



SALVAGNINI TOOLING SOLUTIONS

Standards, Specials and Accessories



THE WILSON TOOL DIFFERENCE



COMPANY OVERVIEW

From humble beginnings in a small manufacturing facility in St. Paul, Minnesota, Wilson Tool International has added innovation, tooling divisions, manufacturing facilities and sales channels around the world to better serve thousands of global customers. Throughout our expansion, our mission has never wavered — we continue to offer products and services that help you, our customers, to be more successful.

Innovation is key at Wilson Tool International. It's true what they say: no two jobs are the same. In manufacturing, change is the only constant. So working with a press brake tooling supplier that's flexible, nimble and knowledgeable is important.

Wilson Tool International continues to invest in your success. We now have more than 50 sales engineers in North America available to answer questions and suggest innovative solutions to save you time and money.

And be assured, with every order, you'll always get our quality guarantee: *Your success is our priority. If you're ever unsatisfied with a Wilson Tool International product, we'll do everything we can to make it right and keep you up and running.*

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

Sincerely,
Brian Robinson
CEO of Wilson Tool Enterprises



A close-up photograph of several metal strips, likely made of steel, stacked on top of each other. Each strip has a circular hole punched through it. The metal shows signs of wear, including rust and blue paint residue. The word 'Contents' is overlaid in large white text on the bottom left of the image.

Contents

SALVAGNINI-STYLE

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Prices and product availability are subject to change without notice.

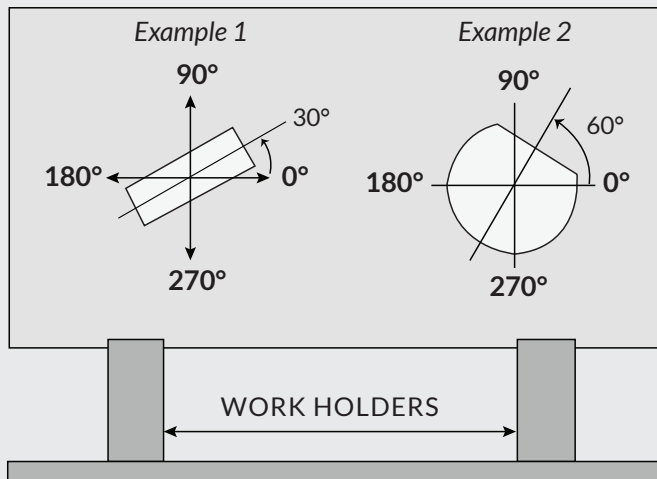
TOOLING OVERVIEW

| HEAD POSITION | TOOL TYPE | STATION | SIZE RANGE | NOTES |
|--------------------------------|-----------|-----------|---------------------------|--------------|
| 1 - 20 and 41 - 76 [7 Tons] | WPA | 33mm | .031 - .236 [.79 - 6mm] | Round Only |
| | WP0 | 33mm | .031 - .394 [.79 - 10mm] | Fully Guided |
| | WPB | 33mm | .237 - .413 [6 - 10.5mm] | Round Only |
| | WP9 | 33mm | Up to 1.023 [26mm] | Fully Guided |
| | WS4 | 33mm | Up to 1.300 [33mm] | |
| 30 - 35 [12 Tons] | WP5 | 60mm | Up to 1.669 [42.4mm] | Rotational |
| | WS6 | 60mm | Up to 2.362 [60mm] | Rotational |
| 21 - 24 [26 Tons] | WS8 | 70 x 90mm | 2.755 x 3.543 [70 x 90mm] | Type 70 |
| | WS9 | 70 x 90mm | 2.755 x 3.543 [70 x 90mm] | Type 90 |
| | WSA | 90 x 90mm | 3.543 x 3.543 [90 x 90mm] | Type 90 |

Wilson Tool types are compatible with Salvagnini S4, S6, S8, S9, SA, P0, P9, P5 and Mate tool types PA and PB
























TOOLING ORIENTATION

FRONT OF PRESS



Note: Please refer to non-standard key locations by the following method:

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

| | STANDARD SHAPE | | | | | DIE VIEW | | | | |
|------|---|---|---|---|---|---|---|---|---|---|
| 0° |  |  |  |  |  |  |  |  |  |  |
| 90° | | |  | |  |  |  |  |  |  |
| 180° | | | | | | | |  |  |  |
| 270° | | | | | | | |  |  |  |

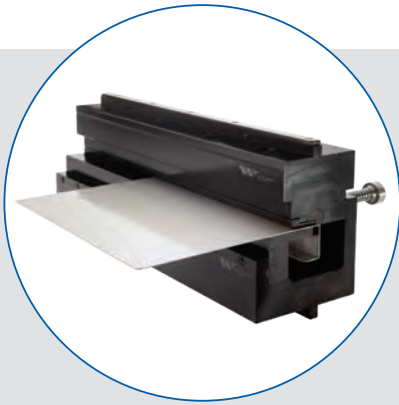
PUNCHING

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

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



TRUMPF is a trademark of TRUMPF GmbH + Co. KG.



BENDING

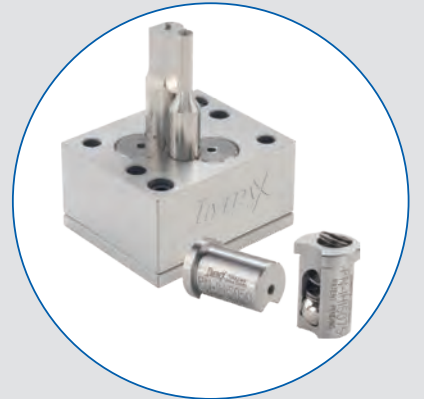
Wilson Tool's Bending division delivers the most complete line of tooling and clamping solutions available anywhere. Period.

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

STAMPING

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

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



TABLETING

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

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



ACCESSORIES

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



EXP® TECHNOLOGY

Time-tested.

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

Longer-lasting Punches.

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

Faster Tool Changes.

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

Storage Savings.

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

Universal Design.

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



EXP® punches shown



NOTES

Grind Life for EXP®:

Punches can be resharpened .157" [4mm]

Dies can be resharpened .060" [1.5mm]

H3 HEAD

| | 30 | 31 | 32 | 33 | 34 | 35 |
|---------------|----|----|----|----|----|----|
| 24 90 x 90 | 76 | 68 | 60 | 56 | 52 | 48 |
| | 75 | 67 | 59 | 55 | 51 | 47 |
| 23 70 x 90 | 74 | 66 | 58 | 54 | 50 | 46 |
| | 73 | 65 | 57 | 53 | 49 | 45 |
| 22 70 x 90 | 72 | 64 | 20 | 16 | 12 | 8 |
| | 71 | 63 | 19 | 15 | 11 | 7 |
| 21 90 x 90 | 70 | 62 | 18 | 14 | 10 | 6 |
| | 69 | 61 | 17 | 13 | 9 | 5 |

HEAD POSITIONS

1-20, 41-76 7 TON

| DESCRIPTION | CAT. NO. | PRICE |
|-----------------------------|----------|-------|
| Punch Holder | 17712 | |
| Punch - Round | 17916 | |
| Punch - Shape | 17917 | |
| Optima® Add-On | | |
| Stripper Round [†] | 17502 | |
| Stripper - Shape | 17503 | |
| Die - Round | 17504 | |
| Die - Round Slug Hugger®* | 17604 | |
| Die - Shape | 17505 | |
| Die - Shape Slug Hugger®* | 17605 | |
| Die Shim Pack | 17602 | |

[†]Round strippers available up to 1.378" (35mm) diameter.
 * Slug Hugger dies must be ordered punch size plus clearance.
 Size restrictions apply.



WPA



WPB



WS4

| DESCRIPTION | WPA .031 - .236" [.79 - 6mm] | PRICE | WPB .237 - .413" [6 - 10.5mm] | PRICE |
|---|------------------------------------|-------|-------------------------------------|-------|
| Punch Holder w/Locking Screw | 17610 | | 17612 | |
| Punch Locking Screw | 25212 | | 25212 | |
| Punch - Round | 17611 | | 17613 | |
| Optima® Add-On | | | | |
| Stripper - Round† | 17502 | | 17502 | |
| Die - Round | 17504 | | 17504 | |
| Die - Round Slug Hugger® 2 | 17604 | | 17604 | |
| Die Shim Pack * | 17602 | | 17602 | |
| * Die Shim Pack includes: 5 each .004 [0.1mm] 3 each .008 [0.2mm] 2 each .012 [0.3mm] | | | | |

| DESCRIPTION | WS4 Up to 1.30" [33mm] | PRICE |
|---|------------------------------|-------|
| Punch - Round | 17500 | |
| Punch - Shape | 17501 | |
| Optima® Add-On | | |
| Stripper - Round† | 17502 | |
| Stripper - Shape | 17503 | |
| Die - Round | 17504 | |
| Die - Round Slug Hugger® 2 | 17604 | |
| Die - Shape | 17505 | |
| Die - Shape Slug Hugger® 2 | 17605 | |
| Die Shim Pack* | 17602 | |
| * Die Shim Pack includes: 5 each .004 [0.1mm] 3 each .008 [0.2mm] 2 each .012 [0.3mm] | | |

NOTES

Grind Life for WPA, WPB, WS4:

Punches can be resharpened .157" [4mm]
Dies can be resharpened .060" [1.5mm]










†Round strippers available up to 1.378" (35mm) diameter.

