

## WILSON THICK TURRET TOOL SYSTEM



Suitable for use on Amada, Danobat (Goiti), Dimeco, Durma, Euromac, LVD Strippit, Pivatic, Prima Power, Wemo and other thick turret punch presses

#### **Terms and Conditions**

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, a 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.



**UK** Tel (Free): 0800 373 748 **Ireland** Tel (Free): 1-800 709 009 Fax (Free): 0800 373 758 Fax (Free): 1-800 535 538 email: sales@wilsontool.eu.com

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### **Technology for Increased Tool Life**

## Optima® Coating

#### The New Standard in Tooling Performance!

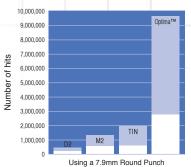
Optima® is a proprietary TiCN (titanium carbo-nitride) coating that was custom engineered at our in-house coating facilities. It features unique properties that significantly enhance tooling performance. This coating, which is available only to Wilson Tool customers, provides a level of surface hardness, 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

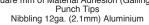
Punch Life Nibbling 14ga. (1.9mm) 304 Stainless Steel

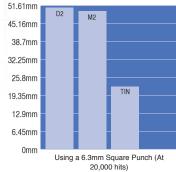


The white area indicates actual results achieved through three tool sharpenings of 0.25mm each. The complete graph indicates projected results with a total of 6mm removed for sharpening.

#### **Material Adhesion**

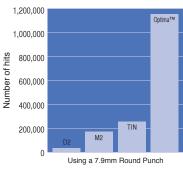
Square mm of Material Adhesion (Galling) on





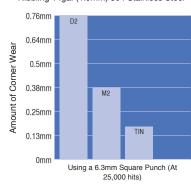
#### Number of Hits

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







### **Technology for Increased Tool Life**

## Ultima® Tool Steel

#### **Boost Punching Productivity!**

#### Tool Steel for Longer Life

When faced with demanding applications that require long-term 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.



#### Features and Benefits - A and B Stations

## Wilson Thick Turret Tool Systems for A & B Stations

Wilson Tool offers three ranges of A & B station standard tools with feature sets to suit different applications and budgets.

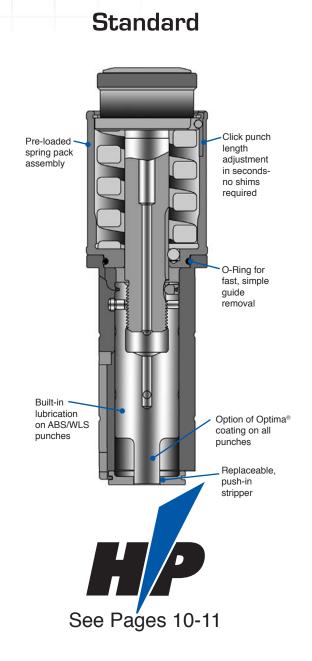
HPX is Wilson Tool's premium tool holder system for A & B stations. With quick-change EXP punches and push in stripper plates, it is possible to use the same holder for multiple punches rather than purchasing full assemblies for each job. EXP punches are manufactured from Ultima® powdered tool steel for long life, and punch lengths can be adjusted with a twist of the punch head. This new punch technology increases productivity, reduces manufacturing waste, saves storage space and delivers the same performance, grind life and durability as our ground-breaking HP punch press tooling at a lower cost.

HP is Wilson Tool's standard tool system, designed for fast, easy punch length adjustments and with replaceable HP punches. Tools can be adjusted with no tools or buttons; a simple twist of the punch head is all that is required.

Basix is Wilson Tool's economy tool system; compatible with Wilson-style full body punches and using shims for tool length adjustment.

Three ranges of tools to suit your application, all manufactured to Wilson Tool's superior quality standards and tolerances and with the same short lead times.

## **Economy** O-Ring for easy guide removal Double-D punch pin for long life and accurate alignment Option of Optima® coating on all punches Push-in stripper-no tools

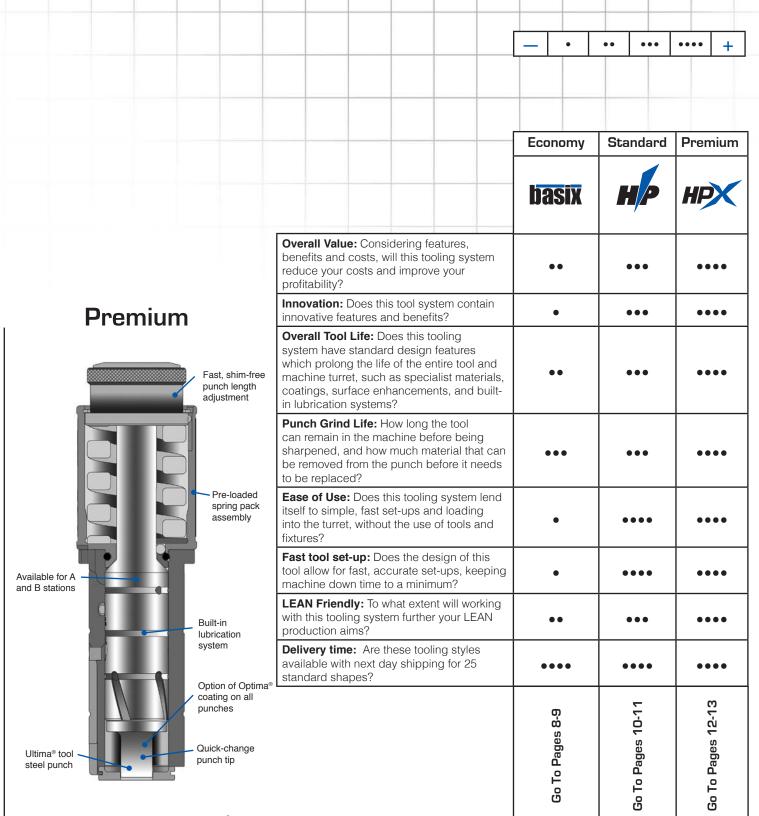


See Pages 8-9

Ireland

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## Features and Benefits - C, D and E Stations

## Wilson Thick Turret Tool Systems

for C, D & E Stations

Wilson Tool offers two ranges of C, D & E station standard tools with feature sets to suit different applications and budgets.

Wilson High Performance (HP) is Wilson Tool's premium tool system for C, D & E stations. Unique features including patented push button length adjustment, quick release stripper plate and hardened steel construction make Wilson HP the most advanced thick turret tool system in the industry. Wilson HP is compatible with all Series 90 punches and stripper plates, the Amada PDC system, and is available in ABS and gravity-fed lubrication configurations.

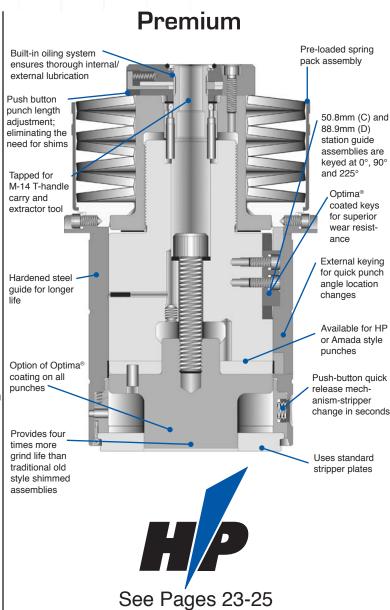
Wilson Standard is Wilson Tool's standard tool system for C, D & E stations. Designed with many of the features of the HP tool system (including patented push button length adjustment and hardened steel construction), but with manual stripper retention using stripper clips or a wire lock ring. As with HP, Wilson Standard is compatible with all Series 90 punches and stripper plates, the Amada PDC system, and is available in ABS and gravity-fed lubrication configurations.

Two ranges of tools to suit your application, both manufactured to Wilson Tool's superior quality standards and tolerances and with the same short lead times.

