

Terms and Conditions

Order Minimum order is £35.00.

Credit All orders are subject to the approval of our credit department. If you are

a new account, please furnish us with a bank reference and three supplier references. A credit limit will be imposed on new accounts until credit has

been established.

Payment Terms are net 30 days.

Cancellation In the event an order is cancelled, charge will be made to cover labour,

materials and overheads.

Returned Material A handling charge of 25% is made on all standard parts returned for

credit. Written permission and shipping instructions must be obtained before the return of any material. Special tooling cannot be returned.

Claims All claims for shortages must be made within 3 days of the invoice date.

Prices Prices and specifications subject to change without prior notice. E & OE.

All prices are exclusive of VAT.



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Table of Contents

Optima™ Coating	2
Ultima™ Tool Steel	3
Features and Benefits of Wilson Replacement Amada Tooling – Quick-Adjust A & B Stations	4
Features and Benefits of Wilson Replacement Amada Tooling - C, D & E Stations	5
Wilson Amada Style Quick Adjust A Station	6
Wilson Amada Style A Station	7
Wilson Amada Style Quick Adjust B Station	8
Wilson Amada Style B Station	9
Wilson Amada Style C Station	10
Wilson Amada Style D Station	11
Wilson Amada Style E Station	12
Close to Clamps Tooling	13
Replaceable Insert Assembly	14
Punch and Die Shims	15
Non Standard Keying	16
Shear Options	17



Ireland

Technology for Increased Tool Life

Optima Coating

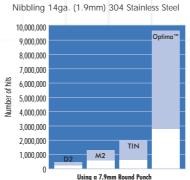
The New Standard in Tooling Performance!

Optima™ is a proprietary TiCN (titanium carbo-nitride) coating that was custom engineered at our in-house coating facilities. It features unique properties that significantly enhance tooling performance. This coating, which is available only to Wilson Tool customers, provides a level of surface hardness, wear resistance and lubricity never before associated with coated or uncoated punch press tooling.

Some of the many benefits that you will enjoy with our Optima™ coating include:

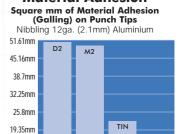
- · Longer tool life
- Increased wear resistance
- More hits between sharpenings
- Reduced adhesion (galling)
- · Reduced slug pulling
- Reduced corner breakdown
- Improved special tooling performance
- Lower overall tooling costs
- In-house coating facilities allow us to deliver faster and maintain total quality control

Punch Life Punch Life



The white area indicates actual results achieved through three tool sharpenings of 0.25mm each The complete graph indicates projected results with a total of 6mm removed for sharpening.

Material Adhesion



12.9mm

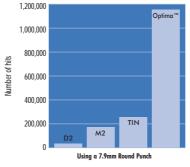
6.45mm

Using a 6.3mm Square Punch (At 20,000 hits)

Optima¹

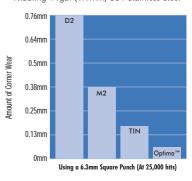
Number of Hits Number of Hits Before First Sharpening

Nibbling 14ga. (1.9mm) 304 Stainless Steel



Tip Wear Punch Tip Corner Wear

Nibbling 14ga. (1.9mm) 304 Stainless Steel





ECHNOLOGY AT THE CUTTING EDGE

Technology for Increased Tool Life

Ultima Tool Steel

Boost Punching Productivity!

Tool Steel for Longer Life

When faced with demanding applications that require longterm wear resistance and toughness, turn to Wilson's new Ultima™ Premium Tool Steel for HP thick turret tooling. Ultima punches and dies are engineered to increase wear resistance by up to 100% over conventional tool steels.

A New Level of Performance

Ultima premium tool steel sets a new benchmark for durability and performance. Ultima punches and dies are designed to dramatically improve tool life when punching abrasive materials and materials with high tensile strength.

Ultima excels in applications in which punches and dies wear quickly and is ideal for long running tasks. The premium steel from which Ultima punches and dies are made significantly reduces micro chipping on the cutting edge. This micro chipping is most often where cutting edge failure begins.



Remarkable Downtime Reductions

With up to twice as long between re-grinds, Ultima premium steel significantly reduces downtime and tool replacement costs. Breaking, chipping, cracking, tool fatigue and other downtime problems are minimised, providing long term gains in productivity and profitability.

Ultima tools are especially useful for the toughest punch press applications, but are effective in any job. Viability can be determined by conducting a cost benefit analysis.

Maintenance and sharpening may differ from traditional tooling. Please check with your local Sales Engineer or the Salesdesk.



