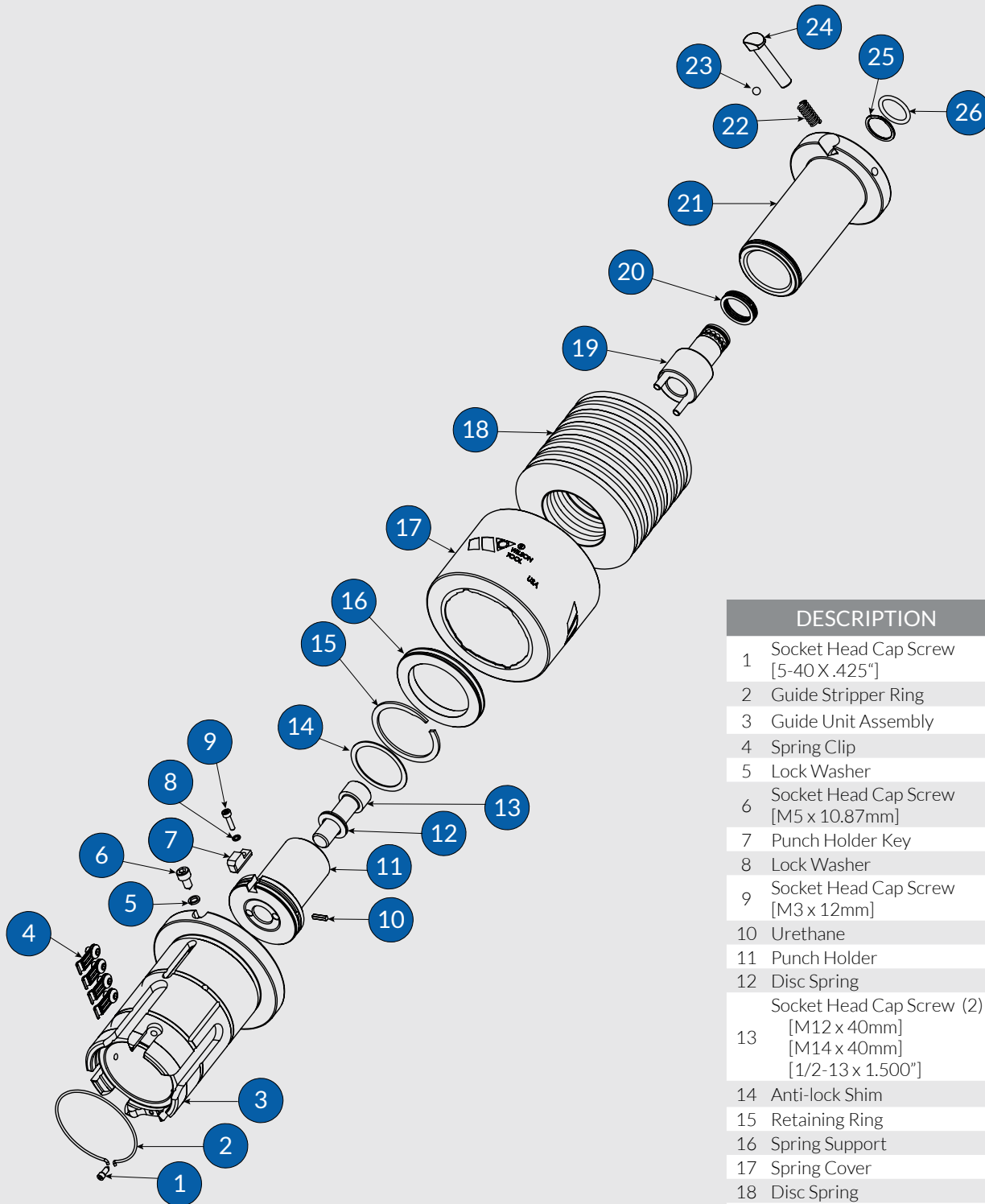
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2196	
Round Standard	1850	
Shape Slug Hugger® 2*	12964	
Shape Positive	1855	
Shape Negative	1856	

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

DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2089	
.030 [0.76mm] single	2725	
.060 [1.5mm] single	2092	
.010 [0.25mm] pack of 10	2210	
.030 [0.76mm] pack of 10	2726	
.060 [1.5mm] pack of 10	2174	

Additional charges may apply to non-standard features. See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Standard assembly strippers are held in by a stripper ring or clips. Guide assemblies are keyed for shapes at 0°, 90° and 225°.	2.000" [50.8mm] 	.250" [6.35mm] 	All punches shipped with no shear unless specified. Full assemblies ship with guide stripper ring installed. Spring clips are also included. 5583 and 5592 include 1/2-13 bolt. 13084 includes M-12 bolt. Dies available in Ultima tool steel upon request.



Cat. No. 5420 Guide Unit Assembly includes:

1, 2, 3, 5, & 6

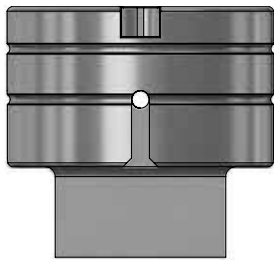
Cat. NO. 5729 Driver Assembly includes:

14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, & 25

	DESCRIPTION	CAT. NO.
1	Socket Head Cap Screw [5-40 X .425"]	429
2	Guide Stripper Ring	5035
3	Guide Unit Assembly	5420
4	Spring Clip	2810
5	Lock Washer	2112
6	Socket Head Cap Screw [M5 x 10.87mm]	5197
7	Punch Holder Key	5373
8	Lock Washer	6327
9	Socket Head Cap Screw [M3 x 12mm]	6326
10	Urethane	6116
11	Punch Holder	5556
12	Disc Spring	971690
13	Socket Head Cap Screw (2) [M12 x 40mm] [M14 x 40mm] [1/2-13 x 1.500"]	6605 13843 6606
14	Anti-lock Shim	5412
15	Retaining Ring	972570
16	Spring Support	5748
17	Spring Cover	5693
18	Disc Spring	5744
19	Adjustment Shaft	5735
20	Wave Spring	971692
21	Punch Driver	5736
22	Spring	972396
23	Adjustment Locking Ball	972420
24	Driver Lock Button	10539
25	Retaining Ring	972441
26	O-Ring	972430



GUIDE
ASSEMBLY



PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly M-12	5584	
ABS Assembly M-14	13085	
WLS Assembly M-12	5593	

PUNCH	CAT. NO.	PRICE
Round 1/2-13 Thread	1863	
Round M12 Thread	1937	
Round ABS M14 Thread	13616	
Shape 1/2-13 Thread	1868	
Shape M12 Thread	1938	
Shape ABS M14 Thread	13617	
Optima® Coating		

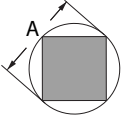
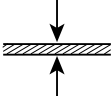
STRIPPER	CAT. NO.	PRICE
Round	1864	
Shape	1869	
Round ABS	5152	
Shape ABS	5153	

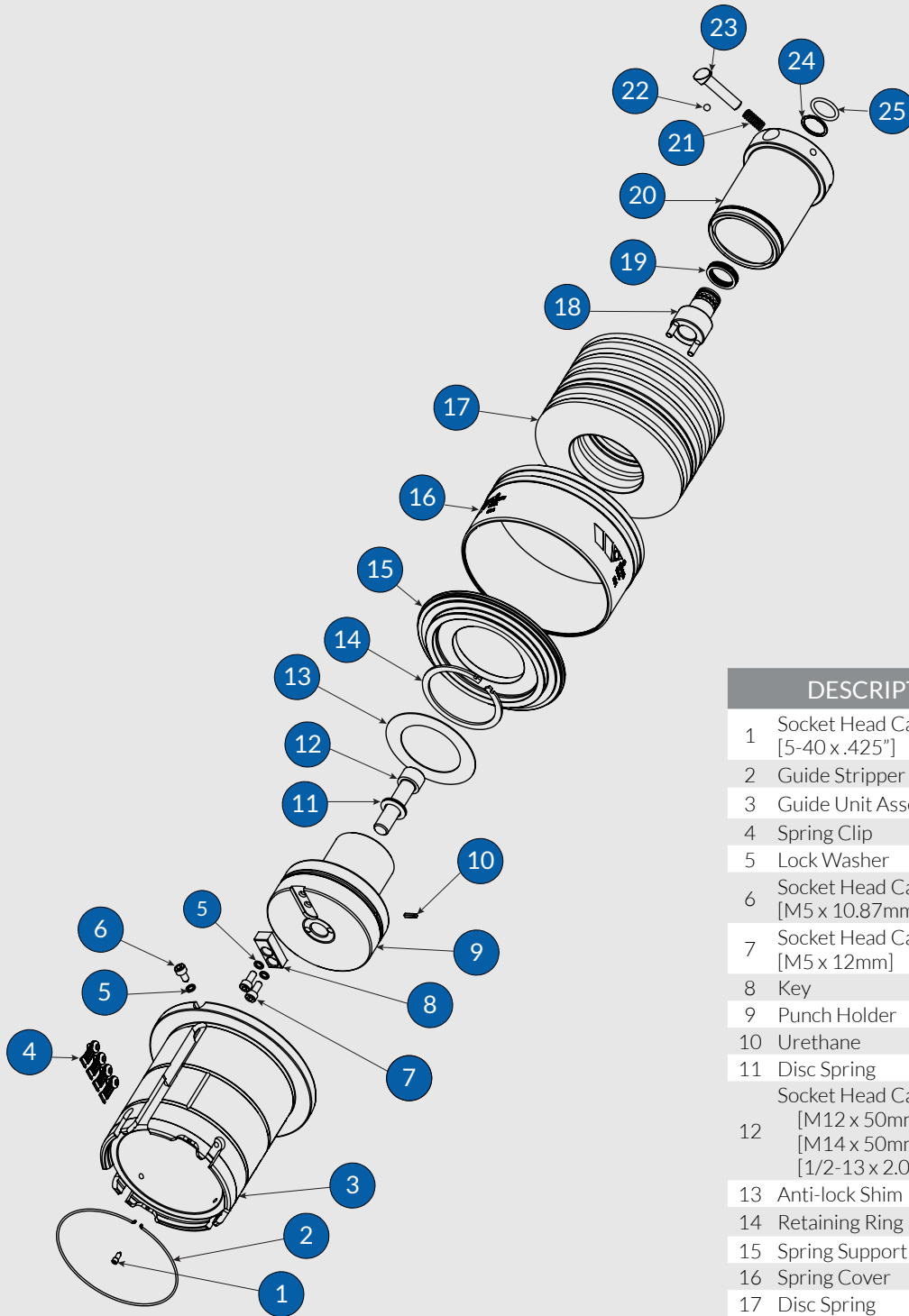
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2198	
Round Standard	1865	
Shape Slug Hugger® 2*	12965	
Shape Positive	1870	
Shape Negative	1871	

* 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-standard features. See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Standard assembly strippers are held in by a stripper ring or clips. Guide assemblies are keyed for shapes at 0°, 90° and 225°.	3.500" [88.9mm] 	.250" [6.35mm] 	.062" [1.6mm] rooftop shear is given to all punches with 'A' dimension > 2.000" [50.8mm] and width > .250" [6.35mm]. 5584 and 5593 include 1/2-13 bolt. 13085 includes M-12 bolt. Dies available in Ultima tool steel upon request.



Cat. No. 5430 Guide Unit Assembly includes:
1, 2, 3, 5, & 6

Cat. No. 5730 Driver Assembly includes:
14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, & 25

	DESCRIPTION	CAT. NO.
1	Socket Head Cap Screw [5-40 x .425"]	429
2	Guide Stripper Ring	5036
3	Guide Unit Assembly	5430
4	Spring Clip	2810
5	Lock Washer	2112
6	Socket Head Cap Screw [M5 x 10.87mm]	5197
7	Socket Head Cap Screw [M5 x 12mm]	6110
8	Key	1862
9	Punch Holder	5558
10	Urethane	6116
11	Disc Spring	971690
12	Socket Head Cap Screw (2) [M12 x 50mm] [M14 x 50mm] [1/2-13 x 2.000"]	970467 13844 6325
13	Anti-lock Shim	5413
14	Retaining Ring	5747
15	Spring Support	5738
16	Spring Cover	5423
17	Disc Spring	5449
18	Adjustment Shaft	5739
19	Wave Spring	971692
20	Punch Driver	5740
21	Spring	972396
22	Adjustment Locking Ball	972420
23	Index Button	5737
24	Retaining Ring	972441
25	O-Ring	972430



GUIDE
ASSEMBLY



PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly M-12	5585	
ABS Assembly M-14	13088	
WLS Assembly M-12	5594	

PUNCH	CAT. NO.	PRICE
Round 1/2-13 Thread	1876	
Round M12 Thread	1941	
Round ABS M14 Thread	13618	
Shape 1/2-13 Thread	1881	
Shape M12 Thread	1942	
Shape ABS M14 Thread	13619	

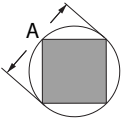
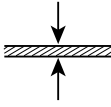
STRIPPER	CAT. NO.	PRICE
Round	1877	
Shape	1882	
Round ABS	5154	
Shape ABS	5155	

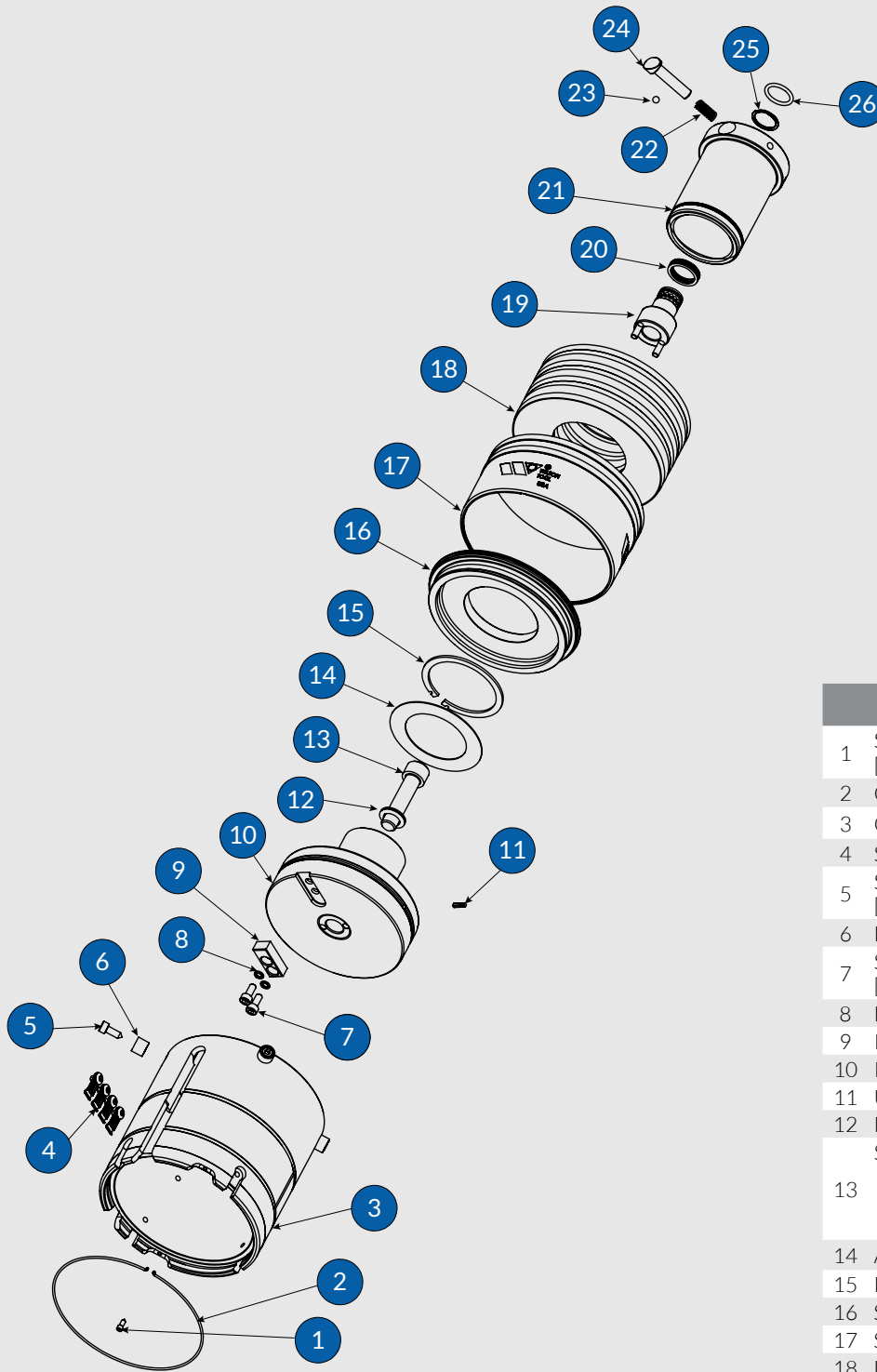
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2200	
Round Standard	1878	
Shape Slug Hugger® 2*	12967	
Shape Positive	1883	
Shape Negative	1884	

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

DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2073	
.030 [0.76mm] single	2729	
.060 [1.5mm] single	2076	
.010 [0.25mm] pack of 5	2212	
.030 [0.76mm] pack of 5	2730	
.060 [1.5mm] pack of 5	2176	

Additional charges may apply to non-standard features. See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Standard assembly strippers are held in by a stripper ring or clips. Guide assemblies are keyed for shapes at 0°, 90° and 225°.	4.500" [114.3mm] 	.250" [6.35mm] 	.062" [1.6mm] rooftop shear is given to all punches with 'A' dimension > 2.000" [50.8mm] and width > .250" [6.35mm]. 5585 and 5594 include 1/2-13 bolt. 13088 includes M-12 bolt. Dies available in Ultima tool steel upon request.



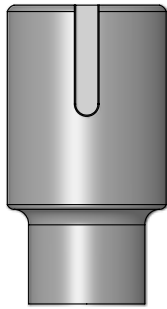
Cat. No. 5438 Guide Unit Assembly includes:
1, 2, 3, 5, 6, 7, 8 & 9

Cat. No. 5731 Driver Assembly includes:
18, 19, 20, 21, 22, 23, 24, 25 & 26

	DESCRIPTION	CAT. NO.
1	Socket Head Cap Screw [5-40 X .425"]	429
2	Guide Stripper Ring	5037
3	Guide Unit Assembly	5438
4	Spring Clip	2810
5	Socket Head Cap Screw [M5 x 13.39mm]	5210
6	Lifter Button	5209
7	Socket Head Cap Screw [M5 x 12mm]	6110
8	Lock Washer	2112
9	Key	1862
10	Punch Holder	5560
11	Urethane	6116
12	Disc Spring	971690
13	Socket Head Cap Screw (2) [M12 x 50mm] [M14 x 50mm] [1/2-13 x 2.000"]	970467 13844 6325
14	Anti-lock Shim	5413
15	Retaining Ring	5747
16	Spring Support	5741
17	Spring Cover	5423
18	Disc Spring	5449
19	Adjustment Shaft	5739
20	Wave Spring	971692
21	Punch Driver	5742
22	Spring	972396
23	Adjustment Locking Ball	972420
24	Index Button	5737
25	Retaining Ring	972441
26	O-Ring	972430



GUIDE
ASSEMBLY



PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly M-12	1842	

PUNCH	CAT. NO.	PRICE
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Round 1/2-13 Thread	1847	
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Round M12 Thread	1933	
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Shape 1/2-13 Thread	1853	
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Shape M12 Thread	1934	
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Optima® Coating		
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STRIPPER	CAT. NO.	PRICE
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Round	1848	
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Shape	1854	
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DIE	CAT. NO.	PRICE
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Round Slug Hugger®*	2196	
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Round Standard	1850	
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Shape Slug Hugger® 2*	12964	
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Shape Positive	1855	
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Shape Negative	1856	
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* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.

DIE SHIM	CAT. NO.	PRICE
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.010 [0.25mm] single	2089	
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.030 [0.76mm] single	2725	
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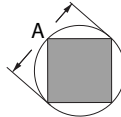
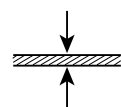
.060 [1.5mm] single	2092	
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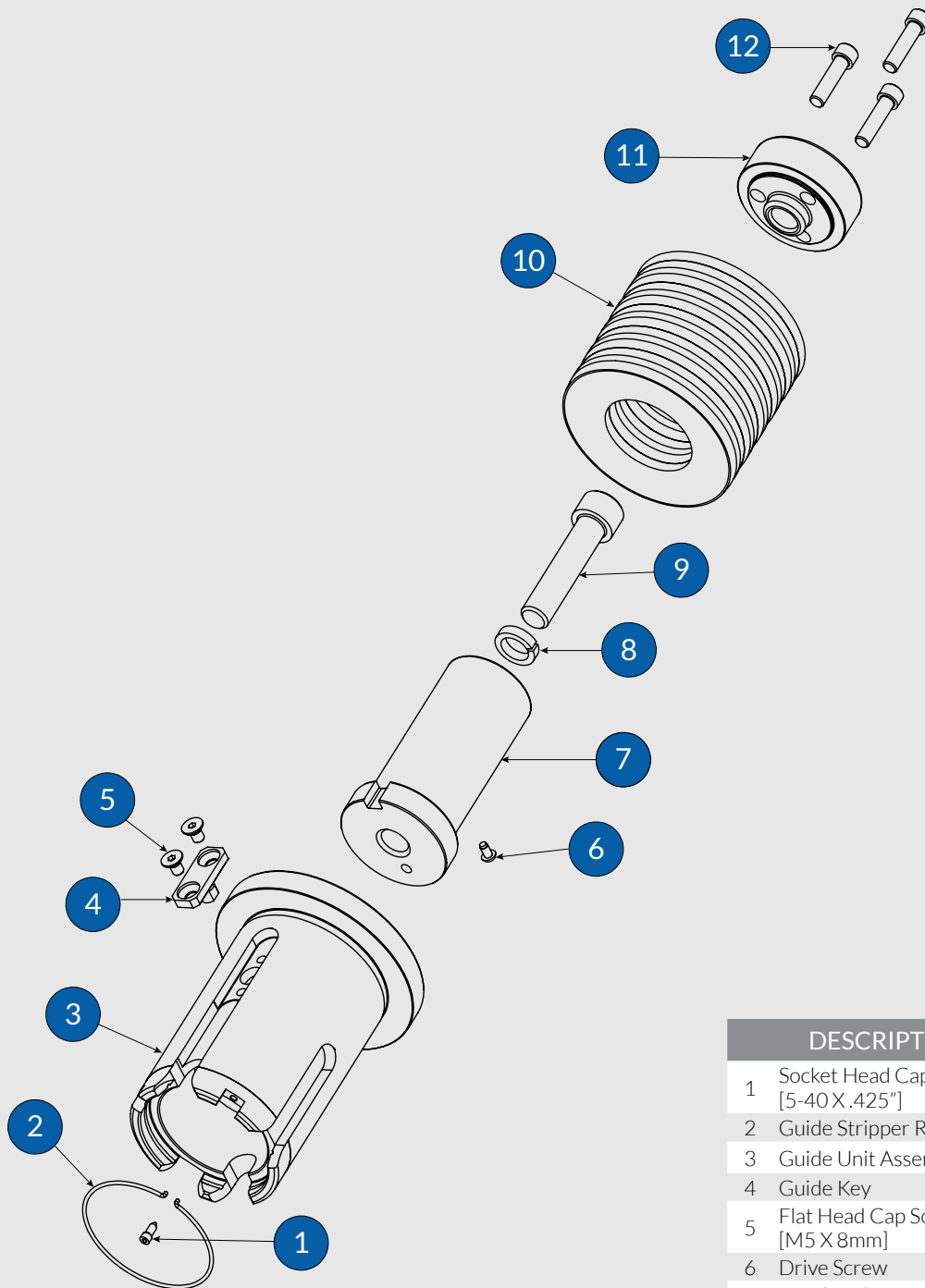
.010 [0.25mm] pack of 10	2210	
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.030 [0.76mm] pack of 10	2726	
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.060 [1.5mm] pack of 10	2174	
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Additional charges may apply to non-standard features.
See page 143.

