

Punch up your Profits

with High-Performance PVD Coatings

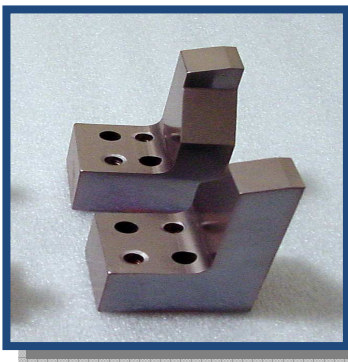
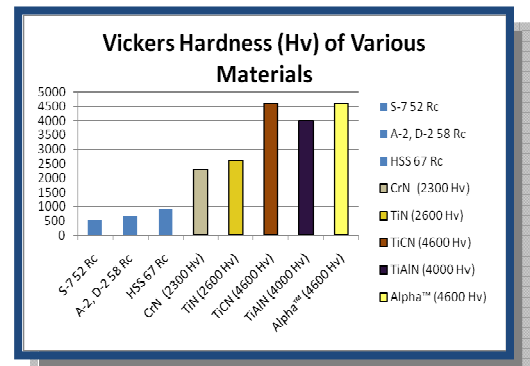
Putting a coating on your punches can increase your tool life by 6 to 10 times, or more.

Since coatings only cost 5 – 10 percent of what a new tool costs, every dollar (\$1.00) spent on coatings results in up to one hundred dollars (\$100.00) in additional tool life.

Coating Benefits Include:

- *6 – 10 x longer life over uncoated punches.*
- *Less material pick-up, cleaner holes.*
- *When sharpening is required, less material has to be removed, resulting in more sharpenings per tool.*
- *More up-time, all resulting in more profits.*

PVD coatings are much harder than the tool steels they are applied to (see chart at right). Because they are hard, inert and well adhered; they greatly reduce the friction and wear of punches, resulting in much longer tool life.



Alpha™ (top right picture) and TiCN (left) are the two premium coatings we offer for punching. They typically outlast TiN by two to four times due to their higher hardness.

By increasing tool life 6 to 10 times, or more, every dollar spent on coatings will put hundreds of dollars back into your pocket.

Optimize your tool life, give us a call today!

On a punch, most of the wear occurs on the side of the punch as it goes through the material and is then pulled back out. Since the coating remains on the side of the punch after sharpening, one gets 6 – 10 times the tool life every time the punch is resharpened.

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