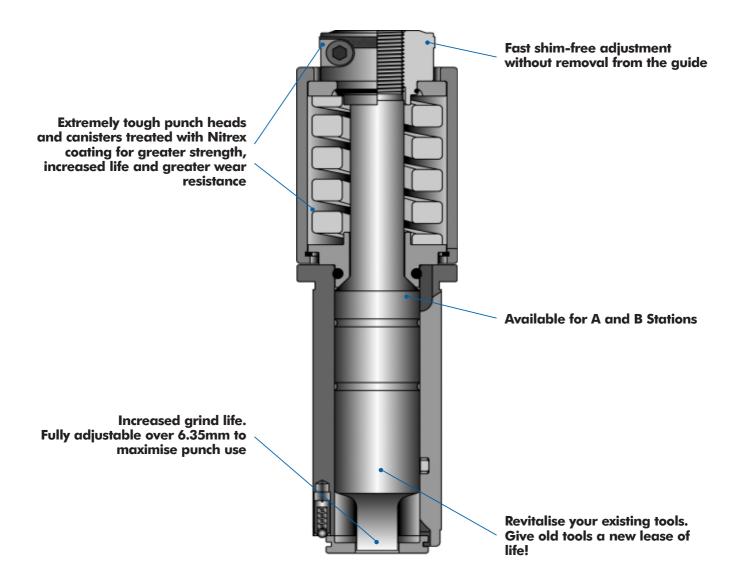
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Quick-Adjust A & B Stations



Features and Benefits of Wilson Replacement Amada Tooling

C, D & E Stations

Built-in oiling system ensures thorough internal/external lubrication

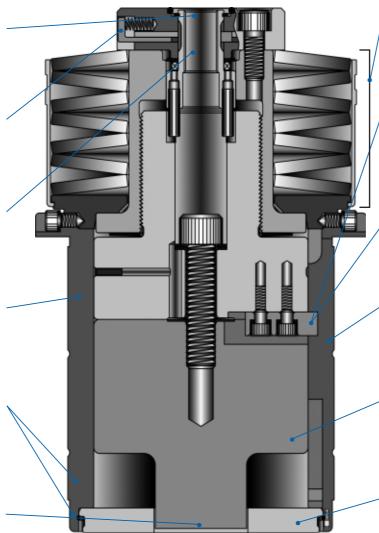
Push button punch length adjustment; (eliminating the need for shims)

> Tapped for M-14 Thandle carry and extractor tool

Hardened steel guide for longer life

Positive locking stripper plate retention

Provides four times more grind life than traditional old style guide assemblies



Pre-loaded spring pack assembly

Optima™ coated keys for superior wear resistance

50.8mm (C) and 88.9mm (D) station guide assemblies are keyed at 0°, 90° and 225°

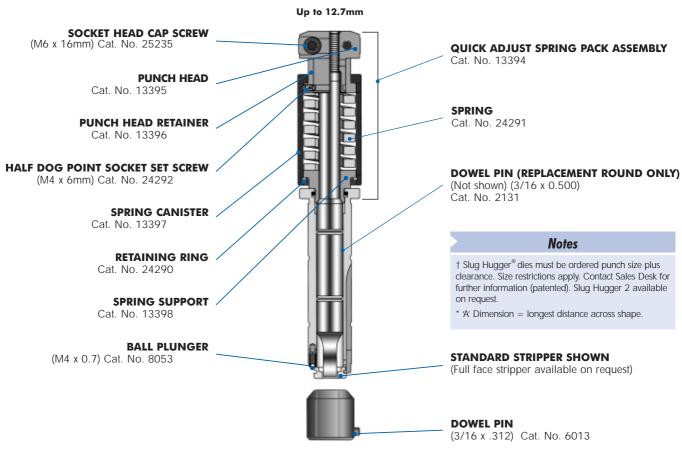
External keying for quick key position changes

Available for either 'Old Style®' or Series 80®/90® style punches

Uses standard stripper plates

Ireland

Wilson Amada Style Quick Adjust A Station



	Maximum	Material	Thickness	3.81mm
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Descripti	on	Cat. No.	Price
Punch & Guide Assembly	RoundShape FittedOptima® Add On	13425 13427 –	
Punches	RoundShapeOptima® Add On	2183 2182 –	
Guides	RoundShape (0°)Shape (0° & 45°)Shape (0° & 90°)	13065 13066 13067 13068	
Stripper	RoundShape Fitted	13044 13143	
Dies	Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Positive Shape Negative Ultima™ Add On (Round) Ultima™ Add On (Shape)	2192 1808 2193 1817 1818 -	

12.7mm (A) Station Add Ons						
Add ons for Rounds						
Small Diameter	Punch	Die	Guide			
0.79 - 1.50mm			N/C			
Clearance < 0.10 mm			N/C			
Add ons	for Shapes					
Small Widths	Punch	Die	Guide			
0.79 - 1.0mm						
Clearance < 0.10 mm						
Add to round or shape punch for extra straight before radius, extra back taper, or no back taper.						