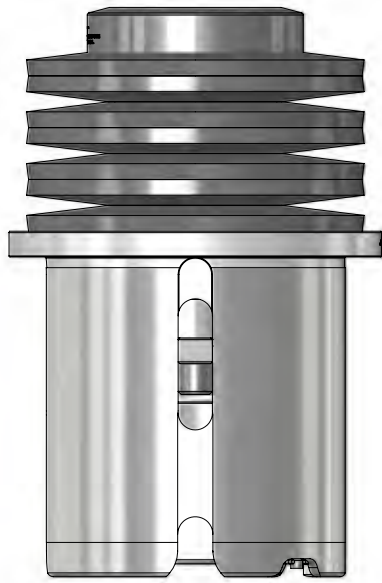
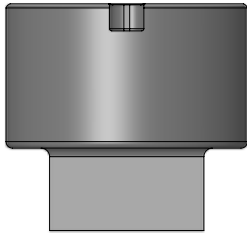
DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Basix assemblies are designed to deliver durability and performance at a lower cost with basic features. Guide assemblies are keyed for shapes at 0°, 90° and 225°.	2.000" [50.8mm] 	.250" [6.35mm] 	All punches shipped with no shear unless specified. 1842 assembly includes 1/2-13 bolt. Dies available in Ultima tool steel upon request.



Cat. No. 1846 Guide Unit Assembly includes:
1, 2, 3, 4 & 5

Cat. No. 1845 Driver Assembly includes:
6 & 7

	DESCRIPTION	CAT. NO.
1	Socket Head Cap Screw [5-40 X .425"]	429
2	Guide Stripper Ring	5035
3	Guide Unit Assembly	1846
4	Guide Key	1834
5	Flat Head Cap Screw [M5 X 8mm]	6567
6	Drive Screw	6666
7	Punch Driver Assembly	1845
8	Lock Washer	432
9	Socket Head Cap Screw (2) [M12 x 55mm] [1/2-13 X 2.250"]	6026 6002
10	Disc Spring	1844
11	Punch Head	1843
12	Socket Head Cap Screw [.250-28 X 1.000"]	6047


GUIDE
ASSEMBLY


PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
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Assembly M-12	1857	
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PUNCH	CAT. NO.	PRICE
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Round 1/2-13 Thread	1863	
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Round M12 Thread	1937	
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Shape 1/2-13 Thread	1868	
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Shape M12 Thread	1938	
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Optima® Coating		
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STRIPPER	CAT. NO.	PRICE
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Round	1864	
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Shape	1869	
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DIE	CAT. NO.	PRICE
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Round Slug Hugger®*	2198	
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Round Standard	1865	
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Shape Slug Hugger® 2*	12965	
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Shape Positive	1870	
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Shape Negative	1871	
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* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.

DIE SHIM	CAT. NO.	PRICE
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.010 [0.25mm] single	2081	
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.030 [0.76mm] single	2727	
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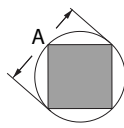
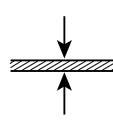
.060 [1.5mm] single	2084	
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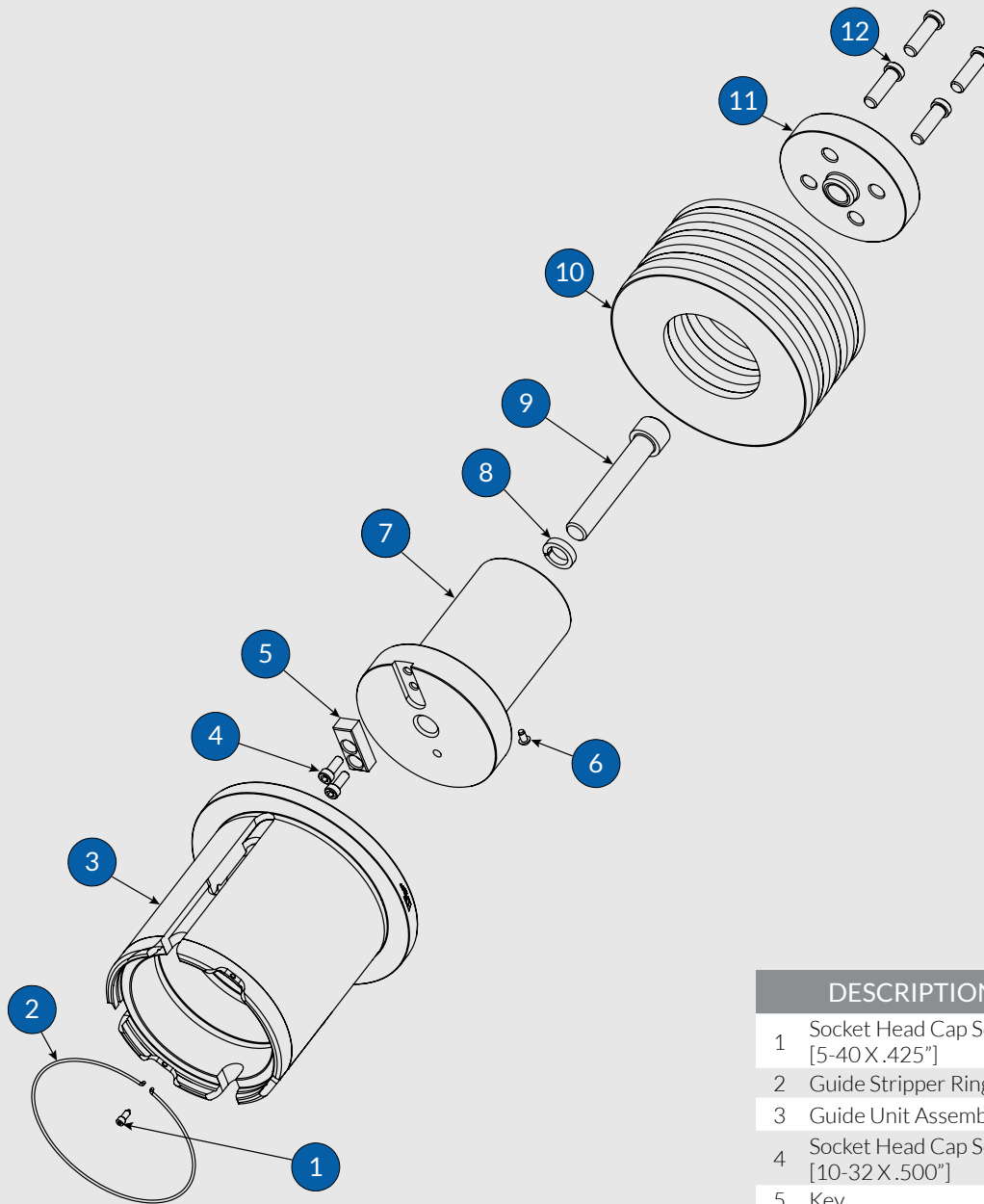
.010 [0.25mm] pack of 5	2211	
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.030 [0.76mm] pack of 5	2728	
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.060 [1.5mm] pack of 5	2175	
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Additional charges may apply to non-standard features. See page 143.

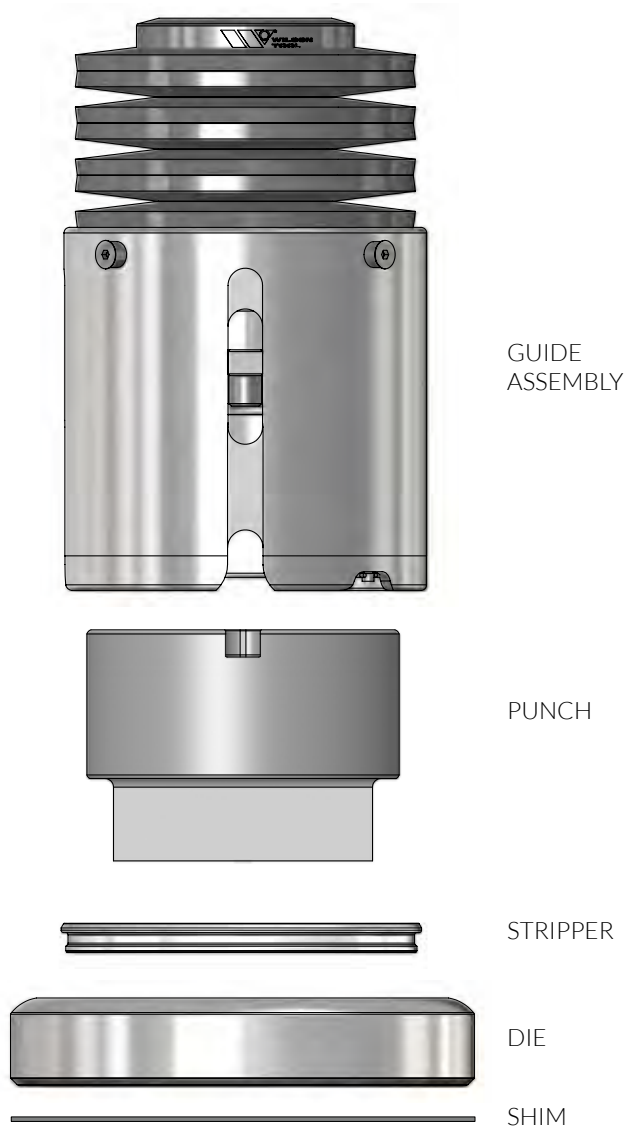
DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Basix assemblies are designed to deliver durability and performance at a lower cost with basic features. Guide assemblies are keyed for shapes at 0°, 90° and 225°.	3.500" [88.9mm] 	.250" [6.35mm] 	.062" [1.6mm] rooftop shear is given to all punches with 'A' dimension > 2.000" [50.8mm] and width > .250" [6.35mm]. 1857 assembly includes 1/2-13 bolt. Dies are available in Ultima tool steel upon request.



Cat. No. 1861 Guide Unit Assembly includes:
1, 2, & 3

Cat. No. 1860 Driver Assembly includes:
6 & 7

	DESCRIPTION	CAT. NO.
1	Socket Head Cap Screw [5-40 X .425"]	429
2	Guide Stripper Ring	5036
3	Guide Unit Assembly	1861
4	Socket Head Cap Screw [10-32 X .500"]	6010
5	Key	1862
6	Drive Screw	6666
7	Punch Driver Assembly	1860
8	Lock Washer	432
9	Socket Head Cap Screw (2) [M12 x 75mm] [1/2-13 X 3.000"]	6027 6003
10	Disc Spring	1859
11	Punch Head	1858
12	Low Head Cap Screw [.312-18 X 1.000"]	6021



GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly	1872	

PUNCH	CAT. NO.	PRICE
Round 1/2-13 Thread	1876	
Round M12 Thread	1941	
Shape 1/2-13 Thread	1881	
Shape M12 Thread	1942	
Optima® Coating		

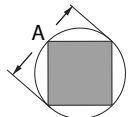
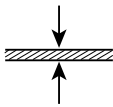
STRIPPER	CAT. NO.	PRICE
Round	1877	
Shape	1882	

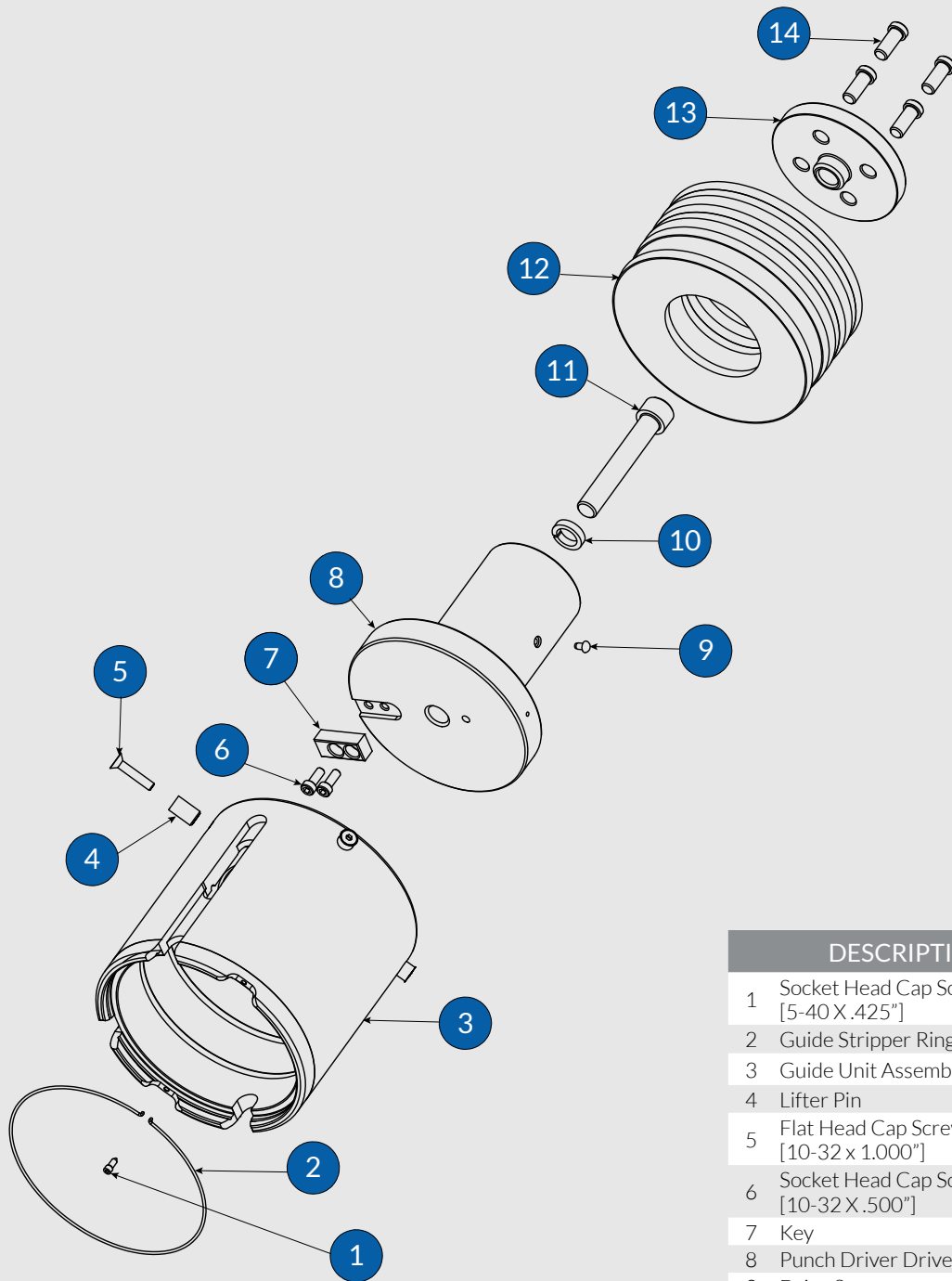
DIE	CAT. NO.	PRICE
Round Slug Hugger®*	2200	
Round Standard	1878	
Shape Slug Hugger® 2*	12967	
Shape Positive	1883	
Shape Negative	1884	

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

DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2073	
.030 [0.76mm] single	2729	
.060 [1.5mm] single	2076	
.010 [0.25mm] pack of 5	2212	
.030 [0.76mm] pack of 5	2730	
.060 [1.5mm] pack of 5	2176	

Additional charges may apply to non-standard features. See page 143.

DESCRIPTION	MAX A DIMENSION	MAX. MATERIAL THICKNESS	NOTES
Basix assemblies are designed to deliver durability and performance at a lower cost with basic features. Guide assemblies are keyed for shapes at 0°, 90° and 225°.	4.500" [114.3mm] 	.250" [6.35mm] 	.062" [1.6mm] rooftop shear is given to all punches with 'A' dimension > 2.000" [50.8mm] and width > .250" [6.35mm]. 1872 assembly includes 1/2-13 bolt. Dies are available in Ultima tool steel upon request.



Cat. No. 1875 Guide Unit Assembly includes:
1, 2, 3, 4, & 5

Cat. No. 1874 Driver Assembly includes:
8 & 9

	DESCRIPTION	CAT. NO.
1	Socket Head Cap Screw [5-40 X .425"]	429
2	Guide Stripper Ring	5037
3	Guide Unit Assembly	1875
4	Lifter Pin	1880
5	Flat Head Cap Screw [10-32 x 1.000"]	2158
6	Socket Head Cap Screw [10-32 X .500"]	6010
7	Key	1862
8	Punch Driver Driver Assembly	1874
9	Drive Screw	6666
10	Lock Washer	432
11	Socket Head Cap Screw (2) [M12 x 75mm] [1/2-13 X 3.000"]	6027 6003
12	Disc Spring	1859
13	Punch Head	1873
14	Low Head Cap Screw [.312-18 X .750"]	6022

ULTIMA® PREMIUM TOOL STEEL IMPROVES DURABILITY AND PERFORMANCE

Available exclusively from Wilson Tool, this advanced steel is engineered to increase wear resistance by up to an astounding 100% over conventional tool steels.

A New Level of Performance

Ultima® punches and dies set a new benchmark for durability and performance, dramatically improving tool life when punching materials that are abrasive or have a high tensile strength. Ultima excels in applications where ordinary punches wear quickly and it is ideal for long-run jobs. It significantly reduces micro chipping, where cutting edge failure most often begins.

Remarkable Downtime Reductions

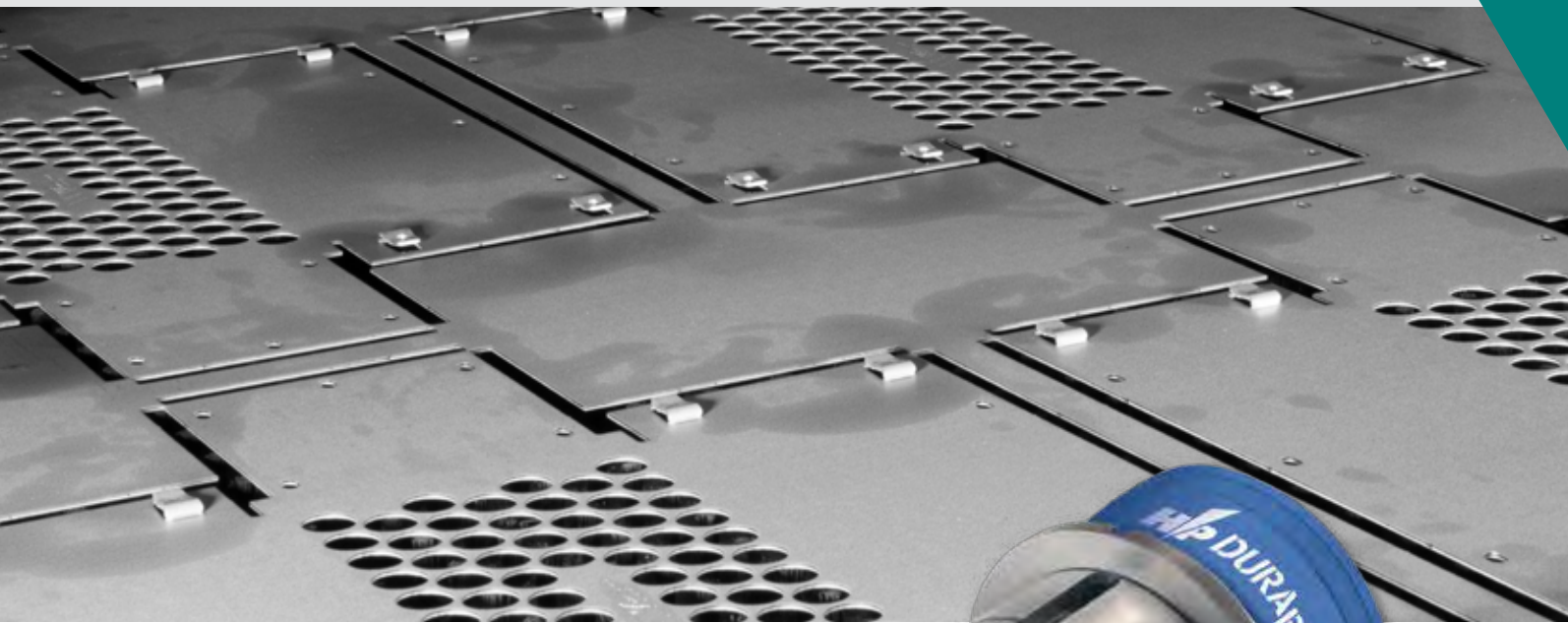
With up to twice as long between regrinds, Ultima punches and dies substantially reduce downtime and tool replacement costs. Breaking, chipping, cracking, tool fatigue and other problems are minimized, providing long-term gains in productivity and profitability.

Ultima premium steel punches and dies are especially useful for the toughest applications, but are effective for any job.



EXP punches shown

PARTING TOOLS



Parting and slitting are common practices

in sheet metal fabrication. Whether you are parting nested parts or straightening the edge of the sheet, you need a product that is rigid and delivers a long tool life.

Wilson Tool developed the Dura-Blade™ and Dura-Die parting products specifically to maximize your productivity for these applications.

Dura-Blade™ features a simple push button adjustment and replaceable cutting blade insert made with Ultima® premium tool steel to significantly increase grind life. The punch blades are supplied flat, or with rooftop shear upon request at no additional charge.

The **Dura-Die parting tool** completes Wilson Tool's ultimate parting solution. When a new die is necessary, simply replace the removable insert and you are quickly back up and running. When combined with our Dura-Blade product, you are able to greatly increase the life of your parting tools. And to help minimize material waste both products are available with a one or two-sided relieved strippers for use in close-to-clamp.