#### **Standard** Built in oiling system Pre-loaded spring ensures thorough internal/ external lubrication pack assembly 50.8mm (C) and Push button 88.9mm (D) punch length station quide adjustment; assemblies eliminating are keved at the need for 0°, 90° and shims 225° Tapped for Optima® M-14 T-handle coated keys carry and for superior extractor tool wear resistance External keying for quick punch angle location Hardened steel guide for longer Available for HP or Amada style punches Positive locking Option of stripper plate Optima® coating retention on all punches Provides four Uses standard times more grind stripper plates life than traditional old style shimmed assemblies

## Wilson Standard

See Pages 20-22



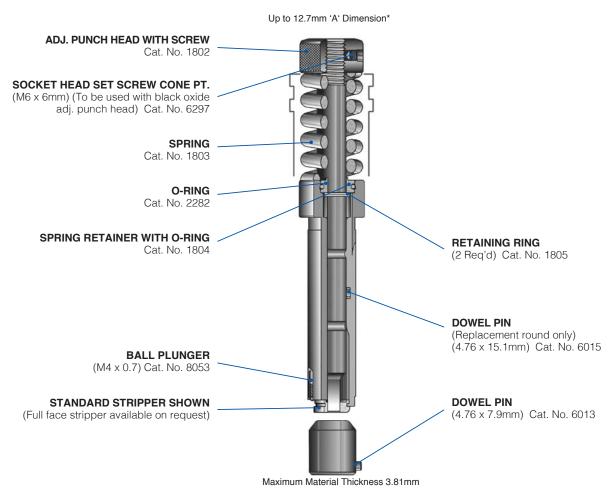
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	_ • •	••• •••• +	
	Standard	Premium	
	Wilson Standard	HP	
<b>Overall Value:</b> Considering features, benefits and costs, will this tooling system reduce your costs and improve your profitability?	•••	••••	
<b>Innovation:</b> Does this tool system contain innovative features and benefits?	•••	••••	
Overall Tool Life: Does this tooling system have standard design features which prolong the life of the entire tool and machine turret, such as specialist materials, coatings, surface enhancements, and built-in lubrication systems?	••••	••••	
Punch Grind Life: How long the tool can remain in the machine before being sharpened, and how much material that can be removed from the punch before it needs to be replaced?	••••	••••	
<b>Ease of Use:</b> Does this tooling system lend itself to simple, fast set-ups and loading into the turret, without the use of tools and fixtures?	•••	••••	
<b>Fast tool set-up:</b> Does the design of this tool allow for fast, accurate set-ups, keeping machine down time to a minimum?	•••	••••	
<b>LEAN Friendly:</b> To what extent will working with this tooling system further your LEAN production aims?	•••	••••	
<b>Delivery time:</b> Are these tooling styles available with next day shipping for 25 standard shapes?	••••	••••	
	Go To Pages 20-22	Go To Pages 23-25	

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## **Basix Wilson Style A Station**



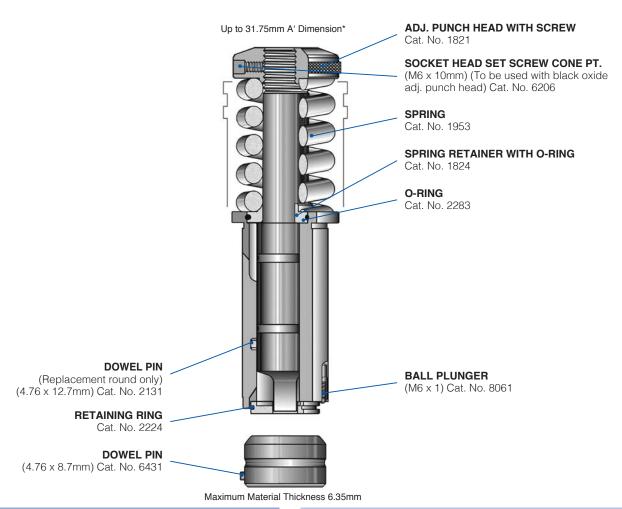
Description		Cat. No.	Price
Punch & Guide Assembly	• Round • Shape Fitted • Optima® Add On	13453 13455 -	
Punches	Round     Shape     Optima® Add On	1807 1816 -	
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	2821 2822 2903 2904	
Stripper	• Round • Shape Fitted	13044 13143	
Dies	Round Slug Hugger®†     Round Standard     Shape Slug Hugger®†     Shape Standard     Ultima® Add On(Round)     Ultima® Add On(Shape)	2192 1808 2193 13801 -	

#### Notes

- For add ons go to page 33.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = longest distance across shape.

Standard Shapes & Key Locations (Die View)									

## **Basix Wilson Style B Station**



Description		Cat. No.	Price
Punch & Guide Assembly	Round     Shape Fitted     Optima® Add On	2851 2853 -	
Punches	Round     Shape     Optima® Add On	1827 1839 -	
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	2859 2860 2861 2862	
Stripper	• Round • Shape Fitted	1890 1917	
Dies	Round Slug Hugger®† Round Standard Shape Slug Hugger®†	2194 2021 2195	

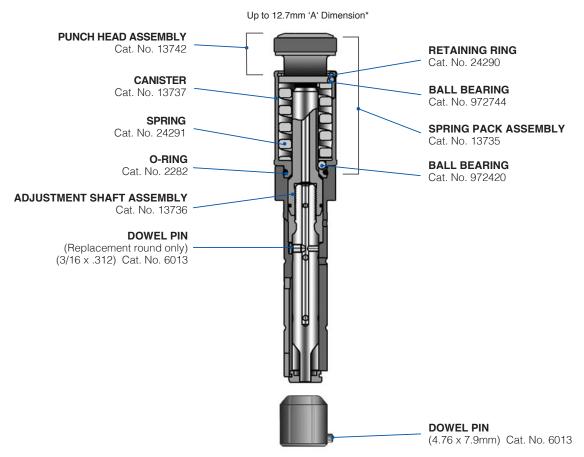
Shape Standard

Ultima® Add On(Round)
Ultima® Add On(Shape)

# Standard Shapes & Key Locations (Die View) Standard Shapes & Key Locations (Die View) Standard Shapes & Key Locations (Die View) Standard Shapes & Key Locations (Die View)

WILSON

13804



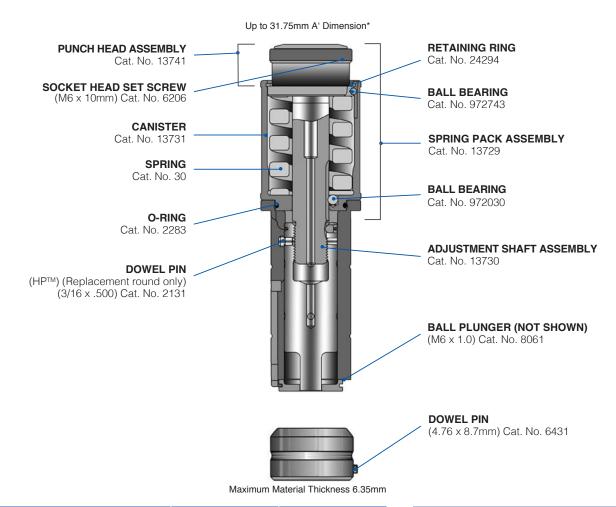
Maximum	Material	Thickness	3.81mm

		H	<b>p</b> 2	HP <sup>2</sup>	ABS
Description		Cat. No.	Price	Cat. No.	Price
Punch & Guide Assembly	Round     Shape Fitted     Optima® Add On     Ultima® Add On (Round)     Ultima® Add On (Shape)	13767 13769 - - -		13770 13772 - - -	
Punches	Round Shape Optima® Add On Ultima® Add On (Round) Ultima® Add On (Shape)	2405 2406 - - -		2385 2389 - - -	
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	2821 2822 2903 2904		2835 2836 2907 2908	
Stripper	<ul><li>Round</li><li>Shape Fitted</li></ul>	13044 13143		13045 13152	
Dies	Round Slug Hugger®†     Round Standard     Shape Slug Hugger®†     Shape Standard     Ultima® Add On (Round)     Ultima® Add On (Shape)	2192 1808 2193 13801 -		2192 1808 2193 13801 - -	

#### Notes

- Std. keying for square guides is 0° & 45°.
- For add ons go to page 33.
- Formerly known as HP2.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = Longest distance across shape.

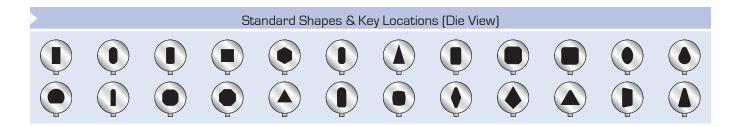
Standard Shapes & Key Locations (Die View)									



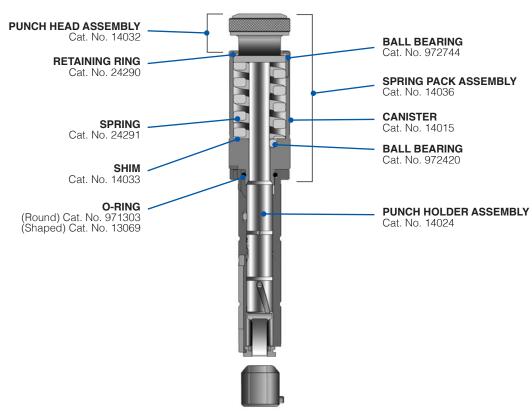
		HP	2TM	HP <sup>2</sup>	ABS
Description		Cat. No.	Price	Cat. No.	Price
Punch & Guide Assembly	<ul> <li>Round</li> <li>Shape Fitted</li> <li>Optima® Add On</li> <li>Ultima® Add On (Round)</li> <li>Ultima® Add On (Shape)</li> </ul>	13779 13781 - - -		13782 13784 - - -	
Punches	Round Shape Optima® Add On Ultima® Add On (Round) Ultima® Add On (Shape)	2407 2408 - - -		2398 2399 - - -	
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	2859 2860 2861 2862		2881 2882 2883 2884	
Stripper	<ul><li>Round</li><li>Shape Fitted</li></ul>	1890 1917		2433 2432	
Dies	Round Slug Hugger®†     Round Standard     Shape Slug Hugger®†     Shape Standard     Ultima® Add On (Round)     Ultima® Add On (Shape)	2194 2021 2195 13804 -		2194 2021 2195 13804 -	

#### Notes

- $\bullet$  Std. keying for square guides is 0° & 45°.
- For add ons go to page 33.
- Formerly known as HP2.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = Longest distance across shape.



