



A Complete Range of Metal Stamping Tooling Solutions



Impax Tooling Solutions® 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.

Impax Tooling Solutions is focused on developing innovative products that improve your productivity and lower your costs. Ideas are fostered from every individual, department and division, keeping Wilson Tool technology consistently on the cutting edge.

With an unwavering commitment to innovation, a knowledgeable sales force, faster delivery times and unparalleled customer service, Impax Tooling Solutions is the clear choice for your metal stamping needs.



Strength. Performance. Innovation.



HP ACCU-LOCK RETAINER INSERTS

Shorter Lead Times and Less Waste

Purchasing custom retainers for a special request is costly and can add weeks to a job. With HP Accu-Lock, you not only create your special retainers in-house but also modify and reuse existing retainers. Cut your lead times from several weeks to a day and significantly reduce waste.

HP Accu-Lock Retainer Inserts allow you to:

- Create new special retainers in-house
- Modify and reuse existing retainers
- Hold punches securely and accurately

HP Accu-Lock Retainer Inserts are available in Metric and Imperial sizes and are fully compatible with all ball lock punches, including HP Ball Lock punches from Wilson Tool.

THREAD FORMS - A BETTER WAY TO FASTEN SHEET METAL

Thread forms provide a fast, cost-effective way to hold sheet metal finishing screws in place. Using a thread form tool, a helical spiral is created that accepts the thread pitch of a given sheet metal screw. The screw holds firmly due to the metal tension in the thread form. Unlike lock nuts and other threading methods, there are no extra parts or additional assembly time required.

Thread form tools from Impax Tooling Solutions offer a better fit and more features, resulting in a superior end product.

- Holding finishing screws firmly in place
- Custom built tools for a perfect fit
- Custom designs available for non-standard threads
- Test run for flawless stamping
- Coin and form in one hit in some cases
- Pierce and form in one hit in some cases
- Long lasting M2 steel standard on headed punches
- Extra tough M4 steel standard on ball lock punches



SLUG HUGGER2

At Wilson Tool, our desire to provide innovative tooling solutions for our customers has lead us to develop the Slug Hugger® 2 die design to help eliminate the very costly problem of slug pulling.

The Slug Hugger® 2 design works on most material types and thicknesses including aluminum and stainless steel. Slug Hugger® 2 dies help eliminate scrapped parts, costly downtime, and possible press and tooling damage due to slug pulling. This unique design is available on all die configurations...Taper Relief, Stepped Relief, Headed or Headless.

SPECIALTY COATINGS

Optima®

Developed by Wilson Tool engineers in our state-of-the-art coating facility, our revolutionary Optima coating set the industry standard for many years. Today Optima is still a great choice for most applications. With a micro hardness (HV) of 3500, Optima far exceeds the hardness levels that can be achieved with conventional tool steels and will outlast untreated tools by as much as 5-7 times. Optima coating only adds one day of lead time.

OptimaX

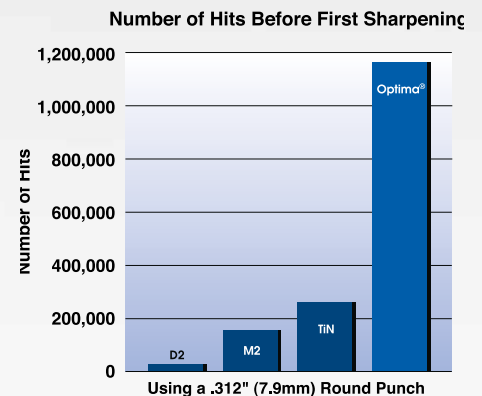
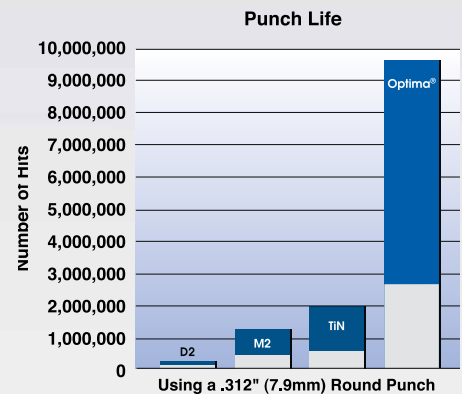
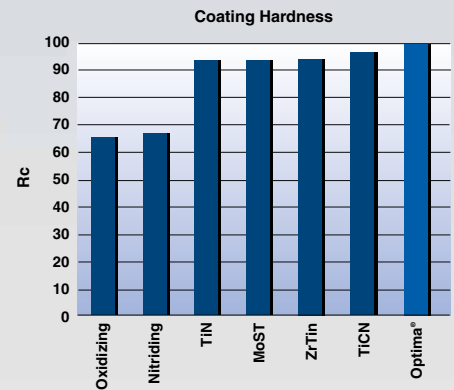
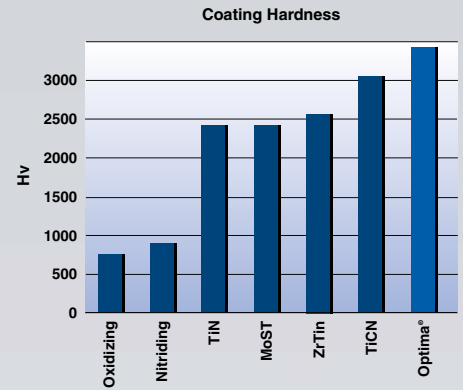
Our premium coating, OptimaX takes our original Optima coating to the next level. This two part coating process offers all the wear resistance and hardness of Optima plus provides added lubricity and further reduces galling. OptimaX is ideal for stamping material such as aluminum as well as for forming applications.