GUIDE
ASSEMBLY



PUNCH



STRIPPER



DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly	5663	
Assembly ABS/WLS	5653	

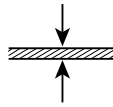
PUNCH	CAT. NO.	PRICE
Blade	5657	
Optima® Coating		

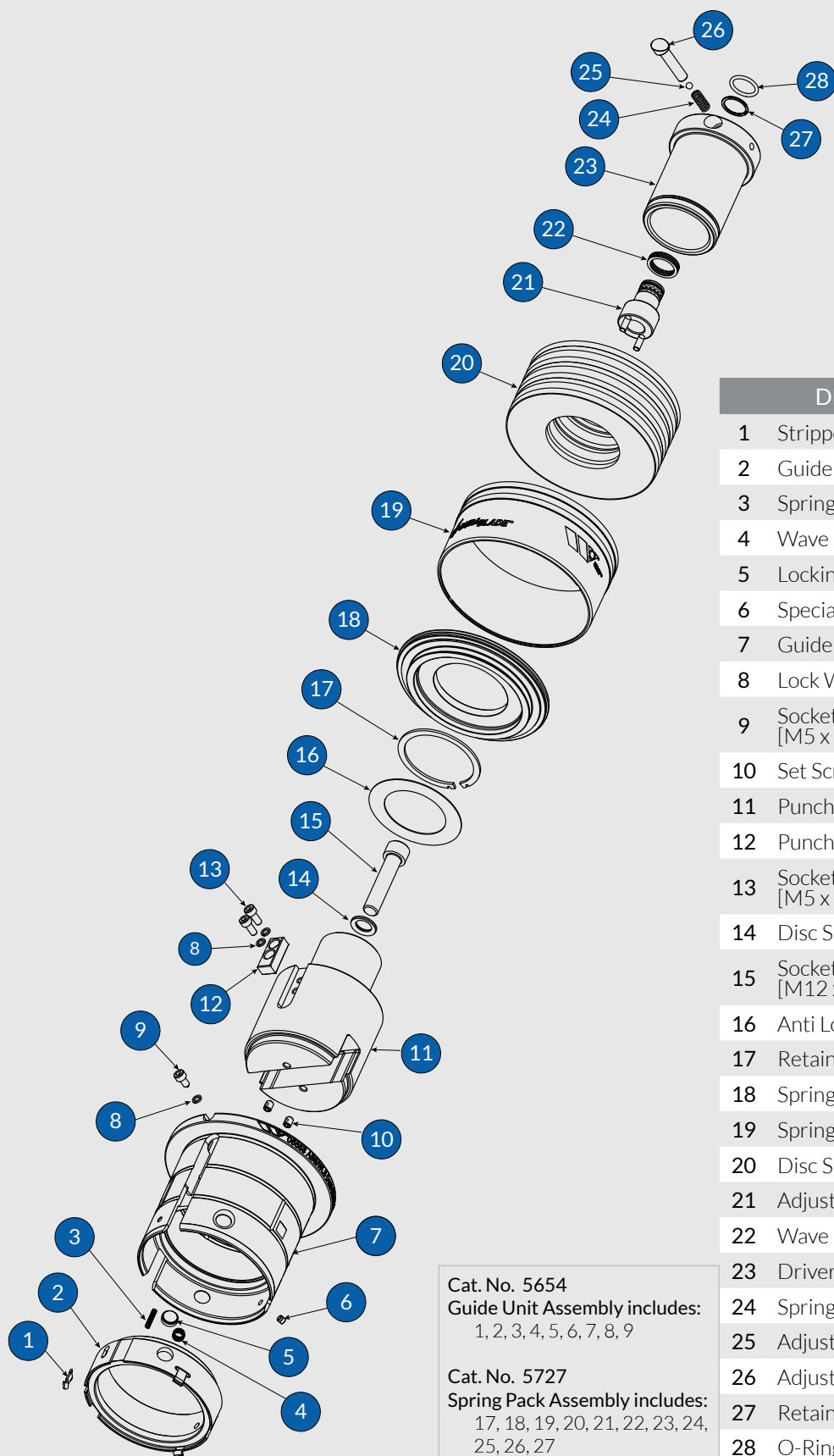
STRIPPER	CAT. NO.	PRICE
One Sided Relief	5665	
One Sided Relief ABS	5666	
Two Sided Relief	5656	
Two Sided Relief ABS	5664	

DIE	CAT. NO.	PRICE
Slug Hugger® 2* (relief 2 sides, shape at 90°)	5499	
Slug Hugger® 2* (relief 2 sides, shape at 0°-90°)	5500	
Slug Hugger® 2* (relief 1 side, shape at 90°)	12966	
Slug Hugger® 2* (relief 1 side, shape at 0°-90°)	5501	
Positive (relief 2 sides, shape at 90°)	5101	
Positive (relief 2 sides, shape at 0°-90°)	5328	
Positive (relief 1 side, shape at 90°)	2462	
Positive (relief 1 side, shape at 0°-90°)	5331	
Negative (relief 2 sides, shape at 90°)	5156	
Negative (relief 2 sides, shape at 0°-90°)	5329	
Negative (relief 1 side, shape at 90°)	2463	
Negative (relief 1 side, shape at 0°-90°)	5332	

* 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	

DESCRIPTION	MAX WIDTH FOR BLADE INSERT	MAX. MATERIAL THICKNESS	NOTES
Dura Blade guide assemblies are keyed for shapes at 0°, 45°, and 90°. Punch blades are Ultima Premium tool steel.	.750" [19.05mm]	.250" [6.35mm] 	Ultima Premium tool steel is available on dies.



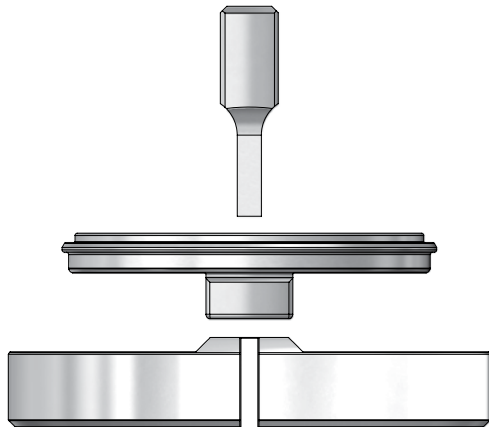
Cat. No. 5654
Guide Unit Assembly includes:
 1, 2, 3, 4, 5, 6, 7, 8, 9

Cat. No. 5727
Spring Pack Assembly includes:
 17, 18, 19, 20, 21, 22, 23, 24,
 25, 26, 27

	DESCRIPTION	CAT. NO.
1	Stripper Clip	5521
2	Guide Stripper Ring	5528
3	Spring	971694
4	Wave Spring	8155
5	Locking Button	5519
6	Special Pin	5522
7	Guide Unit Only	5659
8	Lock Washer	2112
9	Socket Head Cap Screw [M5 x 10.87mm]	5197
10	Set Screw [M6 x 8mm]	6298
11	Punch Holder with Bushing	5655
12	Punch Holder Key	1862
13	Socket Head Cap Screw [M5 x 12mm]	6110
14	Disc Spring	971690
15	Socket Head Cap Screw [M12 x 55mm]	6026
16	Anti Lock Shim	5413
17	Retaining Ring	5747
18	Spring Support	5738
19	Spring Cover	5679
20	Disc Spring	5449
21	Adjustment Shaft	5739
22	Wave Spring	971692
23	Driver	5740
24	Spring	972396
25	Adjustment Locking Ball	972420
26	Adjustment Button	5737
27	Retaining Ring	972441
28	O-Ring	972430



GUIDE
ASSEMBLY



PUNCH

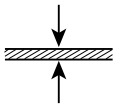
STRIPPER

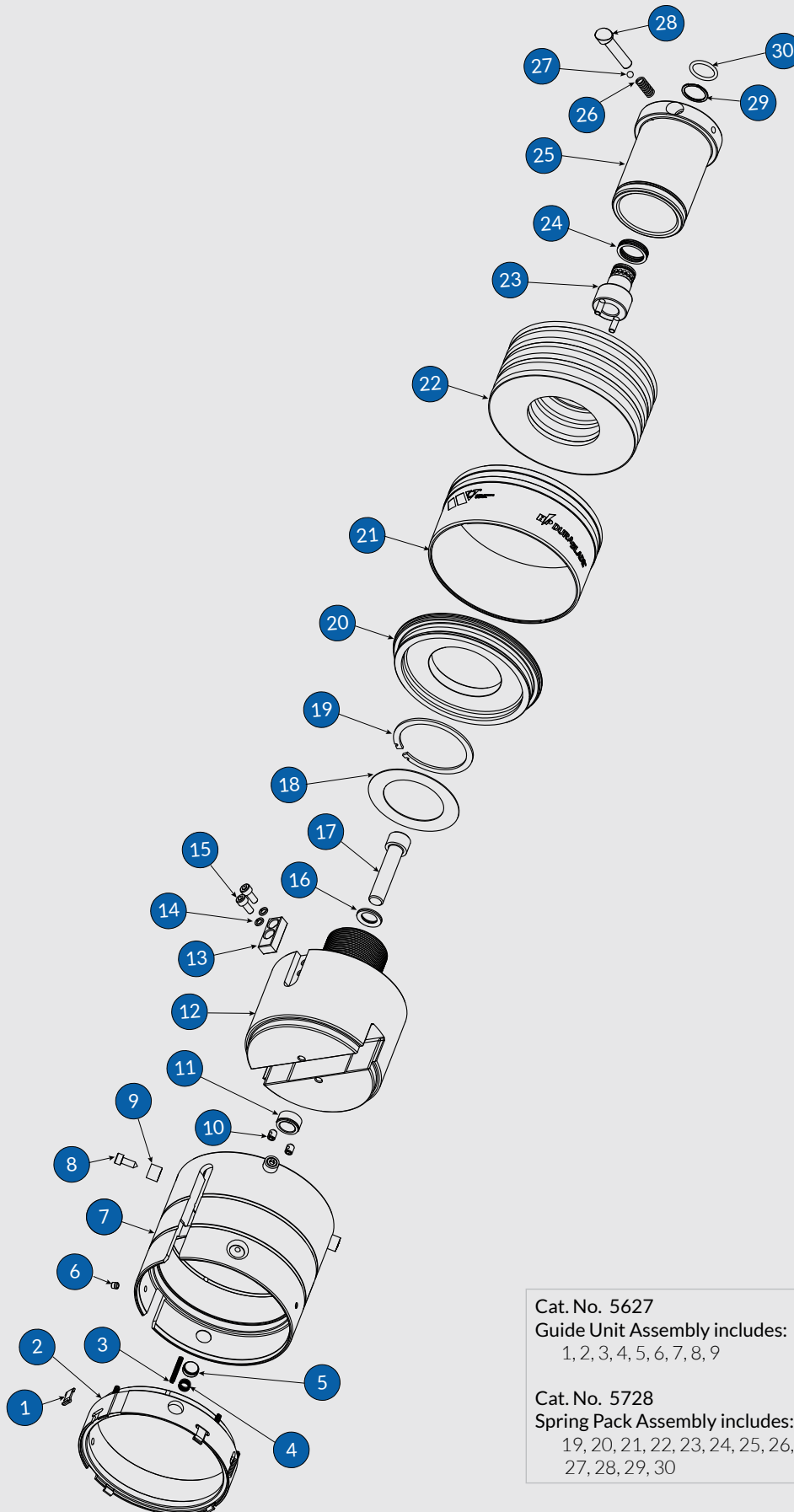
DIE



SHIM

GUIDE ASSEMBLY	CAT. NO.	PRICE
Assembly	5639	
Assembly ABS/WLS	5626	
PUNCH	CAT. NO.	PRICE
Blade	5630	
Optima® Coating		
STRIPPER	CAT. NO.	PRICE
One Sided Relief	5641	
One Sided Relief ABS	5642	
Two Sided Relief	5629	
Two Sided Relief ABS	5640	
DIE	CAT. NO.	PRICE
Slug Hugger® 2* (relief 2 sides, shape at 90°)	5502	
Slug Hugger® 2* (relief 2 sides, shape at 0°-90°)	5503	
Slug Hugger® 2* (relief 1 side, shape at 90°)	12968	
Slug Hugger® 2* (relief 1 side, shape at 0°-90°)	5504	
Positive (relief 2 sides, shape at 90°)	5095	
Positive (relief 2 sides, shape at 0°-90°)	5338	
Positive (relief 1 side, shape at 90°)	2465	
Positive (relief 1 side, shape at 0°-90°)	5341	
Negative (relief 2 sides, shape at 90°)	5158	
Negative (relief 2 sides, shape at 0°-90°)	5339	
Negative (relief 1 side, shape at 90°)	2466	
Negative (relief 1 side, shape at 0°-90°)	5342	
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.		
DIE SHIM	CAT. NO.	PRICE
.010 [0.25mm] single	2073	
.030 [0.76mm] single	2729	
.060 [1.5mm] single	2076	
.010 [0.25mm] pack of 5	2212	
.030 [0.76mm] pack of 5	2730	
.060 [1.5mm] pack of 5	2176	

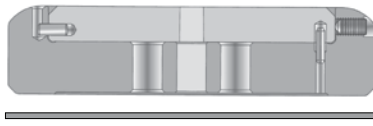
DESCRIPTION	MAX WIDTH FOR BLADE INSERT	MAX. MATERIAL THICKNESS	NOTES
Dura Blade guide assemblies are keyed for shapes at 0°, 45°, and 90°. Punch blades are Ultima Premium tool steel.	.750" [19.05mm]	.250" [6.35mm] 	Ultima Premium tool steel is available on dies.



	DESCRIPTION	CAT. NO.
1	Stripper Clip	5521
2	Guide Stripper Ring	5538
3	Spring	971694
4	Wave Spring	8155
5	Locking Button	5519
6	Special Pin	5522
7	Guide Unit Only	5632
8	Socket Head Cap Screw [M5 x 13.39mm]	5210
9	Lifter Button	5209
10	Set Screw [M6 x 8mm]	6298
11	Bushing	5631
12	Punch Holder with Bushing	5628
13	Punch Holder Key	1862
14	Lock Washer	2112
15	Socket Head Cap Screw [M5 x 12mm]	6110
16	Disc Spring	971690
17	Socket Head Cap Screw [M12 x 55mm]	6026
18	Anti Lock Shim	5413
19	Retaining Ring	5747
20	Spring Support	5741
21	Spring Cover	5679
22	Disc Spring	5449
23	Adjustment Shaft	5739
24	Wave Spring	971692
25	Driver	5742
26	Spring	972396
27	Adjustment Locking Ball	972420
28	Adjustment Button	5737
29	Retaining Ring	972441
30	O-Ring	972430

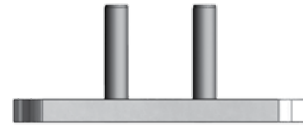
Cat. No. 5627
Guide Unit Assembly includes:
 1, 2, 3, 4, 5, 6, 7, 8, 9

Cat. No. 5728
Spring Pack Assembly includes:
 19, 20, 21, 22, 23, 24, 25, 26,
 27, 28, 29, 30



Die Assembly

Shim



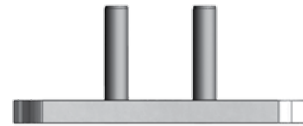
Knock Out Tool

SLITTING DURA-DIE	QTY.	'C' STATION		'D' STATION		'E' STATION	
		CAT. NO.	PRICE	CAT. NO.	PRICE	CAT. NO.	PRICE
Insert - Positive	1	12991		13008		13013	
Insert - SlugHugger 2	1	12992		13009		13014	
*Die Base Assembly at 0° and 90°	1	12989		13006		13015	
Die Base		12990		13007		13016	
Shim Pack	1	12995		13012		13017	
Knock Out Tool		24310		24310		24313	
Maximum length		2.008" [51mm]		3.386" [86mm]		4.400" [111.8mm]	
Maximum width		.276" [7mm]		.250" [6.35 mm]		.375" [9.52mm]	
Maximum clearance for maximum length		.020" [.51mm]		.040" [1.02mm]		.030" [.76mm]	



Die Assembly

Shim



Knock Out Tool

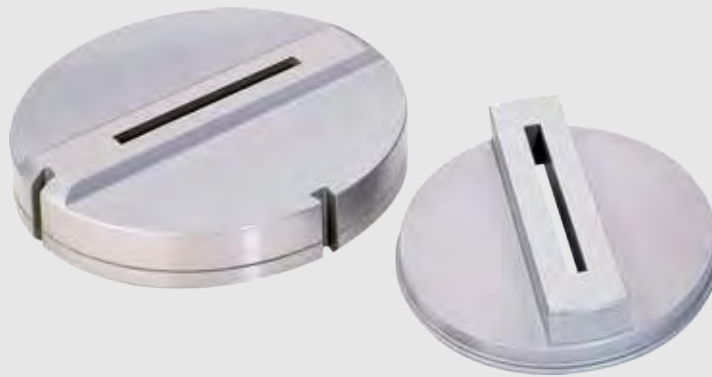
CLOSE-TO-CLAMP SLITTING DURA-DIE	QTY.	'D' STATION		'E' STATION	
		CAT. NO.	PRICE	CAT. NO.	PRICE
Insert - Positive (relief 2 sides)	1	13281		13289	
Insert - SlugHugger 2 (relief 2 sides)	1	13282		13290	
Die Base Assembly at 0° and 90°	1	13276		13284	
Die Base		13278		13286	
Shim Pack	1	13012		13017	
Knock Out Tool		24310		24313	
Maximum length		3.189" [81mm]		4.400" [111.8mm]	
Maximum width		.276" [7mm]		.375" [9.52mm]	
Maximum clearance for maximum length		.020" [.51mm]		.030" [.76mm]	

NOTES

All die assemblies include die base, knock out tool, and shim pack.

Die inserts are Ultima Premium tool steel.

Die insert ordered separately.



'D' STATION

PUNCH		CAT. NO.	PRICE
Thin Clamps	S-80	5027	
Thick Clamp	S-80/90	5114	
Optima® Coating			
STRIPPER		CAT. NO.	PRICE
Thin Clamps	S-80	5100	
Thick Clamp	S-80/90	5115	
Thick Clamp	S-90	5399	
Thick Clamp	S-90 ABS	5360	
DIE		CAT. NO.	PRICE
Slug Hugger® 2* (relief 2 sides, shape at 90°)		5499	
Slug Hugger® 2* (relief 2 sides, shape at 0°-90°)		5500	
Slug Hugger® 2* (relief 1 side, shape at 90°)		12966	
Slug Hugger® 2* (relief 1 side, shape at 0°-90°)		5501	
Positive (relief 2 sides, shape at 90°)		5101	
Positive (relief 2 sides, shape at 0°-90°)		5328	
Positive (relief 1 side, shape at 90°)		2462	
Positive (relief 1 side, shape at 0°-90°)		5331	
Negative (relief 2 sides, shape at 90°)		5156	
Negative (relief 2 sides, shape at 0°-90°)		5329	
Negative (relief 1 side, shape at 90°)		2463	
Negative (relief 1 side, shape at 0°-90°)		5332	

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

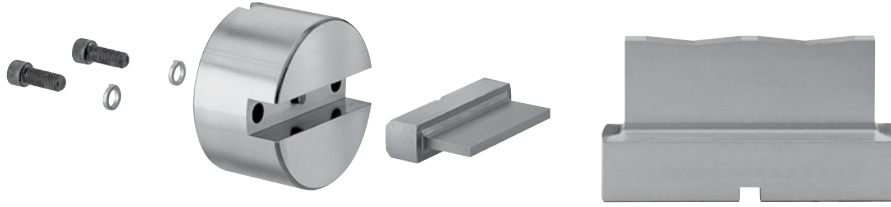
'E' STATION

PUNCH		CAT. NO.	PRICE
Thin Clamps	S-80	5029	
Thick Clamp	S-80/90	5109	
Optima® Coating			
STRIPPER		CAT. NO.	PRICE
Thin Clamps	S-80	5094	
Thick Clamp	S-80/90	5110	
Thick Clamp	S-90	5400	
Thick Clamp	S-90 ABS	5385	
DIE		CAT. NO.	PRICE
Slug Hugger® 2* (relief 2 sides, shape at 90°)		5502	
Slug Hugger® 2* (relief 2 sides, shape at 0°-90°)		5503	
Slug Hugger® 2* (relief 1 side, shape at 90°)		12968	
Slug Hugger® 2* (relief 1 side, shape at 0°-90°)		5504	
Positive (relief 2 sides, shape at 90°)		5095	
Positive (relief 2 sides, shape at 0°-90°)		5338	
Positive (relief 1 side, shape at 90°)		2465	
Positive (relief 1 side, shape at 0°-90°)		5341	
Negative (relief 2 sides, shape at 90°)		5158	
Negative (relief 2 sides, shape at 0°-90°)		5339	
Negative (relief 1 side, shape at 90°)		2466	
Negative (relief 1 side, shape at 0°-90°)		5342	

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

NOTES

All punches will be shipped with no shear unless specified.



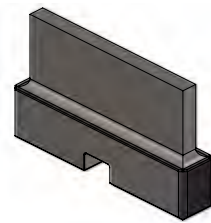
REPLACEABLE INSERT ASSEMBLY

STATION	MAX BLADE WIDTH inch [mm]	BODY (1/2" - 13)		BODY (M - 12)		PUNCH INSERT		SET (1/2" - 13)		SET (M - 12)	
		CAT. NO.	PRICE	CAT. NO.	PRICE	CAT. NO.	PRICE	CAT. NO.	PRICE	CAT. NO.	PRICE
'C'	.750 [19]	2623		2625		2590		2568		2624	
'D'	.750 [19]	1966		2286		1967		1965		2372	
'E'	.750 [19]	1969		2287		1970		1968		2373	

PARTS DESCRIPTION

	CAT. NO.	PRICE
Socket Head Cap Screw – 3/8" - 16 x 1-1/2" long for 2" (C) station	6391	
Socket Head Cap Screw – 3/8" - 16 x 1" long for 3-1/2" (D), 4-1/2" (E) & 6" (F) stations	6019	
High Collar Lock Washer for 3/8" screw	2129	
Dowel Pin – 1/4" Dia. x .450" long (All Stations)	6004	

DESCRIPTION	NOTES
Optima® coating is standard on punch inserts. Inserts are available as Obround to be used with rectangle die to eliminate 'saw-tooth effect'. Punch insert is compatible with Amada's Insert Parting Tool (.750" wide blade	Blade insert punches < .375" [9.53mm] in width are shipped with no shear unless specified. Double Valley Shear is recommended for widths of .187" [4.75mm] - .375" [9.53mm] and minimum lengths of 2.000" [50.8mm] when used for nibbling.



MATE STYLE BLADE	MAX BLADE WIDTH inch [mm]	CAT. NO.	PRICE
'C' Station	.708 [18]	15547	
'D' Station	.708 [18]	14046	
'E' Station	.708 [18]	14047	
Optima® Coating			

AMADA STYLE BLADE	MAX BLADE WIDTH inch [mm]	ALPHA		STANDARD		
		CAT. NO.	PRICE	MAX BLADE WIDTH inch [mm]	CAT. NO.	PRICE
'C' Station	-	-	-	1.102 [28]	14180	
'D' Station	.787 [20]	14044		.630 [16]	14201	
'E' Station	.787 [20]	14045		.630 [16]	14202	
Optima® Coating						



ULTRA™ PUNCH	CAT. NO.	PRICE
'A' Station Round	13715	
'A' Station Shape	13716	
'B' Station Round	13717	
'B' Station Shape	13718	
ULTRA™ STRIPPER	CAT. NO.	PRICE
'A' Station Round	15500	
'A' Station Shape	15501	
'A' Station Round ABS	15502	
'A' Station Shape ABS	15503	
'B' Station Round	15504	
'B' Station Shape	15505	
'B' Station Round ABS	15506	
'B' Station Shape ABS	15507	
'C' Station Round	15508	
'C' Station Shape	15509	
'C' Station Round ABS	15510	
'B' Station Shape ABS	15511	
'D' Station Round	15512	
'D' Station Shape	15513	
'D' Station Round ABS	15514	
'D' Station Shape ABS	15515	
'E' Station Round	15516	
'E' Station Shape	15517	
'E' Station Round ABS	15518	
'E' Station Shape ABS	15519	

**Mate Ultra is a trademark of Mate Precision Tooling. Wilson Tool offers Mate Ultra tooling under an exclusive license agreement with Mate Precision tooling.*

DESCRIPTION
Wilson Tool's Ultra Replacement punches and strippers are 100% compatible with Ultra guide assemblies and holders.
Optima coating available for punches.

THE TOOLS FOR YOUR SUCCESS

While this catalog certainly contains many of the physical tools you may need to be successful, we at Wilson Tool also equip you with a variety of educational opportunities that are designed to help drive your success as well.

We encourage you to take advantage of the many free resources offered by some of our leading technical experts covering a wide variety of topics.

These educational opportunities include:

SOLUTION-FOCUSED NEWSLETTERS

These are designed to not just be a monthly sales pitch, but practical solutions to common and not-so-common fabrication issues.

EDUCATIONAL WEBINARS

Designed to help resolve specific fabrication and stamping issues, these webinars offer practical material to help solve real-world problems. And they are recorded so if you miss a live event, you can always go back and view the recording later.

