

TOOL TYPEEmbossing Punch

WORK MATERIAL

Dual Phase HSLA (980 Mpa)

PROBLEM IDENTIFICATION

D2 punches failed prematurely because of excessive wear and chipping resulting in the need to produce 831 punches / year and excessive downtime on the press.

SOLUTION

Z-Tuff PM with TiCN PVD Coating at Rc 60

RESULTS

Reduction from 831 punches per year to 330 Z-Tuff PM punches for an annual savings of \$251,000. Additional increases in production resulted from higher uptime on the press. Z-Tuff PM was the perfect substrate for the TiCN coating based upon excellent impact resistance at Rc 60 in combination with good compressive strength.





TOOLING ALLOYS

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