

Surface Treatment of Stamping Dies

“Ion Nitriding has far outperformed other surface treatments I’ve used. It has extended the life of my dies at least three-fold and has been a significant cost savings over the life of the die. I’ll never go back to chrome plating!”

~Automotive Representative, 20+ years stamping die experience with 4 Large OEM’s

UltraGlow® Ion Nitriding VS Chromium Plating

“Tools that are UltraGlow® Ion Nitrided can be used to form much stronger steels because they can endure higher contact stresses during metal forming.”

Dr. Edward Rolinski, "Dr. Glow" DrEng, Dr-habil, VP technology, has authored and coauthored over 50 publications and two books related to the heat treat industry. Dr. Glow has conducted extensive research on UltraGlow® Ion Nitriding of Stamping Dies



Press-ready polish; no additional surface preparation needed; thermo cleaning is done outside nitriding vessel = time savings.



HUGE cost savings opportunity, as only one treatment is needed over the life of the die.



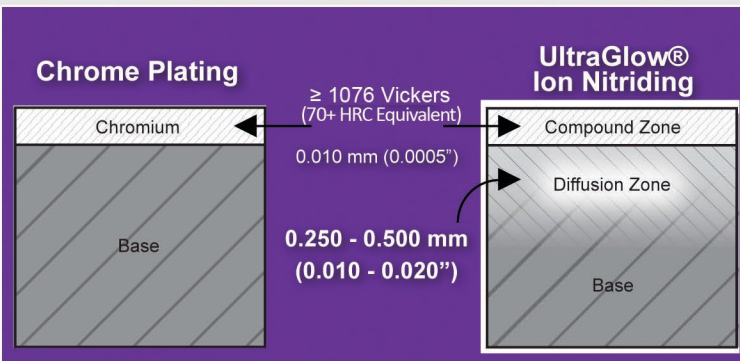
Customer support is only a call away. Our Stamping/Forming Project Manager has over 30 years experience in the automotive industry.



The entire process of UltraGlow® Ion Nitriding is environmentally friendly, whereas the use of hexavalent chrome is toxic.



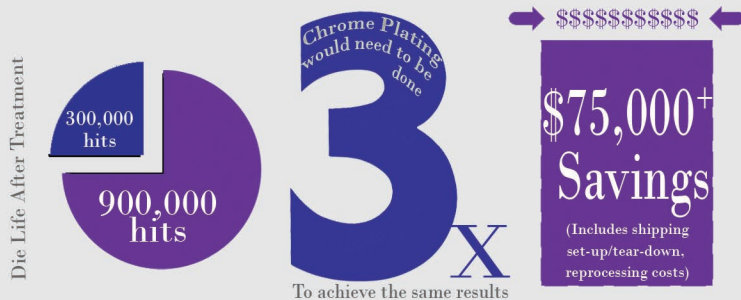
UltraGlow® Ion Nitriding provides both a compound zone and diffusion zone. The diffusion zone supports the compound zone, increasing durability/toughness while blending hardness into the base material.



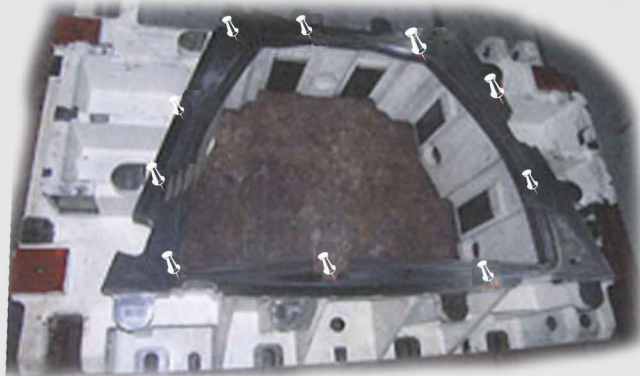
UltraGlow® Ion Nitriding significantly enhances the endurance of the die by eliminating adhesion of the sheet steel product to the actual die.



- Chrome Plating requires a de-chrome and then re-chrome of the surface.
- Ion nitrided surfaces can easily be stoned and welded without grinding or any surface alterations.



Ion Nitriding Surface Hardness Inspection Points Performed on Every Die



More and more auto companies are turning to Ion Nitriding.



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