IN-PERSON SEMINARS

From seminars on implementing a Lean program at your facility to Fabrication Forums that offer an entire day of solution-based content, these seminars always receive high marks from the attendees for not only the information but also in the way it is presented.



For more information about any or all of these educational opportunities, ask your Sales Engineer or visit wilsontool.com

MULTI-TOOLS



Multi-Tools enable you to load the equivalent of 3, 8, or even 20 smaller tools in a single station. This increases your turret capacity and reduces set-up times and costs. Wilson Multi-Tools are engineered with the strongest available tool steel.

MTX 'R' Series

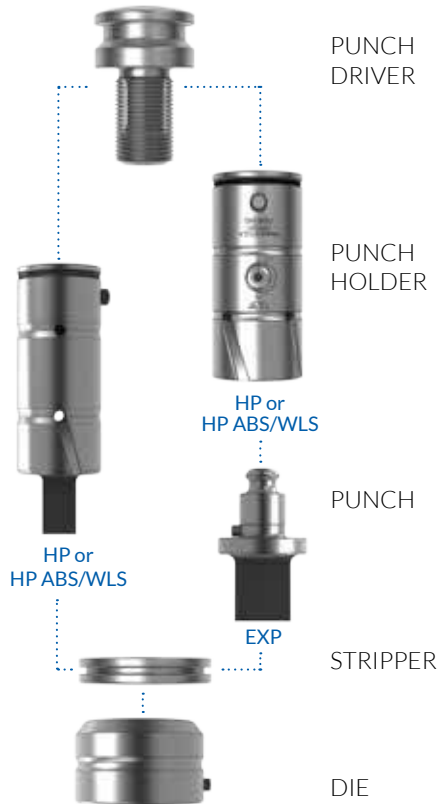
With easier than ever tool-less adjustments and changes, with no additional tooling inventory needed. With HP and EXP thick turret punches, strippers and dies, you can maximize grind life and lower tooling costs.

- Punch at any angle from 0° - 360°
- 3 station and 8 station options
- Adjust punch length with a simple twist of the punch driver
- Visual guide groove makes setting tool length a snap
- Punches are held in the 'up' position when not in use, leaving material mark-free
- Internal lube port keeps all parts moving smoothly
- Optional coatings provide exceptional wear resistance

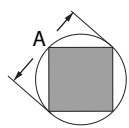


MT7A

This consolidates up to seven punches into a single tool, reducing multiple set-ups. The drop-in style allows punches to be loaded or unloaded quickly and easily and accepts all styles of 'A' station punch and guide assemblies and dies.

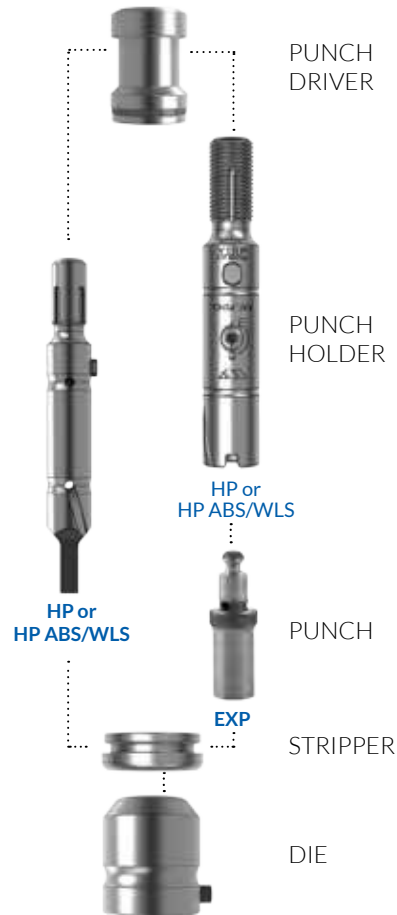


UPPER & LOWER ASSEMBLY	CAT. NO.
MTX3IR Assembly	Call Sales Desk
<i>Tool kit with punch drivers included</i>	
PUNCH DRIVER	CAT. NO.
Punch Driver	45481
Tool Kit	7024
PUNCH	CAT. NO.
*HP Round	2407
*HP Shape	2408
*HP Round ABS	2398
*HP Shape ABS	2399
** EXP Round	13916
** EXP Shape	13917
Optima® Coating	-
*Requires a Punch Driver [45481]	
** Requires an EXP punch holder and driver [13918, 45481]	
PUNCH HOLDER	CAT. NO.
EXP Shape HP	13989
EXP Shape HP ABS/WLS	13918
STRIPPER	CAT. NO.
Round	1890
Shape	1917
Round ABS	2433
Shape ABS	2432
DIE	CAT. NO.
Round Slug Hugger®*	2194
Round Standard	2021
Shape Slug Hugger® 2*	12961
Shape Positive	2025
Shape Negative	2026
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.	

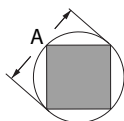
INFORMATION NEEDED	MACHINE COMPATIBILITY	MAX A DIMENSION	MAX. MATERIAL THICKNESS
- Machine Make - Machine Model - Machine Serial Number	Available for the following machine makes: Prima Power LVD Strippit Durma Baykal Murata Wiedemann Thick	1.250" [31.75mm] 	16 Tons Max [142 Kn] .250" [6.35mm] 

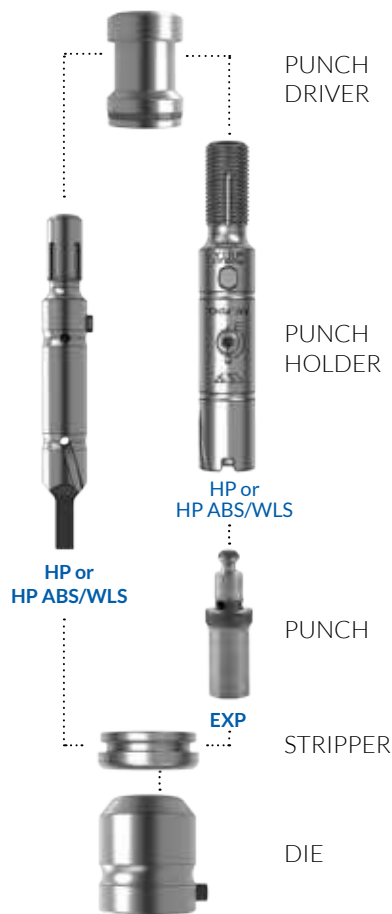


UPPER & LOWER ASSEMBLY	CAT. NO.
MTX8iR Assembly	
<i>Tool kit with punch drivers included</i>	Call Sales Desk
PUNCH DRIVER	CAT. NO.
Punch Driver	45493
Tool Kit	7025
PUNCH	CAT. NO.
*HP Round	2405
*HP Shape	2406
*HP Round ABS	2385
*HP Shape ABS	2389
** EXP Round	13904
** EXP Shape	13905
Optima® Coating	-
* Requires a Punch Driver	
** Requires an EXP punch holder and driver	
PUNCH HOLDER	CAT. NO.
EXP Shape HP	13975
EXP Shape HP ABS/WLS	13906
STRIPPER	CAT. NO.
Round	13044
Shape	13143
Round ABS	13045
Shape ABS	13152
DIE	CAT. NO.
Round Slug Hugger®*	2192
Round Standard	1808
Shape Slug Hugger® 2*	12959
Shape Positive	1817
Shape Negative	1818
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.	

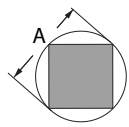


MAX. MATERIAL THICKNESS	MAX 'A' DIMENSION	MACHINE COMPATIBILITY	INFORMATION NEEDED
7 Tons Max [62 Kn] .250" [6.35mm]	.500" [12.7mm]	Available for the following machine makes: Prima Power LVD Strippit Durma Baykal Murata Wiedemann Thick	- Machine Make - Machine Model - Machine Serial Number





UPPER & LOWER ASSEMBLY	CAT. NO.
MTX8i	Call Sales Desk
<i>Tool kit with punch drivers included</i>	
PUNCH DRIVER	CAT. NO.
Punch Driver	45493
Tool Kit	7025
PUNCH	CAT. NO.
*HP Round	2405
*HP Shape	2406
*HP Round ABS	2385
*HP Shape ABS	2389
** EXP Round	13904
** EXP Shape	13905
Optima® Coating	-
* Requires a Punch Driver	
** Requires and EXP punch holder and driver	
PUNCH HOLDER	CAT. NO.
EXP Shape HP	13975
EXP Shape HP ABS/WLS	13906
STRIPPER	CAT. NO.
Round	13044
Shape	13143
Round ABS	13045
Shape ABS	13152
DIE	CAT. NO.
Round Slug Hugger®*	2192
Round Standard	1808
Shape Slug Hugger® 2*	12959
Shape Positive	1817
Shape Negative	1818
* Slug Hugger dies must be ordered punch size plus clearance. Size restrictions apply.	

INFORMATION NEEDED	MACHINE COMPATIBILITY	MAX A DIMENSION	MAX. MATERIAL THICKNESS
- Machine Make - Machine Model - Machine Serial Number	Available for the following machine makes: Prima Power	.500" [16mm] 	7 Tons Max [62 Kn] .250" [6.35mm] 

UPPER & LOWER ASSEMBLY	CAT. NO.
MT20i	Call Sales Desk
PUNCH	CAT. NO.
Round	6838
Shape	6839
Optima® Coating	-
STRIPPER	CAT. NO.
Round	6829
Shape	35079
DIE	CAT. NO.
Round Slug Hugger®*	6185
Round Standard	6081
Shape Slug Hugger® 2*	6885
Shape Positive	6149
Shape Negative	6190

* Slug Hugger dies must be ordered punch size plus clearance:

.098" [2.49mm] minimum dia. on rounds
 .060" [1.52mm] minimum width on shapes
 .006" [0.15mm] minimum



PUNCH



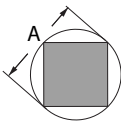
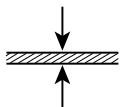
STRIPPER



DIE

MT20i Assembly



INFORMATION NEEDED	MACHINE COMPATIBILITY	MAX A DIMENSION	MAX. MATERIAL THICKNESS
- Machine Make - Machine Model - Machine Serial Number	Available for the following machine makes: Prima Power LVD Strippit Goiti Danobat Rainer JFY	.315" [8mm] 	.197" [5mm] mild steel and Aluminum .078" [2mm] stainless steel 

MT6A Assembly



DESCRIPTION	CAT. NO.
MT6A Punch & Die Assembly	45258
Upper Assembly	45107
Lower Assembly	45241

This Multi-Tool accepts all styles of 'A' station punch and guide assemblies and dies.

MT7A Assembly



DESCRIPTION	CAT. NO.
MT7A Punch & Die Assembly	13637
Upper Assembly	13638
Lower Assembly	13639

This Multi-Tool accepts all styles of 'A' station punch and guide assemblies and dies.

MT3iR

PUNCH	CAT. NO.
Round Punch & Driver Assembly	35306
Round Punch	2398
Shape Punch & Driver Assembly	35296
Shape Punch	2399
Optima® Coating	-
STRIPPER	CAT. NO.
Round	77232
Shape	77233
DIE	CAT. NO.
Round Slug Hugger®*	77236
Round Standard	77234
Shape Slug Hugger® 2*	77237
Shape Positive	77235

Max 'A' Dim
1.250" [31.75mm]



MT8iR

PUNCH	CAT. NO.
Round Punch	6835
Shape	6836
Optima® Coating	-
STRIPPER	CAT. NO.
Round	474
Shape	473
DIE	CAT. NO.
Round Slug Hugger®*	6177
Round Standard	6164
Shape Slug Hugger® 2*	6889
Shape Positive	6165
Shape Negative	6178

Max 'A' Dim
.630" [16mm]



MT 6-16 & MT 10-16

PUNCH	CAT. NO.
Round Punch	6075
Shape	6076
Optima® Coating	-
STRIPPER	CAT. NO.
Round	6073
Shape	6074
DIE	CAT. NO.
Round Slug Hugger®*	6187
Round Standard	6077
Shape Slug Hugger® 2*	6883
Shape Positive	6078
Shape Negative	6192

Max 'A' Dim
.630" [16mm]



MT 12-8

PUNCH	CAT. NO.
Round Punch	6080
Optima® Coating	-
STRIPPER	CAT. NO.
Round	6079
DIE	CAT. NO.
Round Slug Hugger®*	6185
Round Standard	6081

Max 'A' Dim
.315" [8mm]



MT 6-24 & MT 8-24

PUNCH	CAT. NO.
Round Punch	6150
Shape	6153
Optima® Coating	-
STRIPPER	CAT. NO.
Round	6151
Shape (.750", 19.05mm Max 'A' dim)	6827
Shape (7.756", 19.05mm 'A' dim)	6154
DIE	CAT. NO.
Round Slug Hugger®*	6189
Round Standard	6152
Shape Slug Hugger® 2* .750" max	6886
Shape Slug Hugger® 2* >.750"	6887
Shape Positive .750" max	6828
Shape Positive >.750"	6155
Shape Negative .750" max	6830
Shape Negative .750" max	6194

Max 'A' Dim
.945" [24mm]



MT 20-8 & MT 24-8

PUNCH	CAT. NO.
Round Punch	6080
Shape	6147
Optima® Coating	-
STRIPPER	CAT. NO.
Round	6146
Shape	6148
DIE	CAT. NO.
Round Slug Hugger®*	6185
Round Standard	6081
Shape Slug Hugger® 2*	6885
Shape Positive	6149
Shape Negative	6190

Max 'A' Dim
.315" [8mm]



*Slug Hugger dies must be ordered punch size plus clearance.

SPECIALS



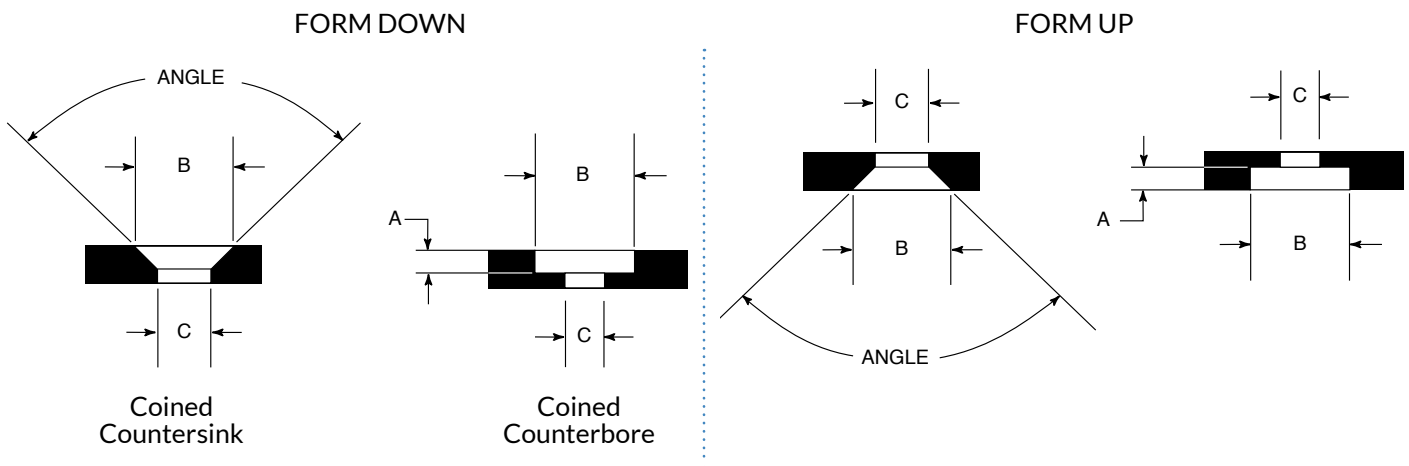
Incorporating forming applications into your fabrication can add value to your processes while reducing cost by boosting efficiencies and eliminating secondary operations.

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:
 $B - [(B - C) \times .75] = \text{Pre-punch}$

COMMON IN STATION SIZES:



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



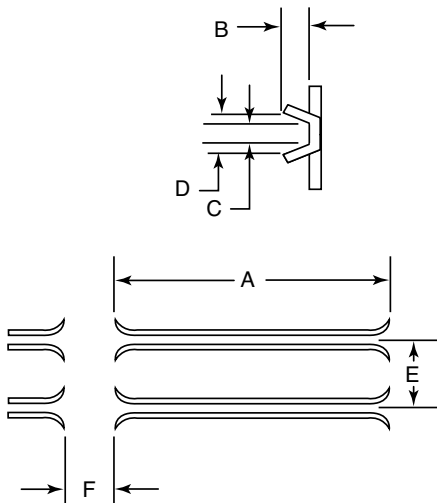
Standard



Wrap Around



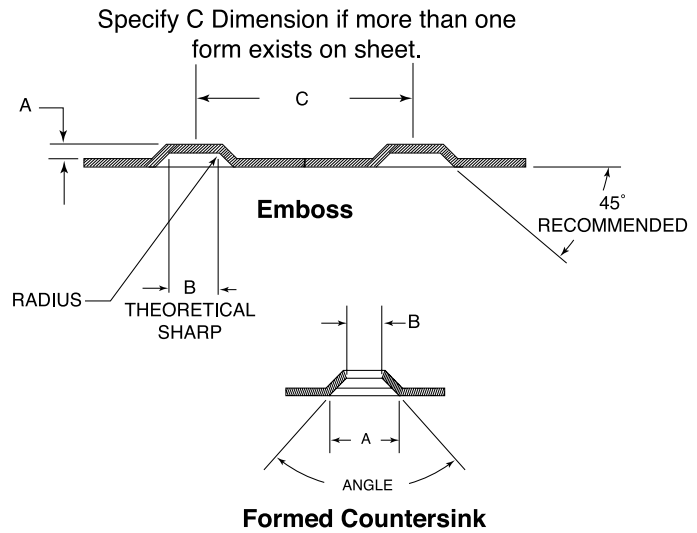
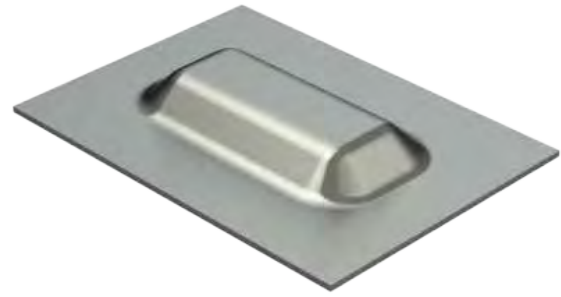
Closed End



COMMON IN STATION SIZES:



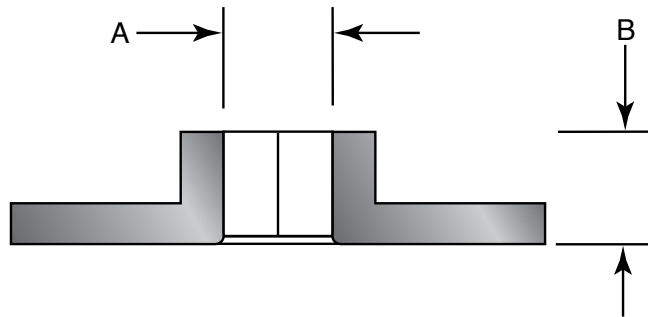
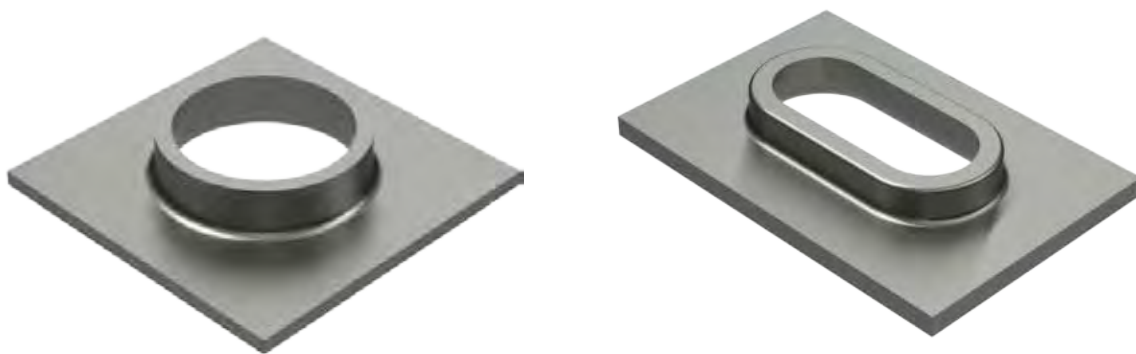
APPLICATION	ADVANTAGES	INFORMATION NEEDED
A card guide is used for retaining printed circuit boards that require standard lead-in or special lead-in shapes. Wilson Tool will estimate the web of material to be formed on all card guides and the pre-punch shape and size on special lead-in card guides.	- 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 - Tooling is ABS/WLS capable - 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.