H3 HEAD

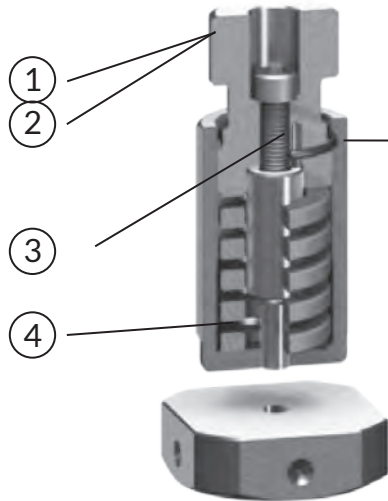
| | 30 | 31 | 32 | 33 | 34 | 35 |
|---------------|----------|----------|----------|----------|----------|----------|
| 24 90 x 90 | 76 75 | 68 67 | 60 59 | 56 55 | 52 51 | 48 47 |
| 23 70 x 90 | 44 43 | 74 73 | 66 65 | 58 57 | 54 53 | 50 49 |
| 22 70 x 90 | 46 45 | 42 41 | 72 71 | 64 63 | 20 19 | 16 15 |
| 21 90 x 90 | 8 7 | 4 3 | 70 69 | 62 61 | 18 17 | 14 13 |
| | 6 5 | 2 1 | 10 9 | 10 9 | 6 5 | 2 1 |

HEAD POSITIONS

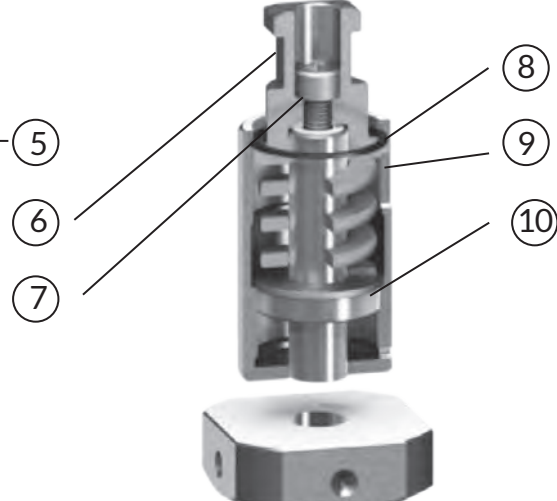
1-20, 41-76 7 TON

| | STANDARD SHAPE | | | | | | DIE VIEW | | |
|------|---|---|---|---|---|--|---|---|---|
| 0° |  |  |  |  |  |  |  |  |  |
| 90° | | | | | | | | | |
| 180° | | | | | | | | | |
| 270° | | | | | | | | | |

FULLY GUIDED PERFORATING ASSEMBLY



WPO



WP9

| DESCRIPTION | WPO .031 - .394" [.79 - 10mm] | PRICE |
|---|-------------------------------------|-------|
| Punch Assembly - Round | 17510 | |
| Punch Assembly - Shape | 17511 | |
| Punch - Round | 17512 | |
| Punch - Shape | 17513 | |
| Optima® Add-On | | |
| Stripping Guide - Round | 17514 | |
| Stripping Guide - Shape | 17515 | |
| Die - Round | 17504 | |
| Die - Round Slug Hugger® 2 | 17604 | |
| Die - Shape | 17505 | |
| Die - Shape Slug Hugger® 2 | 17605 | |
| Die Shim Pack * | 17602 | |
| 1 Punch Holder - Round | 17516 | |
| 2 Punch Holder - Shaped | 17517 | |
| 3 Socket Head Cap Screw | 6409 | |
| 4 Spring | 980644 | |
| 5 Retaining Ring | 980572 | |
| * Die Shim Pack includes: 5 each .004 [0.1mm] 3 each .008 [0.2mm] 2 each .012 [0.3mm] | | |

| DESCRIPTION | WP9 Up to 1.023" [26mm] | PRICE |
|---|-------------------------------|-------|
| Punch Assembly - Round | 17529 | |
| Punch Assembly - Shape | 17521 | |
| Punch - Round | 17522 | |
| Punch - Shape | 17523 | |
| Optima® Add-On | | |
| Stripping Guide - Round | 17524 | |
| Stripping Guide - Shape | 17525 | |
| Die - Round | 17504 | |
| Die - Round Slug Hugger® 2 | 17604 | |
| Die - Shape | 17505 | |
| Die - Shape Slug Hugger® 2 | 17605 | |
| Die Shim Pack * | 17602 | |
| 6 Punch Holder | 17526 | |
| 7 Socket Head Cap Screw | 6416 | |
| 8 Retaining Ring | 17528 | |
| 9 Spring | 6241 | |
| 10 Spring Support Washer | 17527 | |
| * Die Shim Pack includes: 5 each .004 [0.1mm] 3 each .008 [0.2mm] 2 each .012 [0.3mm] | | |

NOTES

Grind Life for WPO:

Punches can be resharpened .060" [1.5mm]
Dies can be resharpened .060" [1.5mm]

Grind Life for WP9:

Punches can be resharpened .118" [3mm]
Dies can be resharpened .060" [1.5mm]

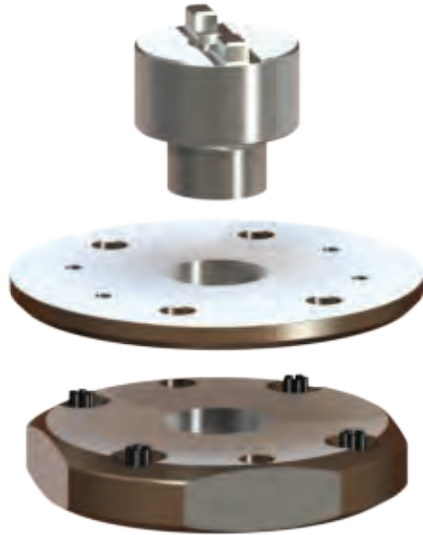
STANDARD SHAPE DIE VIEW

| | 0° | 90° | 180° | 270° |
|---------------|----|-----|------|------|
| 24 90 x 90 | | | | |
| 23 70 x 90 | | | | |
| 22 70 x 90 | | | | |
| 21 90 x 90 | | | | |

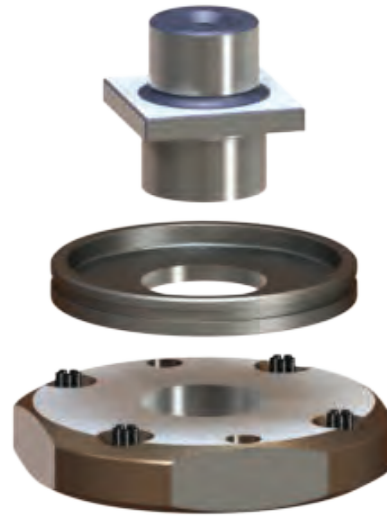
H3 HEAD

| | 30 | 31 | 32 | 33 | 34 | 35 |
|---------------|-----|-----|-----|-----|-----|-----|
| 24 90 x 90 | 76 | 68 | 60 | 56 | 52 | 48 |
| 23 70 x 90 | 74 | 66 | 58 | 54 | 50 | 46 |
| 22 70 x 90 | 72 | 64 | 56 | 52 | 48 | 44 |
| 21 90 x 90 | 70 | 62 | 54 | 50 | 46 | 42 |
| | 69 | 61 | 53 | 49 | 45 | 41 |
| | 71 | 63 | 55 | 51 | 47 | 43 |
| | 73 | 65 | 57 | 53 | 49 | 45 |
| | 75 | 67 | 59 | 55 | 51 | 47 |
| | 77 | 69 | 61 | 57 | 53 | 49 |
| | 79 | 71 | 63 | 59 | 55 | 51 |
| | 81 | 73 | 65 | 61 | 57 | 53 |
| | 83 | 75 | 67 | 63 | 59 | 55 |
| | 85 | 77 | 69 | 65 | 61 | 57 |
| | 87 | 79 | 71 | 67 | 63 | 59 |
| | 89 | 81 | 73 | 69 | 65 | 61 |
| | 91 | 83 | 75 | 71 | 67 | 63 |
| | 93 | 85 | 77 | 73 | 69 | 65 |
| | 95 | 87 | 79 | 75 | 71 | 67 |
| | 97 | 89 | 81 | 77 | 73 | 69 |
| | 99 | 91 | 83 | 79 | 75 | 71 |
| | 101 | 93 | 85 | 81 | 77 | 73 |
| | 103 | 95 | 87 | 83 | 79 | 75 |
| | 105 | 97 | 89 | 85 | 81 | 77 |
| | 107 | 99 | 91 | 87 | 83 | 79 |
| | 109 | 101 | 93 | 89 | 85 | 81 |
| | 111 | 103 | 95 | 91 | 87 | 83 |
| | 113 | 105 | 97 | 93 | 89 | 85 |
| | 115 | 107 | 99 | 95 | 91 | 87 |
| | 117 | 109 | 101 | 97 | 93 | 89 |
| | 119 | 111 | 103 | 99 | 95 | 91 |
| | 121 | 113 | 105 | 101 | 97 | 93 |
| | 123 | 115 | 107 | 103 | 99 | 95 |
| | 125 | 117 | 109 | 105 | 101 | 97 |
| | 127 | 119 | 111 | 107 | 103 | 99 |
| | 129 | 121 | 113 | 109 | 105 | 101 |
| | 131 | 123 | 115 | 111 | 107 | 103 |
| | 133 | 125 | 117 | 113 | 109 | 105 |
| | 135 | 127 | 119 | 115 | 111 | 107 |