Stubby Style (A) Station Add Ons								
Note: Must use	Punch	Die						
stubby style die and guide with stubby style punch Use Standard Punch and Die Price Plus:	Round (2.3mm max dia.) add Shape add	Round add Shape add						

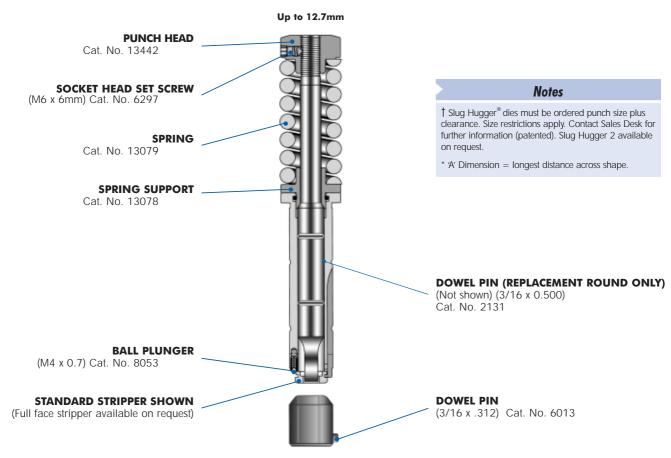
	Stand	ard Shap	pes & Ke	y Locati	ons (Die	View)		

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Wilson Amada Style A Station



Maximum Material Thickness 3.81mm

Descripti	on	Cat. No.	Price
Punch & Guide Assembly	RoundShape FittedOptima® Add On	13057 13059 —	
Punches	RoundShapeOptima® Add On	2183 2182 –	
Guides	RoundShape (0°)Shape (0° & 45°)Shape (0° & 90°)	13065 13066 13067 13068	
Stripper	RoundShape Fitted	13044 13143	
Dies	Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Positive Shape Negative Ultima™ Add On (Round) Ultima™ Add On (Shape)	2192 1808 2193 1817 1818 -	

12.7mm (A) Station Add Ons							
Add ons for Rounds							
	Small Diameter	Punch	Die	Guide			
	0.79 - 1.50mm			N/C			
	Clearance < 0.10mm			N/C			
Add ons for Shapes							
	Small Widths	Punch	Die	Guide			
	0.79 - 1.0mm						
	Clearance < 0.10 mm						
Add	to round or shape punch for extra straight to	pefore radius, extr	a back taper, or r	no back taper.			

Stubby Style (A) Station Add Ons								
Note: Must use	Punch		Die					
stubby style die and guide with stubby style punch Use Standard Punch and Die Price Plus:	Round (2.3mm max dia.) add Shape add	Round ac Shape ac						

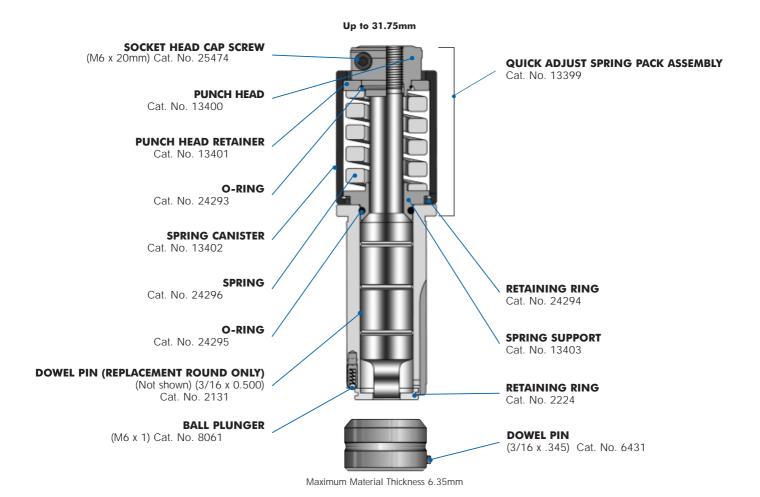
7

Standard Shapes & Key Locations (Die View)											

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Wilson Amada Style Quick Adjust B Station



Descripti	on	Cat. No.	Price
Punch & Guide Assembly	RoundShape FittedOptima® Add On	13431 13433 –	
Punches	RoundShapeOptima® Add On	2185 2184 –	
Guides	 Round Shape (0°) Shape (0° & 45°) Shape (0° & 90°) 	13413 13414 13415 13416	
Stripper	RoundShape Fitted	1890 1917	
Dies	 Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Positive Shape Negative Shape (0° & 45°) Positive Shape (0° & 45°) Negative Ultima™ Add On (Round) Ultima™ Add On (Shape) 	2194 2021 2195 2025 2026 2263 2264	

	(B) Station Add Ons							
	Add ons for Rounds							
	Small Diameter 0.79 - 1.50mm Clearance < 0.10mm	Punch	Die	Stripper N/C N/C				
Add ons for Shapes								
	Small Widths 0.79 - 1.0mm 'A' Dimension* < 11.10mm Clearance < 0.10mm	Punch N/C	Die N/C	Stripper N/C N/C				
Add	Add to round or shape punch for extra straight before radius, extra back taper, or no back taper.							