COMMON IN STATION SIZES:



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. - A and B 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



COMMON IN STATION SIZES:



APPLICATION	ADVANTAGES	INFORMATION NEEDED
Extrusions are used in a broad spectrum of applications: • Self-tapping screws • Cooling tube holders • Air flow applications • Tread plates	• B 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. • The large station holder is ABS/WLS capable. • 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



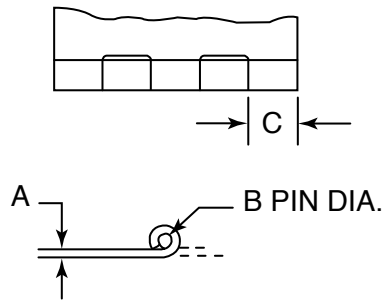
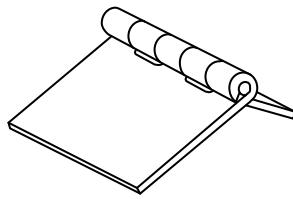
Offset Fully Curled Hinge



Standard Fully Curled Hinge



One-Hit Half Knuckle Hinge



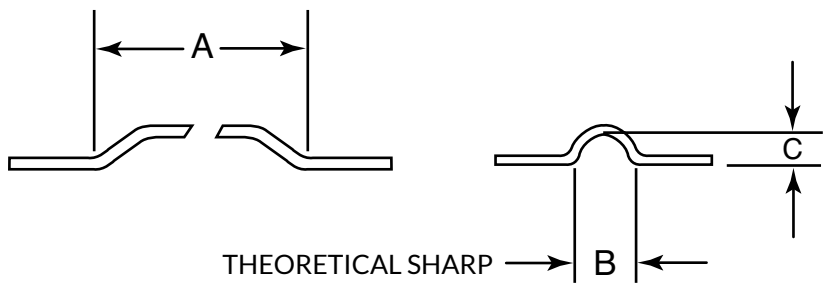
COMMON IN STATION SIZES:



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)



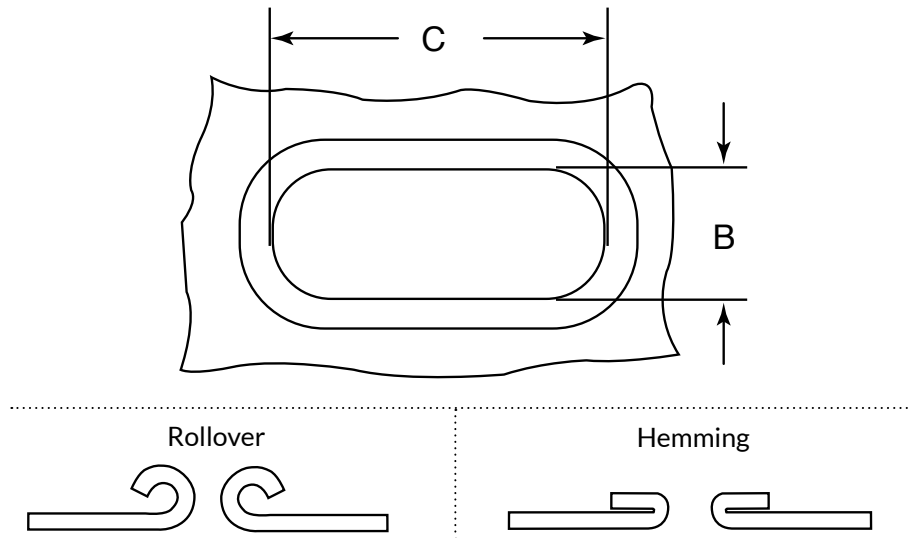
See this tool in action on the Wilson Tool YouTube Channel



COMMON IN STATION SIZES:



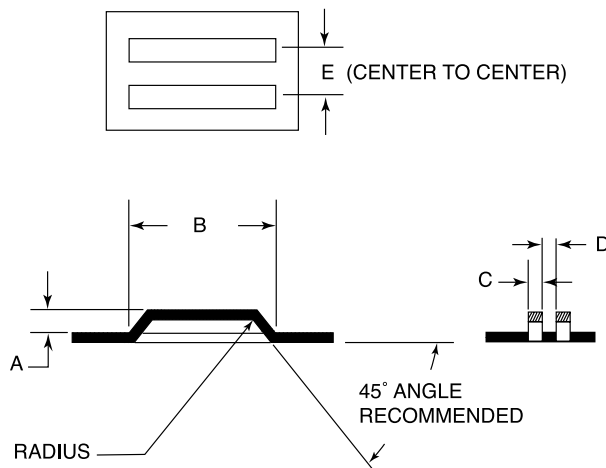
APPLICATION	ADVANTAGES	INFORMATION NEEDED
A progressive rib produces quality stiffening ribs, programmable to any length. Rounded or flat top ribs are available. For best results, inside radius should be equal to or greater than the height. Run in nibbling mode recommended (incremental moves should be equal to the material thickness or less).	The large station universal holder provides fast and easy length adjustments, 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. The large station holder is ABS/WLS capable.	• Machine model • Material thickness and type • Dimensional drawing or electronic file • Specify center-to-center if more than one form exists on the sheet



COMMON IN STATION SIZES:



APPLICATION	ADVANTAGES	INFORMATION NEEDED
Rollover and hemming tools can be used in many applications such as hand holds, wire feeds and grommets. - 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.	- Reduces costly secondary operations and handling. - Designed and manufactured to produce consistent results. - Multiple coating options available to extend tool life.	- Machine model - Material thickness and type - Diameter or length and width of opening (C, B) - Tolerance of opening - What type of application (hand hold, wire feed, etc.) - Style of guide assembly

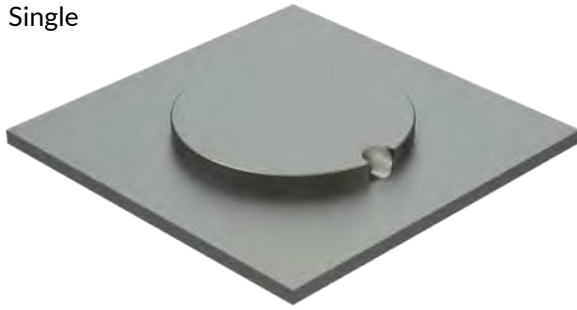


COMMON IN STATION SIZES:

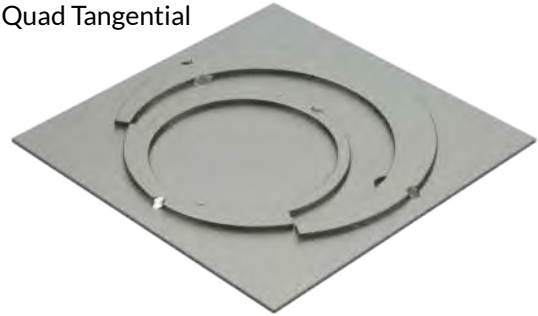


APPLICATION	ADVANTAGES	INFORMATION NEEDED
Bridge style lance and forms can be used for shear stops, locators, card guides, dividers, ventilation and wire tie downs.	The Wilson design creates a positive form ensuring a high quality, consistent part. Small and large station holders provide both cost savings 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. The large station holder is ABS/WLS ready. 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

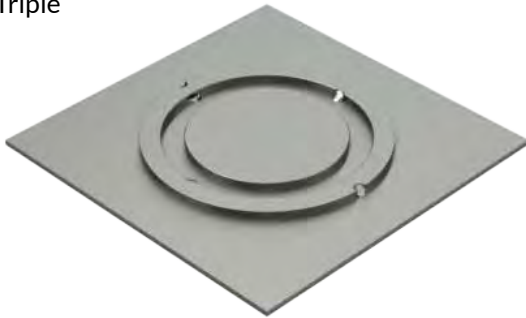
Single



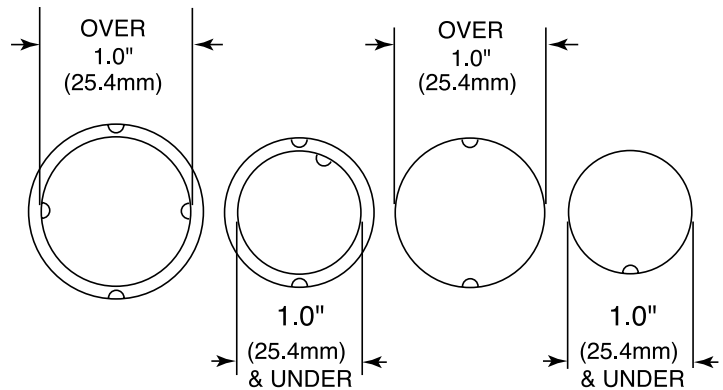
Quad Tangential



Triple



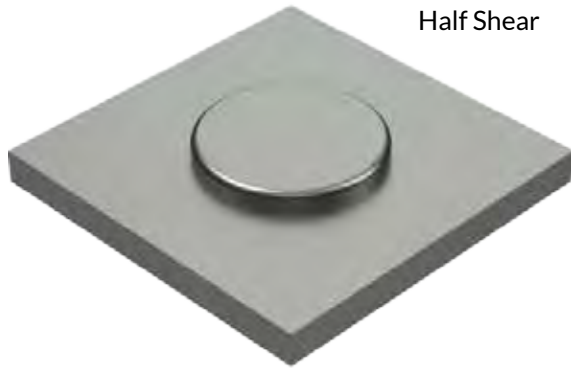
Standard Wilson Tool Tab Location



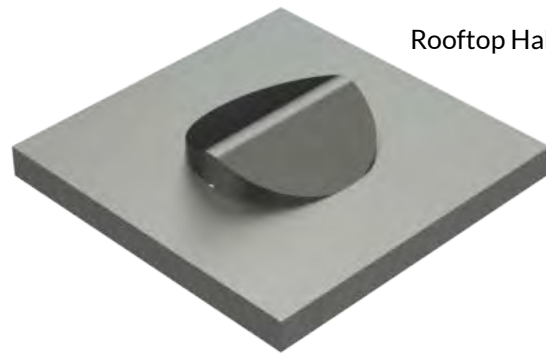
COMMON IN STATION SIZES:



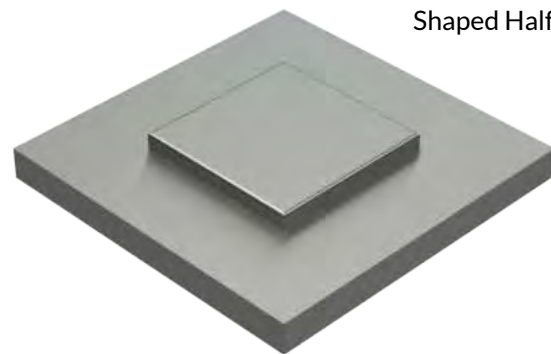
APPLICATION	ADVANTAGES	INFORMATION NEEDED
Electrical knockouts (EKOs) are used to create connection points for cable pathways. Available for: - Single - Double (concentric or tangential) - Triple (concentric or tangential) - Quad (concentric or tangential) - Standard and special shapes Single or multiple 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. The large station holder is ABS/WLS capable. 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

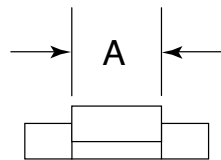


Rooftop Half Shear

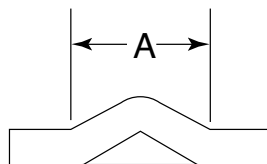
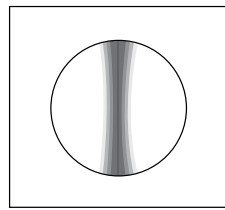


Shaped Half Shear

Half Shear



Rooftop Half Shear



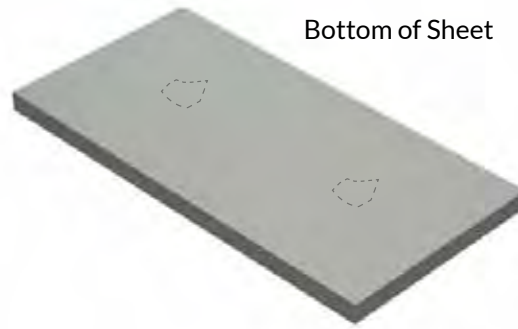
COMMON IN STATION SIZES:



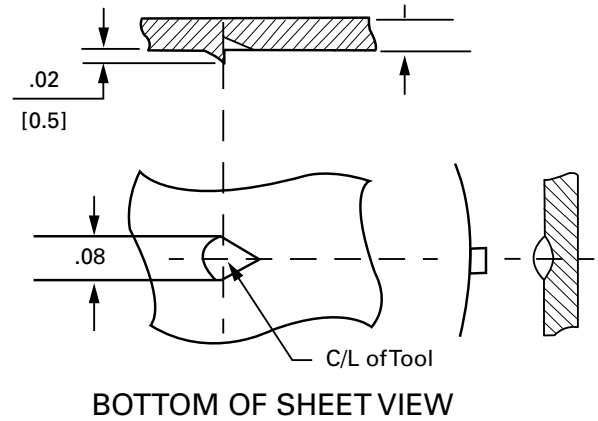
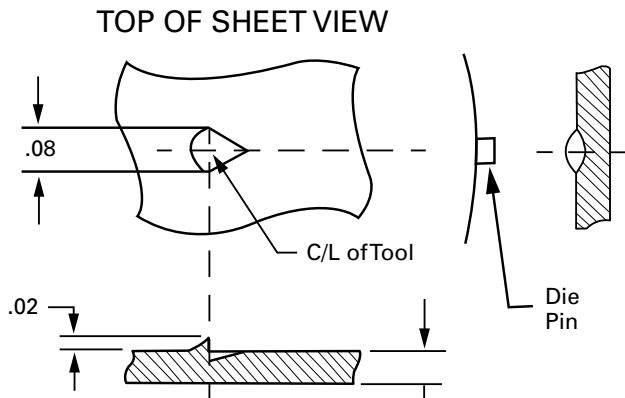
APPLICATION	ADVANTAGES	INFORMATION NEEDED
The half shear is an easy-to-use tool that allows you to put in shear buttons and spot welding locators to the accuracy of your punch press. Round half shears make excellent locators for angular shearing. Rooftop half shears have approximately a 3 gauge material thickness range.	Form-up half shears are available in stock sizes. B station form-up half shears have replaceable inserts up to .375" (9.53mm) diameter in lower unit. Rooftop half shears give you greater height protrusion compared to a standard half-shear when using thinner material. Half shears can be used on a .125" (3.17 mm) range of material.	- Machine model - Material thickness and type (or range) - Diameter or shape (on top of sheet) - Specify center-to-center if more than one exists on the sheet. - Form-up or form-down



Top of Sheet



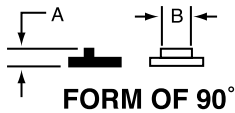
Bottom of Sheet



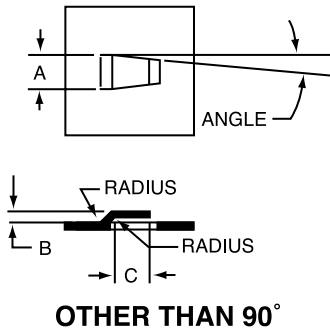
COMMON IN STATION SIZES:



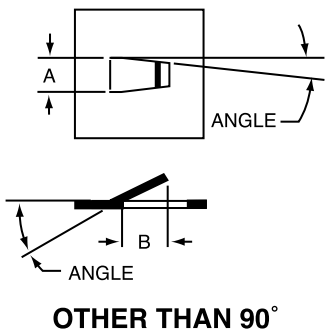
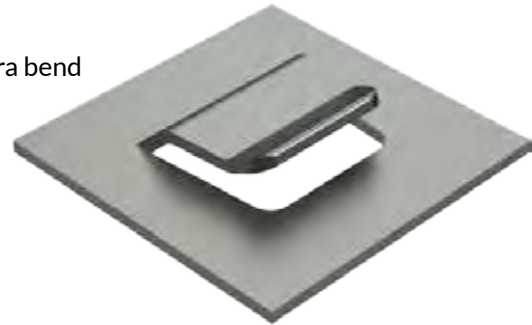
APPLICATION	ADVANTAGES	INFORMATION NEEDED
The scratch form can be used for spot welding locators, locators for angular shearing and shear stops. Height of the stop is .020 [.5mm] - .030 [.8mm]. Tool is designed with relief for .500" [12.7mm] centers.	Punches a range of material from .036" [.91mm] to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



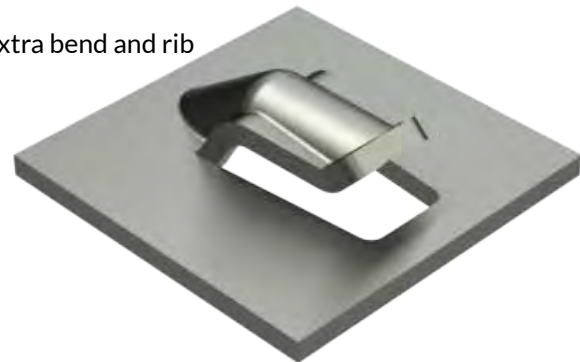
90° Form



With extra bend



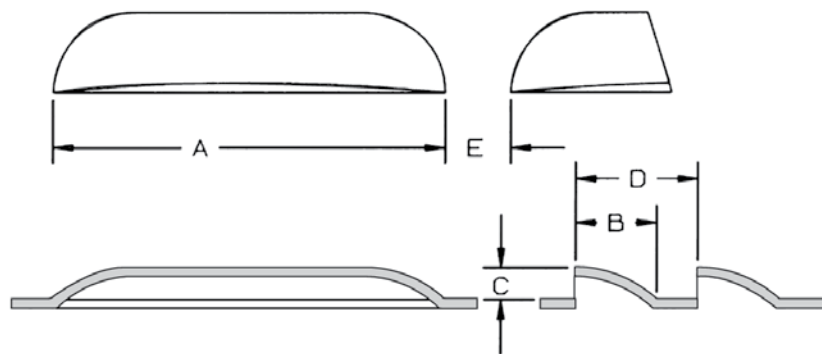
With extra bend and rib



COMMON IN STATION SIZES:



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. The large station holder is ABS/WLS capable. 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

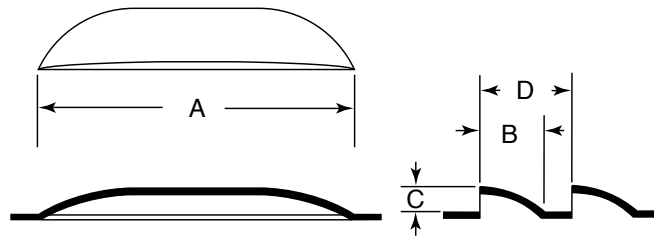


COMMON IN STATION SIZES:



½"
1¼"
2"
3½"
4½"

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 The large station holder is ABS/WLS ready. Multiple coating options available to extend tool life.	- Machine model - Material thickness and type - Dimensional drawing or electronic file

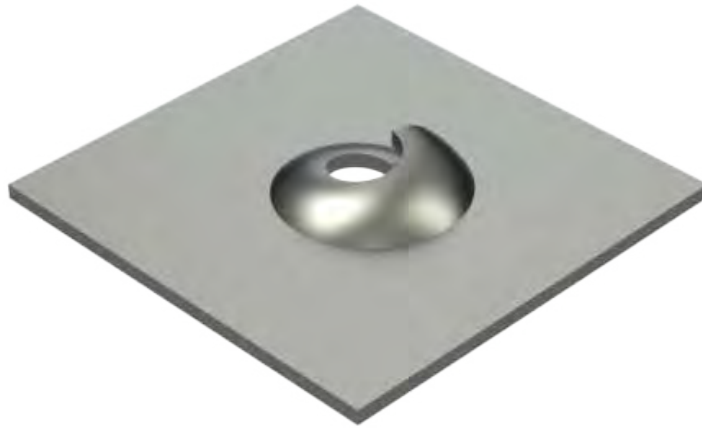


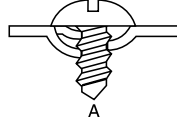
"A" dimension is programmable to any length.
Form length on first full hit is approximately
2-1/4" (57mm) long.

COMMON IN STATION SIZES:

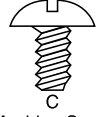


APPLICATION	ADVANTAGES	INFORMATION NEEDED
Progressive louvers are used in a variety of industry applications that require airflow; Electrical enclosures, HVAC, and food service equipment. The progressive design produces various length louvers to give flexibility using one tool. Run in nibbling mode (recommended incremental moves equal to the material thickness or less). A Do's and Don'ts information sheet is provided for ease of programming.	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. • Purchase only pocket insert when changing material Use the upper holder for other applications. Keying at 0°, 90°, 180°, and 270° is standard. The large station holder is ABS/WLS ready. Multiple coating options available to extend tool life.	• Machine model • Material thickness and type • B, C and D dimensions.



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

 B	 AB	6-20
		8-18
		10-16
		12-14
		1/4-14
		5/16-12

 C (Machine Screws)	6-32
	8-32
	10-24
	10-32
	1/4-20
	5/16-18

THREAD FORM DATA CHART

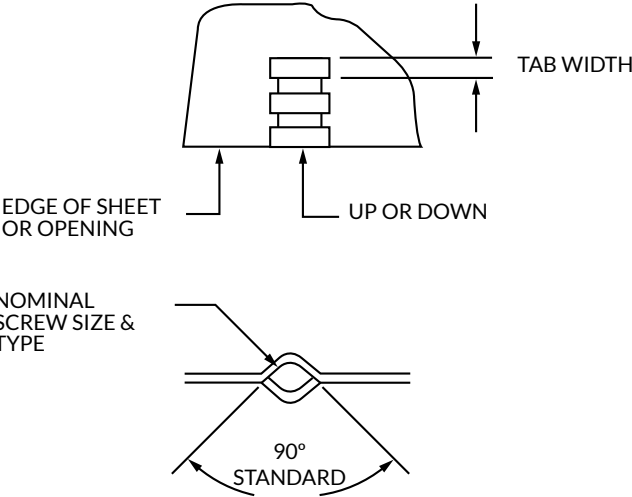
Maximum Material Thickness
with Coining

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

COMMON IN STATION SIZES:



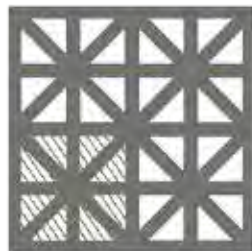
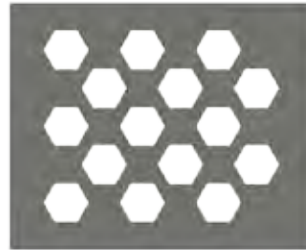
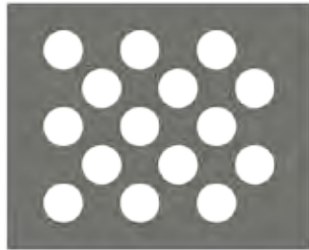
APPLICATION	ADVANTAGES	INFORMATION NEEDED
A thread form is a great solution for eliminating secondary operations and supplemental hardware where a threaded hole is required.	- Reduces costly hardware and assembly time. - Coining is included in the design of the tool when material exceeds the recommended 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



COMMON IN STATION SIZES:



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



COMMON IN STATION SIZES:



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



COMMON IN STATION SIZES:



APPLICATION	ADVANTAGES	INFORMATION NEEDED
An ID-Stamp tool is a perfect solution for permanently marking and displaying company names, serial numbers, or part numbers. When used in an Auto Index station you can stamp up to 40 different characters, including numbers, letters, and various symbols. Adjustable for .125" (3.18mm) material range.	- Eliminates secondary stamping operations and ensures consistent marking. - Reduces the number of tools needed to mark parts. - Designed to take the standard .125" [3.18mm] letter stamp character. - The large station holder is ABS/WLS ready. - Adapters can be used to move B station tools to an Auto Index station.	- Machine model - Material thickness range and type - Requires Auto Index



FORM-UP

FORM-DOWN

FORM-DOWN

MAXIMUM NUMBER OF CHARACTERS PER ROW FOR SINGLE & DOUBLE ROW STAMP

SIZE	1-1/4"(B) STN	2"(C) STN	3-1/2"(D) STN	4-1/2"(E) STN
1/16" (1.57mm)	22	24	48	64
3/32" (2.36mm)	14	16	32	43
1/8" (3.17mm)	10	12	24	32
3/16" (4.75mm)	7	8	16	21
1/4" (6.35mm)	5	6	12	16
3/8" (9.52mm)*	**3	**4	8	10

Maximum Characters for one or two rows

* Maximum Characters for one row only

** One row only

FORM-UP

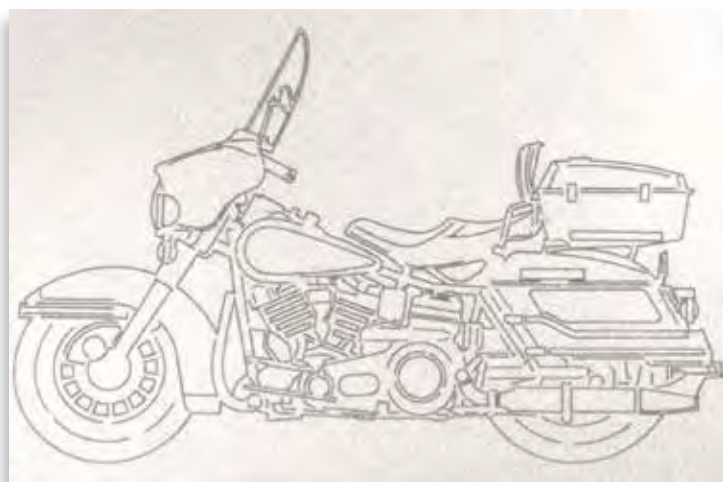
MAXIMUM NUMBER OF CHARACTERS PER ROW

SIZE	1-1/4"(B) STN		2"(C) STN		3-1/2"(D) STN		4-1/2"(E) STN	
	1 Row	2 Rows	1 Row	2 Rows	1 Row	2 Rows	1 Row	2 Rows
1/16" (1.57mm)	20	20	31	31	53	53	64	64
3/32" (2.36mm)	14	14	21	21	35	35	43	43
1/8" (3.17mm)	10	10	15	15	26	26	32	32
3/16" (4.75mm)	7	N/A	10	10	17	17	21	21
1/4" (6.35mm)	5	N/A	8	8	13	13	16	16
3/8" (9.52mm)*	3	N/A	5	N/A	8	N/A	10	N/A

COMMON IN STATION SIZES:



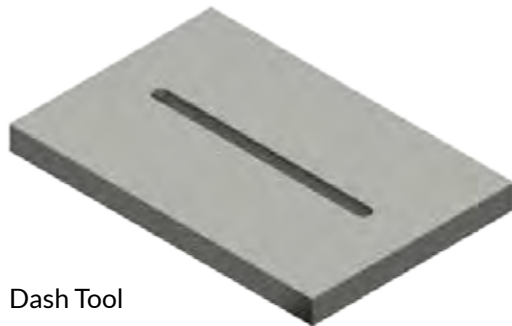
APPLICATION	ADVANTAGES	INFORMATION NEEDED
A letter stamp is a perfect solution for permanently marking and displaying company names, serial numbers, or part numbers. Replaceable punch tip design allows for versatility as well as quick and easy change out.	Stock sizes available in single and double row. 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



COMMON IN STATION SIZES:



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



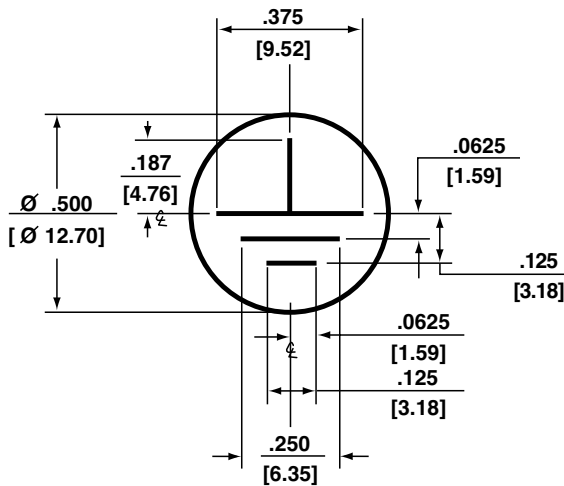
Dash Tool



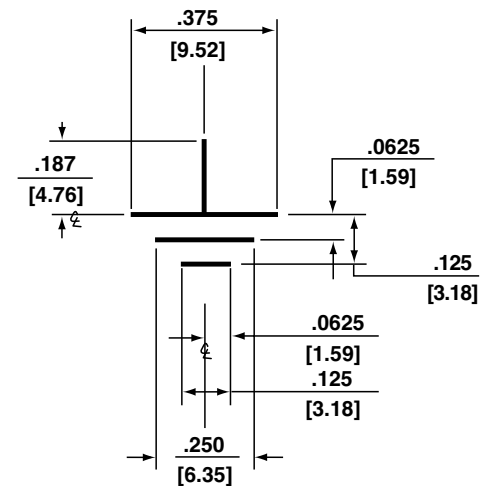
Ground Symbol



Logo



GROUND SYMBOL STOCK DIMENSIONS



COMMON IN STATION SIZES:



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



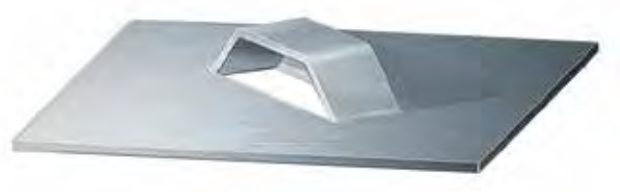
COMMON IN STATION SIZES:



APPLICATION	ADVANTAGES	INFORMATION NEEDED
The rolling de-burring tool eliminates the secondary operation of removing burrs from your parts..	• Quickly and efficiently de-burrs your parts while on the turret machine. • Eliminates costly secondary operations. • Coins a small chamfer on the cut edge top and bottom of the sheet. • Can be used to de-burr nested parts. • Adjust ball pressure without disassembling the tool.	• Machine model • Material thickness and type



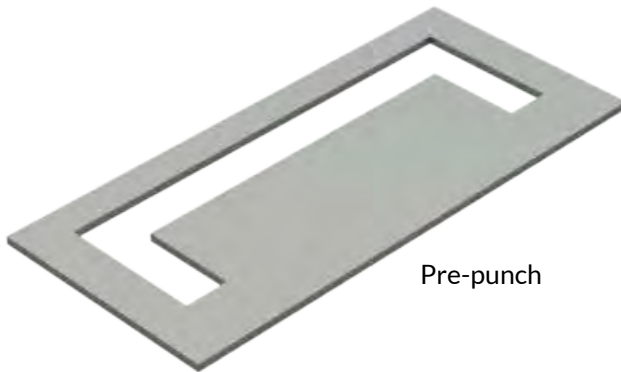
See this tool in action on the Wilson Tool YouTube Channel



AVAILABLE FOR STATION SIZES (depends on machine) :

A **B** **C** **D** **E**
 ½" 1¼" 2" 3½" 4½"

APPLICATION	ADVANTAGES	INFORMATION NEEDED
Machines with high form stations require special tooling that can achieve forms in the sheet up to .472" [12mm] high or higher.	• Able to form closer to the clamps with less distortion to the sheet. • Able to pierce holes in adjacent stations with less distortion.	• Machine model • Material thickness and type • Dimensional drawing or electronic file



Pre-punch



Opti-bend

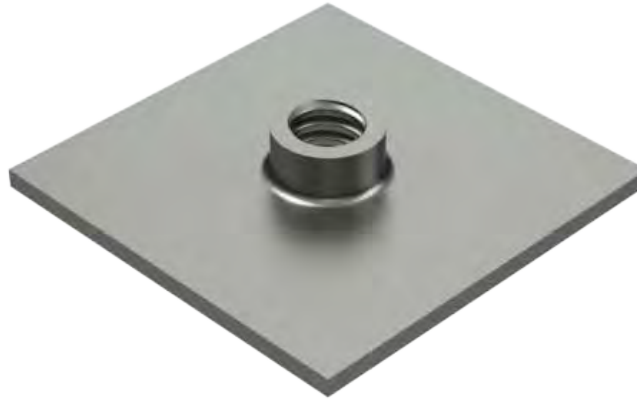
COMMON IN STATION SIZES:



APPLICATION	ADVANTAGES	INFORMATION NEEDED
Opti-Bend allows you to achieve exceptionally high bends (up to 90°) in your punch press, eliminating costly time-consuming secondary operations in a press brake. It is possible to achieve 3° over bend.	• Performs up to 90° bends on a punch press with neutral pull on the sheet (won't pull out of clamps). • Special rotating cam design minimizes sheet marking on soft or high polished materials. • Available in single hit or progressive styles. • Can be run on a small range of material. • Allows multiple bending in a turret machine.	• Machine model • Material thickness and type • Dimensional drawing or electronic file



See this tool in action on the
Wilson Tool YouTube Channel



Extruded Hole Shown

COMMON IN STATION SIZES:



APPLICATION	ADVANTAGES	INFORMATION NEEDED
The tapping tool allows you to create high precision threads at any programmed location on the sheet. • Taps available in imperial or metric sizes • Available for most major brands of turret style punch presses.	• Fast! Tap a hole or an extruded hole with every machine stroke, up to 200 holes per minute. • Built in tapping fluid injection system is synchronized with the machine stroke to reduce wear and breakage. • Taps are easily changed, with no disassembly required. • Works on a wide range of material. • Stock size pitch inserts and taps are available for fast delivery.	• Machine model • Material thickness and type • Pitch and tap size



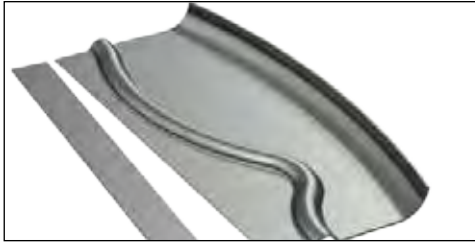
See this tool in action on the
Wilson Tool YouTube Channel



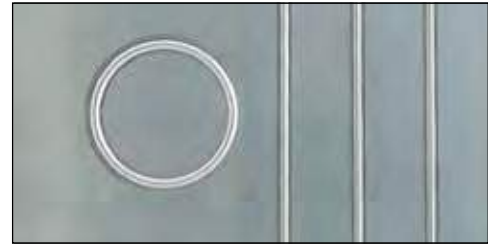
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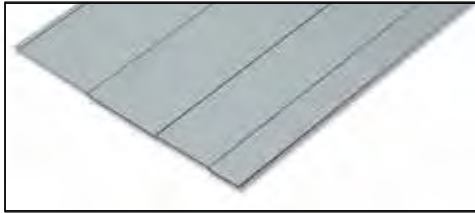
APPLICATION	ADVANTAGES	INFORMATION NEEDED
Zip-Tech lance is achieved in three operations: 1. Pre-punch - round hole 2. Pre-punch - T-shape hole 3. Zip-Tech Lance and Form	Fabricates snaps to join metal parts together. Different types of materials of the same thickness can be joined together. Eliminate 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



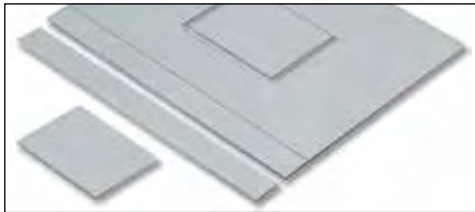
ROLLING RIB



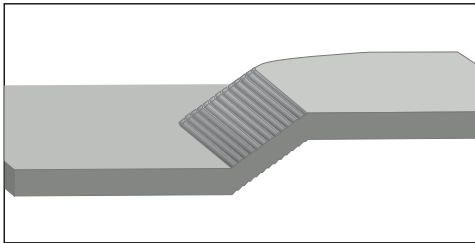
ROLLING OFFSET



ROLLING SHEAR



ROLLING PINCHER



ROLLING FORGE



COMMON IN STATION SIZES:



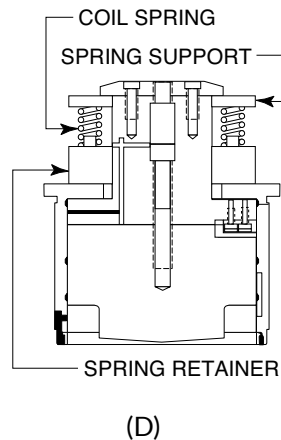
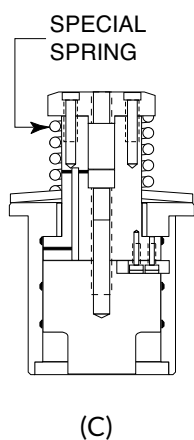
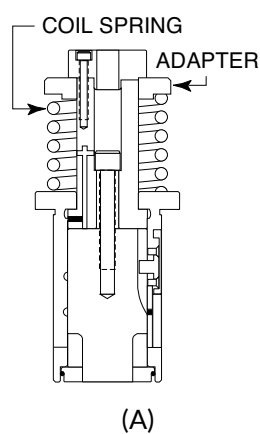
APPLICATION	ADVANTAGES	INFORMATION NEEDED
The Wilson Wheel family of products offers you flexible, high speed production of slits, ribs and offsets on a wide range of materials with virtually no burrs or nibble marks. Create curves, arcs and circles with your auto index station.	• High speed - equal 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



OTHER ASSEMBLY DESIGNS



COMMON IN STATION SIZES:



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

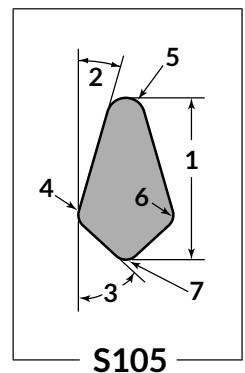
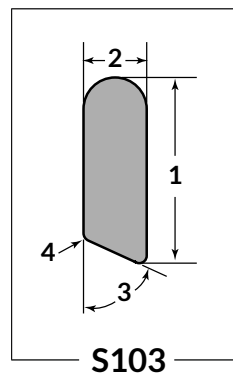
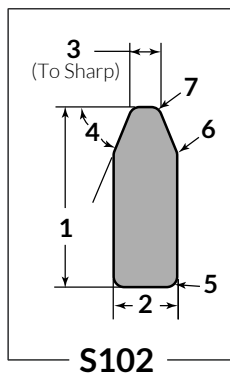
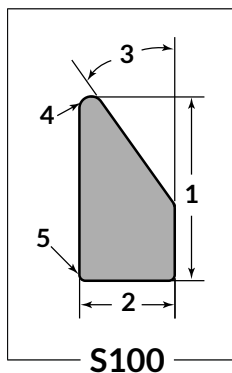
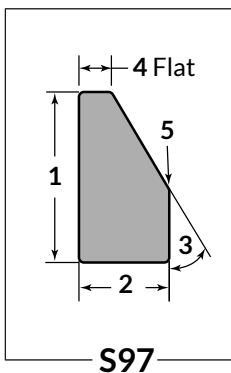
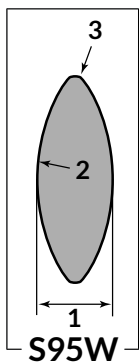
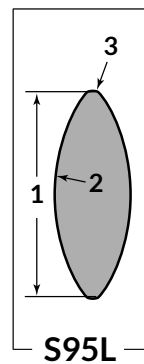
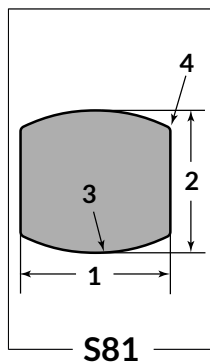
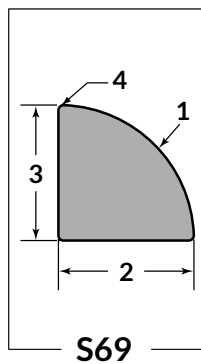
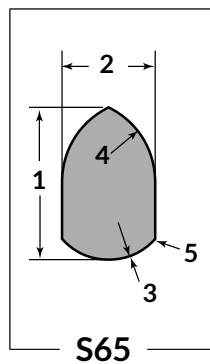
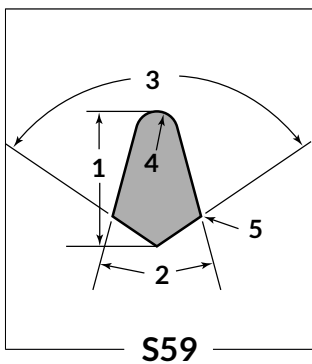
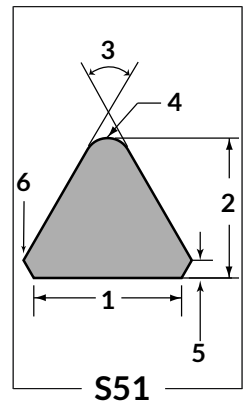
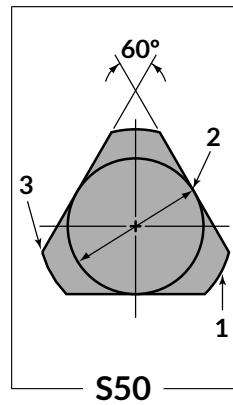
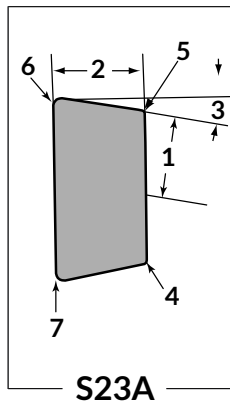
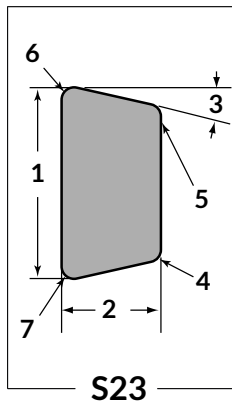
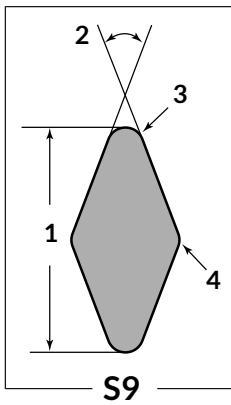
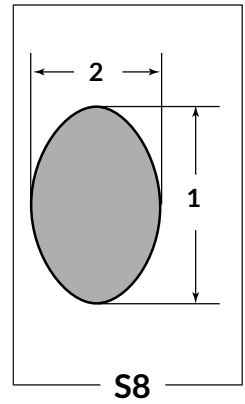
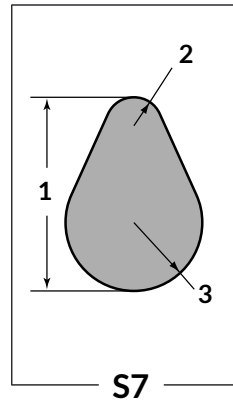
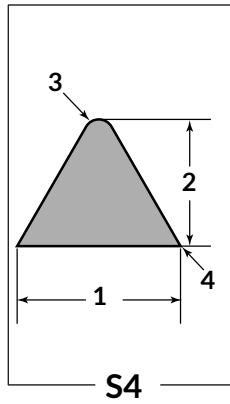
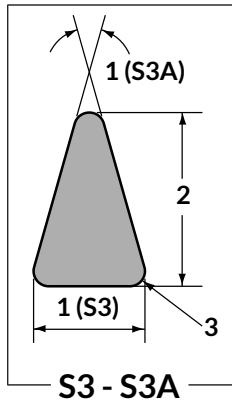
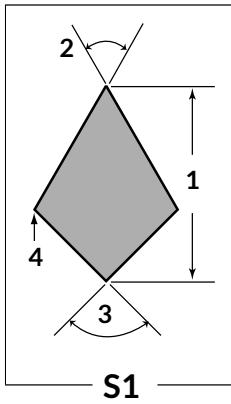


COMMON IN STATION SIZES:



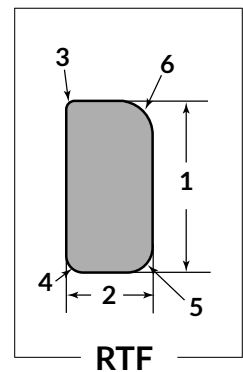
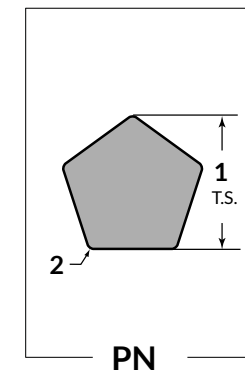
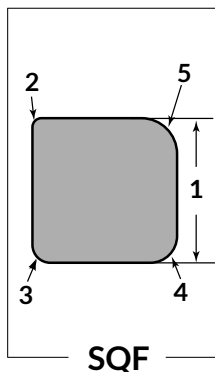
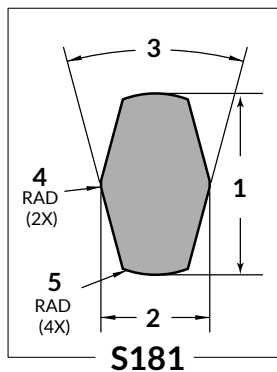
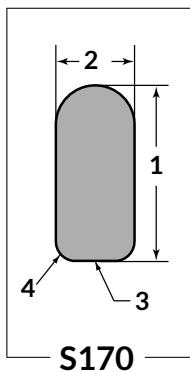
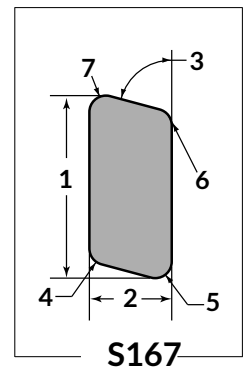
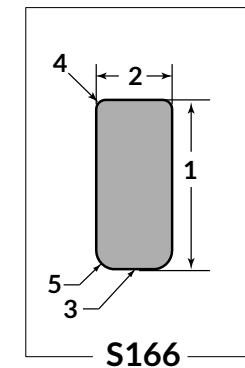
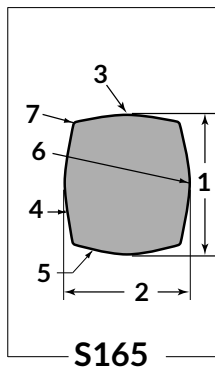
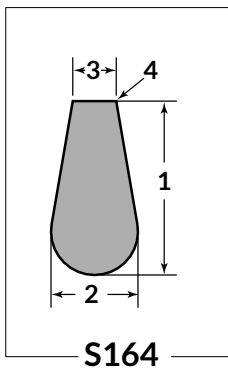
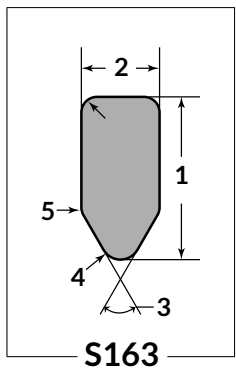
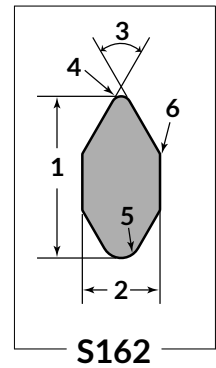
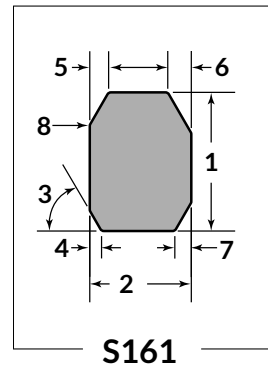
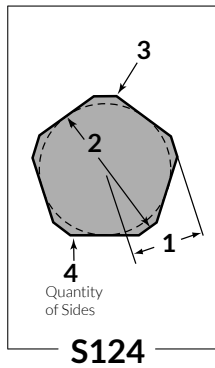
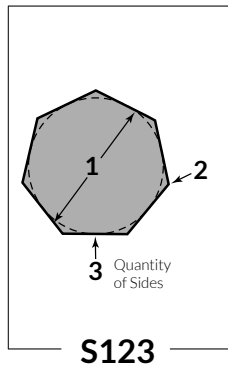
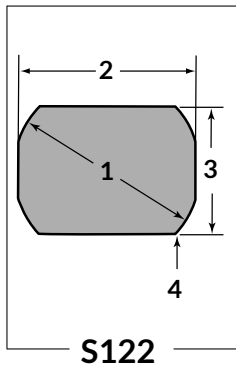
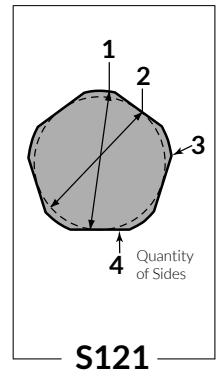
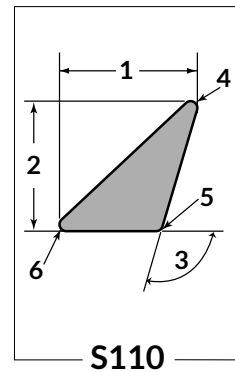
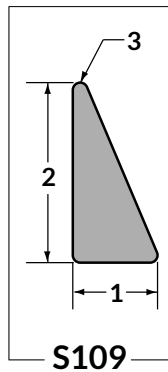
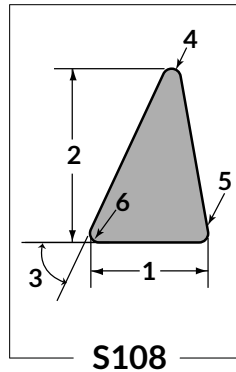
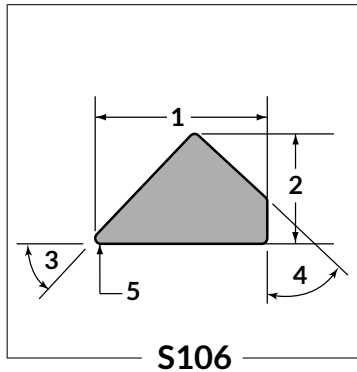
APPLICATION	ADVANTAGES	INFORMATION NEEDED
The E-Z Set™ punch head provides quick turn-of-the-wrist adjustment. A simple lift and turn of the adjustable head is all that is required. You can achieve just the right mark or form when using the E-Z Set™ punch head on A or B station stamping and forming tools.	- 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

