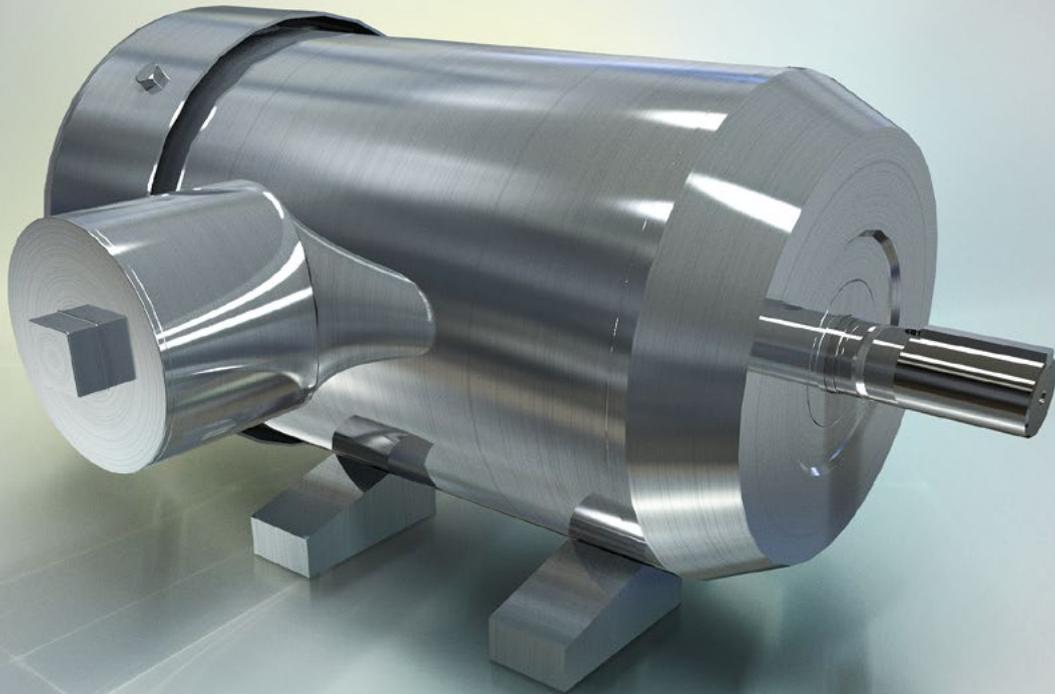




The original designer
and manufacturer of
unrivaled quality
stainless steel motors,
gearmotors and
gear reducers.



SANIFAN® MOTORS OFFER A PATENTED SANITARY DESIGN THAT REDUCES THE RISK OF HIDDEN CONTAMINATION UNDER THE FAN SHROUD.

The first

Founded in 1988, Stainless Motors created the first stainless steel washdown motor on the market.

Stainless steel is all we do; it is not a secondary line or an afterthought. Stainless Motors, Inc. invented the stainless steel electric motor and we remain the master of the art.

Stainless gear reducers, gearmotors, and flexible couplings were added soon afterward to satisfy the industry's growing demand for our stainless products.

Today, Stainless Motors continues to lead the industry with both best-in-class stainless steel products that perform in extreme conditions and cutting-edge, patented technology that mitigates contamination and risk of product recall.

A history of innovation...

1998

Round Junction Boxes Introduced /

Round design provides an integrated and reliable sanitary seal – no more pinched wires or missing fastening screws.

Company Founded /

Founder recognized market need during his tenure as R&D Manager at a pharma company. Roots in pharma and sanitary design.

First Stainless Gear Motors and Reducers /

With the availability of the sanitary stainless motor, the demand for sanitary gear reducers was immediate.

1988

1992

2002

First SBTs / Demand for higher horsepower/higher ratio/hollow bore gearmotors still the industry's pre-eminent design.

2008

Vertical Shaft-Up Motor Line / Addressing the most difficult washdown motor mounting orientation, Stainless Motors, Inc. introduced a unique, sanitary solution with unrivaled reliability.

2012

Sanifan® Motors / Patented Sanifan® Technology motors set the new standard for sanitary electric motor design.

2022

Pancake Motor / Stainless Motors, Inc. introduces industry's first sanitary stainless steel motors for restricted length applications.

400HP Water Cooled Motor / Responding to customer demand for sanitary design at much higher power levels, Stainless Motors, Inc. developed water cooled motors.

Stainless XP Motors / Stainless Motors, Inc. launches world's first sanitary, stainless steel, UL 674 listed motors for use in hazardous locations.

SM Windings / Capitalizing on our decades of experience with inverter-driven motor design challenges, SM offers its windings to the market.