Notes

 \dagger Slug Hugger $\!\!\!^{\text{@}}\!\!$ dies must be ordered punch size plus clearance. Size restrictions apply. Contact Sales Desk for further information (patented). Slug Hugger 2 available on request.

* 'A' Dimension = longest distance across shape.

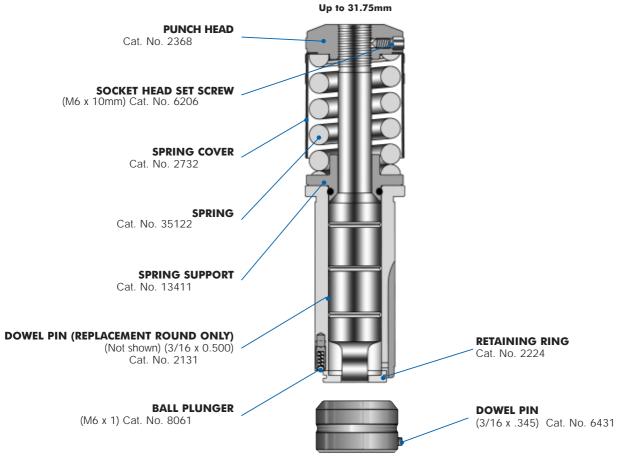
Standard Shapes & Key Locations (Die View)

Ireland

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Wilson Amada Style B Station



		Maximum	Material	Thickness	6.35mm
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Descripti	on	Cat. No.	Price
Punch & Guide Assembly	RoundShape FittedOptima® Add On	13090 13092 —	
Punches	RoundShapeOptima® Add On	2185 2184 –	
Guides	 Round Shape (0°) Shape (0° & 45°) Shape (0° & 90°) 	13413 13414 13415 13416	
Stripper	RoundShape Fitted	1890 1917	
Dies	Round Slug Hugger®† Round Standard®† Shape Slug Hugger Shape Positive Shape Negative Shape (0° & 45°) Positive Shape (0° & 45°) Negative Ultima™ Add On (Round) Ultima™ Add On (Shape)	2194 2021 2195 2025 2026 2263 2264	

	(B) Station Add Ons								
	Add ons for Rounds								
	Small Diameter 0.79 - 1.50mm Clearance < 0.10mm	Punch	Die	Stripper N/C N/C					
	Add ons f	or Shapes							
	Small Widths 0.79 - 1.0mm 'A' Dimension* < 11.10mm Clearance < 0.10mm	Punch N/C	Die N/C	Stripper N/C N/C					
Add	to round or shape punch for extra straight	before radius, ext	tra back taper, or	no back taper.					

Notes

 \dagger Slug Hugger $^{\!\scriptscriptstyle \otimes}$ dies must be ordered punch size plus clearance. Size restrictions apply. Contact Sales Desk for further information (patented). Slug Hugger 2 available on request.

* 'A' Dimension = longest distance across shape.

Standard Shapes & Key Locations (Die View)



























































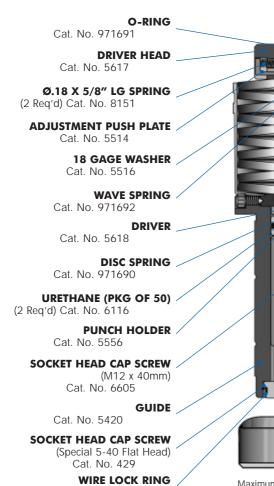
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Wilson Amada Style C Station



Up to 50.8mm

Maximum Material Thickness 6.35mm

RETAINING RING

Cat. No. 8198

SOCKET HEAD SET SCREW WITH

NYLOCK (M6 x 20mm) (4 Req'd)

Cat. No. 971335

DRIVER ASSEMBLY

Cat. No. 5690

ADJUSTMENT SHAFT (INCLUDES DOWEL PINS)

Cat. No. 5515

DISC SPRING

(10 Req'd) Cat. No. 5034

SPRING SUPPORT

Cat. No. 5008

ANTI LOCK SHIM

Cat. No. 5412

SOCKET HEAD CAP SCREW

(M5 x 12mm) Cat. No. 5197

LOCKWASHER

Cat. No. 2112

SOCKET HEAD CAP SCREW

(M3 x 12mm) Cat. No. 6326

LOCKWASHER

Cat. No. 6327

PUNCH HOLDER KEY

Cat. No. 5373

SPECIAL BUTTON HEAD SCREW (OPTION)

(Not shown) (3 Req'd) Cat. No. 5006

STRIPPER CLIP WITH SCREWS (OPTION)

