

OPTIMIZE YOUR PUNCH PERFORMANCE

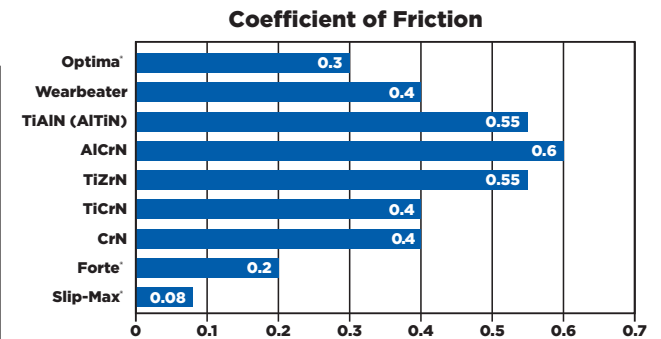
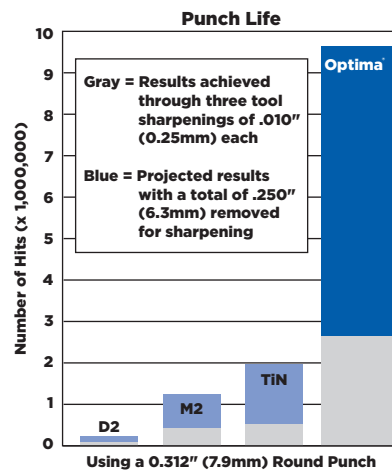
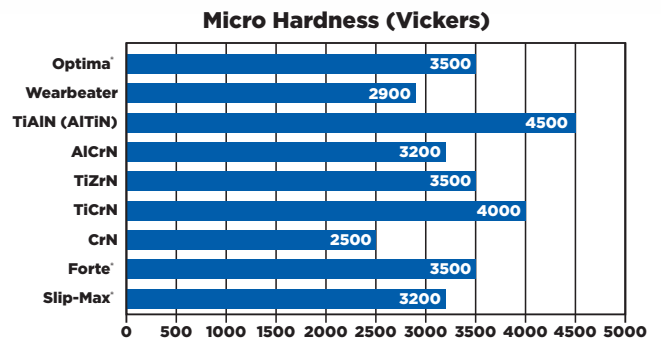
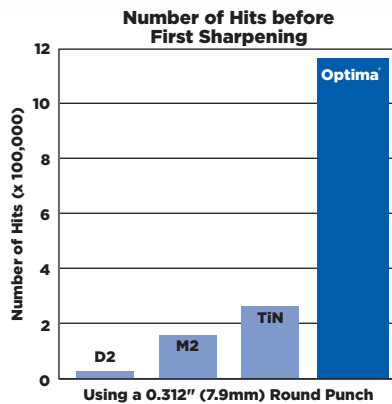
Experience Optima®, Wilson Tool International's proprietary coating technology that set the benchmark for tooling performance. Optima coating provides a surface hardness, wear resistance and lubricity superior to other coated or uncoated punches on the market.

Optima is a premium, custom-engineered, TiCN coating developed by Wilson Tool engineers to significantly enhance punch tooling performance. With a hardness of 3500 Vickers, Optima far exceeds the hardness levels that can be achieved with conventional tool steels.












Optima® Coating Features

- More Hits Between Sharpenings
- Reduced Adhesion (Galling)
- Improved Special Tooling Performance
- Increased Wear Resistance
- Reduced Slug Pulling
- Lower Overall Tooling Costs
- Longer Tool Life
- Reduced Corner Breakdown
- Less Downtime
- Faster Delivery and Higher Quality Control from In-House Coating Facilities



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>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>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>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>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>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>CrN</p>	<p>Performs well in high heat and corrosive applications with improved performance and reduced wear.</p>	<ul style="list-style-type: none"> • Improved wear resistance • High heat resistance • Increased chemical resistance
 <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 stamping solutions, visit us at wilsontool.com/stamping or contact our Tooling Technicians or your local Sales Engineer.

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