

Ipsen Success!

Specialty Steel Treating provides precision heat treating services to the aerospace, automotive, heavy truck, tool and die, and medical industries. We have built our reputation by combining skilled employees, the latest technology, and proven efficient processes. Our customers confidently rely on our state-of-the-art technology and accuracy in the heat treat process.

The Ipsen Vac-Carb retro-fit has given us the capability to vacuum carburize. We have processed a dozen aerospace components so far. All case depth ranges targeted were achieved within .001-.002”.

A critical issue that has been resolved is processing CBS50-Nil material. Parts are vacuum carburized, then require an austenitize temperature of 2025°F, the old practice gas carburize then vacuum harden yielded very low case hardness and the potential for decarb at the surface. Rework rate was very high. With the Vac-Carb upgrade we now can process these components with a 0 rework rate. Having the capability to boost diffuse on the way to 2025°F maintains the carbon at the surface and yields a 58-60 HRC case hardness, where-as the old process only produced 55-57 HRC at the surface.

For further information on the Vac-Carb process contact Ipsen at 815-332-4941 or at sales@abaripsen.com

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