Available May 2012



Maximum Material Thickness 3.81mm

Description		Cat. No.	Price
Punch & Guide Assembly <sup>1</sup>	Round     Shape Fitted     Optima® Add On	14026 14012	7 1100
Guide Assembly <sup>2</sup>		14027	
Punches	Round     Shape     Optima® Add On	13904 13905 -	
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	13073 13074 13075 13076	
Stripper	<ul><li>Round</li><li>Shape Fitted</li></ul>	13044 13143	
Dies	Round Slug Hugger®†     Round Standard     Shape Slug Hugger®†     Shape Standard     Ultima® Add On (Round)     Ultima® Add On (Shape)	2192 1808 2193 13801 -	

#### Notes

- Fully compatible with ABS and non-ABS machines
- For add ons go to page 33.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = longest distance across shape.
- 1. Includes guide assembly, punch and stripper
- 2. Guide assembly only. Punch and stripper to be bought separately.

#### Standard Shapes & Key Locations (Die View)













































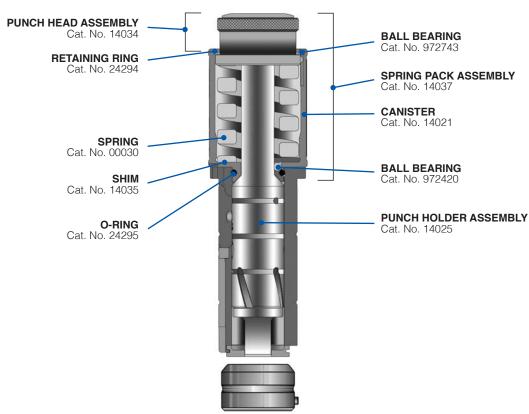








Available May 2012



Maximum	Material	Thickness	6.35mm

Description		Cat. No.	Price
Punch & Guide Assembly <sup>1</sup>	Round     Shape Fitted     Optima® Add On	14029 14018 -	
Guide Assembly <sup>2</sup>		14030	
Punches	<ul><li>Round</li><li>Shape</li><li>Optima® Add On</li></ul>	13916 13917 -	
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	13097 13098 13099 13100	
Stripper	<ul><li>Round</li><li>Shape Fitted</li></ul>	2433 2432	
Dies	Round Slug Hugger®†     Round Standard     Shape Slug Hugger®†     Shape Standard     Ultima® Add On (Round)     Ultima® Add On (Shape)	2194 2021 2195 13804 -	

#### Notes

- Fully compatible with ABS and non-ABS machines
- For add ons go to page 33.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = longest distance across shape.
- 1. Includes guide assembly, punch and stripper
- 2. Guide assembly only. Punch and stripper to be bought separately.

#### Standard Shapes & Key Locations (Die View)











































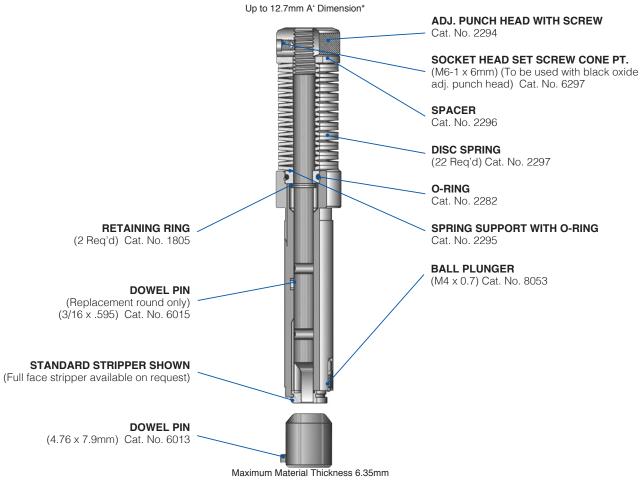




WILSON



## Wilson Heavy Duty A Station



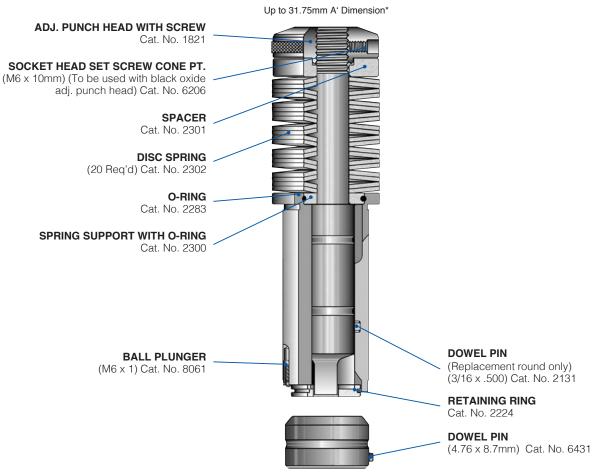
Description		Cat. No.	Price
Punch & Guide Assembly	Round     Shape Fitted     Optima® Add On	2292 2293 -	
Punches	Round     Shape     Optima® Add On	2303 2304 -	
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	2821 2822 2903 2904	
Stripper	• Round • Shape Fitted	13044 13143	
Dies	Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Standard Ultima® Add On(Round) Ultima® Add On(Shape)	2192 1808 2193 13801 - -	

Notes
• For add ons go to page 33.
† Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
* 'A' Dimension = longest distance across shape.

# Standard Shapes & Key Locations (Die View) Standard Shapes & Key Locations (Die View)

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## Wilson Heavy Duty B Station

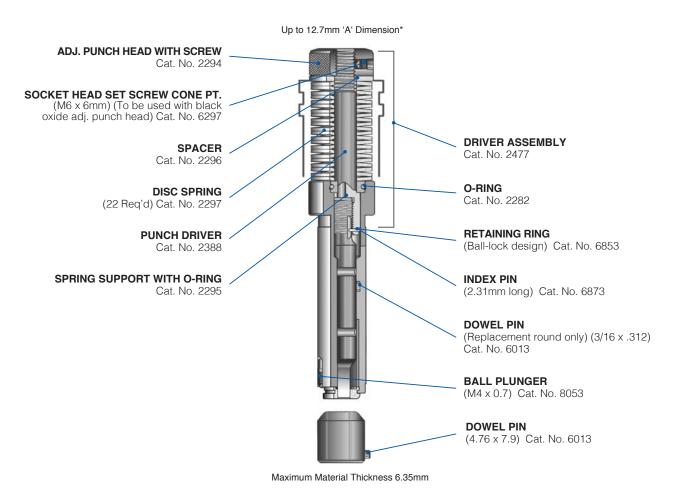


Description		Cat. No.	Price
Punch & Guide Assembly	Round     Shape Fitted     Optima® Add On	2298 2299 -	
Punches	Round     Shape     Optima® Add On	2305 2306 -	
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	2859 2860 2861 2862	
Stripper	• Round • Shape Fitted	1890 1917	
Dies	Round Slug Hugger®†     Round Standard     Shape Slug Hugger®†     Shape Standard     Ultima® Add On(Round)     Ultima® Add On(Shape)	2194 2021 2195 13804 -	

Notes
• For add ons go to page 33.
† Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
* 'A' Dimension = longest distance across shape.

# Standard Shapes & Key Locations (Die View)

## **HP Heavy Duty A Station**



	HE	MTC	HP™ ABS			
Description		Cat. No.	Price	Cat. No. Pric		
Punch & Guide Assembly	<ul> <li>Round</li> <li>Shape Fitted</li> <li>Optima® Add On</li> <li>Ultima® Add On (Round)</li> <li>Ultima® Add On (Shape)</li> </ul>	12857 13182 - - -		12861 13185 - - -		
Punches	<ul><li>Round</li><li>Shape</li></ul>	2405 2406		2385 2389		

Description				111 7130		
Description		Cat. No.	Price	Cat. No.	Price	
Punch & Guide Assembly	Round     Shape Fitted     Optima® Add On     Ultima® Add On (Round)     Ultima® Add On (Shape)	12857 13182 - - -		12861 13185 - - -		
Punches	Round Shape Optima® Add On Ultima® Add On (Round) Ultima® Add On (Shape)	2405 2406 - - -		2385 2389 - - -		
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	2821 2822 2903 2904		2835 2836 2907 2908		
Stripper	<ul><li>Round</li><li>Shape Fitted</li></ul>	13044 13143		13045 13152		
Dies	Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Standard Ultima® Add On (Round) Ultima® Add On (Shape)	2192 1808 2193 13801 -		2192 1808 2193 13801 -		

#### Notes

- Std. keying for square guides is 0° & 45°.
- For add ons go to page 33.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = Longest distance across shape.