Cat. No. 2810

Descripti	on	Cat. No.	Price
Guide Assembly	Standard (LVD) Standard WLS® Standard WLS® (LVD)	5583 35191 5592 35193	
Punches	RoundShapeOptima® Add On	1933 1934 -	
Strippers	• Round • Shape	1848 1854	
Dies	 Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Positive Shape Negative Ultima™ Add On (Round) Ultima™ Add On (Shape) 	2196 1850 2197 1855 1856	

Cat. No. 5035

50.8mm (C) Station Add Ons								
Add ons for Rounds								
Small Diameter < 25.4mm Clearance < 0.10mm	Punch	Die N/C	Stripper N/C N/C					
Add ons f	Add ons for Shapes							
Small Widths 0.79 - 1.0mm 1.01 - 2.34mm Small 'A' Dimension* < 29.21mm 29.22 - 31.72 Clearance < 0.10mm	Punch N/C	N/C N/C N/C	Stripper N/C N/C N/C N/C					
Add to round or shape punch for extra straight	before radius, ext	tra back taper, or	no back taper.					

Notes

Standard guide assys. are keyed for shapes at 0°, 90° and 225°.

All punches will be shipped with no shear unless specified.

†Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Contact Sales Desk for further information (patented). Slug Hugger 2 available on request.

*'A' Dimension = longest distance across shape.

Standard Shapes & Key Locations (Die View)























































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Wilson Amada Style D Station

O-RING

Cat. No. 971691

Ø.18 X 5/8" LG SPRING

Cat. No. 8151

ADJUSTMENT PUSH PLATE

Cat. No. 5514

18 GAGE WASHER

Cat. No. 5516

WAVE SPRING

Cat. No. 971692

SOCKET HEAD CAP SCREW

(2 Req'd) (M5 x 12mm) Cat. No. 5197

LOCKWASHER

(2 req'd) Cat. No. 2112

ANTI-LOCK SHIM

Cat. No. 5413

URETHANE (PKG OF 50)

(2 Req'd) Cat. No. 6116

PUNCH HOLDER

Cat. No. 5558

SOCKET HEAD CAP SCREW

(M12 x 50mm) Cat. No. 970467

GUIDE

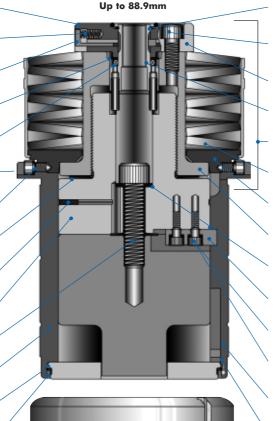
Cat. No. 5430

SOCKET HEAD CAP SCREW

(Special 5-40 Flat Head) Cat. No. 429

WIRE LOCK RING

Cat. No. 5036



Maximum Material Thickness 6.35mm

RETAINING RING

Cat. No. 8198

SOCKET HEAD SET SCREW WITH

NYLOCK (M8 x 20mm)

Cat. No. 971560

DRIVER HEAD

Cat. No. 5619

ADJUSTMENT SHAFT (INCLUDES DOWEL PINS)

Cat. No. 5532

DRIVER ASSEMBLY

Cat. No. 5691

DISC SPRING

(7 Reg'd) Cat. No. 5449

SPRING SUPPORT

Cat. No. 5531

DRIVER

Cat. No. 5620

DISC SPRING

(2 Reg'd) Cat. No. 971690

PUNCH HOLDER KEY

Cat. No. 1862

SOCKET HEAD CAP SCREW

(M5 x 12mm) (2 Req'd) Cat. No. 6110

LOCKWASHER

(2 Req'd) Cat. No. 2112

SPECIAL BUTTON HEAD SCREW (OPTION)

(Not shown) (4 Req'd) Cat. No. 5006

STRIPPER CLIP WITH SCREWS (OPTION)

Cat. No. 2810

Descripti	on	Cat. No.	Price
Guide Assembly	Standard (LVD) Standard WLS® Standard WLS® (LVD)	5584 35198 5593 35200	
Punches	RoundShapeOptima® Add On	1937 1938 -	
Strippers	• Round • Shape	1864 1869	
Dies	 Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Positive Shape Negative Ultima™ Add On (Round) Ultima™ Add On (Shape) 	2198 1865 2199 1870 1871 -	

88.9mm (D) Station Add Ons								
Add ons for Rounds								
Small Diameter 48.26mm 48.27 - 50.77mm Clearance < 0.10mm	Punch	Die N/C N/C	Stripper N/C N/C N/C					
Add ons for Shapes								
Small Widths 0.79 - 1.0mm 1.01 - 2.34mm Small 'A' Dimension* < 48.26mm 48.27 - 50.77mm Clearance < 0.10mm	Punch N/C	N/C N/C N/C	Stripper N/C N/C N/C N/C					
Add to round or shape punch for extra straight	before radius, ext	ra back taper, or i	no back taper.					

