

COATING SOLUTIONS

SPECIALTY COATINGS SHIELD PUNCHES AGAINST WEAR.



Wear-Beater™

Wilson Tool's exclusive Wear-Beater 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.



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.

WHICH COATING IS BEST FOR YOUR APPLICATION?

The following table provides a matrix indicating which coatings apply to a variety of typical punching issues and ranks the coatings in order of **good**, **better** or **best** solution.

For example, if you have stripping problems when forming stainless steel, a good coating would be Wear-Beater™, a better solution would be Nitrex® and the best solution would be Slip-Max™.

| COATING RECOMMENDATION BY APPLICATION | | | | |
|---|--------------|----------|---------|-----------|
| | Good ● | Better ▲ | Best ★ | |
| Problem/Application | Wear-Beater™ | 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 | ● | | ▲ | ★ |

Get More from Your Punch Press Tooling with Coating Technology from Wilson Tool.

Increase tool life, get more hits between sharpenings, reduce galling, improve performance and decrease downtime with innovative coatings from Wilson Tool.

Call **1.800.328.9646** or visit **www.wilsontool.com** today to learn more.

