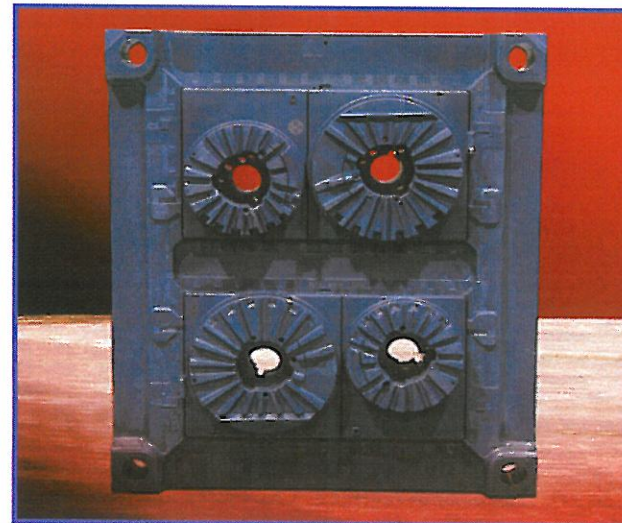
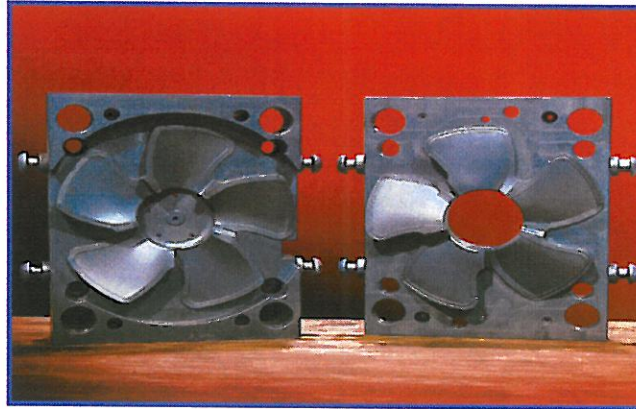




DYNAMIC
SURFACE TECHNOLOGIES

7784 Ronda drive
Canton, Mi 48187
Telephone 734-459-8022
Facsimile 734-459-7863
www.dynablue.com

Increase your "return on investment" by increasing tool life up to 10 times longer than gas/ ion nitriding or chrome with **DYNA-BLUE®** "guaranteed"!!!



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

DYNA-BLUE® is a low temperature (900 – 1200 °F) combination process incorporating fluidized bed Ferritic Nitrocarburizing and a Blue Oxide layer. A compound layer with a Vickers hardness up to 1880 (75+ Rockwell "C") supported by a diffusion zone is produced in the base material. The surface has a blue oxide layer that resists corrosion and will assist in mold release retention and wear resistance. **DYNA-BLUE®** resists erosion and abrasion 2 -3 times longer than ion/gas nitriding, chrome and/or nickel plating in plastic molding applications where glass and mineral fillers are added. The process prevents hot hydro / fluorocarbons from attacking the base material. When test coupons were subjected to a salt and humidity chamber and tested per ASTM B-117, **DYNA-BLUE®** performed better than stainless steel for corrosion resistance. **NITROWEAR® M**, a combination of **DYNA-BLUE®** with a proprietary dry film lubricant, has demonstrated up to 1000 hours of corrosion resistance.

Call us today for a "free trial run" to dramatically reduce downtime and maintenance, increase part quality and tool performance with

Benefits

- Resists wear from glass filled plastics up to 10 times longer than Ion Nitride.
- Resists attack from harsh environments such as PVC
- High wear and corrosion resistance
- Co-efficient of friction as low as .03
- Low dimensional variation (1µm - 5µm)⁽¹⁾
- Anti-galling & anti-sticking properties
- Maintains excellent microfinishes
- Better weldability than ion/gas nitride
- Enhance parting line durability
- Capacity 42" x 134"
- **New Furnace: 75" x 100" up to 10 tons**
- Overnight service available
- ISO 9001:2000 Accredited, Eagle Registrars
- Tier 1 Supplier
- Approved by Aerospace and FDA
- Meets GM, Ford & DaimlerChrysler specifications
- Vacuum approved per GM's DC 9999, Rev 18 and Ford's AMTD 2010



Incoming Material Requirements

Materials: All ferrous metal such as P-20, All H-series, A-series, D-series, S-series, M-series, stainless steels, cast irons, low, medium and micro alloyed steels are suitable for **DYNA-BLUE®**. **If High Hard P-20 is used it must be noted on incoming paperwork, as a special cycle is required.**

Pre-heat Treatments: To insure dimensional stability, it is recommended that the mold or mold component be tempered or stress relieved at 975 ° F or higher. Talk to a DMT Account Manager about your application requirements.

Surface Condition: Parts or components submitted for **DYNA-BLUE®** should be finished machined and ready to be put into service. Dies or molds should be free of rust, burrs, grinding burns, glue, paint, plating,, etc.

**** If Non-Water Soluble Oils are used it should be noted on incoming paperwork and accompanied by an MSDS. High gloss levels and Class A surface finish may require a pre and post polishing operation.**