#### Standard Shapes & Key Locations (Die View)











































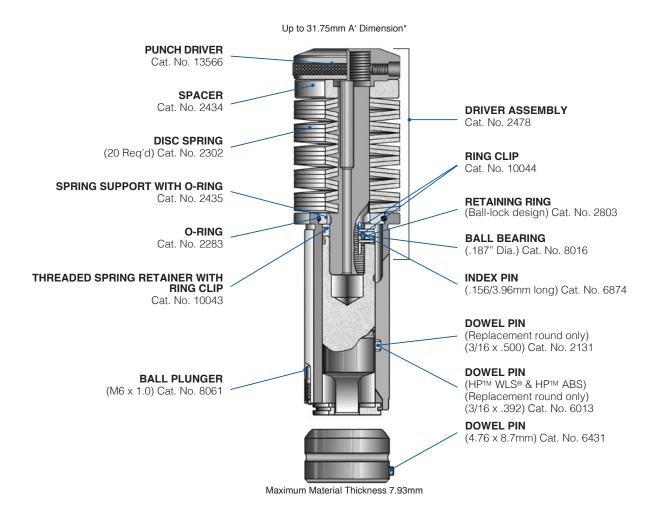












ъ		HF	MTC	HP™ ABS		
Description		Cat. No.	Price	Cat. No.	Price	
Punch & Guide Assembly	Round     Shape Fitted     Optima® Add On     Ultima® Add On (Round)     Ultima® Add On (Shape)	12873 13194 - - -		12877 13197 - - -		
Punches	<ul> <li>Round</li> <li>Shape</li> <li>Optima® Add On</li> <li>Ultima® Add On (Round)</li> <li>Ultima® Add On (Shape)</li> </ul>	2407 2408 - - -		2398 2399 - - -		
Guides	• Round • Shape (0°) • Shape (0° & 45°) • Shape (0° & 90°)	2859 2860 2861 2862		2881 2882 2883 2884		
Stripper	<ul><li>Round</li><li>Shape Fitted</li></ul>	1890 1917		2433 2432		
Dies	<ul> <li>Round Slug Hugger®†</li> <li>Round Standard</li> <li>Shape Slug Hugger®†</li> <li>Shape Standard</li> <li>Ultima® Add On (Round)</li> <li>Ultima® Add On (Shape)</li> </ul>	2194 2021 2195 13804 -		2194 2021 2195 13804 - -		

#### Notes

- Std. keying for square guides is 0° & 45°.
- For add ons go to page 33.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = Longest distance across shape.

Standard Shapes & Key Locations (Die View)										

#### STRIPPER RETAINED WITH WIRE LOCK RING OR STRIPPER CLIPS

Up to 50.8mm A' Dimension\* **O-RING RETAINING RING** Cat. No. 972430 Cat. No. 972441 **DRIVER ASSEMBLY DISC SPRING** Cat. No. 5729 (12 Req'd) Cat. No. 5744 **BALL BEARING SPRING COVER** Cat. No. 972420 Cat. No. 5693 **DRIVER LOCKING BUTTON WAVE SPRING** (NOT SHOWN) Cat. No. 971692 Cat. No. 10539 **RETAINING RING** WIRE SPRING (FOR DRIVER LOCKING **BUTTON NOT SHOWN)** Cat. No. 972570 Cat. No. 972396 PUNCH DRIVER SPECIAL SOCKET HEAD CAP SCREW (2 Req'd) Cat. No. 5197 Cat. No. 5736 **ADJUSTEMENT SHAFT ASSEMBLY LOCK WASHER** (2 Req'd) Cat. No. 2112 Cat. No. 5735 **SPRING SUPPORT ANTI LOCK SHIM** Cat. No. 5748 Cat. No. 5412 **SOCKET HEAD CAP SCREW DISC SPRING** (M3 X 12mm) Cat. No. 6326 (2 Req'd) Cat. No. 971690 **LOCKWASHER PUNCH HOLDER** Cat. No. 6327 Cat. No. 5510 **PUNCH HOLDER KEY URETHANE** Cat. No. 5373 (2 Req'd) (Pkg. of 50) Cat. No. 6116 SOCKET HEAD CAP SCREW (1/2 - 13 X 2 - 1/4) SOCKET SET SCREW (WITH NYLOCK) Cat. No. 6002 (2 Req'd) (M6 X 8mm) Cat. No. 6298 **WIRE LOCK RING** Cat. No. 5035 **GUIDE PACK OF 4 STRIPPER CLIPS AND** Cat. No. 5420 **SCREWS (NOT SHOWN) SPECIAL SCREW** Cat. No. 2810 Cat No 429

Maximum Material Thickness 6.35mm

Description		Cat. No.	Price
Guide Assembly	Standard (LVD) Standard WLS® Standard WLS® (LVD)	5586 35194 5595 35195	
Punches	Round Shape Optima® Add On Ultima® Add On (Round) Ultima® Add On (Shape)	5026 5025 - - -	
Strippers	• Round • Shape	1848 1854	
Dies	<ul> <li>Round Slug Hugger®†</li> <li>Round Standard</li> <li>Shape Slug Hugger®†</li> <li>Shape Standard</li> <li>Ultima® Add On(Round)</li> <li>Ultima® Add On(Shape)</li> </ul>	2196 1850 2197 13807 -	

#### Notes

- For add ons go to page 33.
- 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. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = longest distance across shape.

	Sta	andard Sh	apes & Ke	ey Location	ns (Die Vie	w)		

#### STRIPPER RETAINED WITH WIRE LOCK RING OR STRIPPER CLIPS

Up to 88.9mm A' Dimension\*

**RETAINING RING** 

Cat. No. 972441

**DISC SPRING** 

(7 Req'd) Cat. No. 5449

**SPRING COVER** 

Cat. No. 5423

**WAVE SPRING** Cat. No. 971692

**RETAINING RING** 

Cat. No. 5747 SPECIAL SOCKET HEAD SCREW CAP

(2 Req'd) Cat. No. 5197

LOCK WASHER

(2 Req'd) Cat. No. 2112

**ANTI LOCK SHIM** Cat. No. 5413

**DISC SPRING** 

(2 Req'd) Cat. No. 971690

**PUNCH HOLDER** Cat. No. 5525

Cat. No. 6116

**URETHANE** (2 Req'd) (Pkg. of 50)

SOCKET SET SCREW (WITH NYLOCK)

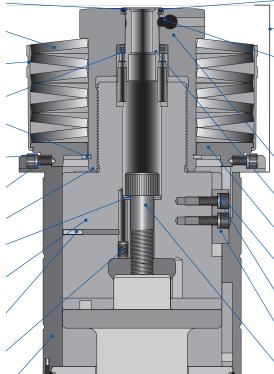
(2 Req'd) (M6 X 8mm)

Cat. No. 6298 GUIDE

Cat. No. 5430

SPECIAL SCREW

Cat. No. 429



Maximum Material Thickness 6.35mm

#### **O-RING**

Cat. No. 972430

**DRIVER ASSEMBLY** 

Cat. No. 5730

**BALL BEARING** 

Cat. No. 972420

**DRIVER LOCKING BUTTON** 

(NOT SHOWN)

Cat. No. 5737

WIRE SPRING (FOR DRIVER LOCKING

**BUTTON NOT SHOWN)** 

Cat. No. 972396

**PUNCH DRIVER** 

Cat. No. 5740

**ADJUSTMENT SHAFT ASSEMBLY** 

Cat. No. 5739

**SPRING SUPPORT** 

Cat. No. 5738

SOCKET HEAD CAP SCREW

(2 Req'd) (M5 X 12mm)

Cat. No. 6110

**LOCKWASHER** 

(2 Req'd) Cat. No. 2112

**PUNCH HOLDER KEY** 

Cat. No. 1862

**SOCKET HEAD CAP SCREW** 

(1/2 - 13 X 2 - 1/2) Cat. No. 6566

**WIRE LOCK RING** 

Cat. No. 5036

**PACK OF 4 STRIPPER CLIPS AND SCREWS (NOT SHOWN)** 

Cat. No. 2810

Description		Cat. No.	Price
Guide Assembly	Standard     Standard (LVD)     Standard WLS®     Standard WLS® (LVD)	5587 35201 5596 35202	
Punches	Round Shape Optima® Add On Ultima® Add On (Round) Ultima® Add On (Shape)	5028 5027 - - -	
Strippers	• Round • Shape	1864 1869	
Dies	Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Standard Ultima® Add On(Round) Ultima® Add On(Shape)	2198 1865 2199 13810 -	

#### Notes

- For add ons go to page 33.
- 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.
- 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. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = longest distance across shape.

