

# New DYNA-BLUE®

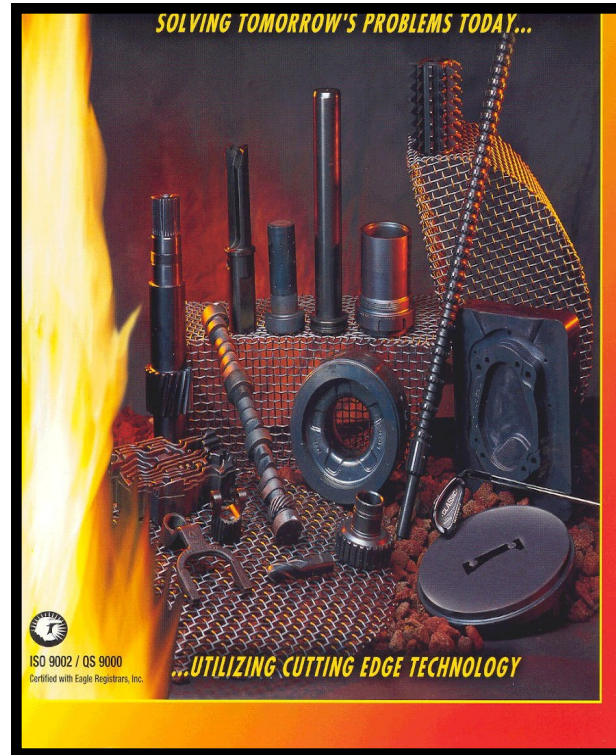
## 3D Process

**“Less Cost-Equivalent  
Quality”**

Dynamic Metal Treating has been an industry leader for cost effective solutions to wear, thermal fatigue, heat checking, and corrosion. Historically, the DYNA-BLUE® 5A has been used successfully on H-11, H-13, and M-2. to dramatically improve tool life of Hot Form Tooling. Due to significant new technology, there is now a more cost effective solution called the 3D process. The absorption of the nitrogen and carbon is much faster, which shortens the cycle times and is therefore much less cost than the 5A process, with identical case depth.

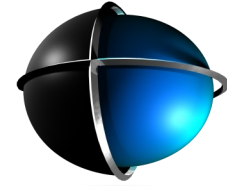


75+ HRC compound layer (white)  
with nitrogen diffusion layer



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REDUCE COST  
INCREASE  
TOOL LIFE 2-  
10 TIMES MORE  
THAN ION/GAS  
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### Benefits of DYNA-BLUE

- 2-10 times increase in tool life due to 75+ HRC compound layer compared to 60-65HRC diffusion zone for Ion Nitride.
- Compound zone resists heat checking, thermal fatigue, soldering and wear.
- Reduces coefficient of friction.
- Penetrates holes, bores (Ion Nitride does not) Ion Nitride is “line of sight”.
- Better surface finish than Ion Nitriding
- Overnight turnaround
- Oxide layer that retains lubricants, enhances corrosion resistance and promotes material free flow.
- More uniform heating, less risk of distortion