Wilson CrN

For less demanding applications, Wilson CrN provides a 2500 HV, making it twice as hard as conventional chrome plating, and a 0.55 coefficient of friction. It is ideal for stamping materials such as plastics, copper or aluminum alloys and certain galvanized materials. Wilson CrN also improves corrosion and oxidation resistance for longer punch life.

Wear-Beater™

Impax Tooling Solution's exclusive Wear-Beater coating is a titanium nitride (TiN) coating that helps reduce galling and extends punch life in certain applications.



FINISHES

Standard Finish

Every punch we produce is finished with Impax Tooling Solution's standard finish. As the name suggests this is our basic ground finish. It is a conventional radial grind with a finish measuring 8-10 micron for reduced galling, increased wear resistance and longer punch life. Back taper is included to reduce stripping pressure.

Effex™ Surface Finish

Our Effex surface finish gives round punches increased durability and reduces galling. After the punch has been manufactured with our standard finish, we alter the grind lines so they run parallel to the centerline of the tool. Effex finished punches glide smoothly, reducing build-up of loose particles and requiring less pressure for easier stripping.

PinPoint™ Straight Line Grind

Impax Tooling Solution's PinPoint straight line grind is the ultimate finish for high quality stamping. Available on any style of punch, the finish is produced by precision grinding parallel with the centerline of the tool and then indexing the punch in millionths increments to achieve the required shape. It improves the lubrication-retaining characteristics of the ridges.

SheerPerfection™ Polish

Available alone or in combination with other surface finishes, our SheerPerfection polish will improve the finish of any punch by up to 4 microns. It's an ideal solution for forming applications to prevent marring resulting from running metal against metal. Couple this finish with any of our coatings for a punch that will be the ultimate in galling resistance. SheerPerfection polish is also available on extrusion dies and other internal features.

STRENGTH THAT CAN'T BE BEATEN

Our state-of-the-art CNC manufacturing process and proprietary tool steels create punches with a level of durability and precision unmatched by similar products.

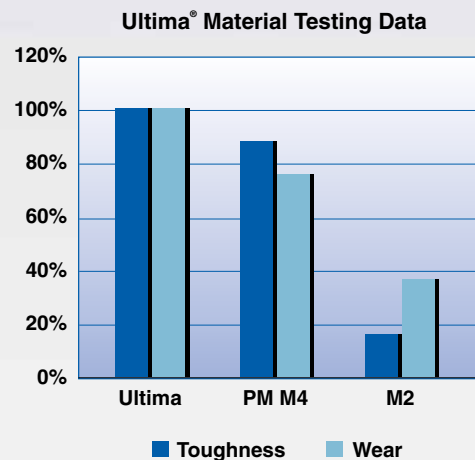
M2 tool steel is standard on all Imperial headed punches while M4 tool steel is standard on Metric headed punches as well as Ball-Lock tooling. 3V and 10V performance tool steels are also available for the most demanding applications.

Every Xtreme punch is manufactured using Wilson Tool's patent pending Ultima® tool steel, which is specially formulated to increase performance and wear resistance. No matter how tough your application, our Xtreme punches will continue to deliver precise, reliable results hit after hit.

In side by side testing, Wilson Tool's Ultima tool steel demonstrated superior performance over the other materials normally used in tough applications.

Ultima demonstrated 86% more toughness than M2 and 11% over PM M4.

Ultima demonstrated 64% greater wear resistance than M2 and 25% greater than PM M4.



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