

THE ULTIMATE PROTECTION AGAINST WEAR, CORROSION & HEAT CHECKING FOR DIE CAST TOOLING!

DYNA-BLUE PLUS™

THE DYNA-BLUE PLUS PROCESS IS A DUPLEX PROCESS THAT INCORPORATES A LOW TEMPERATURE (950 – 1050 °F) FLUIDIZED BED FERRITIC NITROCARBURIZING PROCESS AND A SURFACE ENHANCEMENT (IMPROVED SURFACE FINISH) TO IMPROVE MATERIAL FLOW AND RELEASE PROPERTIES. A COMPOUND LAYER WITH VICKERS HARDNESS UP TO 1880 (75+ ROCKWELL “C”) SUPPORTED BY A DIFFUSION ZONE IS PRODUCED IN THE BASE MATERIAL. DYNA-BLUE PLUS IS UNIFORM ON ALL SURFACES AND PENETRATES BORES, HOLES, RIBS AND IS NOT LINE OF SIGHT LIKE PVD COATINGS!!!

COMPARE DYNA-BLUE PLUS TO OTHER SURFACE TREATMENTS

DYNA-BLUE PLUS OUTLASTS CHROMIUM NITRIDE COATINGS AND ION/GAS NITRIDING BY 3-10 TIMES. WEAR TESTS HAVE SHOWN DYNA-BLUE PLUS TO RESIST WEAR, SOLDERING, EROSION, HEAT CHECKING AND ATTACK FROM ALUMINUM BETTER THAN OTHER SURFACE TREATMENTS AND COATINGS DUE TO THE HARD 75+”C” COMPOUND ZONE THAT OTHER SURFACE TREATMENTS DON’T HAVE.

CUSTOMERS COMMENTS

“DYNA-BLUE PLUS HAS REJUVENATED OUR USED DIES AND GREATLY REDUCED SOLDERING AND EROSION EVEN AT END GATE AREAS!!! IT GAVE NEW LIFE TO A USED DIE SO I COULD MAKE IT THRU THE PRODUCTION SCHEDULE, IT REALLY SAVED US”

“DYNA-BLUE PLUS IS THE ONLY PROCESS I CAN TRUST ESPECIALLY ON OUR USED DIES, OTHER COATING COMPANIES WON’T TOUCH MY USED DIES. I CAN ALSO RE-APPLY DYNA-BLUE WHEN IT EVENTUALLY WEARS OFF AS PART OF MY MAINTENANCE SCHEDULE.”

DYNA-BLUE & DYNA-BLUE PLUS BENEFITS

- Resists wear, heat checking, erosion, soldering up to 10 times longer than cvd or pvd coatings
- Imparts high levels of Residual Compressive stress to increase fatigue resistance
- Diffused into the steel and is not a coating that can flake or peel off
- Weldable - does not need to be stripped for design changes
- Dimensionally stable-low process temperature
- Better release than PVD & CVD coatings
- DYNA-BLUE & DYNA-BLUE PLUS capacity
77” x 120” or 30,000lbs

DYNA-BLUE®

ISO 9001:2008 ACCREDITED

APPROVED BY AEROSPACE & FDA

TIER 1 SUPPLIER TO AUTOMOTIVE, DEFENSE & TOOLING
SERVING USA, CANADA AND AROUND THE WORLD!



DYNAMIC
SURFACE TECHNOLOGIES

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