HEAD POSITIONS 1-20, 41-76 7 TON



WP5



WS6

| DESCRIPTION | WP5 Up to 1.669" [42.4mm] | PRICE | WS6 Up to 2.362" [60mm] | PRICE |
|----------------------------|---------------------------------|-------|-------------------------------|-------|
| Punch - Round | 17532 | | 17542 | |
| Punch - Shape | 17533 | | 17543 | |
| Optima® Add-On | | | | |
| Stripper - Round | 17534 | | 17544 | |
| Stripper - Shape | 17535 | | 17545 | |
| Die - Round | 17536 | | 17536 | |
| Die - Round Slug Hugger® 2 | 17636 | | 17636 | |
| Die - Shape | 17537 | | 17537 | |
| Die - Shape Slug Hugger® 2 | 17637 | | 17637 | |
| *Die Brush [8mm] | 17601 | | 17601 | |

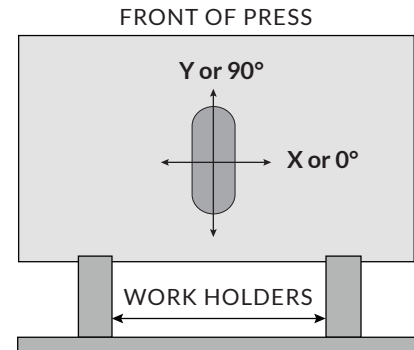
* Dies come with brushes installed.

NOTES

Grind Life for WP5, WS6:

Punches can be resharpened .157" [4mm]

Dies can be resharpened .060" [1.5mm]













H3 HEAD

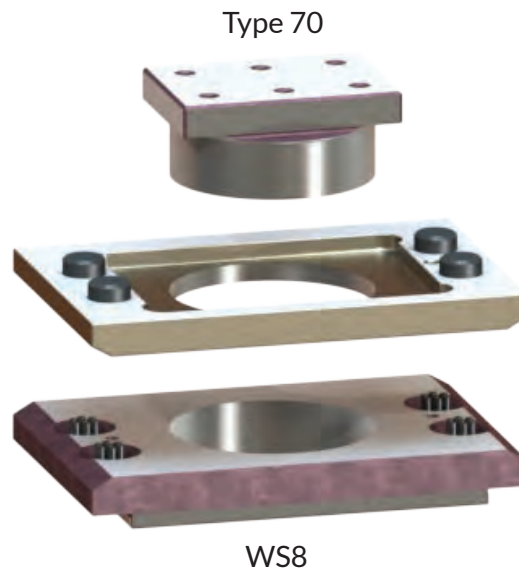
| | 30 | 31 | 32 | 33 | 34 | 35 |
|---------------|----|----|----|----|----|----|
| 24 90 x 90 | 76 | 68 | 60 | 56 | 52 | 48 |
| | 75 | 67 | 59 | 55 | 51 | 47 |
| 23 70 x 90 | 74 | 66 | 58 | 54 | 50 | 46 |
| | 73 | 65 | 57 | 53 | 49 | 45 |
| 22 70 x 90 | 72 | 64 | 20 | 16 | 12 | 8 |
| | 71 | 63 | 19 | 15 | 11 | 7 |
| 21 90 x 90 | 70 | 62 | 18 | 14 | 10 | 6 |
| | 69 | 61 | 17 | 13 | 9 | 5 |

HEAD POSITIONS

30 - 35 12 TON

| | STANDARD SHAPE | | | | | | DIE VIEW | | | |
|------|---|---|---|---|--|---|---|---|---|---|
| 0° |  |  |  |  |  |  |  |  |  |  |
| 90° | | | | | | | | | | |
| 180° | | | | | | | | | | |
| 270° | | | | | | | | | | |

When ordering you must specify orientation if the shape is other than a round or square.



Type 70

WS8


















NOTES

Grind Life for WS8

Punches can be resharpened .157" [4mm]
Dies can be resharpened .060" [1.5mm]

Slug retention options available upon request.

| TYPE 70 | WS8 2.755 x 3.543 [70 x 90mm] | PRICE |
|--|-------------------------------------|-------|
| Punch - Round | 17562 | |
| Punch - Shapes | 17563 | |
| Optima® Add-On | | |
| Stripper - Round | 17564 | |
| Stripper - Shapes | 17565 | |
| Die - Round | 17566 | |
| Die - Round Slug Hugger® 2 | 17666 | |
| Die - Shape | 17567 | |
| Die - Shape Slug Hugger® 2 | 17667 | |
| Large Brush [13mm] | 17600 | |
| * Die and Strippers come with brushes installed. | | |

| | STANDARD SHAPE | | | | DIE VIEW | | | |
|------|---|---|---|---|---|---|---|---|
| 0° |  |  |  |  |  |  |  |  |
| 90° | | |  | |  |  |  |  |
| 180° | | | | | | |  |  |
| 270° | | | | | | |  |  |

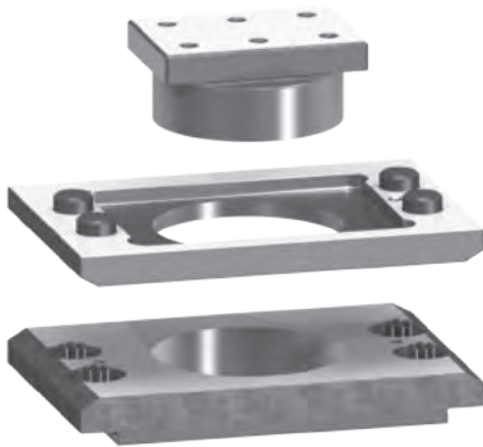
TYPE 70

| | 30 | 31 | 32 | 33 | 34 | 35 |
|---------------|----|----|----|----|----|----|
| 24 70 x 90 | 76 | 68 | 60 | 56 | 52 | 48 |
| 23 70 x 90 | 75 | 67 | 59 | 55 | 51 | 47 |
| 22 70 x 90 | 74 | 66 | 58 | 54 | 50 | 46 |
| 21 70 x 90 | 73 | 65 | 57 | 53 | 49 | 45 |
| | 72 | 64 | 20 | 16 | 12 | 8 |
| | 71 | 63 | 19 | 15 | 11 | 7 |
| | 70 | 62 | 18 | 14 | 10 | 6 |
| | 69 | 61 | 17 | 13 | 9 | 5 |

HEAD POSITIONS 21-24 26 TON

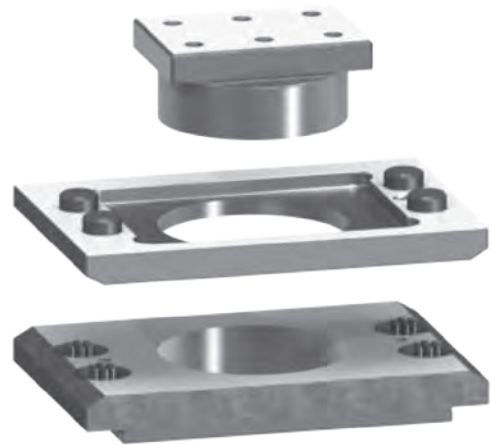
Verify what stations are
in the cartridge.

Type 90
70 x 90



WS9

Type 90
90 x 90



WSA

| TYPE 90 | WS9 2.755 x 3.543 [70 x 90mm] | PRICE | WSA 3.543 x 3.543 [90 x 90mm] | PRICE |
|----------------------------|-------------------------------------|-------|-------------------------------------|-------|
| Punch - Round | 17562 | | 17582 | |
| Punch - Shapes | 17563 | | 17583 | |
| Optima Add-On | | | | |
| Stripper - Round | 17574 | | 17584 | |
| Stripper - Shapes | 17575 | | 17585 | |
| Die - Round | 17576 | | 17586 | |
| Die - Round Slug Hugger® 2 | 17676 | | 17686 | |
| Die - Shape | 17577 | | 17587 | |
| Die - Shape Slug Hugger® 2 | 17677 | | 17687 | |
| Large Brush [13mm] | 17600 | | 17600 | |

* Die and Strippers come with brushes installed.

NOTES

Grind Life for WS9 & WSA

Punches can be resharpened .157" [4mm]

Dies can be resharpened .060" [1.5mm]

























Slug retention options available upon request.