GROUP 'A'



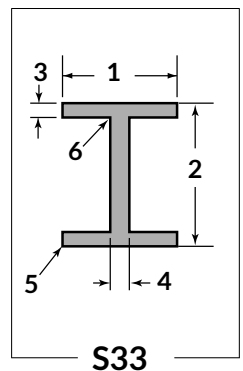
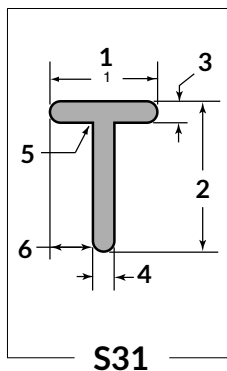
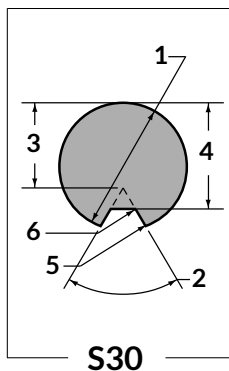
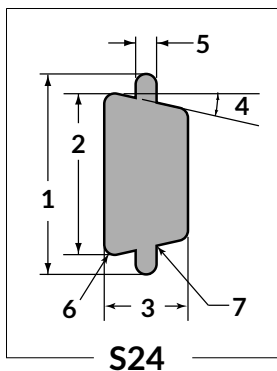
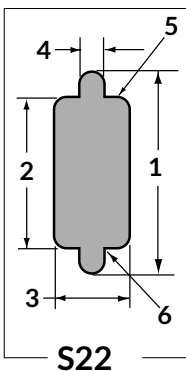
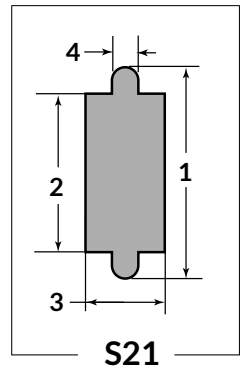
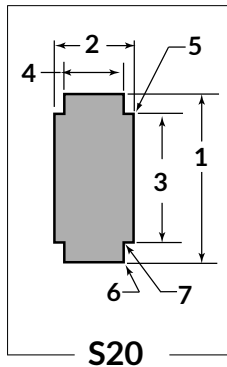
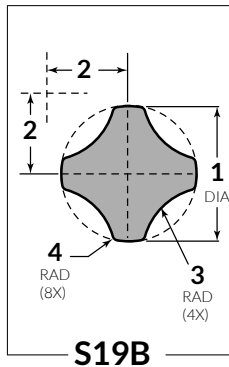
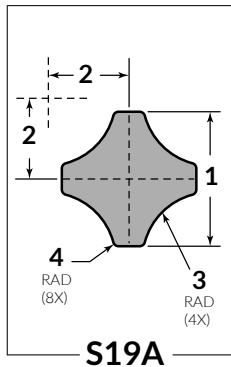
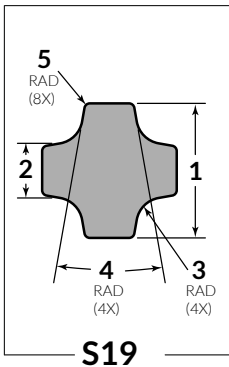
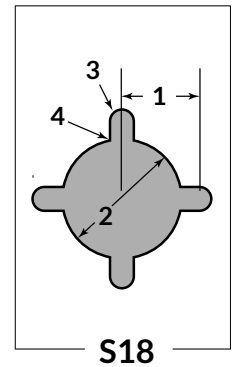
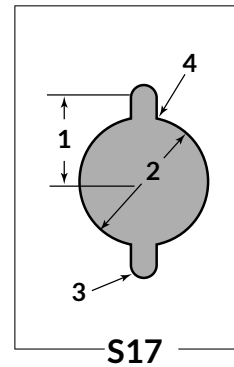
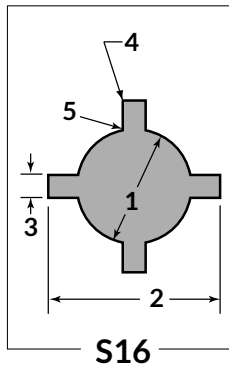
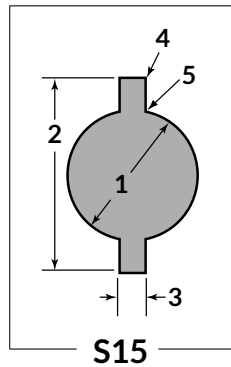
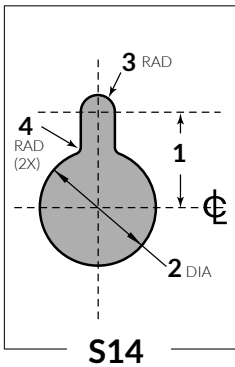
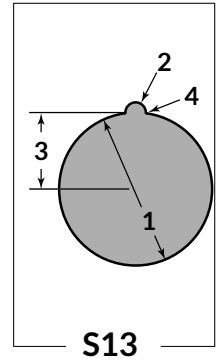
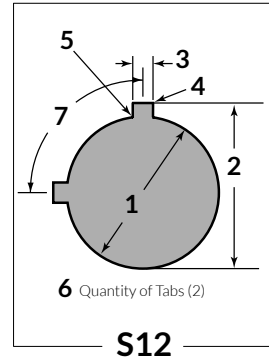
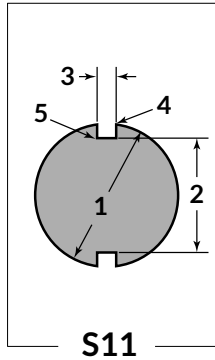
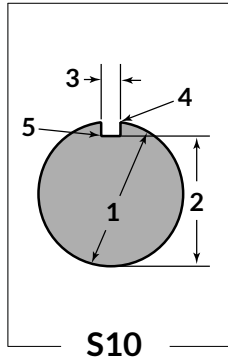
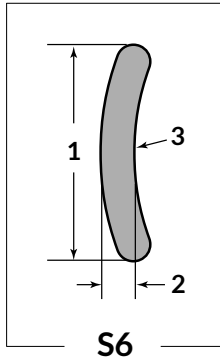
NOTE: Special considerations may alter price and lead time.

GROUP 'A'



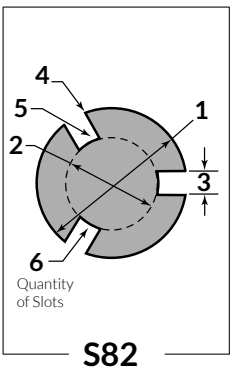
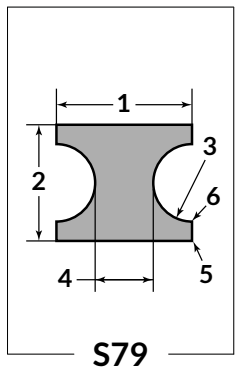
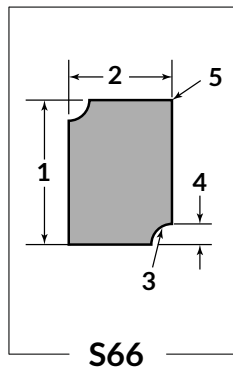
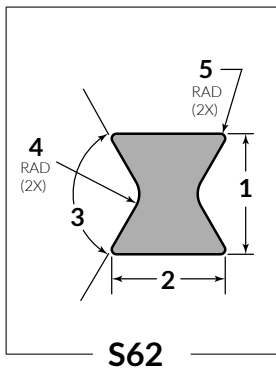
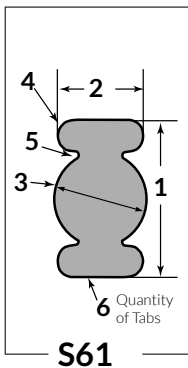
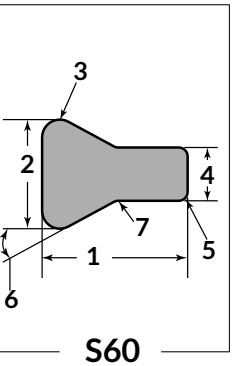
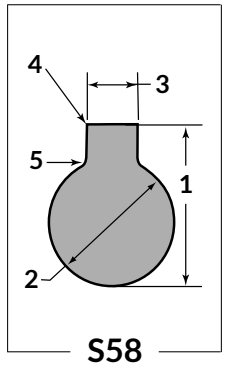
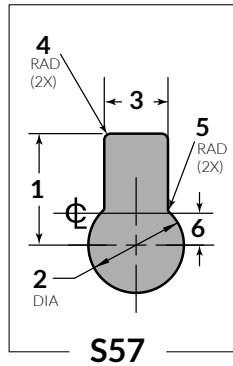
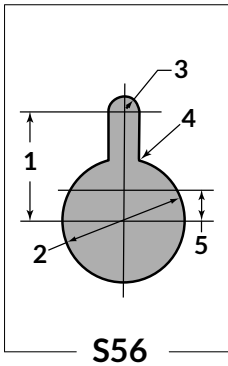
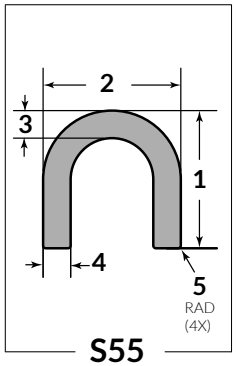
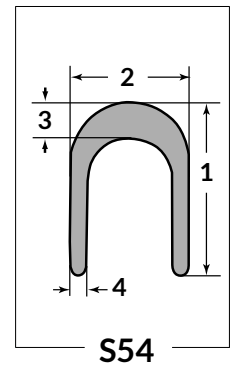
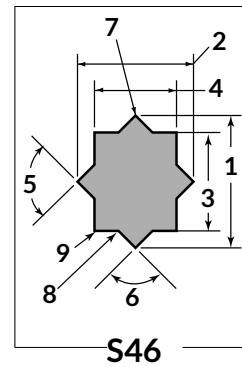
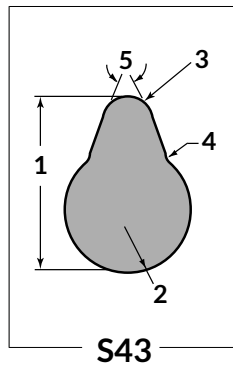
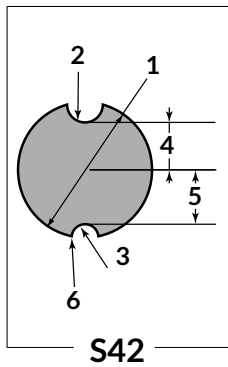
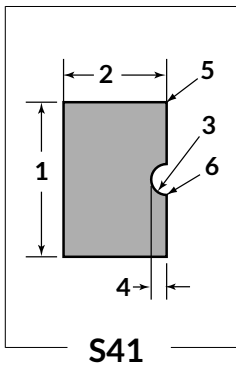
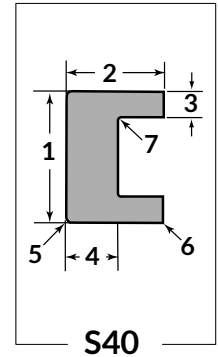
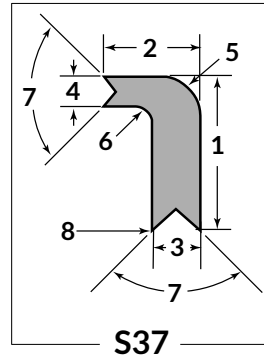
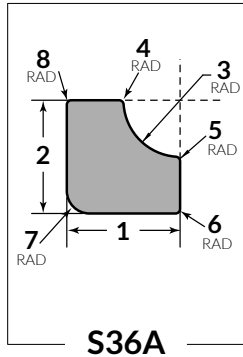
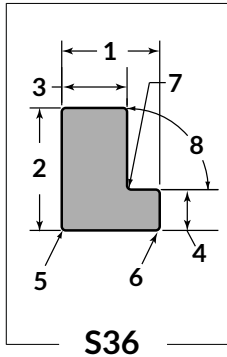
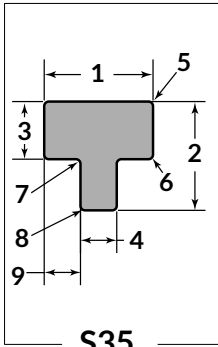
NOTE: Special considerations may alter price and lead time.

GROUP 'B'



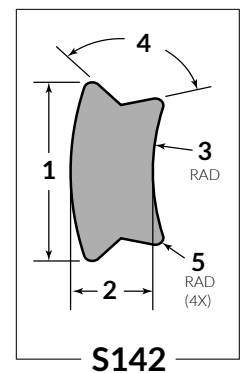
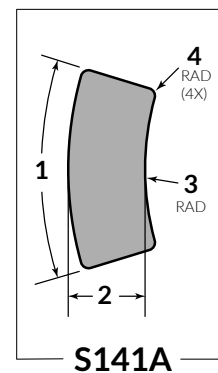
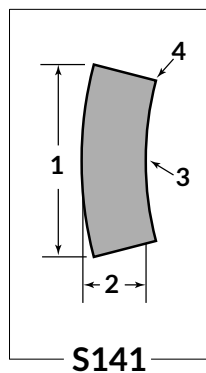
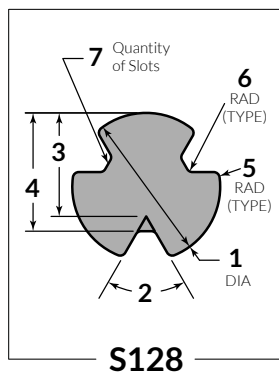
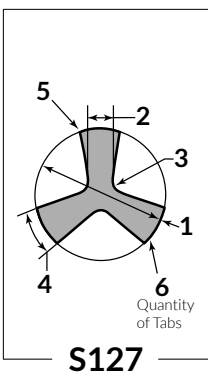
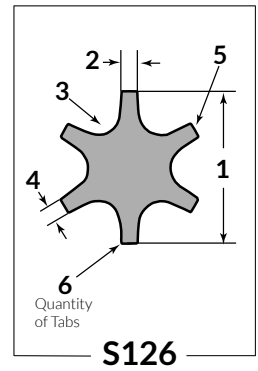
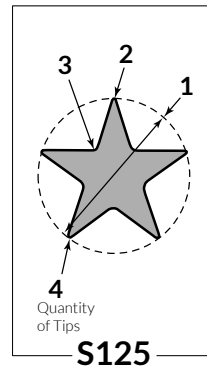
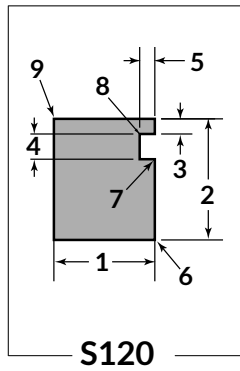
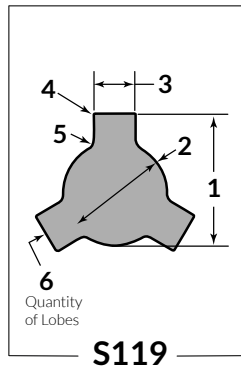
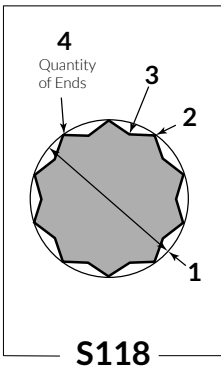
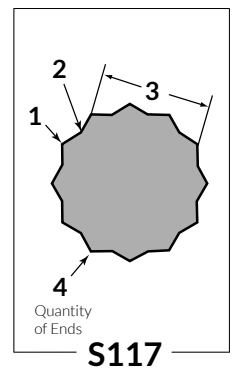
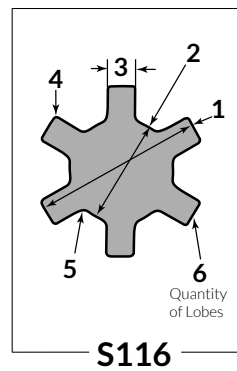
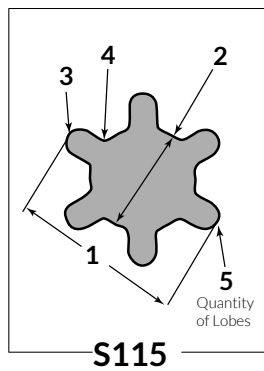
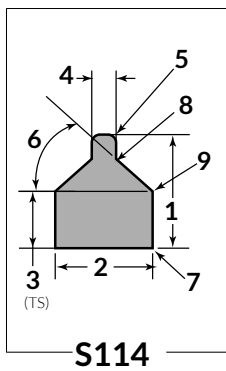
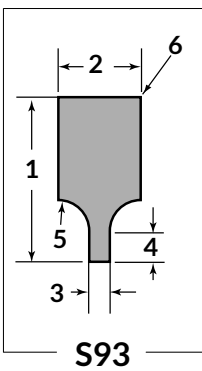
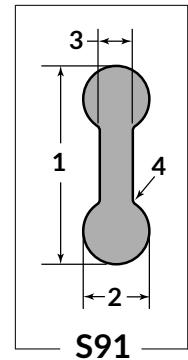
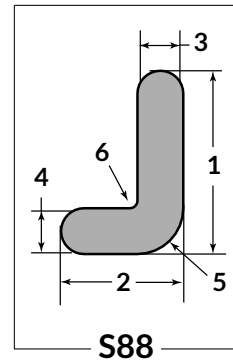
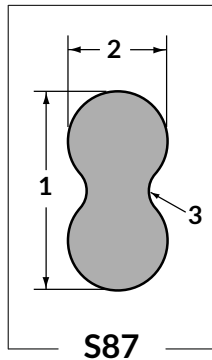
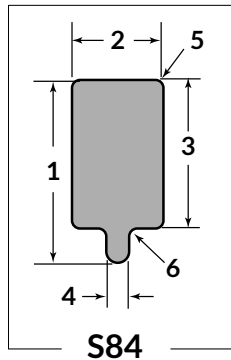
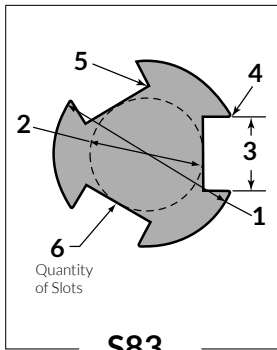
NOTE: Special considerations may alter price and lead time.

GROUP 'B'



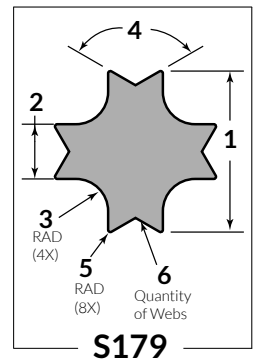
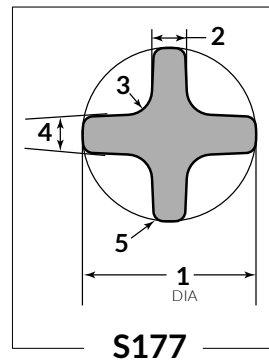
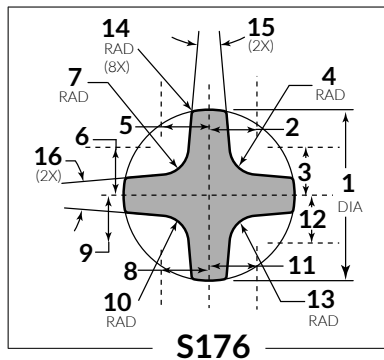
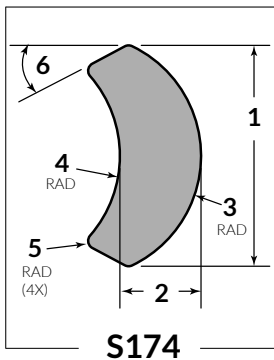
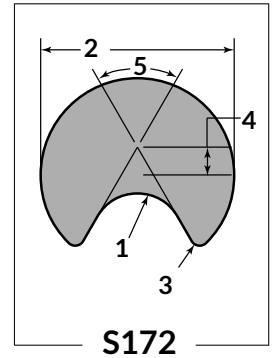
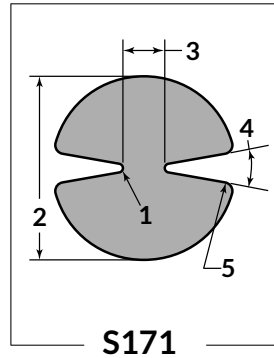
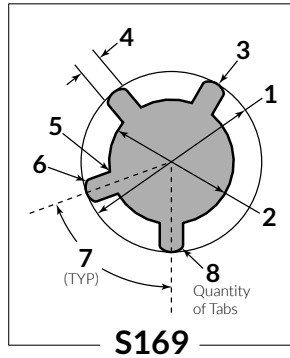
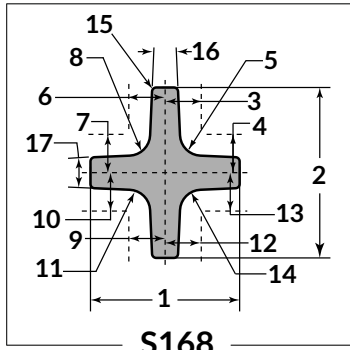
NOTE: Special considerations may alter price and lead time.

GROUP 'B'



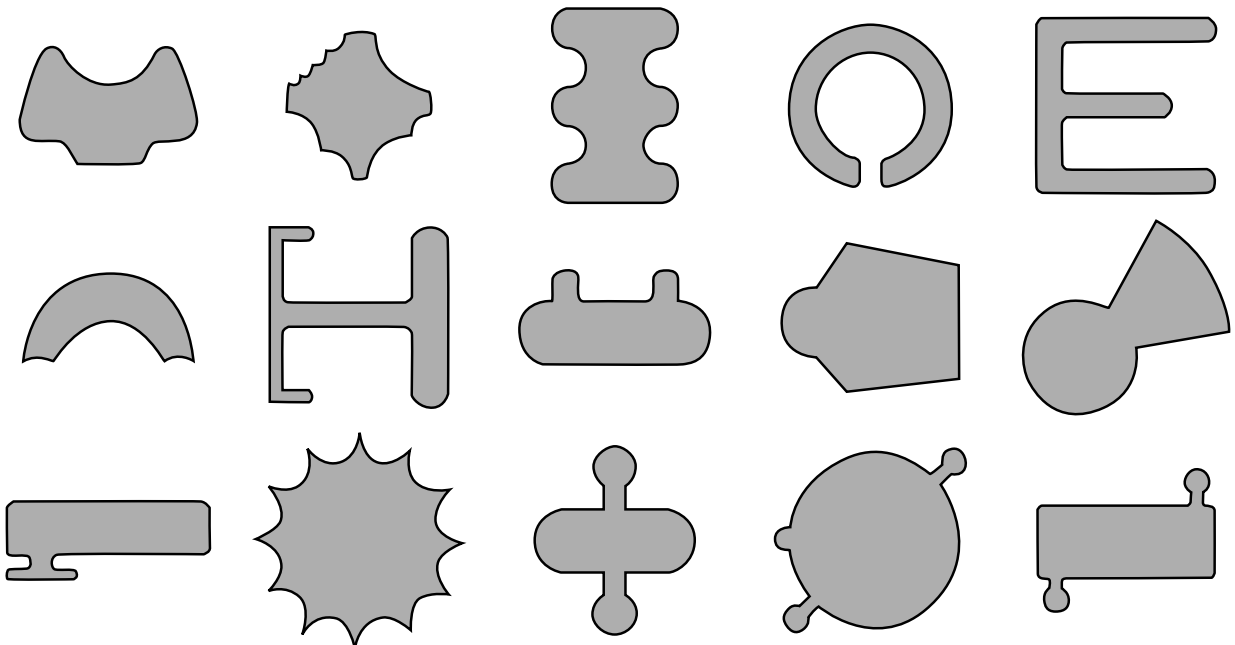
NOTE: Special considerations may alter price and lead time.