Standard guide assys. are keyed for shapes at 0° , 90° & 225° .

1.6mm Rooftop shear is given to all punches with 'A' dimension greater than 50.8mm, and width greater than 6.35mm, at no extra charge.

shipped with no shear unless specified.

† Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Contact Sales Desk for further information (patented). Slug Hugger 2 available on request

All punches 6.35mm and under in width will be *A' Dimension = longest distance across shape.

Standard Shapes & Key Locations (Die View)



















































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Wilson Amada Style E Station

O-RING

Cat. No. 971691

Ø.18 X 5/8" LG SPRING

(2 Reg'd) Cat. No. 8151

ADJUSTMENT PUSH PLATE

Cat. No. 5514

18 GAGE WASHER

Cat. No. 5516

WAVE SPRING

Cat. No. 971692

SOCKET HEAD CAP SCREW

(4 Req'd) Cat. No. 5210

LIFTER PIN

(Not shown) (4 Req'd) Cat. No. 5017

DISC SPRING

Cat. No. 971690

ANTI-LOCK SHIM

Cat. No. 5413

PUNCH HOLDER

Cat. No. 5560

URETHANE (PKG OF 50)

(2 Req'd) Cat. No. 6116

GUIDE Cat. No. 5438

SOCKET HEAD CAP SCREW

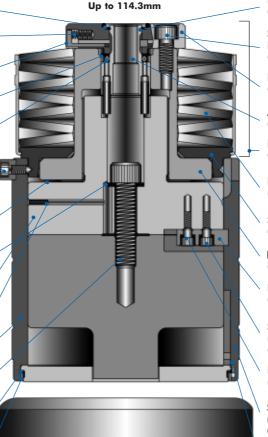
(M12 x 50mm) Cat. No. 970467

SOCKET HEAD CAP SCREW

(Special 5-40 Flat Head) Cat. No. 429

WIRE LOCK RING

Cat. No. 5037



Maximum Material Thickness 6.35mm

RETAINING RING

Cat. No. 8198

SOCKET HEAD SET SCREW WITH

NYLOCK (M8 x 20mm) (4 Reg'd)

Cat. No. 971560

DRIVER HEAD

Cat. No. 5621

ADJUSTMENT SHAFT (INCLUDES DOWEL PINS)

Cat. No. 5542

DRIVER ASSEMBLY

Cat. No. 5692

DISC SPRING

(7 Req'd) Cat. No. 5449

SPRING SUPPORT

Cat. No. 5541

DRIVER

Cat. No. 5622

PUNCH HOLDER KEY

Cat. No. 1862

SOCKET HEAD CAP SCREW

(M5 x 12mm) (2 Req'd) Cat. No. 6110

LOCKWASHER

(2 Req'd) Cat. No. 2112

SPECIAL BUTTON HEAD SCREW (OPTION)

(Not shown) (4 Req'd) Cat. No. 5006

STRIPPER CLIP WITH SCREWS (OPTION)

Cat. No. 2810

Descripti	on	Cat. No.	Price
Guide Assembly	• Standard • Standard WLS®	5585 5594	
Punches	• Round • Shape • Optima® Add On	1941 1942 –	
Strippers	• Round • Shape	1877 1882	
Dies	 Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Positive Shape Negative Ultima™ Add On (Round) Ultima™ Add On (Shape) 	2200 1878 2201 1883 1884 -	

114.3mm (E) Station Add Ons								
Add ons for Rounds								
Small Diameter < 86.36mm 86.37 - 88.87mm Clearance < 0.10mm	Punch	Die N/C N/C	Stripper N/C N/C N/C					
Add ons for Shapes								
Small Widths 0.79 - 1.0mm 1.01 - 2.34mm Small 'A' Dimension* < 86.36mm 86.37 - 88.87mm Clearance < 0.10mm	Punch N/C	N/C N/C N/C	Stripper N/C N/C N/C N/C					
Add to round or shape punch for extra straight	before radius, ext	ra back taper, or	no back taper.					

Standard guide assys. are keyed for shapes at 0° & 90° .

1.6mm Rooftop shear is given to all punches with 'A' dimension greater than 50.8mm, and width greater than 6.35mm, at no extra charge.

All punches 6.35mm and under in width will

be shipped with no shear unless specified.

† Slug Hugger* dies must be ordered punch size plus clearance. Size restrictions apply. Contact Sales Desk for further information (patented). Slug Hugger 2 available on request.