TYPE 90

| | 30 | 31 | 32 | 33 | 34 | 35 |
|---------------|----|----|----|----|----|----|
| 24 90 x 90 | 76 | 68 | 60 | 56 | 52 | 48 |
| 23 70 x 90 | 75 | 67 | 59 | 55 | 51 | 47 |
| 22 70 x 90 | 74 | 66 | 58 | 54 | 50 | 46 |
| 21 90 x 90 | 73 | 65 | 57 | 53 | 49 | 45 |
| | 72 | 64 | 20 | 16 | 12 | 8 |
| | 71 | 63 | 19 | 15 | 11 | 7 |
| | 70 | 62 | 18 | 14 | 10 | 6 |
| | 69 | 61 | 17 | 13 | 9 | 5 |

HEAD POSITIONS 21-24 26 TON

Verify what stations are
in the cartridge.

| | STANDARD SHAPE | | | | | | | | DIE VIEW | | |
|------|---|---|---|---|--|---|---|---|---|---|---|
| 0° |  |  |  |  |  |  |  |  |  |  |  |
| 90° | | | |  | |  |  |  |  |  |  |
| 180° | | | | | | | | |  |  |  |
| 270° | | | | | | | | |  |  |  |

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.

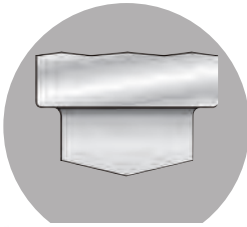
Remarkable Downtime Reductions

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.

** Maintenance and sharpening may differ from traditional tooling.
Check with your sales engineer or contact our tooling technicians..*





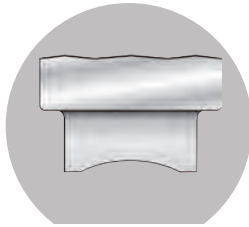
ROOFTOP



Best shear for punching at maximum tonnages.



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



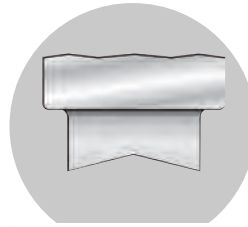
CONCAVE OR
DOUBLE CONCAVE



Best shear for nibbling because it inverts stresses.



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



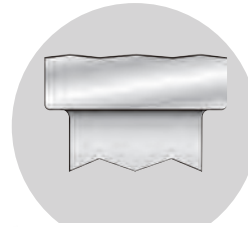
INVERTED
ROOFTOP



Good shear for nibbling because it inverts stresses.



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



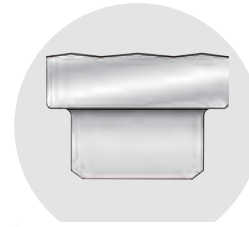
DOUBLE VALLEY



Best shear for nibbling when shape is long and narrow.



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



JK SHEAR



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.

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

Wearbeater™

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

.....



Optima®

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

.....



Nitrex®

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

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Slip-Max®

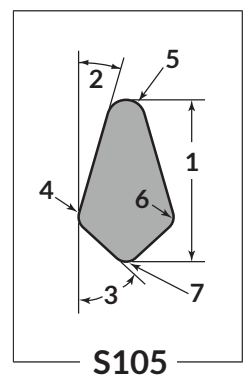
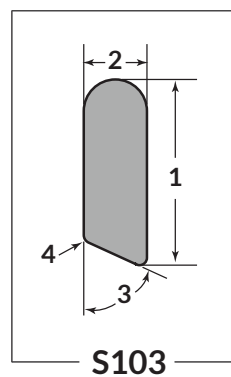
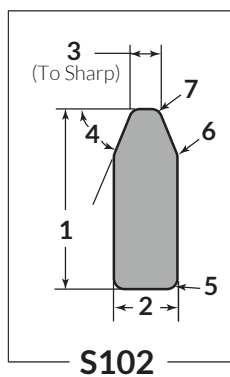
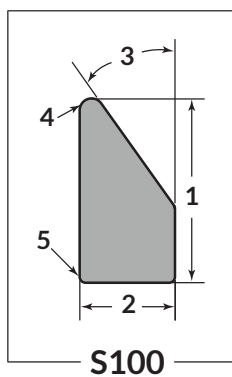
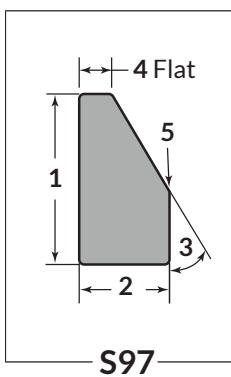
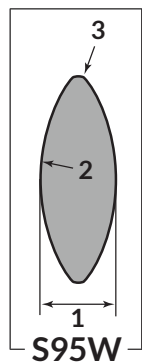
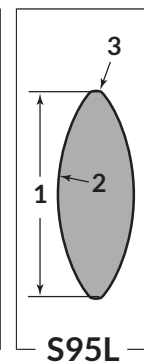
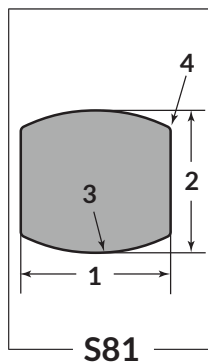
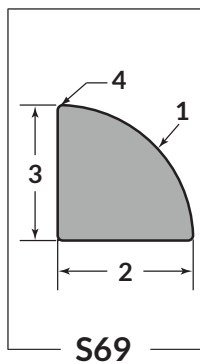
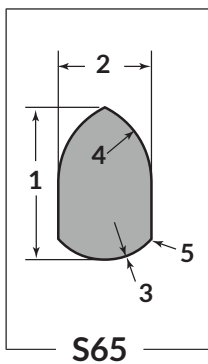
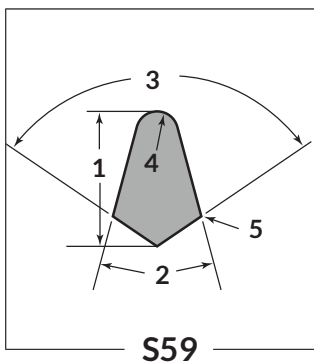
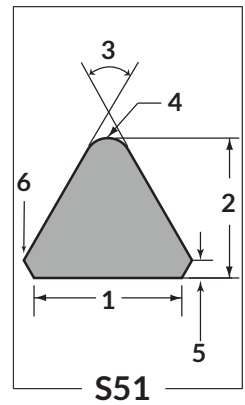
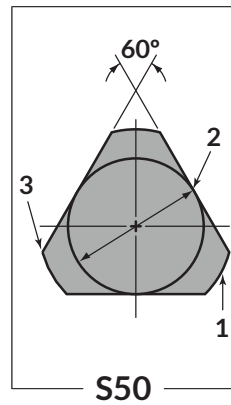
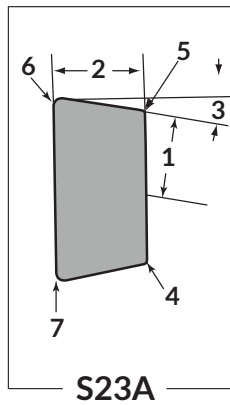
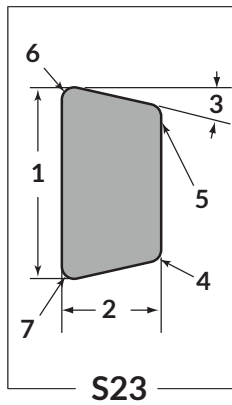
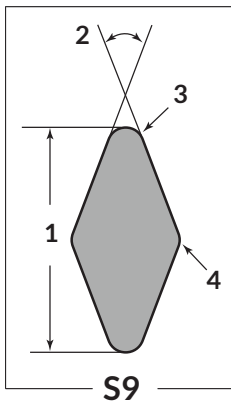
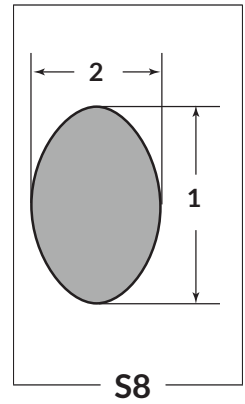
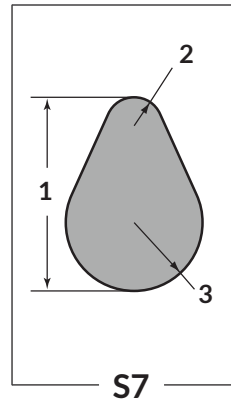
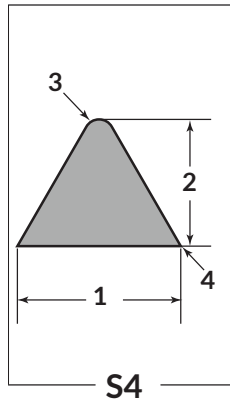
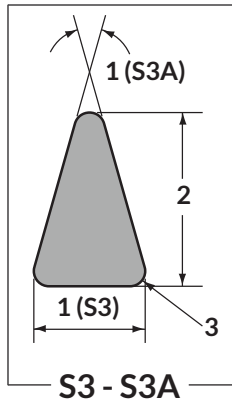
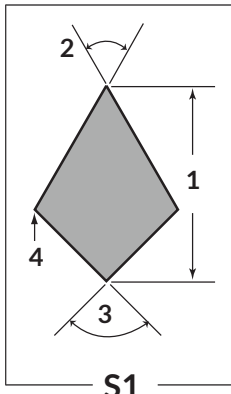
Available only from Wilson Tool, our Slip-Max coating has proven effective in some very tough punching and forming applications. The combination of its hardness and lubricity greatly increases punch life and reduces galling when piercing aluminum. Slip-Max is also very effective in resolving even the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

