



BLAC-TRIDE™ TECHNOLOGY

Appearance, Wear Resistance & Corrosion Protection

WHAT IS BLAC-TRIDE™?

General Description

When a component is first nitrided or nitrocarburized, and then subjected to post-process oxidation, we call the technique “blac-triding”, hence Blac-Tride™. Nitriding and nitrocarburizing processes that are included under the trademark are described in our companion brochures under such titles as: Nitreg®, Nitreg®-S and Nitreg®-C.

Our Blac-Tride™ technology can be used on almost all ferrous alloys:

- carbon steels
- alloys steels
- stainless steels
- cast irons
- cast steels

Please contact us right away if you are not quite sure if your material can be treated.

WHY BLAC-TRIDE™?

Reasons to Use

The benefits of using a Blac-Tride™ process are improved wear, increased corrosion resistance or attractive appearance, and usually some combination of all three.

We also offer a process called ONC® which is a different method of achieving similar results, and is particularly suited for large batches of parts or very large components. It is described in a companion brochure.

How does one know which of the two should be used? We can guide you through the selection process but the differences are really small, and the final decision will usually be based on part sizes and production batch volumes. There may also be slight variations in color tones, and that can only be evaluated by test on observation.

HOW IS IT DONE?

Equipment & Process

Depending on the material and your specifications, the parts will be nitrided or nitrocarburized first, in one of our potential-controlled furnace systems. The parts are then submerged in vats containing proprietary liquid media that impart the final black finish on the parts. This step of the process utilizes the ability of certain chemicals to oxidize the nitrided layer. The baths are environmentally safe and all residue is removed before preparing the parts for delivery. The photographs below illustrate what the surface of the finished parts looks like.

TYPICAL APPLICATIONS

Products, Products, Products...

Your imagination is the limit on the variety of products that can be Blac-Tride™'ed: brake discs, shafts, screws, firearm components, sporting goods, components of all sorts of mechanical systems, tools, and many more.



Anything that may wear or corrode can be considered, and the beautiful appearance is either a bonus, or even a requirement of the marketplace.