* 'A' Dimension = longest distance across

Standard Shapes & Key Locations (Die View)























































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Close to Clamps Tooling





88.9mm (D) Station for punching close to clamps						
Descripti	on	Cat. No.	Price			
Dies	• Slug Hugger®† (relief 2 sides, shp at 90°) • Slug Hugger®†	5157				
	(relief 2 sides, shp at 0°-90°) • Slug Hugger®†	5330				
	(relief 1 side, shp at 90°) • Slug Hugger®†	2464				
	(relief 1 side, shp at 0°-90°)	5333				
	Positive (relief 2 sides, shp at 90°)Positive	5101				
	(relief 2 sides, shp at 0°-90°) • Positive	5328				
	(relief 1 side, shp at 90°) • Positive	2462				
	(relief 1 side, shp at 0°-90°) • Negative	5331				
	(relief 2 sides, shp at 90°) • Negative	5156				
	(relief 2 sides, shp at 0°-90°) • Negative	5329				
	(relief 1 side, shp at 90°) • Negative	2463				
	(relief 1 side, shp at 0°-90°) • Ultima Add On	5332				

114.3	114.3mm (E) Station for punching close to clamps						
Descripti	on	Cat. No.	Price				
Dies	• Slug Hugger®† (relief 2 sides, shp at 90°) • Slug Hugger®†	5159					
	(relief 2 sides, shp at 0°-90°) • Slug Hugger®†						
	(relief 1 side, shp at 90°) • Slug Hugger®†	2467					
	(relief 1 side, shp at 0°-90°) • Positive	5343					
	(relief 2 sides, shp at 90°) • Positive	5095					
	(relief 2 sides, shp at 0°-90°) • Positive	5338					
	(relief 1 side, shp at 90°) • Positive	2465					
	(relief 1 side, shp at 0°-90°) • Negative	5341					
	(relief 2 sides, shp at 90°) • Negative	5158					
(relief 2 sides, shp at 0°-90°) • Negative		5339					
	(relief 1 side, shp at 90°) • Negative	2466					
	(relief 1 side, shp at 0°-90°) • Ultima Add On	5342 -					

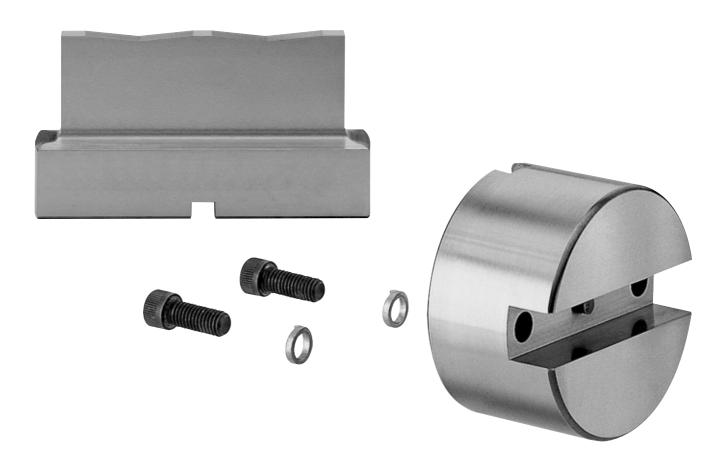
Notes

WILSON

[†] Slug Hugger* dies must be ordered punch size plus clearance. Size restrictions apply. Contact Sales Desk for further information (patented).

^{* &#}x27;A' Dimension = longest distance across shape.

Replaceable Insert Assembly



	Replaceable Insert Assembly									
Station	Body (1) Cat. No.	/2″ - 13) Price	Body (/ Cat. No.	M - 12) Price	Punch Cat. No.	Insert Price	Set (1/2 Cat. No.	" - 13) Price	Set (M Cat. No.	- 12) Price
50.8mm (C)	2623		2625		2590		2568		2624	
88.9mm (D)	1966		2286		1967		1965		2372	
114.3mm (E)	1969		2287		1970		1968		2373	
Parts Description						Cat. No.	Price			
Socket Head Cap Screw — 3/8" - 16 x 1-1/2" long (for 50.8mm (C) station)							6391			
Socket Head Cap Screw — 3/8" - 16 x 1-1/2" long (for 88.9mm (D) & 114.3mm (E) stations)							6019			
High Collar Lock Washer for 3/8" screw						2129				
Dowel Pin – 1/4" [Dia. x 450" long	(All stations)							6004	

Notes

- * Optima® is standard on punch inserts.
- * Blade insert punches under 9.53mm in width will be shipped with no shear unless specified.
- * Double Valley Shear is recommended for widths of 4.75mm up to 9.53mm and minimum lengths of 50.8mm when used for nibbling.
- * Undersized dimensions will incur additional charges. Please consult the fee schedule for the appropriate station to determine the charge.
- * See shear chart on page 17.
- * For widths less than 2.36mm, consult the sales desk.
- * Maximum width 19mm.
- * Inserts are available as obround to be used with rectangle dies, to eliminate 'Saw Tooth Effect'.



