



A REGAL-BELOIT COMPANY



More Than Just a Motor Company



WASHGUARD

WASHDOWN DUTY PT PRODUCTS

ELECTRIC MOTORS, GEARMOTORS AND DRIVES

WASHGUARD WHITE EPOXY

Enhanced Performance in Wet, Humid Areas

White
Duck



- 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 Sub-FHP and IEC metric frames in stock

WASHGUARD ALL-STAINLESS

Maximum Service in Critically Clean or Corrosive Environments

**PREMIUM
STAINLESS
STEEL DUCK**



- 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
- NEMA, DC, JM Pump and Brakemotors available from stock



LEESON

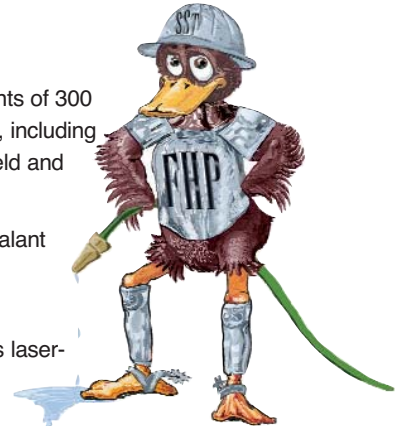
WASHGUARD SST ALL-STAINLESS



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



SST DUCK

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



Super Duck

WASHGUARD & WASHGUARD ALL-STAINLESS GEAR REDUCER

Designed and Built to Withstand the Rigors of High-Pressure Washdowns

LEESON Ironman™ by Ohio Gear 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.

Standard

- **WASHGUARD Reducers** – food-grade white epoxy paint provides superior durability in wet and caustic environments.
- **All-Stainless Reducers** – 316 grade cast stainless steel housing and covers withstand severe duty environments.

Features

- **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.
- **O-ring on “flat-faced” input flange** provides a positive seal against moisture intrusion.
- **Stainless steel output shaft** is corrosion resistant for long life.
- **O-rings on input and output covers** eliminate gaskets, sealants and leaks.
- **Food-Grade Synthetic Lubricant, Mobil SHC634**, meets USDA Class H2 standards.
- **Enviroseal** feature provides a vent-free and “sealed for life” design.
- **BISSC Certified** – Bakery Industry Sanitation Standards Committee (WBMQ & SBMQ Styles)
- **Bravo® & LeCENTRIC** Washdown products also available—refer to catalog 7050 for details



MICRO SERIES WASHGUARD INVERTERS

Delivering “Big Drive” Features



Combine LEESON's NEMA 4/12 or 4X SPEEDMASTER® Micro Series inverters with food-safe white epoxy-coated



Combine LEESON's NEMA 4/12 or 4X SPEEDMASTER® Micro Series inverters with food-safe all-stainless WASHGUARD® motors.

1/2 through 60 HP 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

Straightforward, Economical Speed Control



Combine LEESON's NEMA 4/12 or 4X SPEEDMASTER® Micro Series inverters with food-safe Gear+Motors™.

Fractional through 3 HP features:

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



PACKAGED SOLUTIONS – A LEESON SPECIALTY

Specially Engineered Products

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.



Bravo® reducers are available having washdown features.



Electrically special stainless steel motor for seafood processing equipment.



LeCENTRIC gearboxes are available with washdown features.



Mechanically special WASHGUARD motor for the poultry processing industry.



Hydraulic power supply motor with close-coupled pump and built-in momentary on-off switch.



NEMA C face, custom shaft motor for pump coupling.

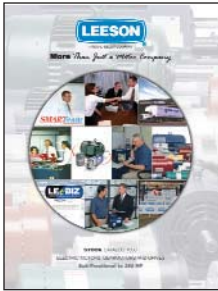


NEMA JM Pump motor with chemical resistant epoxy paint.



OTHER PRODUCT LITERATURE AVAILABLE

In addition to the information in this brochure, your LEESON distributor or local District Sales Office can provide additional literature, product support or application assistance.



Stock Catalog (Catalog 1050)
LEESON's 1050 Stock Catalog offers one of the widest off-the-shelf product offerings in the industry and includes nearly 4,000 stock motors, gearmotors, gear reducers and drives.



Aluminum Gear Reducers (Catalog 7050)
New line of industrial aluminum gear reducers with great advantages in terms of weight and efficiency. Designed for easy bolt-in replacement of popular brands such as SEW, Nord, David Brown and others.



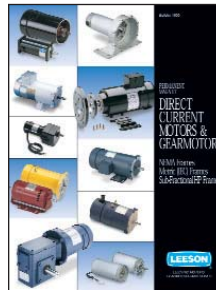
IRONMAN® Cast Iron Worm Gear Reducers (Catalog 8050)
Newly expanded catalog with comprehensive information on industrial-duty gear reducers. Both solid and hollow output shaft designs, in single or double reduction configurations.



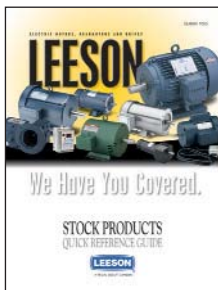
Sub-FHP Gearmotors (Bulletin 1830)
Range of sub-fractional HP AC and DC Gearmotors is reviewed. Both right-angle and parallel shaft models, 5 through 1112 in-lbs torque.



AC Inverter Drives (Bulletin 1400)
Full-feature, compact Inverter Drives in NEMA 1, NEMA 4/12 and NEMA 4X enclosures. "Big drive" control in extremely small package.



DC Motors & Gearmotors (Bulletin 1600)
Direct Current Motors and Gearmotors in both SCR Rated and Low Voltage designs. IEC (Metric), NEMA or Sub-FHP frames.



Stock Catalog Lite (Bulletin 1055)
A listing of the various products LEESON carries with brief technical references.



Basic Training Manual
An informative 80-page guide to electric motors including selection, application and maintenance of industrial electric motors.
Renewal Parts (Bulletin 1054)
Ordering information for the most popular stock motor renewal parts.

LEESON *More Than Just a Motor Company*



LEESON ELECTRIC
GRAFTON, WISCONSIN 53024-0241 U.S.A.
TEL (262)377-8810 FAX (262)377-9025 www.leeson.com

LEESON CANADA
TELEPHONE (905) 670-4770 FAX (905) 670-4378
MISSISSAUGA (TORONTO), ONTARIO L5T 2N7



A REGAL-BELOIT COMPANY