

Bulletin 1500

WASHGUARD® WASHDOWN DUTY PT PRODUCTS

Electric Motors
Gear Reducers
AC and DC Drives



ELECTRIC MOTORS
GEARMOTORS AND DRIVES





OHIO GEAR™

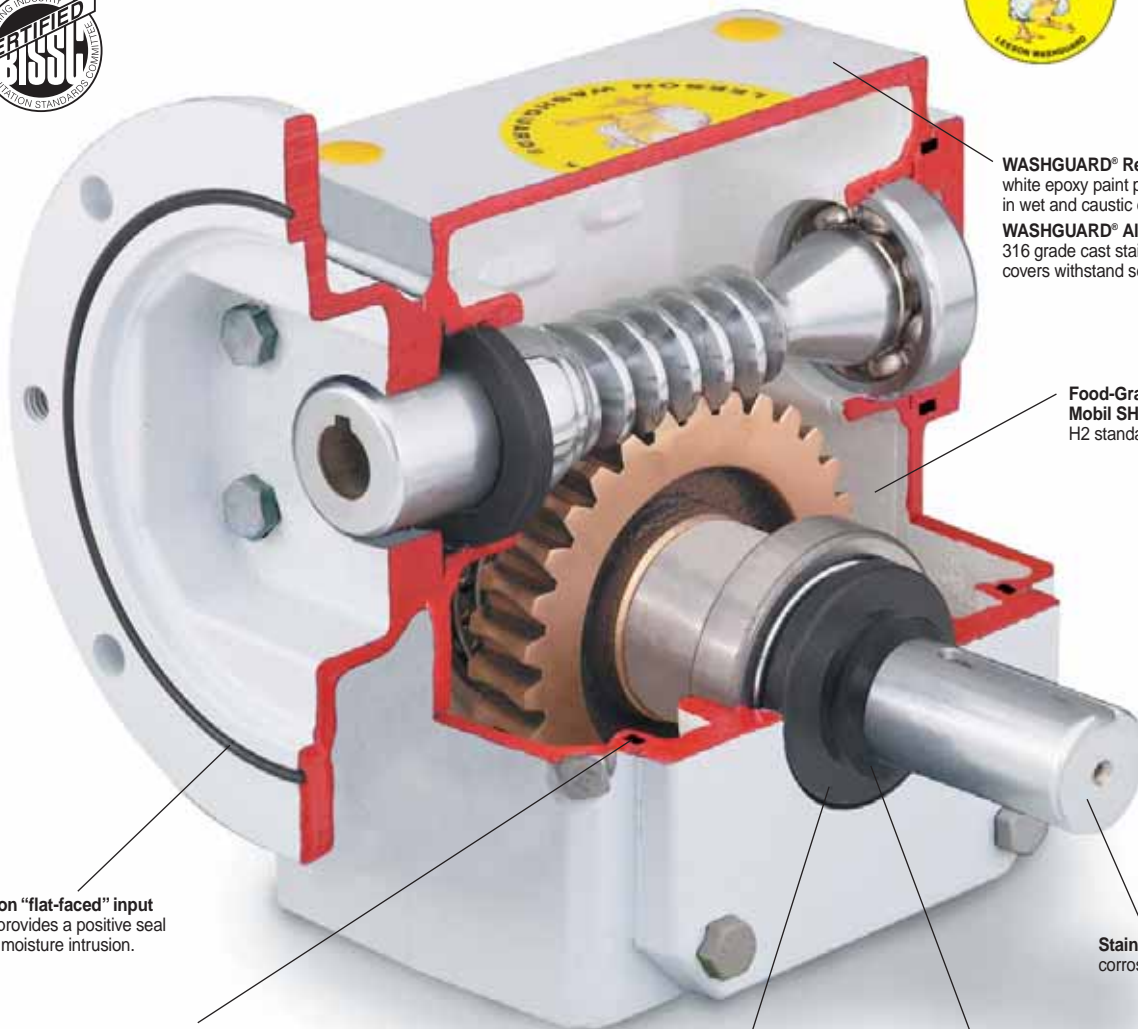
WASHGUARD® Gear Reducers Designed For Washdown Duty

WASHGUARD® & WASHGUARD® All-Stainless Gear Reducer Features

LEESON Washdown Duty gear reducers are designed and built to withstand the rigors of high-pressure washdowns in many applications, including: food service, chemical, poultry processing, car washes and more. Built on the foundation of LEESON's industrial-duty Ironman™ by Ohio Gear line, these reducers add exclusive WASHGUARD® or WASHGUARD® All-Stainless features to ensure trouble-free operation.

Combine the gear reducer with a LEESON WASHGUARD® or WASHGUARD® All-Stainless motor for a gearmotor that boasts an unmatched ability to thrive under conditions that would quickly destroy most other motors and gear reducers.

BISSC Certified – Bakery Industry
Sanitation Standards Committee



WASHGUARD® Reducers – food-grade white epoxy paint provides superior durability in wet and caustic environments.