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Punch Shims, Die Shims and Slug Ejectors

Die Shims					
Station	Quantity	Cat. No.	Price		
0.25mm Thick — Individually					
12.7mm (A)	1	2101			
31.75mm (B)	1	2097			
50.8mm (C)	1	2089			
88.9mm (D)	1	2081			
114.3mm (E)	1	2073			
().25mm Thick — P	ackage			
12.7mm (A)	25	2208			
31.75mm (B)	25	2209			
50.8mm (C)	10	2210			
88.9mm (D)	5	2211			
114.3mm (E)	5	2212			
0.7	5mm Thick — Ind	ividually			
12.7mm (A)	1	2721			
31.75mm (B)	1	2723			
50.8mm (C)	1	2725			
88.9mm (D)	1	2727			
114.3mm (E)	1	2729			
	.75mm Thick — Po	ackage			
12.7mm (A)	25	2722			
31.75mm (B)	25	2724			
50.8mm (C)	10	2726			
88.9mm (D)	5	2728			
114.3mm (E)	5	2730			
	5mm Thick — Ind	vidually			
12.7mm (A)	1	2104			
31.75mm (B)	1	2100			
50.8mm (C)	1	2092			
88.9mm (D)	1	2084			
114.3mm (E)	1	2076			
	1.5mm Thick — Po				
12.7mm (A)	25	2172			
31.75mm (B)	25	2173			
50.8mm (C)	10	2174			
88.9mm (D)	5	2175			
114.3mm (E)	5	2176			

Punch Shims						
Station	Quantity	Cat. No.	Price			
	Individually					
12.7mm (A)	1	13080				
31.75mm (B)	1	152				
50.8mm (C)	1	2096				
88.9mm (D)	1	2088				
114.3mm (E)	1	2080				
	Package					
31.75mm (B)	25	98				
50.8mm (C)	10	2169				
88.9mm (D)	5	2170				
114.3mm (E)	5	2171				

Slug Ejectors						
Square Urethane						
Hole Diameter in Punch Quantity Cat. No. Price						
3.2mm	50	6116				
4.8mm	50	6117				
9.5mm	50	6118				
12.7mm	50	6119				
Assortment	50	6410				



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Non Standard Keying

When ordering shapes at non-standard angles, use the diagrams below to eliminate any confusion.

Die View

180°
135°
225°
90°
45°
315°

0°
Front of Machine

Wilson Tool's keying diagram.

90°
135°
45°
225°
315°

Front of Machine

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

ExampleShape at 23°

Shape at single angles other than standard (Note: No additional charge on A & B Stations for shape at 45° increments)

Station	Punches	Dies	Guides or Strippers
12.7mm (A)	No Charge	No Charge	
31.75mm (B)			Not Applicable
50.8mm (C)			Not Applicable
88.9mm (D)			Not Applicable
114.3mm (E)			Not Applicable

Standard Keying, plus extra pins or keys for shapes at other than 45° increments

Station	Punches	Dies	Guides or Strippers
12.7mm (A)	Not Available	Not Available	
31.75mm (B)	Not Available	Not Available	
50.8mm (C)			Not Applicable
88.9mm (D)			Not Applicable
114.3mm (E)			Not Applicable

Standard Keying,	, plus extra pins	or keys for shapes	s at 45° increments

	Pu	Punches		Dies	Guides or Strippers
Station	Available Options	Add On Price	Available Options	Add On Price	Outues of Shippers
12.7mm (A)	Not available	Not available	Not available	Not available	
31.75mm (B)	0° & 45°		0° & 45°		
31./3HIII (b)	0° & 180°		0° & 180°		
50.8mm (C)	45° Increments		45° Increments		Not applicable
88.9mm (D)	45° Increments		45° Increments		Not applicable
114.3mm (E)	45° Increments		45° Increments		Not applicable

Shear Options

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

Special Shears						
		Inverted Rooftop		Double Valley		
Station	'A' Dimensions*	'A' Dimensions* Single Concave 1.6mm Shear 3.2mm Shear		Double Concave		
				1.6mm Shear	3.2mm Shear	
31.75mm (B)	Within 31.75mm		N/A		N/A	
50.8mm (C)	Within 50.8mm					
88.9mm (D)	Within 88.9mm					
114.3mm (E)	Within114.3mm					

JK Shear				
Shape	Add on Price			
Round				
Rectangle, Square, Hexagon Single 'D', Double 'D'				
Obround				

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

[%] x Material Thickness=Total Clearance

Notes

If specified: 3.2mm maximum rooftop shear can be given at N/C for any round or shape in 50.8mm (C), 88.9mm (D) or 114.3mm (E). For rooftop shear on any round or shape in 12.7mm (A) or 31.75mm (B) stations, add

•1.6mm rooftop shear is given to all punches with 'A' dimension* greater than 50.8mm and width greater than 6.35mm at no extra charge. All punches

- 6.35mm and under in width will be shipped with no shear unless specified. * 'A' Dimension = Longest distance across shape.
- ••NOTE: In some instances, inverted rooftop is substituted for single and double concave shears.

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