



Win the Race with the ISF[®] Process

Surface Engineering Designed for the Motorsport Industry

About

REM Surface Engineering and the motorsports industry share a common goal – achieving a “winning” finish every time. Motorsports components operate at extreme speeds under high torque requirements. These parts experience extremely high temperatures and parasitic friction. These two conditions lead to over-heating, significant horsepower losses, and, ultimately, catastrophic metallurgical failure of interacting metal surfaces.

Motorsport Applications Utilizing The ISF Process

Formula 1 • NASCAR • Indy Racing • SCCA Racing
Open Wheel Cart Series • Torque Converter Components • Rack and Pinion Steering Components
Clutch Hardware • Vehicle Transmission Gears and Assorted Components • Vehicle Driveshaft Couplings and Universal Joints • Vehicle Camshafts • Tappets
Valve Springs • Rocker Arms

Why REM?

Applying REM’s revolutionary ISF Process to motorsport parts results in faster, more efficient vehicles that win races and parts that last considerably longer than standard components. The ISF Process creates a smooth, micro-textured surface that does not just withstand the harsh conditions generated in races, but also helps drivers to excel.



ISF Part Performance Benefits

- Increase Efficiency
- Increase Effective Horsepower
- Increase Power Density
- Increase Lambda Ratio
- Lower Operating Temperature
- Extend Component Life
- Reduce Friction
- Reduce Lubrication Requirements & Cost
- Reduce Metal Debris
- No Break-in Required

The Racing Industry Standard of Excellence, Insist on REM!

REM QMS is certified to ISO 9001:2015 & AS9100:2016 Rev D
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How REM's ISF® Process Can Benefit the Motorsport Industry

The Isotropic Superfinishing Process (ISF) is a surface finishing process that removes the surface asperities and stress concentrations created during the manufacturing process while generating a unique low friction surface. The result is an extremely smooth, stress free surface that possesses an optimal surface texture for lubricant performance. The ISF Process is highly controllable and accurate, and it has been proven through lab testing and years of field results to have no detrimental effects on component geometry or metallurgy.

The ISF surface has been proven in the motorsport industry to provide a low friction surface capable of increasing efficiency, increasing power density, optimizing conditions for multi grade oils by lowering the operating temperature, reducing noise and increasing the components surface durability.

Motorsport Components Utilizing REM's ISF® Process

- Axle Gears
- Bearings
- Camshafts
- Crankshafts
- Pinons
- Rocker Arms
- Springs
- Tappets
- Transmission Components



Before the ISF® Process



After the ISF® Process

Let REM Help You Today

- Complete Process Setup
- Simple Installation
- Low Capital Expenditure
- Job Shop Services Available



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