WASHGUARD® All-Stainless Reducers – 316 grade cast stainless steel housing and covers withstand severe duty environments.

Food-Grade Synthetic Lubricant, Mobil SHC634, meets USDA Class H2 standards.

O-ring on "flat-faced" input flange provides a positive seal against moisture intrusion.

O-rings on input and output covers eliminate gaskets, sealants and leaks.

Stainless steel output shaft is corrosion resistant for long life.

Viton® double-lip seals are up to five times more durable than nitrile seals and provide added resistance to chemicals common in washdown applications.

Patented Forsheda V-ring on output shaft provides extra protection from high pressure water spray and other contaminants.

Enviroseal feature provides a vent-free and "sealed for life" design.



WASHGUARD® White Epoxy

Enhanced Performance in Wet, Humid Areas



- Our original moisture-shedding “Duck” motor
- Durable RUST-OLEUM® white epoxy coating
- Stainless steel shaft, conduit box cover, nameplate, fan guard
- Special gaskets, slingers and seals
- Four endshield drains
- Moisture-resistant interior components
- Inverter rated IRIS™ insulation system
- Single-phase, three-phase and DC SCR models
- NEMA and IEC metric frames in stock



WASHGUARD® II Paint-Free

Superior, Extended Life in Severe Environments



- Paint-free exterior — 300 series stainless frame, base, conduit box lid and fasteners
- Specially processed endshields and conduit box housing, qualified to withstand more than 2,500 hours of salt spray on external surfaces
- Etched stainless steel nameplate
- Proven WASHGUARD® mechanical and electrical features
- IRIS™ insulation system
- BISSC certified for baking industry



WASHGUARD® SST™ All-Stainless



Stainless Steel Tough for Demanding Washdown Applications



- All exterior components of 300 series stainless steel, including motor frame, endshield and conduit box castings
- Moisture resistant sealant between frame and endbells
- Full-fact nameplate is laser-etched on the motor frame
- Built to withstand the demanding washdown environments found in the food processing, chemical processing and beverage industries
- No paint or coatings of any type are used on the exterior of the motor
- Four locations for T-drains provided on each endshield
- IRIS™ insulation system

WASHGUARD® All-Stainless

Maximum Service in Critically Clean or Corrosive Environments



- All exterior components of 300 series stainless steel, including motor frame, endshield and conduit box castings
- Endshields o-ring sealed to frame
- IEEE 841 severe-duty features standard
- Meets demanding pharmaceutical requirements; also excellent for chemical-processing applications involving nitric acid and caustic lye
- Incorporates all WASHGUARD® mechanical and electrical features, plus IRIS™ insulation system
- BISSC certified
- Viton seals, gaskets, and o-rings
- Hydrophobic breathers



SPEEDMASTER® Washdown-Duty Drives

Micro Series WASHGUARD® inverters, 1/2 through 60 HP, offer these and more “big drive” features:

- Food-safe epoxy finish or stainless steel enclosure
- Rugged heavy-gauge NEMA 12, 4/12 or 4X (stainless) IP65 dust-tight, water-tight steel enclosure with barrier-type terminal strips
- Plain-English readout for ease of programming and operation
- Intelligent Power Module, advanced IGBT electronics
- Selectable carrier frequencies for optimized motor performance and quiet operation
- Single and three phase input models available
- 115/230, 200-240, 400-480 and 480-590 VAC versions – for 50Hz or 60Hz applications

SPEEDMASTER® DC SCR controls, fractional through 3 HP, provide straightforward, economical speed control with these features:

- Non-metallic NEMA 4X enclosures
- Precise 1% speed regulation
- Reversing and non-reversing versions available



Combine LEESON's NEMA 4/12 or 4X SPEEDMASTER® Micro Series inverters with food-safe white epoxy-coated or all-stainless WASHGUARD® motors and Gear+Motors™ for matched washdown-duty drive packages.

Packaged Solutions — A LEESON Specialty

Specially engineered washdown-duty motors and gearmotors are available from LEESON to meet specific application needs and wants. At our Design Center in Grafton, Wisconsin, collaborative engineering efforts come together to develop fast-track prototypes for customer evaluation. Then, flexible manufacturing processes allow production lots matched to OEM build schedules. Pictured are just a few of the many special WASHGUARD® motors, gear reducers and gearmotors we have developed to meet customer application requirements.



LEESON's flexible epoxy coating systems allow custom runs of WASHGUARD® and other severe-environment motors.



Parallel-shaft DC SCR adjustable speed drive gearmotor for food packaging machine.



Metric flanged (B14) motor for close-coupling of European gear reducer.



All-Stainless gear+motor packages for nearly any severe duty environment.



Electrically special stainless steel motor for seafood processing equipment.



NEMA C face, custom shaft motor for pump coupling.



Stainless hollow output shaft WASHGUARD® reducers for harsh duty applications.



Mechanically special WASHGUARD® motor for the poultry processing industry.



LEESON ELECTRIC

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REGAL-BELOIT is a worldwide manufacturer of mechanical and electrical motion control products.

