

COATINGS FOR ULTIMATE PUNCH LIFE

Commitment to Superior Coatings

Coating technology can boost tooling performance to levels far beyond that of untreated tool steels. For years, the Impax Tooling Solutions® division of Wilson Tool International has been a leader in providing innovative coatings engineered to help stampers achieve higher levels of performance. We were the first and only punch manufacturer to bring coatings in-house, allowing us to control the process and shorten the lead-time.

Optima® was our first proprietary coating developed in our state-of-the-art coating facility and it has set the industry standard for many years. We have continued to expand our offerings by adding and improving coatings so we can offer you the very latest in coating solutions.

Expert Consultation

We are here to work with you to create the perfect combination of tool steel, coatings and surface finish for your application. Whether your challenge is piercing modern high strength steels, reduced or eliminated stock lubrication, or just a high volume job, we have a solution for you.

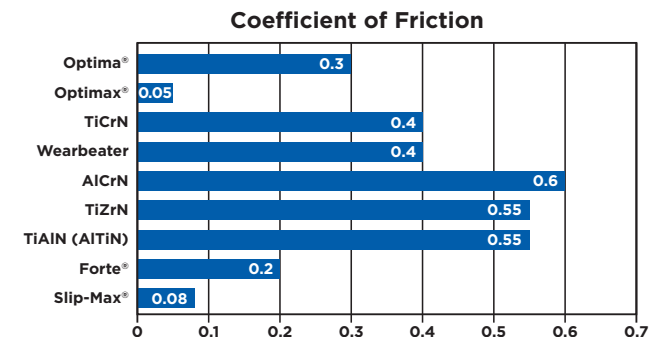
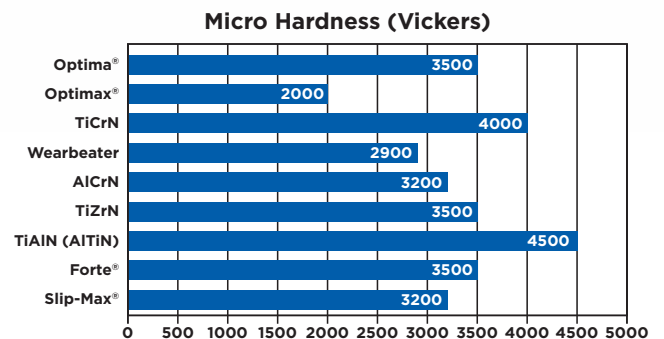
You can rely on our many years of experience to help you select the proper coating to improve tool life and reduce downtime, and ultimately lower your costs. Our team of sales engineers and tooling technicians are focused on providing solutions tailored to your specific needs.

Quality Tooling










No matter how exceptional a coating is, you need to pair it with a high-quality punch to achieve superior results. Coatings work best with a higher quality surface finish and back taper, which is standard on all of our punches. With Wilson Tool, you can count on precision tooling made with the highest-quality tool steel, including Ultima® M4 — the best combination of toughness and wear-resistance in the industry.

Get More with Coating Technology

With longer tool life, more hits between sharpening and less material adhesion, coatings reduce your downtime and improve your stamping performance.



COATING TECHNOLOGY

<p>Optima®</p> 	<p>Our most popular coating for piercing, blanking and trimming in a variety of applications.</p>	<ul style="list-style-type: none"> • Increased wear resistance • Improved surface finish • Greater resistance to corner breakdown • Much harder than traditional TiCN
<p>Optimax®</p> 	<p>A multi-layer coating with an Optima® base and a second layer of molybdenum disulfide. Works well in materials prone to galling, such as aluminum.</p>	<ul style="list-style-type: none"> • Increased wear resistance • Improved surface finish • Added lubricity for reduced galling • Greater resistance to corner breakdown
<p>Wearbeater</p> 	<p>Our first and original PVD coating. Commonly used for piercing, blanking and forming applications in softer materials such as mild steel, galvanized and aluminum.</p>	<ul style="list-style-type: none"> • Reduced galling • Increased tool life by at least 3-7 times over non-coated punches • Increased hardness and lubricity • Bright gold for easier visual identification
<p>TiCrN</p> 	<p>A nano layer coating that is suitable for piercing and especially for high pressure forming applications.</p>	<ul style="list-style-type: none"> • Very high hardness • Low friction resulting in galling resistance
<p>TiAlN (AlTiN)</p> 	<p>Performs best in high-heat applications such as stainless, high strength steel or ultra-high strength steels. At higher surface temperatures aluminum oxide is formed, enhancing the coating's performance.</p>	<ul style="list-style-type: none"> • Exceptionally hard coating • Not recommended for aluminum
<p>TiZrN</p> 	<p>Typical applications include piercing and forming of non-ferrous materials, including aluminum, copper and brass.</p>	<ul style="list-style-type: none"> • Improved wear resistance • Added toughness
<p>AlCrN</p> 	<p>A chromium composition results in a much tougher coating with added wear resistance. Well-suited for high impact applications.</p>	<ul style="list-style-type: none"> • Improved wear resistance • Not recommended for aluminum
<p>Forte®</p> 	<p>Our proprietary multi-layer nano coating is a great alternative to a chemical vapor deposition (CVD) coating. A lower application temperature retains original dimensions. Good for high-pressure applications and punching and forming for high and low alloy steel in all thicknesses.</p>	<ul style="list-style-type: none"> • Reduced tooling downtimes • Superior punch wear and edge breakdown performance • Polished steels retain full surface quality • Reduced galling • Excellent coating adhesion
<p>Slip-Max®</p> 	<p>This low friction, multi-layer coating transitions from PVD to PACVD uniformly in the same batch, creating excellent adhesion amongst the layers as well as to the substrate material.</p>	<ul style="list-style-type: none"> • Increased wear resistance • Greatly reduced material adhesion • Low friction, improved lubricity • Better material flow for forming • Excellent coating adhesion

For more information, visit wilsontool.com, call our tooling technicians at 800-944-4671 or contact your sales engineer.

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