

10 Tips for When to Use Gas Nitriding



With the variety of surface treatments available today, it can get confusing trying to decide which one is best for your application. Gas nitriding is becoming more and more popular since it is environmentally-friendly, while also offering significant benefits.

Choose Gas Nitriding When:

1. 100% nitride coverage of parts is needed
2. Higher volumes need to be processed
3. Small parts are being used
4. Complex geometries are an issue
5. Corrosion resistance is required (AHT's trademarked UltraOx[®] process provides 240+ hours per ASTM B117)
6. Deeper compound zones are required (for highly abrasive applications, sliding wear corrosion resistance, oil retention)
7. Limited compound zones are required (Automated Gaseous Nitriding Controlled by Nitriding Potential, per AMS 2759/10A)
8. K_N control is critical
9. Controlling porosity within the compound zone is important (Gaseous Nitrocarburizing, Automatically Controlled by Potentials per AMS 2759/12)
10. Clean parts are needed — no residue that needs to be cleaned off, as with Salt Bath Nitriding/QPQ

AHT Gas Capabilities

- 160" in diameter
- 360" in length
- 60,000 lbs. in weight

Gas Nitriding is offered in Iowa, Alabama and Michigan.
Visit www.ahtcorp.com or contact your AHT representative to learn more.