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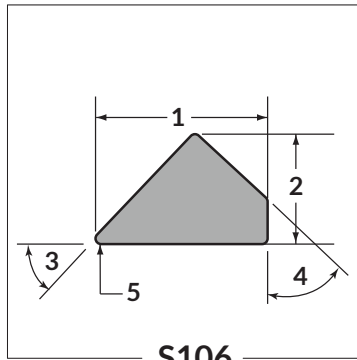
| COATING RECOMMENDATION BY APPLICATION | WEARBEATER | OPTIMA | NITREX | SLIP-MAX |
|---|------------|--------|--------|----------|
| Punch wear piercing varied materials | ● | ★ | | |
| Punch or die wear piercing stainless steel | ● | ★ | | |
| Punch wear piercing galvanized | ● | ▲ | ★ | |
| Punch or die wear piercing aluminum | ● | | ▲ | ★ |
| 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 | | | | |

GROUP 'A'

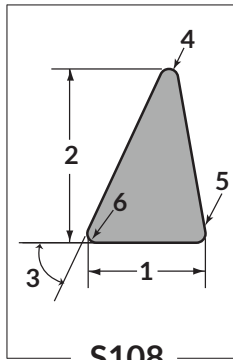


NOTE: Special considerations may alter price and lead time.

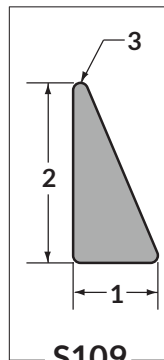
GROUP 'A'



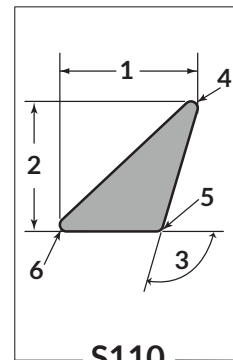
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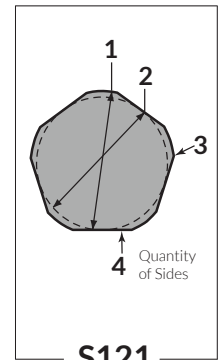
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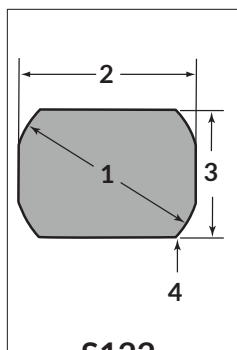
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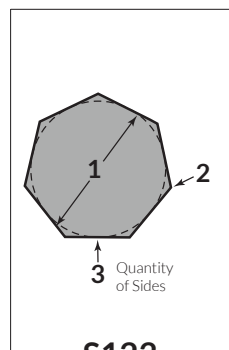
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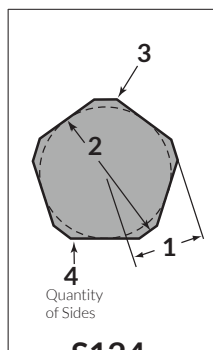
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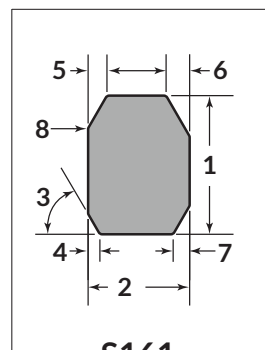
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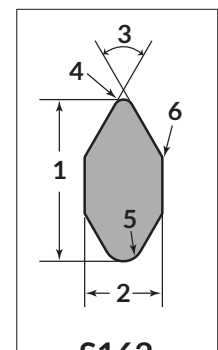
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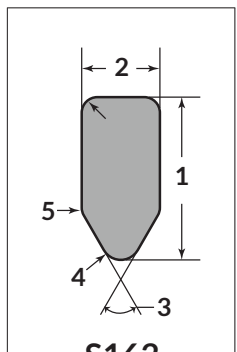
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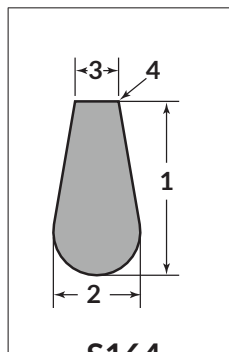
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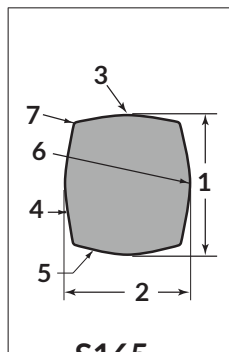
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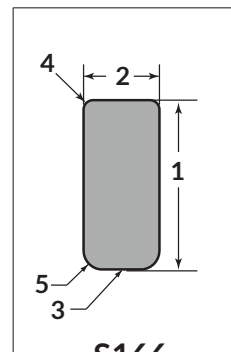
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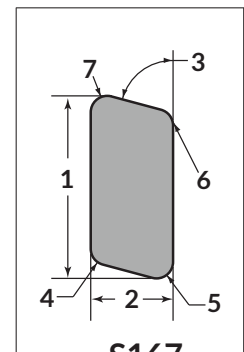
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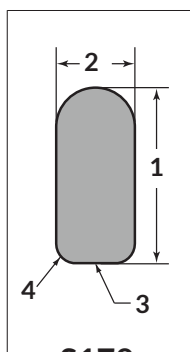
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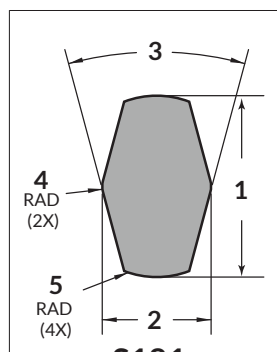
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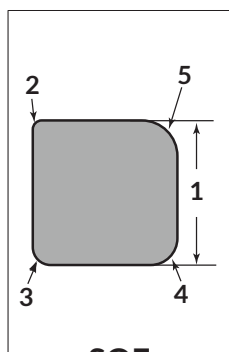
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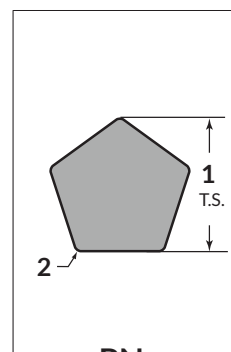
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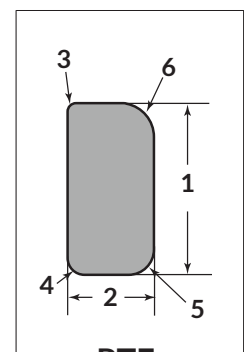
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SQF



