

Cost-saving part treatment improves performance, fuel economy, and service life for performance vehicles.

Performance cars, trucks, boats, airplanes and commercial equipment will all benefit by having critical components treated with the CryoPlus process. Engines deliver improved compression, fuel economy, and increased horsepower. At the same time, engine heads are less prone to cracking, engine vibration is reduced, and oil blow-by is reduced. Components are less prone to high-temperature operation problems—heads stay flat, components don't warp or distort, brake rotors last 40% longer, cylinders and pistons retain their shapes, allowing for better ring seal.

Why have CryoPlus treat your parts?

- · Increased durability
- Dramatically improved performance
- · Improved fuel economy, increased horsepower
- Tighter tolerances on all of the engine specs
- Engines can run hotter without adverse effects
- Process releases stress and stabilizes metal
- Longer service life between re-builds
- · Reduced cylinder, piston, and ring wear
- Eliminates engine component warping and distortion

Here's proof: CryoPlus treatment extends tool life, reduces production time, and saves money.

"Brake rotors require careful break-in and go through a stage where they warp and knock the pads, giving a poor pedal for a few laps. CryoPlustreated rotors don't go through any of this. There is no surface cracking or crazing."

Pat Smith, Dyson Racing Team Inc.
Poughkeepsie, NY

"The proof is in the starting. With cryo-treated parts, motors start quicker, spark plugs don't foul out anymore, and I get better gas mileage, too. I haven't changed spark plugs in six races, which is unheard of! And instead of changing valve springs every 400 laps—now it's 1000 laps. With CryoPlus, my motorcycle performs better than ever!"

Roy Hostetter, Hoss Cycle Ashland, OH

"I used to have to adjust my Yamaha motorcycle chain after the first run because it would stretch. After cryo-treatment, the chains don't stretch at all, and the treatment also keeps cam chains from breaking. I haven't broken a chain since I started cryo-treating all of my parts."

Lloyd Meeks, Meeks Racing 1995 Top Gas Winner Akron, OH



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Crvo-treat Your Parts for Unmatched Performance



Motorsports & Automotive

Cryogenic treatment dramatically improves engine and part performance and service life.



What is Cryogenic Treatment?

Cryogenic tempering of automotive parts is a thermal treatment process that greatly improves the metal's physical characteristics. It is not a surface treatment: the entire mass is made stronger, more uniform, and more durable. Cryogenic treatment chambers utilize computer-controlled processors to chill metal parts to -300oF a prescribed duration—a process known as "cold soaking." The chamber then returns the parts to ambient temperature, after which they are heated to +300oF for a period of time.

Race car, snowmobile, airplane, boat, personal watercraft, go-cart...every high-performance engine will benefit from cryo-treatment. High-tolerance parts remain stable and resist distortion, blow-by is reduced, and horsepower is increased. After treatment, your performance engine will experience increased horsepower, torque, dimensional stability and overall performance, as well as reduced friction, heat, distortion, and breakage. Heads, pistons, connecting rods, and crankshafts will deliver significantly longer service lives and strength, resulting in reduced operating costs over the life of the engine.

Jump-start your performance with CryoPlus treatment for these parts, and more:

- Axles
- Brake Rotors
- Camshafts
- Clutch Plates
- Connecting Rods
- Crankshafts
- Cylinder Heads
- Cylinder Sleeves
- Engine Blocks
- Heads
- Lifters
- Piston Rings

- Pistons
- Planetary Gears
- Push Rods
- Rear End Gears
- Rocker Arms
- Spindles
- Transmission Gears
- Valve Springs
- Valves

CryoPlus: A Leader in Cryogenic Processing

CryoPlus, Inc., is recognized as one of the leading cryogenics service-providers in the industry. CryoPlus, was established in 1994 to provide cryogenic services for the woodworking, logging, metal-forming, stamping, tool and die, shearing, slitting, welding, punching, musical, shooting, and racing industries. CryoPlus treats a wide variety of materials, including ferrous and non-ferrous metals. alloys, and carbides.

CryoPlus uses a computerized, liquid-nitrogen cryogenics processor engineered for maximum performance and efficiency. Both the cooling and heating cycles take place in the same 8,000-poundcapacity chamber in a microprocessor-controlled batch process. Liquid nitrogen flows through a spray distribution system inside the chamber and is vaporized into an expanded gas. The circulation fan inside the chamber ensures proper heat transfer during the process.

CryoPlus Service

The CryoPlus treatment process takes approximately 36 hours. Materials received by Friday at noon are processed, repacked, and shipped out

on the following Monday. CryoPlus

is centrally located in Ohio for easy, cost-effective shipment of tools for treatment from throughout the country. Processing fees are based on the total weight of parts for treatment.

CryoPlus, Inc., is certified as a "Women's Business Enterprise" by WBENC (Women's Business Enterprise National Council).

CryoPlus Cryogenic Processing Applications

New or used parts may be treated.

Aluminum baseball bats

Bearings

Blocks

Blow molds

Brake rotors

Brass instruments

Broaches

Bucket teeth

Calendar knives

Cams

Chain saws

Chipper knives

Chopper blades

Circuit boards

Circular saws

Circular slitters

Connecting rods

Copper resistance welding caps

Crankshafts

Cultivator points

Drill bits

Electronic cables

End mills

Engines

Envelope dies

Extruder barrels & screws

Extruders

Feed screw tips

Forging dies

Gears

Golf club heads

Granulators

Gun barrels

Hammermills

Harrow blades

Hobs

Inboard jet pumps

Jordan knives

Kev cutters

Lathe knives Lavel dies

Lawn mower blades

Milling inserts

Pelletizer knives

Perforators

Pistons

Plow shears

Press dies

Progressive dies

Punch dies

Razor blades

Reamers

Rocker levers

Rod Pumps

Router bits

Saw Teeth

Sewing needles

Shear blades

Shredding screens

Shuttle bobbins

Sickle bars

Skate blades

Spades

Splicers

Tines

Vacuum tubes