GROUP 'B'



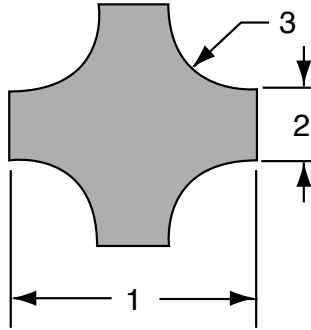
NOTE: Special considerations may alter price and lead time.

GROUP 'C'



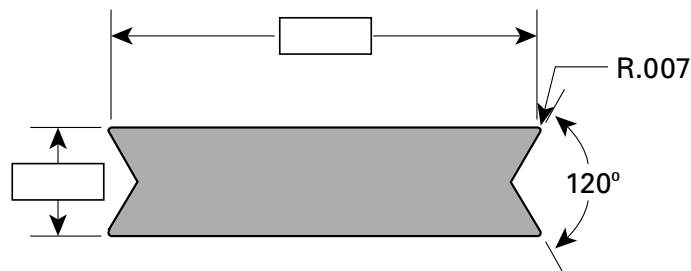
Any complex 2D shape ordered with a DXF file will be priced as a "B" Group.
Electronic file will be validated at the time of ordering.

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]	.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.



Station	QUANTITY	CAT. NO.
A	Pack of 10	6083
B	Pack of 10	6084
C	Pack of 10	6085
D	Pack of 10	6086
E	Pack of 10	6087
Sheet	6" x 12" [15.2 x 30.5 cm]	6108

One tool is required to align each station.

STATION	UPPER CAT. NO	LOWER CAT. NO
A [1/2"]	2597	2598
B [1-1/4"]	2599	495



SINGLE TRACK MACHINE ALIGNMENT TOOLS

Press Brake Compatible
.....
Punch Press Compatible

Two tools are required to align each station - one in front of the station and one in back.

STATION	CAT. NO
A [1/2"]	2601
B [1-1/4"]	2602



MULTIPLE TRACK MACHINE ALIGNMENT TOOLS

Press Brake Compatible
.....
Punch Press Compatible

One tool is required to align each station.

STATION	UPPER CAT. NO	LOWER CAT. NO
C [2"]	1840	1841
D [3-1/2"]	1947	1948
E [4-1/2"]	1949	1950
F [6"]	2290	2291



ALIGNMENT TOOLS

Press Brake Compatible
.....
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.

STATION SIZE	BALL RIDING CAT. NO	BRUSH CAT. NO
A [1/2"]	2375	2760
B [1-1/4"]	10685	2761
C [2"]	14591	2762
D [3-1/2"]	13592	2763
E [4-1/2"]	13593	2764



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.

TOOL STORAGE CABINET

8 DRAWER ARRANGEMENT & CAPACITY:

3 drawers for 'A' station tooling:

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

3 drawers for 'B' station tooling:

- 12 punch & guide assemblies (per drawer)
- 24 dies & 12 additional punches (per drawer)

1 drawer for 'C' & 'D' station tooling:

- 12 - 'C' or 'D' station punches, stripper plates & dies

1 drawer (9 compartments)

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

Includes lock with two keys and forklift 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
Thick Turret	90001
OPTIONS	CAT. NO
Plastic Drawer Liners	90002
Mobile Base	90003
Maple Top	90004
Cart Handle (1)	90005
Ribbed Rubber Mat	90006

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.



STD & HP FIXTURE & COMPONENTS

DESCRIPTION	CAT. NO.
Shear Grinding Fixture	6034
EXP Sharpening Adapter	6990
1/2" Tooling Sleeve Adapter	6043
1-1/4" Tooling Punch and Die Holder	6042
1-1/4" to 1/2" Die Adapter	6088
'Old Style' 2", 3-1/2" & 4-1/2" Tooling Punch Holder -for Standard Thick	6039
HP Thick 2", 3-1/2" & 4-1/2" Tooling Punch Holder	6040
Dura-Blade Grinding Fixture	6932
Pointer [Replacement]	6035
Degree Scale [Replacement]	6036

STD & HP MULTI-TOOL® PUNCH & DIE HOLDERS

DESCRIPTION	CAT. NO.
8 Station Punch & Die Holder	6812
8mm Punch & Die Holder	6156
16mm Punch & Die Holder	6157
24mm Punch & Die Holder	6158

PUNCH AND DIE GRINDER

This fully enclosed punch and die grinder includes an integral mist collection unit and provides full containment of the grinding area vs. the standard open air containment shrouding.

- 5 hp spindle motor with CBN grinding wheel.
- Dual coolant application. Coolant is supplied both externally and through the spindle for maximum heat removal while grinding.
- Regrind punches up to 10° angle.
- Simple fixturing design. Allows for quick, easy loading and unloading of parts
- Heavy-duty three-jaw chuck standard with auxiliary magnetic chuck.
- Small footprint. At 40" x 48" [101 x 122 cm]



DESCRIPTION	CAT. NO.
230 V 3 Phase 30 Amp Grinder	6854
230 V 3 Phase 30 Amp Grinder - Enclosed	6938
460 V 3 Phase 20 Amp Grinder	6855
460 V 3 Phase 20 Amp Grinder - Enclosed	6939
1/2 Gallon Coolant Mix	6856
5 Gallon Coolant Mix	6857
Coolant Filter Pack [50 Sheets]	6858
6" Replacement CBN Wheel	6859
Production Coolant Filtration System	6860
Replacement Filter Roll for Filtration System	6861
Magnetic Chuck with Mounting Ring	6998

MINI PUNCH AND DIE GRINDER

An efficient and economical solution for sharpening turret and punch press tooling.

- Rigid z-axis column with dovetail ways.
- Cast iron base.
- Accepts 6" diameter grinding wheel.
- Recirculating coolant system with paper filter media.
- Standard 3 jaw chuck workholding fixture.
- Optional fixturing for angled tool sharpening.
- 1.5 horsepower 3600 RPM grinding spindle motor.
- Heavy-duty three-jaw chuck standard with auxiliary magnetic chuck.
- Small footprint. At 33" x 17" x 60"
- Weight 800 lbs.



DESCRIPTION	CAT. NO.
DCM Mini PDG Grinder	6950
1/2 Gallon Coolant Mix	6856
5 Gallon Coolant Mix	6857
Coolant Filter Pack [50 Sheets]	6858
6" Replacement CBN Wheel	6859
DCM Mini Shear Grind Sine Plate	6951
Magnetic Chuck	6952

NYLON VICE JAWS

Press Brake Compatible

Punch Press Compatible



Used to aid in the assembly and maintenance of A & B Station Thick Turret style punch assemblies.

Cat. No. 24001

ASSEMBLY FIXTURE

Press Brake Compatible

Punch Press Compatible



Ideal bench mounted aid for assembling and retaining a variety of assemblies. For C and D Stations.

Cat. No. 24162

HP SPRING COMPRESSION KIT

Press Brake Compatible

Punch Press Compatible



Includes spring base, external circlip pliers, spacer sleeve, washer and M-12 bolt.

Cat. No. 6940

For old style : Cat. No. 8104

RUBBERIZED ABRASIVE WHEEL

Press Brake Compatible

Punch Press Compatible



- For removing galling
- Measuring range 0 - 6"
- Accuracy to 0.001"

Cat. No. 8050

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

Cat. No. 6055



PUNCH LUBRICANT

Press Brake Compatible
Punch Press Compatible

Xcel 1 Liter Spray Bottle
Cat. No. 24315

Xcel 5 Liter Concentrate
Cat. No. 24316



SHEET LUBRICANT

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



CUT-MAX 570

Press Brake Compatible
Punch Press Compatible

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

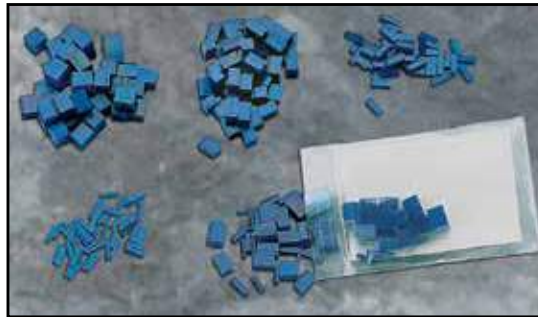
Cat. No. 6120



SURE SHOT SPRAYER

Press Brake Compatible
Punch Press Compatible

DIE SHIMS FOR MULTI-TOOLS®						
MACHINE TYPE	STATION	SHAPE	THICKNESS	INDIVIDUAL CAT. NO.	PACKAGE OF 15 CAT. NO.	
FINN-POWER®	3-1/2 - 8i/Ri		.010" [0.25mm]	6800	6815	
FINN-POWER®	3-1/2 - 8i/Ri		.030" [0.76mm]	6801	6816	
FINN-POWER®	MT 12 & 20-8	Round	.010" [0.25mm]	6802	6817	
FINN-POWER®	MT 12 & 20-8	Round	.030" [0.76mm]	6803	6818	
FINN-POWER®	MT 12 & 20-8	Shape	.010" [0.25mm]	6804	6819	
FINN-POWER®	MT 12 & 20-8	Shape	.030" [0.76mm]	6805	6820	
FINN-POWER®	MT 6 & 10 - 16		.010" [0.25mm]	6806	6821	
FINN-POWER®	MT 6 & 10 - 16		.030" [0.76mm]	6807	6822	
FINN-POWER®	MT 6 & 8-24		.010" [0.25mm]	6808	6823	
FINN-POWER®	MT 6 & 8-24		.030" [0.76mm]	6809	6824	
Thick Turret	1-1/4 - 5		.010" [0.25mm]	6810	6825	
Thick Turret	1-1/4 - 5		.030" [0.76mm]	6811	6826	



SLUG EJECTORS	Square Urethane	
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
Assortment	50	6410

THICK TURRET 1-1/4" [B] to 1/2" [A] STATION ADAPTER

DESCRIPTION	CAT. NO.
Punch & Guide Assembly Adapter (Keyed at 0° & 180°)	2284
Die Adapter	2220
Screw	2119

THICK TURRET 2" [C] to 1-1/4" [B] STATION ADAPTER

DESCRIPTION	CAT. NO.
Punch & Guide Assembly Adapter	2476
Die Adapter	2475
Screw	6206

THICK TURRET 3-1/2" [D] to 1-1/4" [B] STATION ADAPTER

DESCRIPTION	CAT. NO.
Punch & Guide Assembly Adapter (not shown)	2492
Die Adapter	35058

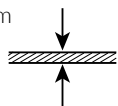
THICK TURRET 4-1/2" [E] to 1-1/4" [B] STATION ADAPTER

DESCRIPTION	CAT. NO..
Punch & Guide Assembly Adapter (not shown)	2680
Die Adapter	2681

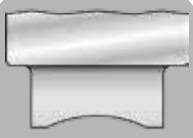
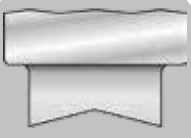


MAX. MATERIAL THICKNESS FOR ABOVE ADAPTERS

.135" [3.4mm] mild steel and aluminum
.090" [2.3mm] stainless steel

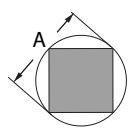


Other style adapters are available, please consult our sales desk.

ROOFTOP	CONCAVE OR DOUBLE CONCAVE	INVERTED ROOFTOP	DOUBLE VALLEY	JK SHEAR
 + Best shear for punching at maximum tonnages. - When nibbling, bite must be 75% of punch dimension or excessive side loading will result.	 + Best shear for nibbling because it inverts stresses. - Less resistant to breakage when punching at high tonnages because of inverted stresses.	 + Good shear for nibbling because it inverts stresses. - More susceptible to breakage because of a sharp focal point for stresses—use great care.	 + Best shear for nibbling when shape is long and narrow. - 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' Dimension	Inverted Rooftop Single Concave		Double Valley Double Concave	
		1/16" [1.6mm]	1/8" [3.2mm]	1/16" [1.6mm]	1/8" [3.2mm]
1-1/4" (B)	Within 1.250" [31.75mm]		N/A		N/A
2" (C)	Within 2.000" [50.8mm]				
3-1/2" (D)	Within 3.500" [88.9mm]				
4-1/2" (E)	Within 4.500" [114.3mm]				

SPECIAL SHEAR DETAILS	'A' DIMENSION	EXCEPTION
1/16" (1.6mm) 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.		In some instances, inverted rooftop is substituted for single and double concave shears.

JK SHEAR

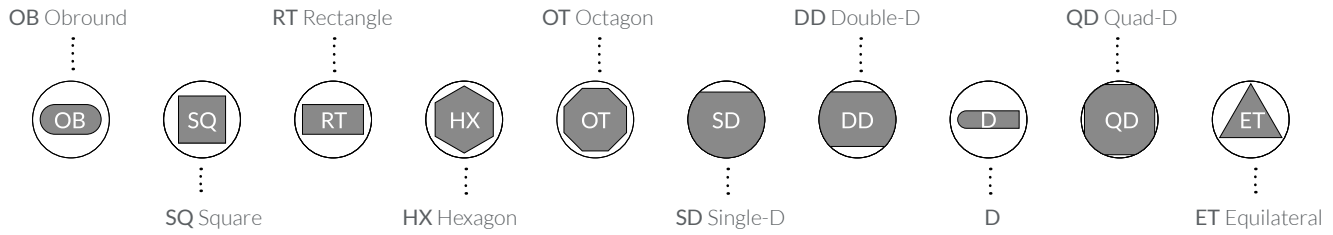
SHAPE	ADD ON PRICE
Round	
Rectangle, Square, Hexagon, Singe 'D', Double 'D'	
OB Round	

JK SHEAR DETAILS

If specified: 1/8" (3.2mm) maximum rooftop shear can be given at N/C for any round or shape in 2"(C), 3-1/2"(D), 4-1/2"(E) or 6"(F) stations.

For rooftop shear on any round or shape in 1/2"(A) or 1-1/4"(B) stations, add \$18.00.

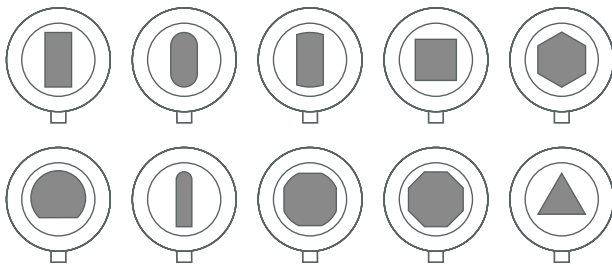
STANDARD SHAPES



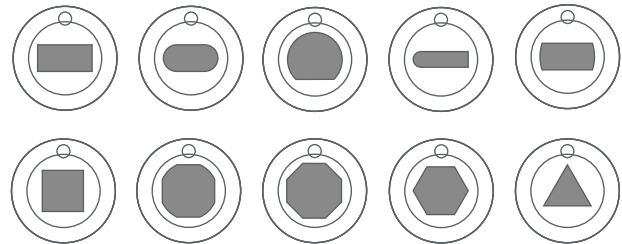
STANDARD KEYING LOCATIONS

PUNCH VIEW

1/2" [A] & 1-1/4" [B] STATION

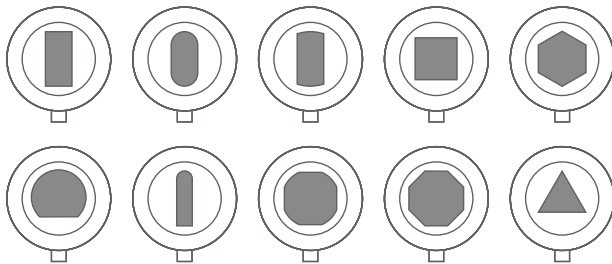


2" [C], 3-1/2" [D] & 4-1/2" [E] STATION

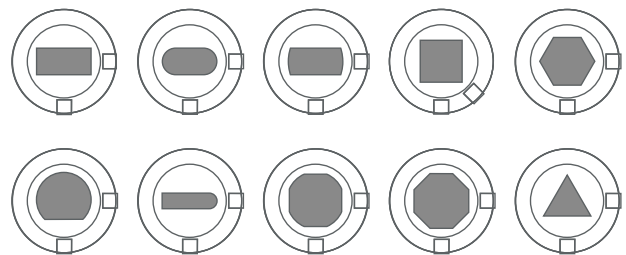


DIE VIEW

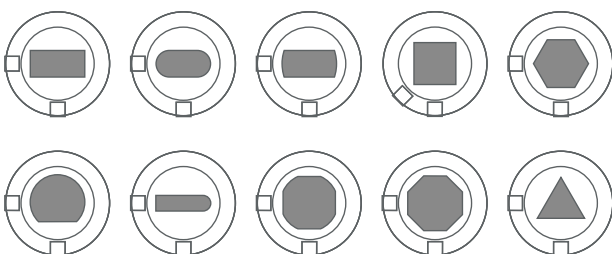
1/2" [A] & 1-1/4" [B] STATION



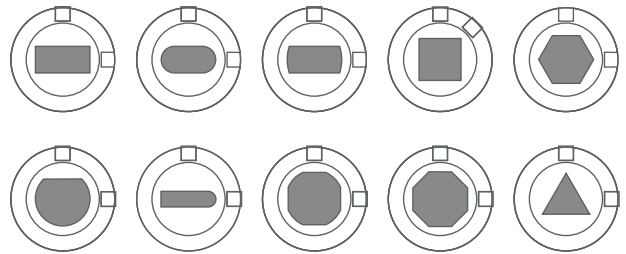
2" [C] STATION



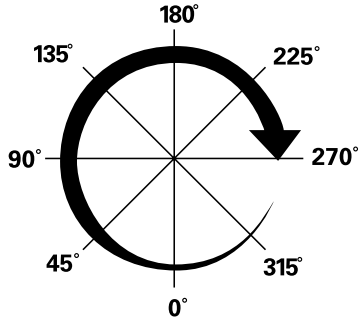
3-1/2" [D] STATION



4-1/2" [E] STATION



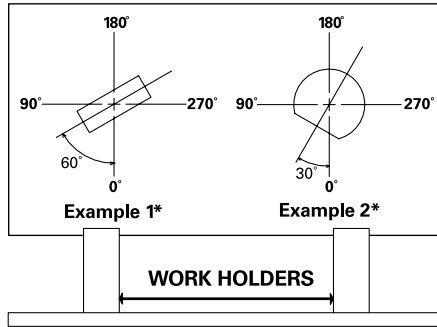
Wilson Tool Keying Diagram



Refer to non-standard key locations by the following method:

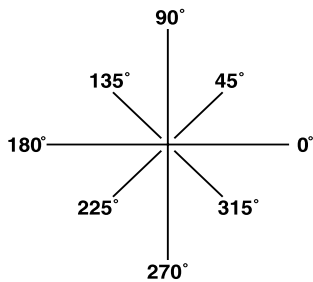
- Example 1 "Shape at 60°"
- Example 2 "Shape at 30°"

Examples of angle settings:



Front of Press

Die View



Front of Press

This key location matches Amada's® turret punch press programming method.

SHAPE at single angles other than standard

Station	Punch	Die	Guide or Stripper
A	N/C		N/C
B			Not Applicable
C			Not Applicable
D			Not Applicable
E			Not Applicable

No additional charge on A & B stations for shape at 45° increments)

STANDARD keying, plus extra pins or keys for shapes at other than 45° increments

Station	Punch	Die	Guide or Stripper
A	Not Applicable	Not Applicable	/ key
B	Not Applicable	Not Applicable	/ key
C	/ pin	/ key	Not Applicable
D	/ pin	/ key	Not Applicable
E	/ pin	/ key	Not Applicable

STANDARD keying, plus extra pins or keys for shapes at 45° increments

Station	PUNCH		DIE		Guide or Stripper
	Available Options	Add On Price	Available Options	Add On Price	
A	Not Available	Not Available	Not Available	Not Available	/ key
B	0° & 45° 0° & 180°		0° & 45° 0° & 180°		/ key
C	45° increments	/ pin	45° increments	/ key	Not Applicable
D	45° increments	/ pin	45° increments	/ key	Not Applicable
E	45° increments	/ pin	45° increments	/ key	Not Applicable

Die Clearance Selection Information

Material	Total Clearance		
	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

'A' STATION			
Add on for ROUNDS			
Small Diameter	PUNCH	DIE	STRIPPER
.031 - .061" [0.79 - 1.56mm]			N/C
.062 - .092" [1.57 - 2.34mm]		N/C	N/C
Clearance < .004" [.10mm]			N/C
Add on for SHAPES			
Small Width	PUNCH	DIE	STRIPPER
.031 - .039" [0.79 - 1.0mm]			
.040 - .092" [1.01 - 2.34mm]		N/C	
Clearance < .004" [0.10mm]			N/C

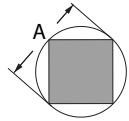
'C' STATION			
Add on for ROUNDS			
Small Diameter	PUNCH	DIE	STRIPPER
<1.000" [25.4mm]		N/C	N/C
Clearance < .004" [.10mm]			N/C
Add on for SHAPES			
Small Width	PUNCH	DIE	STRIPPER
.031 - .039" [0.79 - 1.0mm]			
.040 - .092" [1.01 - 2.34mm]			
'A' Dim < 1.150" [29.21mm]		N/C	N/C
Clearance < .004" [0.10mm]			N/C

'E' STATION			
Add on for ROUNDS			
Small Diameter	PUNCH	DIE	STRIPPER
<3.400" [86.36mm]		N/C	N/C
Clearance < .004" [.10mm]			N/C
Add on for SHAPES			
Small Width	PUNCH	DIE	STRIPPER
.031 - .039" [0.79 - 1.0mm]			
.040 - .092" [1.01 - 2.34mm]			
'A' Dim < 1.150" [29.21mm]		N/C	N/C
Clearance < .004" [0.10mm]			N/C

'B' STATION			
Add on for ROUNDS			
Small Diameter	PUNCH	DIE	STRIPPER
.031 - .061" [0.79 - 1.56mm]			N/C
.062 - .092" [1.57 - 2.34mm]		N/C	N/C
.093 - .249" [2.35 - 6.32mm]		N/C	N/C
Clearance < .004" [.10mm]			N/C
Add on for SHAPES			
Small Width	PUNCH	DIE	STRIPPER
.031 - .039" [0.79 - 1.0mm]			
.040 - .092" [1.01 - 2.34mm]		N/C	
'A' Dim < .437" [11.10mm]		N/C	N/C
Clearance < .004" [0.10mm]			N/C

'D' STATION			
Add on for ROUNDS			
Small Diameter	PUNCH	DIE	STRIPPER
<1.900" [48.26mm]		N/C	N/C
Clearance < .004" [.10mm]			N/C
Add on for SHAPES			
Small Width	PUNCH	DIE	STRIPPER
.031 - .039" [0.79 - 1.0mm]			
.040 - .092" [1.01 - 2.34mm]			
'A' Dim < 1.150" [29.21mm]		N/C	N/C
Clearance < .004" [0.10mm]			N/C

RADIUS OR 45° CHAMFER 4 CORNERS	
RADIUS OR CHAMFER SIZE	PRICE
.001 - .062" [0.02 - 1.57mm]	
Punch .063 - .250" [1.58 - 6.35mm]	
> .25" [.10mm]	
RADIUS OR CHAMFER SIZE	PRICE
Die Any Size	

MAX 'A' DIMENSION	NOTES
	Add \$7.25 to round or shape punch for : • Extra straight before radius • Extra back taper • No back taper