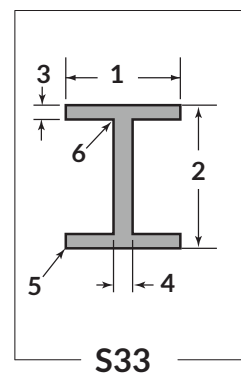
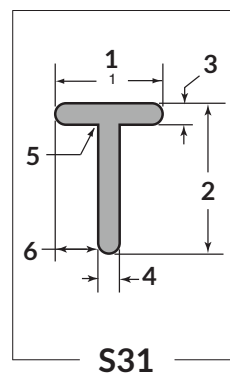
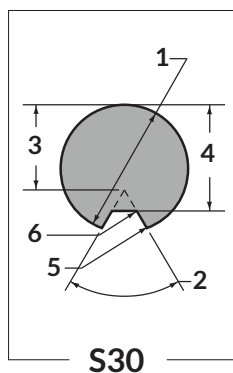
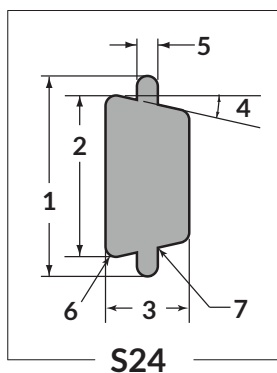
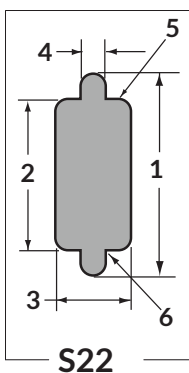
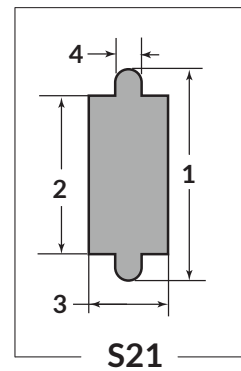
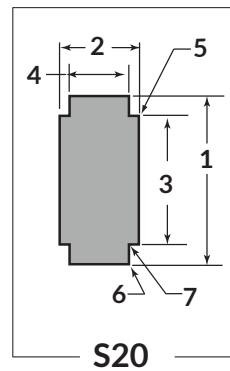
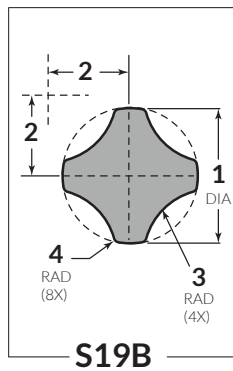
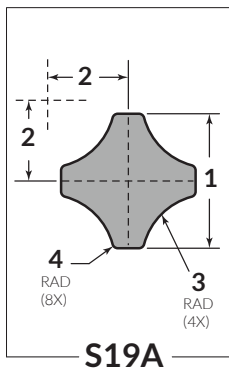
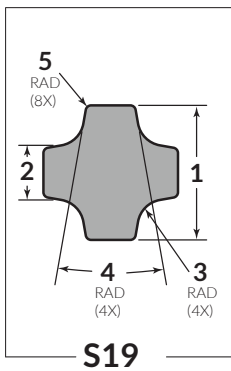
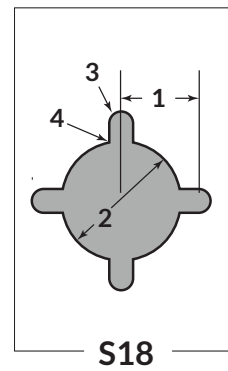
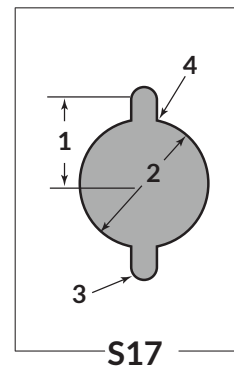
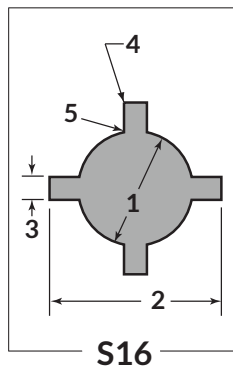
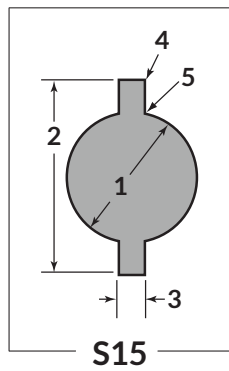
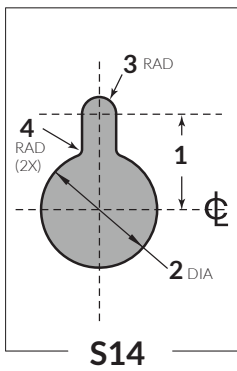
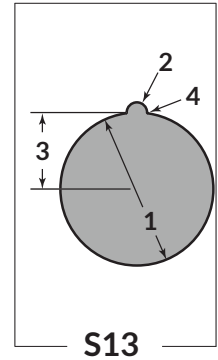
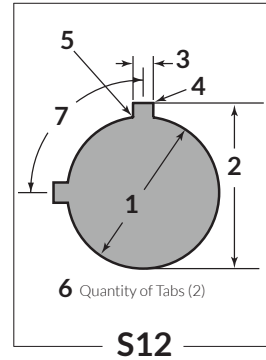
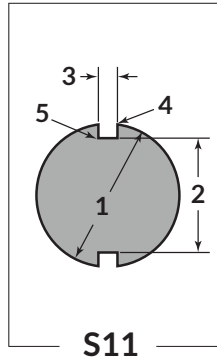
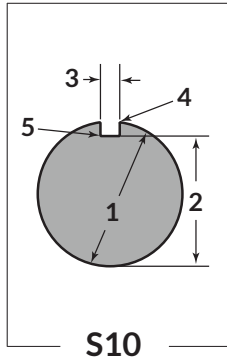
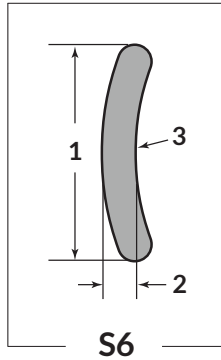
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RTF

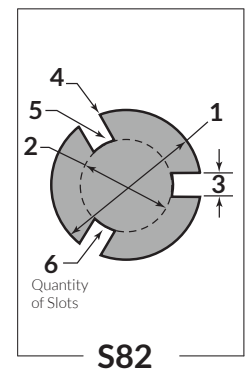
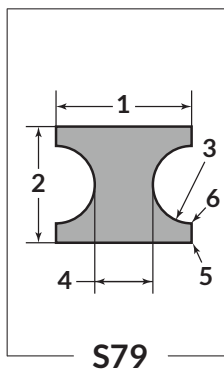
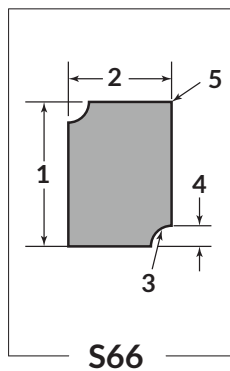
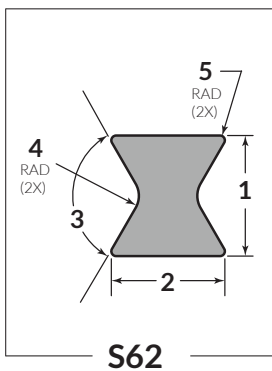
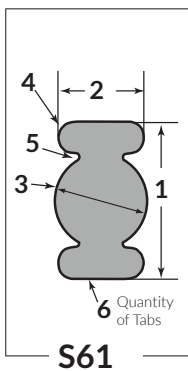
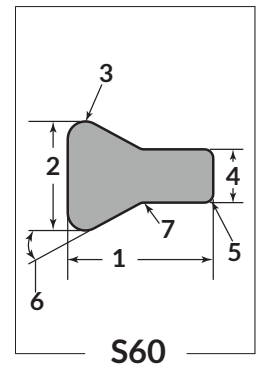
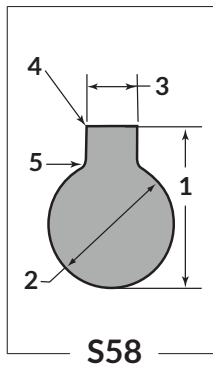
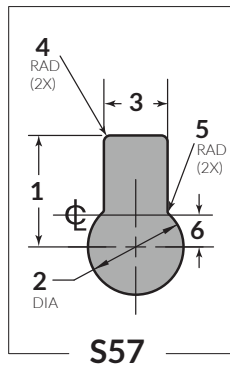
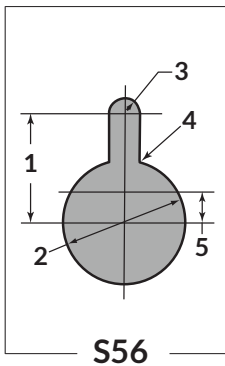
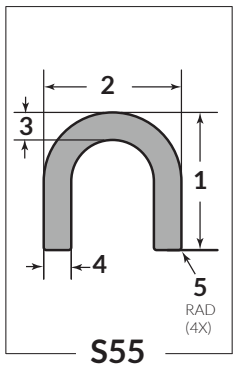
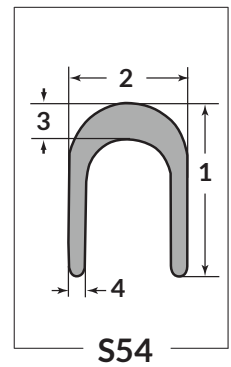
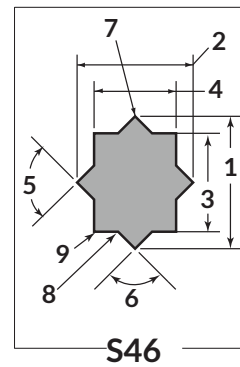
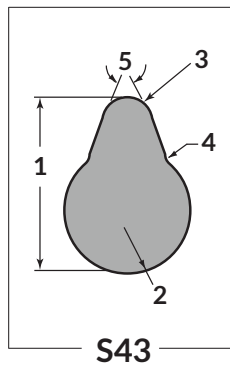
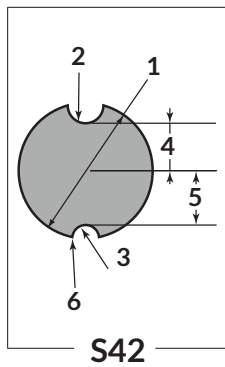
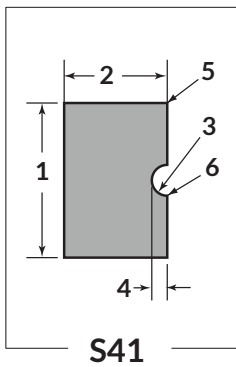
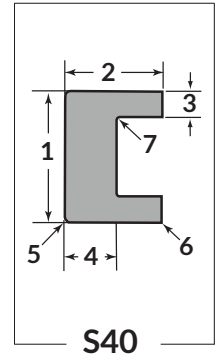
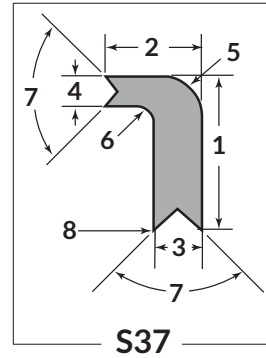
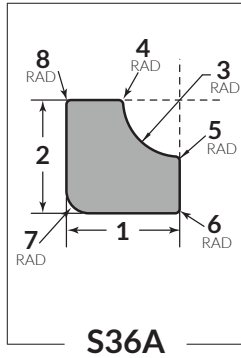
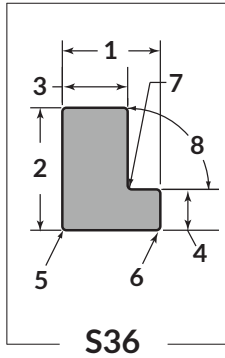
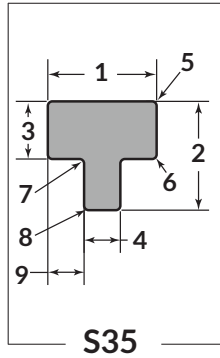
NOTE: Special considerations may alter price and lead time.

