



Increase Performance and Optimize Power Transmission Design for Off-Highway

Why the ISF® Surface?

In the off-highway industry, equipment is often placed under severe loads in hostile environments. Due to the high torque requirements and the stop-and-go conditions typical of its operation, metal-to-metal components often experience premature wear and failure.



Fortunately, REM's ISF® Process solves this problem and more. The ISF Process increases component durability and helps keep industrial equipment running by reducing friction and increasing resistance to contact fatigue and bending fatigue amongst powertrain and metal to metal contact parts. Additionally the process increases component load carrying capacity (power density), thereby providing options for design optimization.

The ISF Process is capable of processing gears exceeding 10,000 lbs (4,500 kgs) and 75 inches (2 meters) in diameter. REM's gear refurbishment components can turn otherwise scrap components into better than new parts.



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Off-Highway Applications REM can assist with include:

- Earth-moving Equipment
- Backhoes
- Cement Trucks
- Mining Equipment
- Tractors
- Military Vehicles
- Bulldozers

Part Performance Benefits:

- Increase Power Density
- Increase Resistance to Contact Fatigue
- Increase Resistance to Bending Fatigue
- Increase Fuel Efficiency
- Lower Operating Costs
- Reduce Warranty/Maintenance Costs
- Reduce Lubrication Requirements & Cost
- Reduce Vibration and Noise
- Repair Used Gears by Refurbishment

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REM quality management system is certified to ISO 9001:2015 and AS9100:2016 Rev D

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