#### Standard Shapes & Key Locations (Die View)

































UK

Ireland



Tel (Free): 0800 373 748

Tel (Free): 1-800 709 009

Fax (Free): 0800 373 758 Fax (Free): 1-800 535 538 email: sales@wilsontool.eu.com



#### STRIPPER RETAINED WITH WIRE LOCK RING OR STRIPPER CLIPS

Up to 114.3mm A' Dimension\*

#### **RETAINING RING**

Cat. No. 972441

#### **DISC SPRING**

(7 Req'd) Cat. No. 5449

#### **SPRING COVER**

Cat. No. 5423

#### **WAVE SPRING**

Cat. No. 971692

#### **RETAINING RING**

Cat. No. 5747

#### SPECIAL SOCKET HEAD CAP SCREW (4 Req'd) Cat. No. 5210

LIFTER BUTTON

(4 Req'd) Cat. No. 5209

#### ANTI LOCK SHIM Cat. No. 5413

**PUNCH HOLDER** 

#### Cat. No. 5535

**URETHANE** 

(2 Req'd) (Pkg.of 50) Cat. No. 6116

#### DISC SPRING

(2 Req'd) Cat. No. 971690

#### SOCKET SET SCREW (WITH NYLOCK)

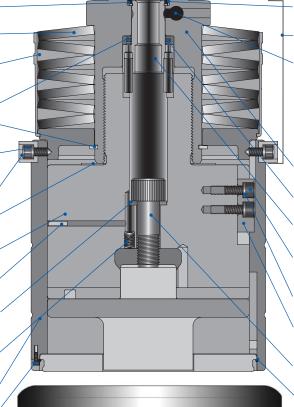
(2 Req'd) (M6 X 8mm) Cat. No. 6298

GUIDE

Cat. No. 5438

SPECIAL SCREW

Cat. No. 429



Maximum Material Thickness 6.35mm

#### O-RING

Cat. No. 972430

#### **DRIVER ASSEMBLY**

Cat. No. 5731

#### **BALL BEARING**

Cat. No. 972420

#### **DRIVER LOCKING BUTTON**

(NOT SHOWN)

Cat. No. 5737

#### WIRE SPRING (DRIVER LOCKING **BUTTON NOT SHOWN)**

Cat. No. 972396

#### **PUNCH DRIVER**

Cat. No. 5742

#### **ADJUSTMENT SHAFT ASSEMBLY**

Cat. No. 5739

#### **SPRING SUPPORT**

Cat. No. 5741

#### SOCKET HEAD CAP SCREW

(2 Reg'd) (M5 X 12mm)

#### Cat. No. 6110

**LOCKWASHER** (2 Req'd) Cat. No. 2112

#### **PUNCH HOLDER KEY**

Cat. No. 1862

#### **SOCKET HEAD CAP SCREW**

(1/2 - 13 X 2) Cat. No. 6325

#### WIRE LOCK RING

Cat. No. 5037

#### **PACK OF 4 STRIPPER CLIPS AND SCREWS (NOT SHOWN)**

Cat. No. 2810

Description		Cat. No.	Price
Guide Assembly	Standard Standard (LVD) Standard WLS® Standard WLS® (LVD)	5588 35205 5597 35207	
Punches	Round Shape Optima® Add On Ultima® Add On (Round) Ultima® Add On (Shape)	5030 5029 - - -	
Strippers	• Round • Shape	1877 1882	
Dies	Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Standard Ultima® Add On(Round) Ultima® Add On(Shape)	2200 1878 2201 13817 - -	

#### Notes

- For add ons go to page 33.
- 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.
- 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. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = Longest distance across shape.

#### Standard Shapes & Key Locations (Die View)

























































Ireland

Tel (Free): 0800 373 748 Tel (Free): 1-800 709 009

Fax (Free): 0800 373 758 Fax (Free): 1-800 535 538 sales@wilsontool.eu.com

#### WITH PUSH BUTTON STRIPPER RETENTION Up to 50.80mm A' Dimension\*

**O-RING** 

(1-1/8 X 3/32) Cat. No. 972430

ADJUSTMENT LOCKING BALL

Cat. No. 972420

**ADJUSTMENT PUSH BUTTON** 

Cat. No. 10539

**ADJUSTMENT SHAFT** 

Cat. No. 5735 **DRIVER** 

Cat. No. 5736

SPRING COVER

Cat. No. 5517

**ANTI-LOCK SHIM** Cat. No. 5412

**DISC SPRING** 

(2 Req'd) Cat. No. 971690

**PUNCH HOLDER** 

Cat. No. 5510

**URETHANE** 

(2 Req'd) (3/32 Sq. x 27/64) (Pkg. of 50) Cat. No. 6116

**SET SCREW** 

(2 Req'd) Cat. No. 6298

**GUIDE UNIT ASSEMBLY** 

(HPTM & HPTM WLS®) Cat. No. 5544

(HP™ ABS) Cat. No. 5509

**GUIDE UNIT ONLY** (HPTM & HPTM WLS®) Cat. No. 5574

(HP™ ABS) Cat. No. 5518

**SPRING** 

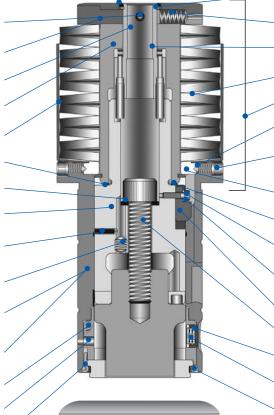
(5 Req'd) (.148 x 1) Cat. No. 971694

SPECIAL PIN

(2 Reg'd) Cat. No. 5522

STRIPPER CLIP

(3 Req'd) Cat. No. 5521



Maximum Material Thickness 6.35mm

#### **RETAINING RING**

Cat. No. 972441

#### **SPRING**

Cat. No. 972396

#### **WAVE SPRING**

Cat. No. 971692

**DISC SPRING** 

(12 Req'd) Cat. No. 5744

#### **DRIVER ASSEMBLY**

Cat. No. 5724

**LOCK WASHER** 

(2 Req'd) Cat. No. 2112

#### SOCKET HEAD CAP SCREW

(2 Req'd) (spl M5 x.8 Cone Pt.)

Cat. No. 5197

**SPRING SUPPORT** 

Cat. No. 5008

**RETAINING RING** 

Cat. No. 5746

**SOCKET HEAD CAP SCREW** 

(M3 x 12mm) Cat. No. 6326

**LOCK WASHER** 

Cat No 6327

**PUNCH HOLDER KEY** 

Cat. No. 5373

**SOCKET HEAD CAP SCREW** 

(1/2-13 x 2-1/2) Cat. No. 6002

**LOCKING BUTTON** 

(2 Req'd) Cat. No. 5519

**WAVE SPRING** 

(2 Req'd) Cat. No. 8155

**GUIDE STRIPPER RING** 

(HP™ & HP™ WLS®) Cat. No. 5545 (HP™ ABS) Cat. No. 5520

<b>.</b>		HF	MT(	HP™	1 ABS
Description		Cat. No.	Price	Cat. No.	Price
Guide Assembly		5552		5508	
Punches	• Round • Shape • Optima® Add On • Ultima® Add On (Round) • Ultima® Add On (Shape)	5026 5025 - -		5026 5025 - -	
Stripper	• Round • Shape Fitted	1848 1854		5150 5151	
Dies	<ul> <li>Round Slug Hugger®†</li> <li>Round Standard</li> <li>Shape Slug Hugger®†</li> <li>Shape Standard</li> <li>Ultima® Add On (Round)</li> <li>Ultima® Add On (Shape)</li> </ul>	2196 1850 2197 13807 -		2196 1850 2197 13807 -	

#### Notes

- HP™ guide assys. are keyed for shapes at 0°, 90°
- All punches will be shipped with no shear unless specified.
- Heavy Duty tooling is available for 2" (C) stations.
- For add ons go to page 33.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = Longest distance across shape.



