

How it Works

The Science Behind Rewitec Nanocoating Gear and Bearing Reconditioning

The innovative, award-winning Rewitec Nanocoating treatment contains a state-of-the-art blend of synthetic silicates that bond with metal surfaces upon contact. While your machine is fully-functioning, the Rewitec Nanocoating treatment:

- *blends with the existing lubricant in your equipment
- *transports the silicon compounds into the sub-surface layer of your machine
- *disburses the silicon compounds into your machine's worn, micro-pitted areas
- *utilizes the pressure, friction and high temperatures in your machine's gearboxes and engines to trigger the unique chemical bonding process that binds the Rewitec Nanocoating to your machines metal surfaces
- *as this binding occurs, the delicate nanoparticles strip the dirt from your machine's metal surfaces
- *the Rewitec Nanocoating now reacts with your newly cleaned metal surfaces to produce a fluid, protective uniformly graded layer

Far superior than just a coating, this uniformly graded layer produces flush transitional boundaries that resist spalling and cracking due to corrosion, physical and thermal stress. Additionally, under specific conditions, Rewitec Nanocoating has proven to exhibit an astonishing self-healing mechanism that:

- *fills in rough, micro-cracked and porous metal surfaces
- *restores your machine's optimal frictional capacities due to elevated lubricant saturation that consistently serves to promote continual gear reconditioning and bearing reconditioning
- *improves your machine's ability to withstand high temperatures and routine wear

Rewitec Nanocoating Gear and Bearing Reconditioning Versatility

The Rewitec Nanocoating can effectively recondition a vast array of materials, including:

- *steel
- *bronze
- *aluminum
- *babbitt

The Rewitec Nanocoating Advantage

Unlike other lubricating-only surface treatments, Rewitec Nanocoating only resurfaces a thin layer near your machine's surface. Therefore, this powerful product does not initiate any significant changes to the bulk material properties of the metal surfaces of your equipment. This high-yielding, low-modification component of Rewitec Nanocoating bearing and gear reconditioning:

- *boosts your machine's efficiency
- *can often double the lifespan of your machine

Rewitec Nanocoating: Your First Defense in Plant Preventive Maintenance

Although Rewitec Nanocoating is proven to renew worn and micro-pitted machinery, it can also be your first defense in plant preventive maintenance. Treating your new, indispensable machinery with this revolutionary graded layer can eliminate surface friction-related machine casualties before they ever occur. This in turn can:

- *increase your future productivity
- *safeguard your scheduled production time
- *ensure more confident business relationships

Find out today how Rewitec Nanocoating can protect your business's investment today. Our trained representatives are here to answer your product and treatment questions, and help you develop an individualized treatment plan for each of your new or existing machinery.

