

A COMPLETE RANGE OF METAL STAMPING TOOLING SOLUTIONS

Wilson Tool's Impax Tooling Solutions® division manufactures a full selection of high quality punch and die components for the metal stamping industry, including standard shapes, round tip forms and special 2D shapes. We offer the widest selection of special shapes available anywhere. An unwavering commitment to innovation, our knowledgeable sales force, faster delivery times and unparalleled customer service, make our tooling the clear choice for all of your metal stamping needs.



FINISHES AND TOOL STEELS

Standard Finish

Every punch is finished with a conventional radial grind with a finish measuring 8-10 Ra for reduced galling, increased wear resistance and longer punch life.

PinPoint™ Straight Line Grind

The ultimate finish, produced by precision grinding in parallel with the centerline of the tool and then indexing the punch in millionth increments to achieve the required shape to improve the lubrication-retaining characteristics of the tip and reduce the stripping force required.

SheerPerfection™ Polish

Improve the finish of any punch by up to 4 Ra. Available alone or in combination with other surface finishes. Ideal for forming applications to prevent marring. Couple with coatings for a punch that will be the ultimate in resisting material adhesion. Available on extrusion dies and other internal features.

Tool Steel Options

Our manufacturing process and proprietary tool steels produce punches with unmatched durability and precision.

M2 steel is standard on Imperial headed punches.

M4 steel is standard on metric headed punches

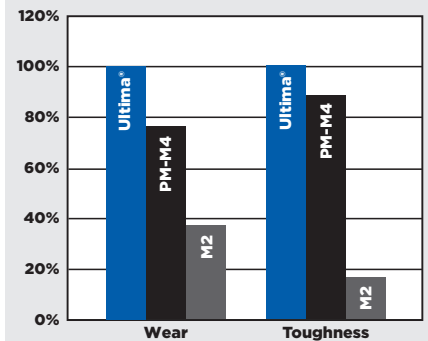
and ball-lock tooling.

3V and 10V steels are available for more demanding applications.

Our patented Ultima® tool steel, for increased performance and wear resistance, is for the most demanding applications. Side-by-side testing shows its superior performance:

- Ultima® tool steel has **64% greater** wear resistance and **86% more** toughness than M2
- Ultima® tool steel has **25% greater** wear resistance and **11% more** toughness than PM-M4

Ultima® Testing Data Comparisons



IMPAX
TOOLING SOLUTIONS

PRODUCT HIGHLIGHTS FOR STAMPING

COATING OPTIONS



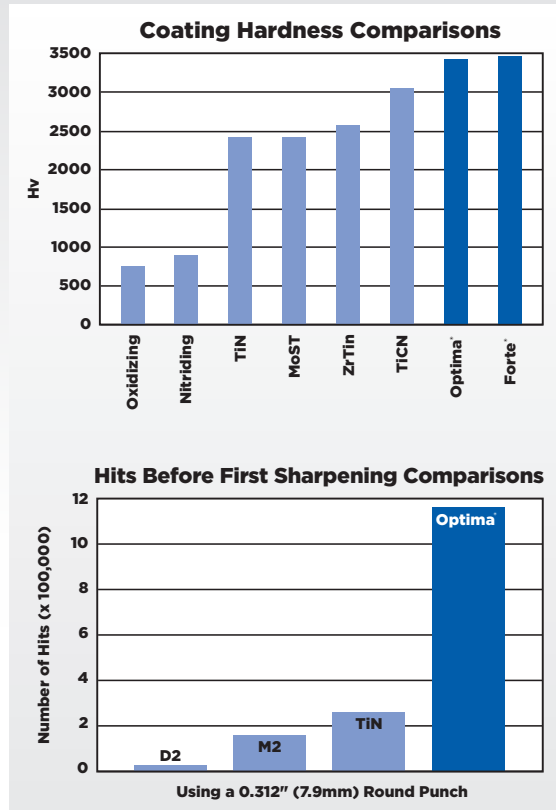
Optima®

Developed by Wilson Tool engineers, our Optima coating is a proven choice for most applications. It exceeds conventional tool steel levels with a micro hardness (HV) of 3500, outlasts untreated tools by 5-7 times, and adding only one day of lead time.



Forte®

A proprietary multi-layer nano coating that serves as an excellent alternative to Chemical Vapor Deposition (CVD) coatings. Low application temperature ensures no dimensional changes to the tool. Great for high-pressure punching and forming applications on both high and low alloy steel, regardless of material thickness.



TOOLING INNOVATIONS



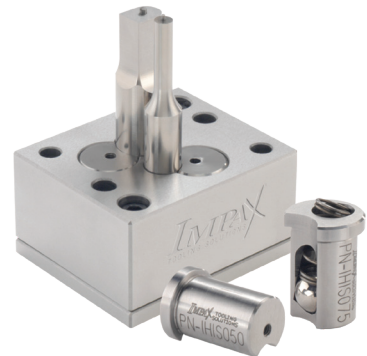
Slug Hugger® 2 and 4L

Slug Hugger dies help eliminate scrapped parts, costly downtime, and possible press and tooling damage due to slug pulling. Slug Hugger 2 works on most material types and thicknesses while Slug Hugger 4L is made for thinner material.



Thread Forms

Our thread form tools are custom built for a perfect fit to ensure finishing screws are held firmly in place. Available for standard and non-standard threads. Tooling is test run for flawless stamping resulting in a superior end product.



HP Accu-Lock® Retainer Inserts

Available in metric and imperial sizes and are fully compatible with all ball lock punches, including HP Ball Lock punches from Wilson Tool.

For more information, visit wilsontool.com, call our tooling technicians at 800.944.4671 or contact your sales engineer.

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