

DYNAMIC
SURFACE TECHNOLOGIES

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**COST EFFECTIVE - WEAR RESISTANCE
REDUCE TOOL & DIE COSTS BY 50% OR
MORE**

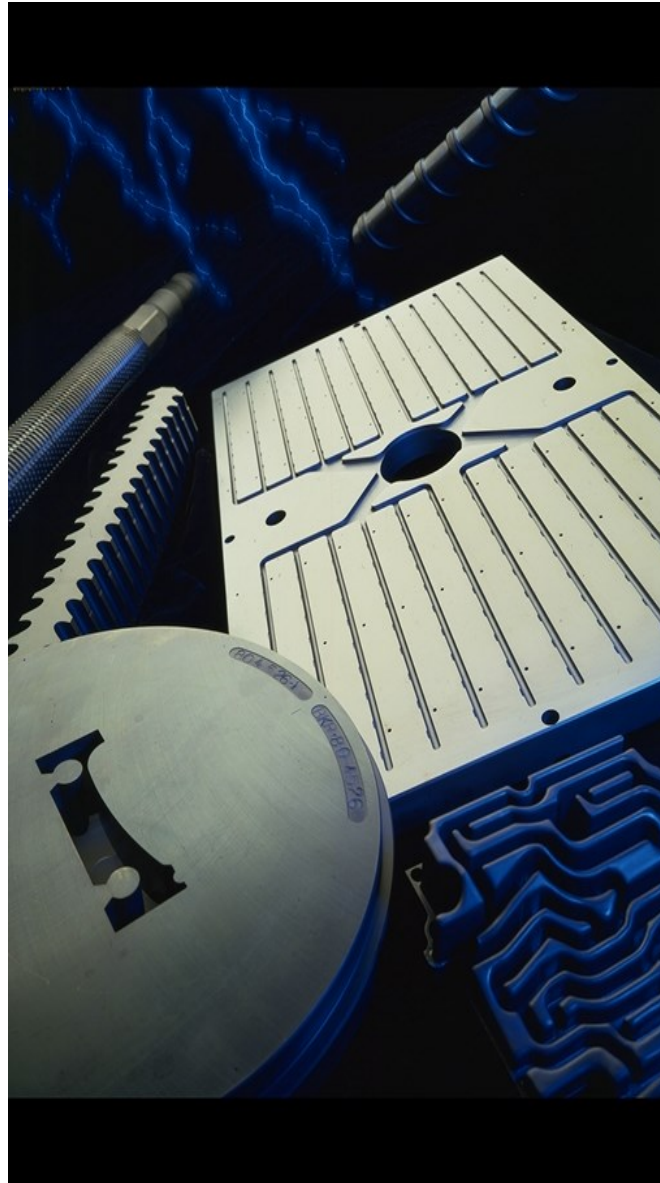
DYNA-BLUE PLUS™ is a low temperature (950 – 1050 °F) combination process incorporating fluidized bed Ferritic Nitrocarburizing plus a surface enhancement. A compound layer with hardness 75+ Rockwell "C" supported by a diffusion zone is produced in the base material.

DYNA-BLUE + PVD™ provides a hard PVD coating on top with a DYNA-BLUE® process diffused into the steel, which provides additional support and wear resistance. Another benefit is the excellent release properties and formability due to the PVD coating on the surface

**Call us today to
dramatically reduce downtime,
maintenance, and increase part quality
and tool performance with**

DYNA-BLUE®

**Increase your "return on investment"
by increasing Tool Life up to 10 times
longer or with **DYNA-BLUE PLUS™** or
DYNA-BLUE + PVD™**



"In God We Trust"

Hot & Cold Stamping

Benefits

- RESISTS WEAR, EROSION, & GALLING
- PROCESS IS DIFFUSED INTO THE STEEL SO THERE IS NO FLAKING, PEELING, CHIPPING
- INCREASES RESISTANCE TO MECHANICAL & THERMAL FATIGUE
- PROCESS DOES NOT SOFTEN EVEN AT ELEVATED TEMPERATURES
- INCREASED LUBRICITY LOWER CO-EFFICIENT OF FRICTION
- INCREASED RELEASE PROPERTIES & FORMABILITY
- LOW DIMENSIONAL VARIATION .0001"-.0002"/SIDE
- ANTI-GALLING & ANTI- STICKING PROPERTIES
- REDUCED BUILDUP
- MAINTAINS EXCELLENT MICROFINISHES
- BETTER WELDABILITY THAN ION/ GAS NITRIDE
- **DYNA-BLUE PLUS™** PROCESS IS UNIFORM EVEN IN DEEP HOLES, RIBS
- **DYNA-BLUE PLUS™** CAPACITY 77" X 120" UP TO 30,000 LBS.
- ISO 9001:2008 TUV RHEINLAND
- PARTNERSHIP WITH WILLIE HORTON INC FOR MINORITY CREDITS

PERFORMANCE TESTING

A tool performance study was done by a hot stamping facility on High Strength Steel to test performance of DYNA-BLUE +PVD as compared with a PVD Chromium Nitride process. The facility immediately reported that the scrap rate had dropped considerably due to better release with the DYNA-BLUE + PVD diffusion process than the CrN PVD Coating. This test revealed that the DST-Cr process had the greatest increase in tool life.