REM® Surface Engineering

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 Lamda 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!

www.remchem.com
All sites are ISO 9001:2015 and AS9100:2016 Rev D certified

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

- **Axel 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**

ISF is a registered trademark of REM Surface Engineering. All Rights Reserved.

REM Surface Engineering

REM Surface Engineering
325 W Queen Street
Southington, CT 06489 USA
Phone: (860) 621-6755
Fax: (860) 621-8822
Email: sales@remchem.com

REM Surface Engineering
2107 Longwood Drive
Brenham, TX 77833 USA
Phone: (979) 277-9703
Fax: (979) 277-0309
Email: sales@remchem.com

REM Surface Engineering
8912 Mississippi Street
Merrillville, IN 46410 USA
Phone: (860) 736-1477
Email: sales@remchem.com

REM Surface Engineering, Ltd.
Alington Road, Little Barford
Cambridgeshire PE19 6YH UK
Phone: +44 (0) 1480 210756
Fax: +44 (0) 1480 476339
Email: sales-eu@remchem.com

www.remchem.com
All sites are ISO 9001:2015 and AS9100:2016 Rev D certified