Increase your “return on investment” by increasing Tool Life up to 10 times longer than gas/ion nitriding with **DYNA-BLUE®**

**Benefits**
- 75+ HRC SURFACE RESISTS WEAR, HEAT CHECKING, THERMAL FATIGUE UP TO 10 TIMES LONGER THAN ION/GAS NITRIDING
- PENETRATES HOLES, POCKETS, DEEP RIBS-NOT LINE OF SIGHT LIKE NITRIDING
- REDUCED COEFFICIENT OF FRICTION=BETTER MATERIAL FLOW & BETTER RELEASE
- PROCESS IS DIFFUSED INTO THE STEEL SO THERE IS NO FLAKING, PEELING, CHIPPING
- DECREASES MECHANICAL & THERMAL FATIGUE
- PROCESS DOES NOT SOFTEN EVEN AT ELEVATED TEMPERATURES
- LOW TEMPERATURE PROCESS-DIMENSIONALLY STABLE
- MAINTAINS EXCELLENT MICROFINISHES
- BETTER WELDABILITY THAN ION/GAS NITRIDE
- SURFACE CAN BE REMACHINED OR RESUNK
- CAPACITY 77” X 120” UP TO 30,000 LBS.
- FAST TURNAROUND: 1-2 DAYS
- ISO 9001:2008 TUV RHEINLAND
- TIER 1 SUPPLIER TO THE AUTOMOTIVE, DEFENSE AND TOOLING INDUSTRIES

**Tool Performance**
A Tool Performance Study was done on a Warm Form Gear Punch Operation. The Dies were typically treated using a Nitride process which yielded 10,000 pieces before the die was unusable (CPU $0.21 each). With the DYNA-BLUE process the parts produced were on average 25,732 pcs. with a cost per unit of $0.063.

<table>
<thead>
<tr>
<th>Standard parts produced</th>
<th>DYNA-BLUE</th>
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<tr>
<td>10,000 pcs.</td>
<td>25,732 pcs.</td>
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<tr>
<td>CPU $0.21 each</td>
<td>CPU $0.063 ea.</td>
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