GROUP 'B'



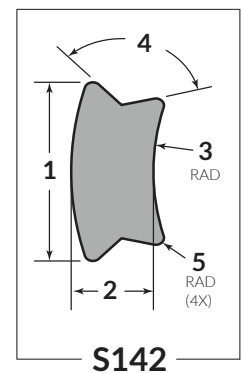
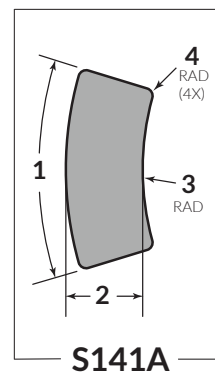
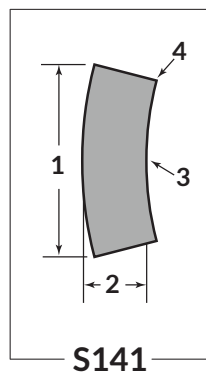
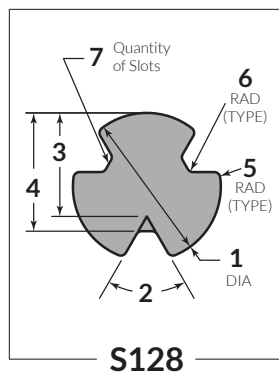
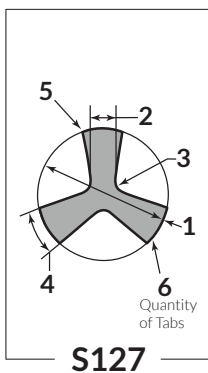
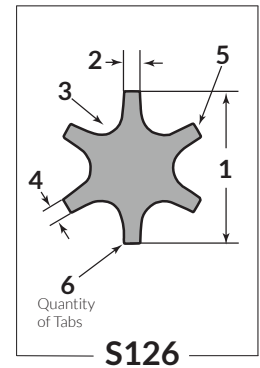
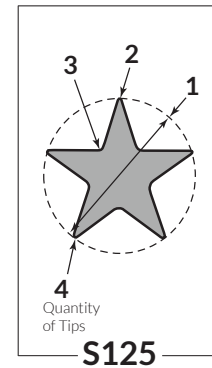
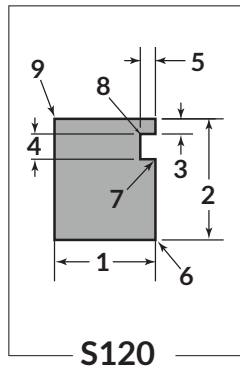
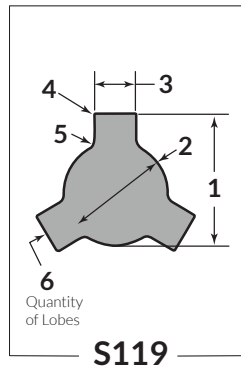
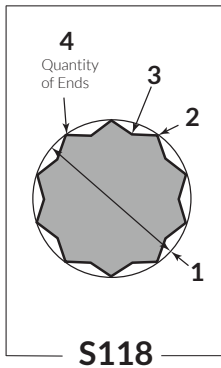
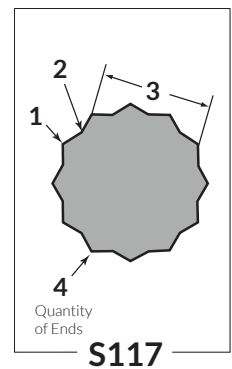
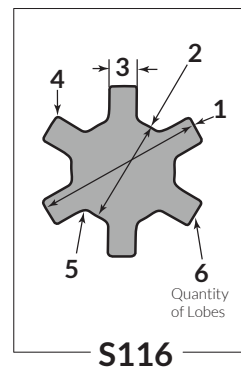
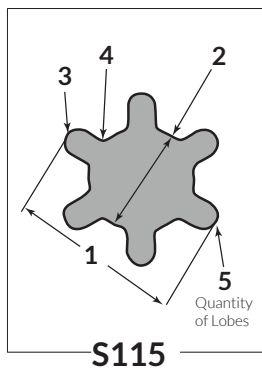
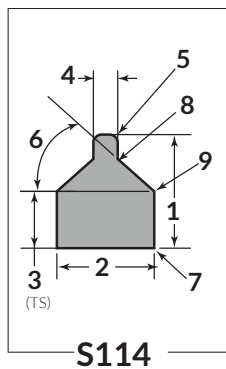
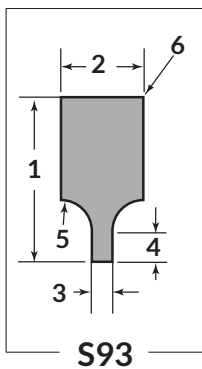
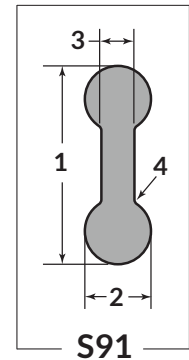
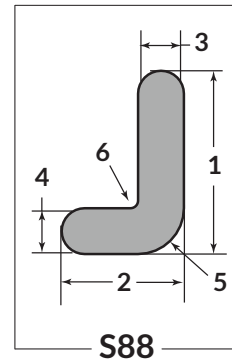
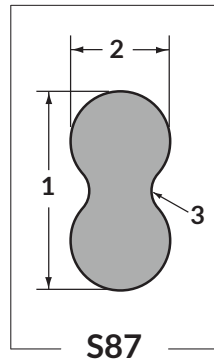
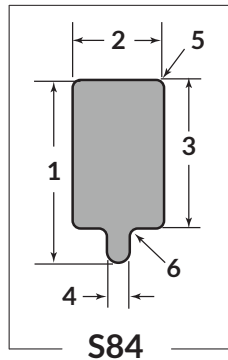
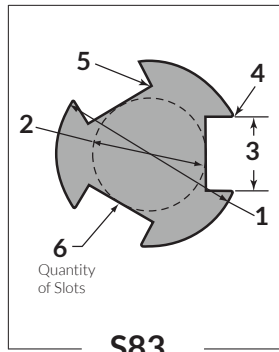
NOTE: Special considerations may alter price and lead time.

GROUP 'B'



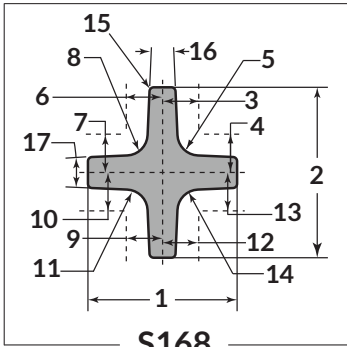
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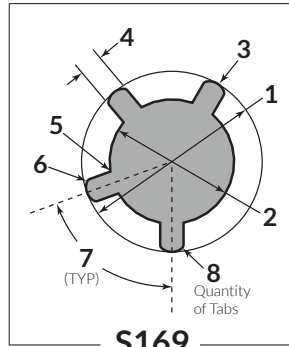