#### WITH PUSH BUTTON STRIPPER RETENTION Up to 88.90mm A' Dimension'

**RETAINING RING** Cat. No. 972441

ADJUSTMENT LOCKING BALL Cat. No. 972420

**ADJUSTMENT PUSH BUTTON** 

Cat. No. 5737

**ADJUSTMENT SHAFT** Cat. No. 5739

> **ANTI-LOCK SHIM** Cat No. 5413

SOCKET HEAD CAP SCREW

(2 Req'd) (Spl M5 x.8 Cone Pt.) Cat. No. 5197

**LOCK WASHER** (2 Req'd) Cat. No. 2112

DISC SPRING (2 Reg'd) Cat. No. 971690

**PUNCH HOLDER** 

Cat. No. 5525

**URETHANE** (2 Req'd) (3/32 Sq. x 27/64) (Pkg. of 50) Cat. No. 6116

**SET SCREW** 

(2 Req'd) Cat. No. 6298

**GUIDE UNIT ASSEMBLY** 

(HP™ & HP™ WLS®) Cat. No. 5547 (HP™ ABS) Cat. No. 5524

**GUIDE UNIT ONLY** 

(HPTM & HPTM WLS®) Cat. No. 5575 (HP™ ABS) Cat. No. 5527

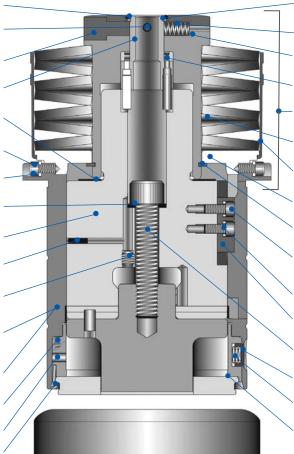
**SPRING** 

(6 Req'd) Cat. No. 971694 **SPECIAL PIN** 

(2 Req'd) Cat. No. 5522

STRIPPER CLIP

(3 Req'd) Cat. No. 5521



Maximum Material Thickness 6 35mm

#### **O-RING**

(1-1/8 X 3/32) Cat. No. 972430

**SPRING** 

Cat. No. 972396

**DRIVER** 

Cat. No. 5740

**WAVE SPRING** 

Cat. No. 971692

**DRIVER ASSEMBLY** 

Cat. No. 5725

**DISC SPRING** 

(7 Req'd) Cat. No. 5449

**SPRING COVER** 

Cat. No. 5561

**SPRING SUPPORT** 

Cat. No. 5738

**RETAINING RING** 

Cat. No. 5747

**SOCKET HEAD CAP SCREW** 

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

**LOCK WASHER** 

(2 Req'd) Cat. No. 2112

**PUNCH HOLDER KEY** 

Cat. No. 1862

SOCKET HEAD CAP SCREW

(1/2-13 x 2-1/2) Cat. No. 6566

**LOCKING BUTTON** 

(2 Req'd) Cat. No. 5519

**WAVE SPRING** 

(2 Req'd) Cat. No. 8155

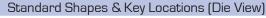
**GUIDE STRIPPER RING** 

(HPTM & HPTM WLS®) Cat. No. 5548 (HP™ ABS) Cat. No. 5528

		HI	ртм	HP™ ABS	
Description		Cat. No.	Price	Cat. No.	Price
Guide Assembly		5553		5523	
Punches	• Round • Shape • Optima® Add On • Ultima® Add On (Round) • Ultima® Add On (Shape)	5028 5027 - -		5028 5027 - -	
Stripper	• Round • Shape Fitted	1864 1869		5152 5153	
Dies	Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Standard Ultima® Add On (Round) Ultima® Add On (Shape)	2198 1865 2199 13810 - -		2198 1865 2199 13810 -	

#### Notes

- HP™ 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.
- All punches 6.35mm and under in width will be shipped with no shear unless specified.
- For add ons go to page 33.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = Longest distance across shape.























































Tel (Free): 0800 373 748 Tel (Free): 1-800 709 009

Fax (Free): 0800 373 758 Fax (Free): 1-800 535 538

#### WITH PUSH BUTTON STRIPPER RETENTION Up to 114.30mm A' Dimension\*

**RETAINING RING** 

Cat. No. 972441

ADJUSTMENT LOCKING BALL Cat. No. 972420

**ADJUSTMENT PUSH BUTTON** Cat. No. 5737

**ADJUSTMENT SHAFT** 

Cat. No. 5739

**ANTI-LOCK SHIM** 

Cat. No. 5413 **LIFTER PIN** 

(4 Reg'd) Cat. No. 5209

**SOCKET HEAD CAP SCREW** 

(4 Req'd) (Spl M5 x 13.39mm Cone Pt.) Cat. No. 5210 **DISC SPRING** 

Cat. No. 971690

**PUNCH HOLDER** 

Cat. No. 5535

**URETHANE** (2 Req'd) (3/32 Sq. x 27/64) (Pkg.of 50) Cat. No. 6116

> **SET SCREW** (2 Req'd) Cat. No. 6298

**GUIDE UNIT ASSEMBLY** 

(HP™ & HP™ WLS®) Cat. No. 5550 (HP™ ABS) Cat. No. 5534

**GUIDE UNIT ONLY** (HP™ & HP™ WLS®) Cat. No. 5576

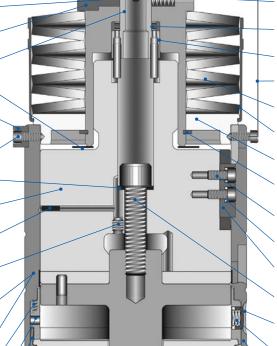
(HP™ ABS) Cat. No. 5537 SPRING

(6 Req'd) Cat. No. 971694

SPECIAL PIN (2 Req'd) Cat. No. 5522

STRIPPER CLIP

(3 Req'd) Cat. No. 5521



Maximum Material Thickness 6.35mm

#### **O-RING**

(7/8 X 3/32) Cat. No. 972430

**SPRING** 

Cat. No. 972396

**WAVE SPRING** 

Cat. No. 971692

**DRIVER** 

Cat. No. 5742

**DRIVER ASSEMBLY** 

Cat. No. 5726

**DISC SPRING** 

(7 Req'd) Cat. No. 5449

**SPRING COVER** 

Cat. No. 5561

**SPRING SUPPORT** 

Cat. No. 5741

**RETAINING RING** 

Cat. No. 5747

SOCKET HEAD CAP SCREW

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

**LOCK WASHER** 

(2 Req'd) (For M5) Cat. No. 2112

**PUNCH HOLDER KEY** 

Cat. No. 1862

SOCKET HEAD CAP SCREW

(1/2-13 x 2) Cat. No. 6325

**LOCKING BUTTON** 

(2 Req'd) Cat. No. 5519 **WAVE SPRING** 

(2 Req'd) Cat. No. 8155

**GUIDE STRIPPER RING** (HP™ & HP™ WLS®) Cat. No. 5551

(HP™ ABS) Cat. No. 5538

			HP™		HP™ ABS	
Description		Cat. No.	Price	Cat. No.	Price	
Guide Assembly		5554		5533		
Punches	• Round • Shape • Optima® Add On • Ultima® Add On (Round) • Ultima® Add On (Shape)	5030 5029 - - -		5030 5029 - - -		
Stripper	• Round • Shape Fitted	1877 1882		5154 5155		
Dies	Round Slug Hugger®† Round Standard Shape Slug Hugger®† Shape Standard Ultima® Add On (Round) Ultima® Add On (Shape)	2200 1878 2201 13817 -		2200 1878 2201 13817 -		

#### Notes

- HPTM 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.
- For add ons go to page 33.
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = Longest distance across shape.

#### Standard Shapes & Key Locations (Die View)

























































Fax (Free): 1-800 535 538

## Slitting, complex shapes, clusters and close to clamps – DuraDie is the perfect solution for all these jobs

#### Slitting Solution

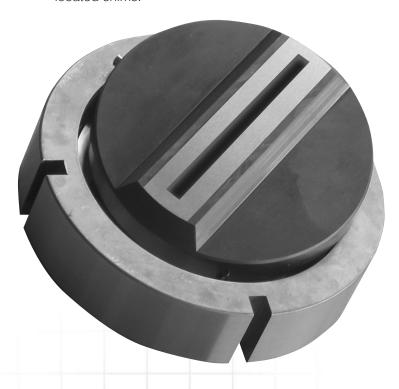
This is a special die holder assembly which provides you with the ideal slitting solution. The die inserts are fully supported by the die base and are hard wearing and economical to replace.

#### Problem Solving

The DuraDie assembly is also the perfect solution when you are punching complex two dimensional shapes and cluster patterns with small webs between holes. In fact the DuraDie system can help whenever die strength is an issue.

#### Shock Resistant

The aperture (which closely follows the profile in the die insert), is cut into the shock resistant die holder which fully supports the special die blade and the specially located shims.





#### Durable

With a die insert made using Ultima®, a special powdered tool steel, you will get more hits between regrinds and reduced downtime.

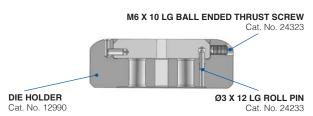
#### Practical & Economical

The complete assembly consists of a special die insert, a shim pack and a specially reinforced die holder. You can order duplicate die inserts for different materials and if you need to replace a worn die all you need is a new insert.





