



CASE STUDY:

Improved Yields with PST versus Untreated Tools

BACKGROUND: In May of 2015, the engineers at our customer, a major producer of progressive die stamped parts based in the Northwest region, wanted to justify the cost of PST treatment to their management. They reasoned that even though there would be upfront costs with PST treatment versus leaving their stamping die tools untreated, the PST costs would be more than justified because of improved yields and savings on indirect costs because of less downtime.

The tooling material used was PM (A11), stamping product material of 201 full hard stainless steel pre-plated with nickel for a medical industry product application.

BOTTOMLINE: The engineers found that PST-treated tools produced over 8 times more than untreated tools, because PST increased the tool's resistance to heat checking, galling and wear. Along with the indirect cost savings, they were able to easily convince their management that the investment in PST was well worth the cost.

	Untreated Tool	PST-treated Tool
Overall Tooling Life	New tool needed after 120,000 pieces produced	New tool needed after more than 1,000,000 pieces produced
Tool Polishing Required	After every 20,000 pieces	None
Downtime per Tool Polishing	1 hour	None

More than 8.3 times pieces yield with PST treatment, plus no downtime for polishing during the entire production run

Contact us today to get your tools and components treated with PST. Our sales engineers will explain to you the PST Process and demonstrate PST's superior technology with an initial proof-of-concept application at only a nominal cost to you.