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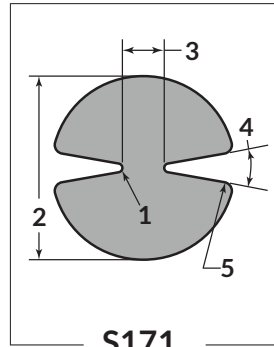
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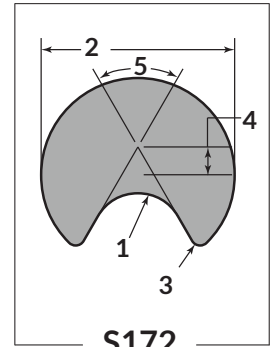
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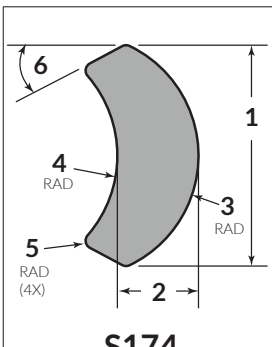
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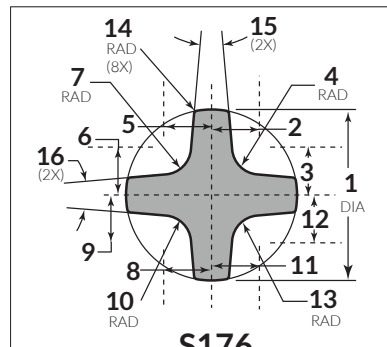
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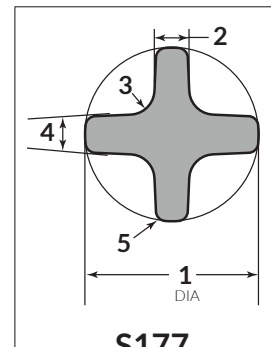
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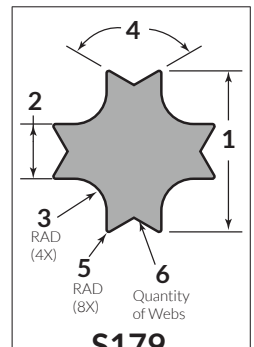
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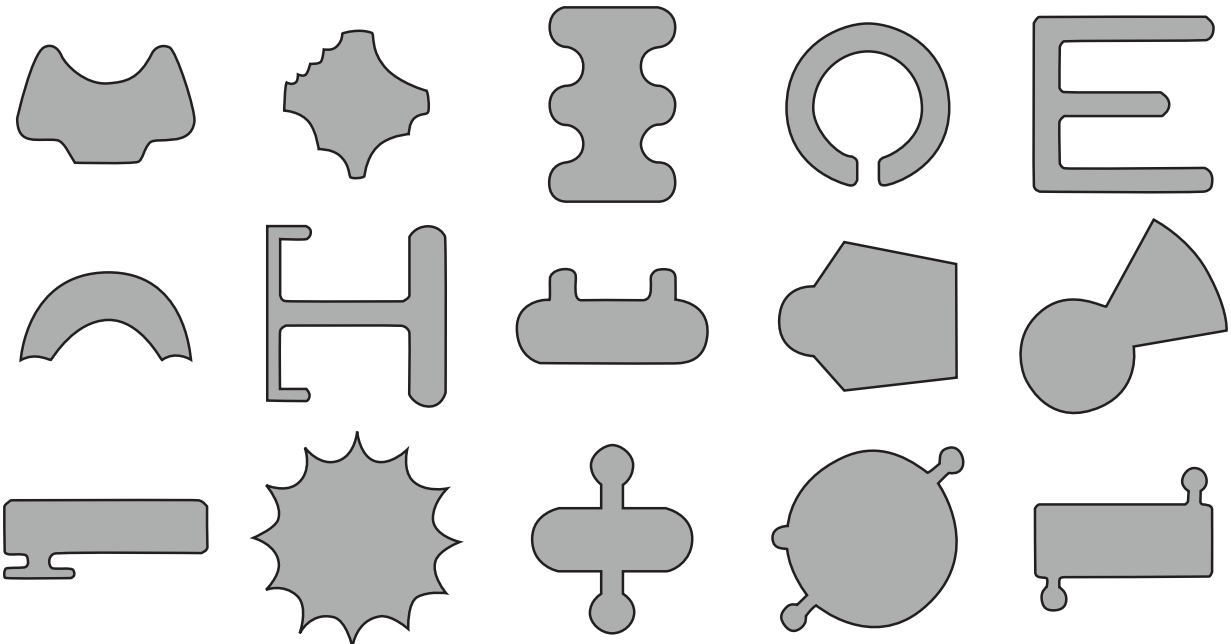
S177



S179

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.

Benefits of Accurate Regrinding

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

Fully Automated Grinding Process

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

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

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

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

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

Interlocking Safety Guard: Automatically that opens and closes

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

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



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

| TECHNICAL SPECIFICATIONS* | |
|---------------------------|-----------------------|
| Machine Height | 77.2" (1962mm) |
| Machine Width | 31.5" (800mm) |
| Machine Depth | 30.7" (779mm) |
| Machine Weight | 992 lbs./450kg |
| Power Supply | 230/460V, 60Hz |
| Table Motor Power | .24HP/18 kW |
| Table Rotation Speed | 40 RPM |
| Max. Tool Diameter | 6.3" (160mm) |
| Max. Tool Height | 9" (230mm) |
| Air Pressure Supply | 6 bar |
| Grinding Motor Power | 3HP/2.2 kW |
| Wheel Rotation Speed | 2800 rpm |
| Coolant Pump Power | .21HP/0.16 kW |
| Coolant Pump Water Flow | Max. 11.5GPM/40 l/min |

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

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

5 EASY STEPS TO A SHARPER EDGE



Step 1. Load tool into chuck



Step 2. Set tool style



Step 3. Set tool size



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



Step 5. Touch start to sharpen the tool

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

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

Cat. No. 8050



RUBBERIZED ABRASIVE WHEEL

Press Brake Compatible
Punch Press Compatible

EXP® PUNCH REMOVAL KEY

Press Brake Compatible
Punch Press Compatible



This wrench is designed for use with EXP® punches.

Cat. No. 6989

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

OIL STONE

Press Brake Compatible
Punch Press Compatible



3 square aluminum oxide sharpening stone.

Cat. No. 6060

METRIC HEX KEY WRENCH SET

Press Brake Compatible
Punch Press Compatible



Metric 9 piece long arm set. Contains: 1.5 x 77, 2 x 83, 2.5 x 90, 3 x 98, 4 x 106, 5 x 118, 6 x 137, 8 x 156, 10 x 170mm

Cat. No. 6105

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", 3/8"

Cat. No. 6057

SOFT FACE HAMMER

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

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.

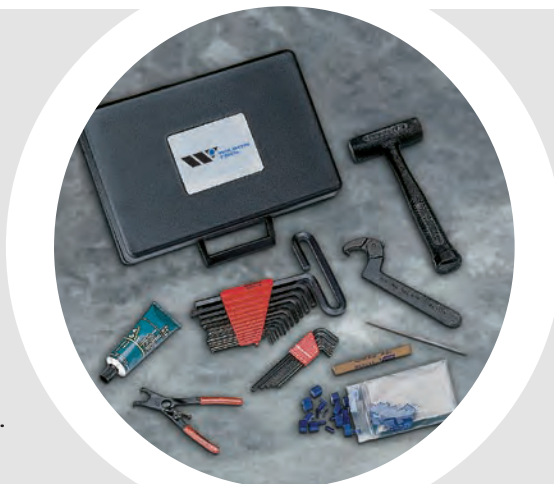


| Station | QUANTITY | CAT. NO. |
|---------|------------------------------|----------|
| A | Pack of 10 | 6083 |
| B | Pack of 10 | 6084 |
| C | Pack of 10 | 6085 |
| D | Pack of 10 | 6086 |
| E | Pack of 10 | 6087 |
| Sheet | 6" x 12" [15.2 x 30.5 cm] | 6108 |

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.

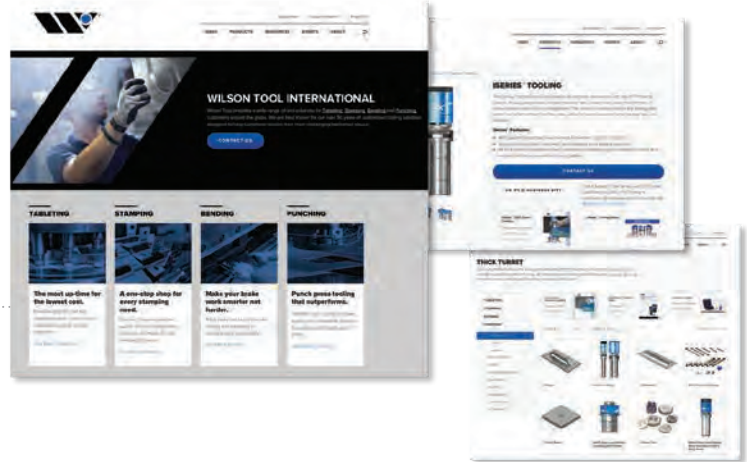
Cat. No. 6091



TOOL KIT

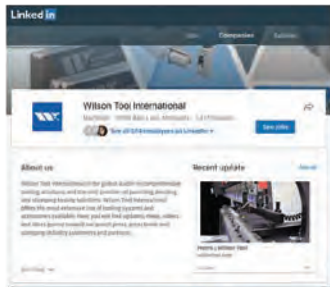
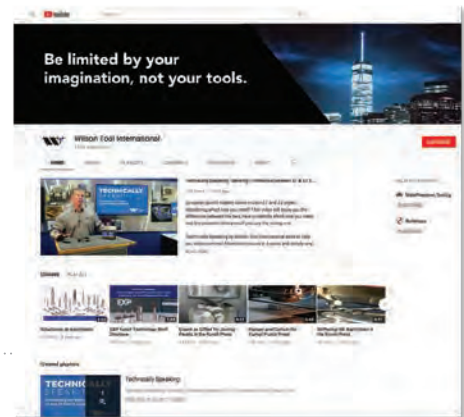
Press Brake Compatible
Punch Press Compatible

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SLUG HUGGER® 2

ELIMINATES COSTLY SLUG PULLING

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

The Slug Pulling Solution

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



How Does it Work?

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



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