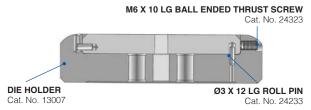
#### 50.8mm (C) Station Slitting



Description	Cat. No.	Price
Die Base Assembly (not including die blade)	12989	
Die Blade (Slughugger)	12992	
Shim Pack	12995	
Knockout Tool	24310	

Maximum length \* =51mm Maximum width \* = 7mm \*Subject to certain restrictions

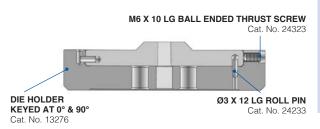
#### 88.9mm (D) Station Slitting



Description	Cat. No.	Price
Die Base Assembly (not including die blade)	13006	
Die Blade (Slughugger)	13009	
Shim Pack	13012	
Knockout Tool	24310	

Maximum length \* = 86mm Maximum width \* = 7mm \*Subject to certain restrictions

#### 88.9mm (D) Station Close to Clamps



Description	Cat. No.	Price
Die Base Assembly 0&90° (not including die blade)	13276	
Die Blade – relieved on 1 side (Slughugger)	13280	
Die Blade – relieved on 2 sides (Slughugger)	13282	
Shim Pack	13012	
Knockout Tool	24310	

Maximum length \* = 81mm Maximum width \* = 7mm \*Subject to certain restrictions

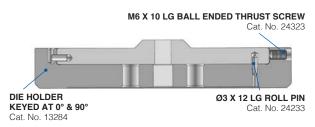
#### 114.3mm (E) Station Slitting



Cat. No.	Price
13015	
13014	
13017	
24313	
	13015 13014 13017

Maximum length \* = 111mm Maximum width \* = 11mm \*Subject to certain restrictions

#### 114.3mm (E) Station Close to Clamps



Description	Cat. No.	Price
Die Base Assembly 0&90° (not including die blade)	13284	
Die Blade – relieved on 1 side (Slughugger)	13288	
Die Blade – relieved on 2 sides (Slughugger)	13290	
Shim Pack	13017	
Knockout Tool	24313	

Maximum length \* = 111mm Maximum width \* = 11mm \*Subject to certain restrictions

## Fast efficient slitting... even close to the clamps

#### Reduced Costs

The replaceable punch blade is made of Ultima®, a special powdered metallurgy high speed steel that gives you more hits between regrinds and helps to reduce down time.

#### Practical

With its patented HP push button length adjustment and stripper release, the new DuraBlade assembly is quick and easy to use.

#### Increased Profits

DuraBlade is designed for improved close to clamps operation. This means that more of the sheet is available to you and less material is wasted.







guided right to the surface of the material resulting in much cleaner results for your slitting/parting tasks and reduced wear and tear on the punch and die.

The DuraBlade assembly is available for the D & E stations of most Thick Turret machines in standard, ABS and WLS configurations.





#### **HP DuraBlade D Station**

**RETAINING RING** 

Cat. No. 972441

ADJUSTMENT LOCKING BALL

Cat. No. 972420

**ADJUSTMENT PUSH BUTTON** 

Cat. No. 5737

**ADJUSTMENT SHAFT** 

Cat. No. 5739 **DRIVER** 

Cat. No. 5740

**ANTI-LOCK SHIM** Cat. No. 5413

**SOCKET HEAD CAP SCREW** 

(2 Req'd) (Spl M5 x.8 Cone Pt.) Cat. No. 5197

> **LOCK WASHER** (2 Req'd) Cat. No. 2112

SOCKET HEAD CAP SCREW

(M12 x 55mm) Cat. No. 6026

**DISC SPRING** 

(2 Req'd) Cat. No. 971690

**BUSHING** Cat. No. 5631

**GUIDE UNIT ASSEMBLY** 

(HPTM & HPTM WLS®) Cat. No. 5661 (HP™ ABS) Cat. No. 5654

**GUIDE UNIT ONLY** 

(HP<sup>TM</sup> & HP<sup>TM</sup> WLS®) Cat. No. 5662 (HP<sup>TM</sup> ABS) Cat. No. 5659

**SPRING** 

(6 Req'd) Cat. No. 971694

SPECIAL PIN

(2 Req'd) Cat. No. 5522

**SPECIAL CLIP** 

(3 Req'd) Cat. No. 5521

**PUNCH HOLDER** Cat. No. 5655

50.83 - 88.90mm A' Dimension\*

Maximum Material Thickness 6.35mm

#### **O-RING**

(7/8 X 3/32) Cat. No. 972430

SPRING

Cat. No. 972396

**WAVE SPRING** 

Cat. No. 971692

**DISC SPRING** (7 Reg'd) Cat. No. 5449

**DRIVER ASSEMBLY** 

Cat. No. 5680

**SPRING COVER** 

Cat No. 5679

**SPRING SUPPORT** 

Cat. No. 5738

**RETAINING RING** 

Cat. No. 5747

SOCKET HEAD CAP SCREW

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

**LOCK WASHER** 

(2 Req'd) (For M5) Cat. No. 2112

**PUNCH HOLDER KEY** 

Cat. No. 1862

URETHANE

(2 Req'd) (3/32 Sq. x 24/64) (Pkg. of 50)

Cat. No. 6116

**LOCKING BUTTON** 

(2 Reg'd) Cat. No. 5519

**WAVE SPRING** 

(2 Req'd) Cat. No. 8155

**GUIDE STRIPPER RING** 

(HPTM & HPTM WLS®) Cat. No. 5548 (HP™ ABS) Cat. No. 5528

**SET SCREW** 

(2 Req'd) (M6 x 8mm Lg. SSS w/Nylok)

Cat. No. 6298

	<b>N.</b> 2000 1000 1000 1000 1000 1000 1000 100			HP™		HP™ ABS	
Description			Cat. No.	Price	Cat. No.	Price	
	Guide Assembly		5663		5653		
	Punches	Blade     Optima® Add On	5657 -		5657 -		
	Stripper	Thick Clamps	5656		5664		
	Dies	For Dies go to page 29.					

#### Notes

- HP™ DuraBlade™ guide assemblies are keyed for shapes at 0°, 90° & 135°.
- One-sided relief stripper plates and dies available upon request. Contact sales desk for price and availability.
- Single 90° die key option available upon request. Contact sales desk for price and availability.
- Maximum width for blade insert is 19.05mm
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = longest distance across shape.
- For add ons go to page 33.



#### **HP DuraBlade E Station**

RETAINING RING

Cat. No. 972441

ADJUSTMENT LOCKING BALL

Cat. No. 972420

ADJUSTMENT PUSH BUTTON

Cat. No. 5737

**ADJUSTMENT SHAFT** 

Cat. No. 5739

SPRING COVER

Cat. No. 5679

**LIFTER PIN** 

(4 Req'd) Cat. No. 5209

SOCKET HEAD CAP SCREW (2 Reg'd) (Spl M5 x 13.39mm Cone Pt.)

Cat. No. 5210

ANTI-LOCK SHIM

Cat. No. 5413

SOCKET HEAD CAP SCREW (M12 x 55mm) Cat. No. 6026

DISK SPRING

(2 Req'd) Cat. No. 971690

BUSHING

Cat. No. 5631

**GUIDE UNIT ASSEMBLY** 

(HP™ & HP™ WLS®) Cat. No. 5637 (HP™ ABS) Cat. No. 5627

GUIDE UNIT ONLY

(HPTM & HPTM WLS®) Cat. No. 5638 (HPTM ABS) Cat. No. 5632

SPRING

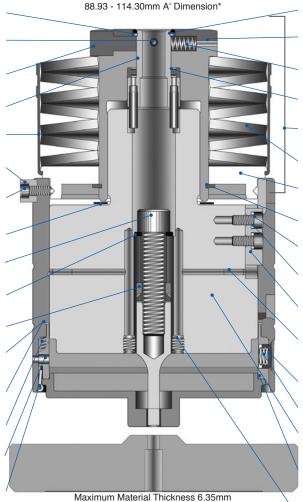
(2 Reg'd) Cat. No. 971694

SPECIAL PIN

(2 Req'd) Cat. No. 5522

STRIPPER CLIP

(3 Reg'd) Cat. No. 5521



**O-RING** 

(7/8 X 3/32) Cat. No. 972430

DRIVER

Cat. No. 5742

**SPRING** 

Cat. No. 972396

**WAVE SPRING** 

Cat. No. 971692

DRIVER ASSEMBLY

(7 Req'd) Cat. No. 5728

**DISC SPRING** 

(7 Req'd) Cat. No. 5449

**SPRING SUPPORT** 

Cat. No. 5741

**RETAINING RING** 

Cat. No. 5747

**SOCKET HEAD CAP SCREW** 

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

**LOCK WASHER** 

(2 Req'd) Cat. No. 2112

**PUNCH HOLDER KEY** 

Cat. No. 1862

**URETHANE** 

(2 Req'd) (3/32 Sq. x 27/64) (Pkg. of 50)

Cat. No. 6116

**LOCKING BUTTON** 

(2 Req'd) Cat. No. 5519

**WAVE SPRING** 

(2 Req'd) Cat. No. 8155

**PUNCH HOLDER** 

Cat. No. 5628

**GUIDE STRIPPER RING** 

(HPTM & HPTM WLS®) Cat. No. 5551

(HP™ ABS) Cat. No. 5538

SET SCREW

(2 Req'd) (M6 x 8mm Lg. SSS w/Nylok)

Cat. No. 6298

			НР™		HP™ ABS	
Description		Cat. No.	Price	Cat. No.	Price	
Guide Assembly		5639		5626		
Punches	Blade     Optima® Add On	5630 -		5630 -		
Stripper	Thick Clamps	5629		5640		
Dies	For Dies go to page 29.					

#### Notes

- HP™ DuraBlade™ guide assemblies are keyed for shapes at 0° & 90°.
- One-sided relief stripper plates and dies available upon request. Contact sales desk for price and availability.
- Single 90° die key option available upon request. Contact sales desk for price and availability.
- Maximum width for blade insert is 19.05mm
- † Slug Hugger® dies must be ordered punch size plus clearance. Size restrictions apply. Slug Hugger 2 available on request. Contact Sales Desk for further information.
- \* 'A' Dimension = longest distance across shape.
- For add ons go to page 33.

UK Ireland

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88.9mm	ſΩ	Ctation	fon	nunching	alaca ta	alamae
00.911111	וטו	i Station	IOI.	bunchina	ciose u	) Clambs

Ob. Striff (D) Station for particiling close to clamps					
Description		Cat. No.	Price		
Guide Assembly	• Thin Clamps • Thick Clamps	5179 5180			
Punches	Thin Clamps Thick Clamps Optima® Ultima® Add On	5027 5114 - -			
Guide	(Guide Unit Assembly)     Thin Clamps     Thick Clamps	5112 5116			
Stripper	• Thin Clamps • Thick Clamps	5100 5115			
Dies	• Slug Hugger®† (relief 2 sides, shp at 90°) • Slug Hugger®† (relief 2 sides, shp at 0°-90°) • Slug Hugger®† (relief 1 side, shp at 90°) • Slug Hugger®† (relief 1 side, shp at 0°-90°)	5157 5330 2464 5333			
	<ul> <li>Standard (relief 2 sides, shp at 90°)</li> <li>Standard (relief 2 sides, shp at 0°-90°)</li> <li>Standard (relief 1 side, shp at 90°)</li> <li>Standard (relief 1 side, shp at 0°-90°)</li> </ul>	13814 13813 13812 13811			

114.3mm	ſΕΊ	Station	for	nunching	close to	clamns
1 14.011111		Judili	101	Dullellill	CIUSE W	Cidiling

1 14.3mm (E) Station for punching close to clamps					
Description		Cat. No.	Price		
Guide Assembly	• Thin Clamps • Thick Clamps	5177 5178			
Punches	Thin Clamps Thick Clamps Optima® Ultima® Add On	5029 5109 - -			
Guide	(Guide Unit Assembly)     Thin Clamps     Thick Clamps	5107 5111			
Stripper	• Thin Clamps • Thick Clamps	5094 5110			
Dies	Slug Hugger®† (relief 2 sides, shp at 90°)  Slug Hugger®† (relief 2 sides, shp at 0°-90°)  Slug Hugger®† (relief 1 side, shp at 90°)  Slug Hugger®† (relief 1 side, shp at 0°-90°)  Positive (relief 2 sides, shp at 90°)  Positive (relief 2 sides, shp at 0°-90°)  Positive (relief 1 side, shp at 0°-90°)  Positive (relief 1 side, shp at 90°)  Positive (relief 1 side, shp at 90°)	5159 5340 2467 5343 13821 13820 13819			

#### Notes

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.

WILSON

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<sup>\* &#</sup>x27;A' Dimension = longest distance across shape.

## Die Shims and Slug Ejectors

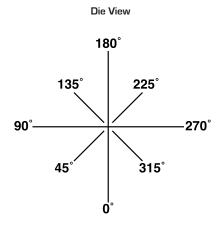
Die Shims						
Station	Quantity	Cat. No.	Price			
0.25mm Thick – Individually						
12.7mm (A)	1	2101				
31.75mm (B)	1	2097				
50.8mm (C)	1	2089				
88.9mm (D)	1	2081				
114.3mm (E)	1	2073				
0.2	25mm Thick – I	Package				
12.7mm (A)	25	2208				
31.75mm (B)	25	2209				
50.8mm (C)	10	2210				
88.9mm (D)	5	2211				
114.3mm (E)	5	2212				
	5mm Thick – Ir	idividually				
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				
	5mm Thick – F	Package				
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				
	imm Thick - In	dividually				
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				
	5mm Thick - F					
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				

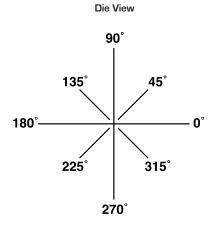
Punch Shims						
Station	Quantity	Cat. No.	Price			
Individually						
12.7mm (A)	1	1898				
31.75mm (B)	1	1899				
Package						
12.7mm (A)	25	2167				
31.75mm (B)	25	2168				

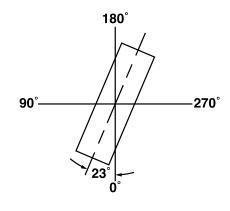
Slug Ejectors					
	Square Ureth	nane			
Hole Diameter in Punch	Quantity	Cat. No.	Price		
3.2mm	50	6116			
4.8mm	50	6117			
9.5mm	50	6118			
12.7mm	50	6119			
Assortment	50	6410			



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Front of Machine

Wilson Tool's keying diagram.

Front of Machine

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

Shape 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 $45^{\circ}$ increments

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

	Pu	nches	Ī	Guides or Strippers	
Station	Available Options	Add On Price	Available Options	Add On Price	Guides of Surppers
12.7mm (A)	Not available	Not available	Not available	Not available	per key
31.75mm (B)	0° & 45°		0° & 45°		per key
31.73mm (b)	0° & 180°		0° & 180°		per key
50.8mm (C)	45° Increments	per pin	45° Increments	per key	Not applicable
88.9mm (D)	45° Increments	per pin	45° Increments	per key	Not applicable
114.3mm (E)	45° Increments	per pin	45° Increments	per key	Not applicable

UK

Ireland

## **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*	Single Concave		Double Concave	
		1.6mm Shear	3.2mm Shear	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 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			

<sup>%</sup> 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).



Ireland

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<sup>•1.6</sup>mm 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.

	A 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 Clearance < 0.10mm	Punch	Die	<b>Stripper</b> N/C		
Add	Add to round or shape punch for extra straight before radius, extra back taper, or no back taper					

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	<b>Die</b> N/C	Stripper N/C N/C		
d to round or shape punch for extra straight before radius, extra back taper, or no back taper.					

Stubby Style (A) Station						
Note: Must use stubby style die	Punch		Die			
and stripper	Round add (2.3mm max dia.) Shape add		Round add Shape add			

C Station Add Ons				
Add ons fo	or Rounds			
Small Diameter < 25.4mm Clearance < 0.10mm	Punch	<b>Die</b> N/C	Stripper N/C N/C	
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	<b>Punch</b> N/C	Die 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, extra back taper, or no back taper.				

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

E Station Add Ons					
Add ons for Rounds					
Small Diameter < 86.36mm 86.37 - 88.87mm Clearance < 0.10mm	Punch	<b>Die</b> 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	<b>Punch</b> N/C	Die 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, extra back taper, or no back taper.					



### Wilson Xtra Accessories Range

## Wilson Xtra Catalogue

As the acknowledged world leader in Punch Press and Press Brake Tooling, we are supplying systems to many new users worldwide who have realised that 'tooling makes the machine', wishing to take advantage of our numerous cost saving innovations as well as superior quality tooling.

In addition to being the solution to your tooling requirements, we are now proud to present our new Wilson Xtra Catalogue; a wide and rapidly-expanding range of products specifically tailored to enable you to source the right tool for the job or the right accessory for your machine. From storage units and cabinets to lubricants, machine clamps to circlip pliers, all this is available with just a phone call to our Sales Desk, a quick fax or a visit to our website at www.wilsontool.co.uk







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## Notes



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Email: info@exactapunch.com

Exacta FabTool - Ontario Tel: 905-840-2240 | Fax: 905-840-1032

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