2007

2009

2019

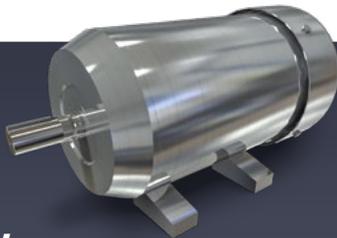
The nly

Patented Performance

Always leading the industry with innovation, Stainless Motors, Inc. is uniquely positioned with products years ahead of the competition. Often, we are the **only** manufacturer of critically needed stainless motors and gear reducers. Patented

Sanifan[®] Technology and our hazardous location (XP) motors clearly demonstrate our engineering and manufacturing superiority. Other examples of exclusive product offerings include our stainless brakemotors, stainless P-base motors, stainless D-flange, stainless water-cooled motors, stainless pancake motors, stainless mechanical shaft seals, stainless planetary reducers and our incomparable SBT series stainless gearmotors.

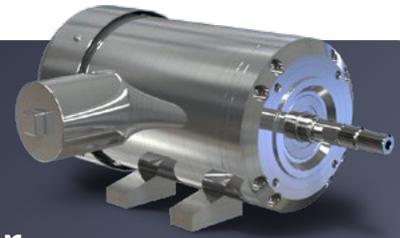
Sanifan[®] Technology



...

Sanitary design is where we excel; stainless steel alone doesn't make a motor sanitary, it's all in engineering that focuses on every groove, seam, nook and cranny. Founded on this principle, Stainless Motors, Inc. has decades of experience and know-how to design for sanitary and washdown conditions.

XP Motor



...

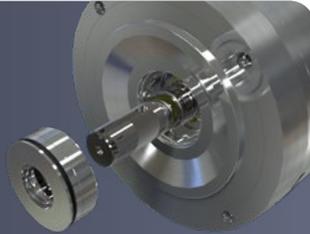
As the sole manufacturer of stainless hazardous location motors, our patented, inverter-rated XP Motors are approved for:

Class I, Division I, Groups C & D, T3B
Class II, Division I, Groups F & G, T3B
UL File # E321578

Seal

...

Shaft sealing is the Achilles Heel of motor washdown reliability. Our second generation, proprietary mechanical shaft seals are standard on both the drive end and the opposite drive end (DE and ODE). This seal provides unparalleled performance and reliability.



Pancake Motor

...

Where overall length is of critical importance, we offer pancake designs in numerous mounting and output shaft options. Typical applications are between 15 and 40 HP, with others possible.



P-base Motor

...

For unparalleled rigidity and vibration resistance with unbalanced shaft loads, such as long mixer or fan shafts, P-based motors provide unique benefits. Usually fitted with angular contact bearings, these motors also withstand high thrust loads.



Shaft Up Motor

...

This application presents a special challenge for washdown duty motors as any recess in the drive end housing will pool water and greatly increase the risk of water entry past the shaft seal. With Stainless Motors, Inc. optimized, tapered end-bell and an O-ring sealed rotating shield, we have eliminated a notorious sealing vulnerability.



Electric motors

Stainless Motors, Inc. has long offered the industry's widest selection of stainless steel, washdown duty motors.



MECHANICAL SPECIFICATIONS

- 1/2 – 500HP in both NEMA and IEC frames
- TENV & TEFC, both footed and footless
- Proprietary mechanical shaft seals
- High-strength 17-4 shaft
- Sealed by design, no drains required!



ELECTRICAL SPECIFICATIONS

- 2, 4, 6 and 8 pole
- All windings inverter-duty
- Minimum Class F-insulated
- Single and three-phase
- Global voltages and frequencies

Sanifan[®]

...



- All Sanifan[®] motors IP69K Protection
- Polished, stainless, crevice-free cooling fan
- Sanitary fan shroud mounting
- Junction box and feet smoothly TIG-welded
- Laser engraved name plate



Sanifan[®] PLUS

...



Electric motors are notoriously difficult to clean under the fan shroud. Sanifan[®] PLUS solves this dilemma by facilitating injection of cleaning solutions from the inside out. Sanifan[®] PLUS motors include all the sanitary features of the Sanifan[®] motor plus ...

- Patented spray ODE endbell
- Suitable for portable or direct CIP connection



FROM

1/2-60HP
AIR COOLED

TO

500HP
WATER COOLED

Sanitary Fan & Mounting
Crevice-free stainless fan. Sanitary fan shroud mounting.

Junction Box
Industry's first round junction box with sealed cover. NPT or metric thread conduit ports.

Motor Housing
#4 line finish with laser engraved nameplate.

Endbells
Fully machined, O-ring sealed, T304 or T316 stainless steel.

Shaft
Heat treated 17-4 stainless shaft. High strength and excellent corrosion resistance.

Foot Mounting
Smooth TIG welded foot mount available with through-hole or blind-tapped.

Gear reducers

Keeping Industry Moving

Only Stainless Motors, Inc. offers such an exceptionally diverse line of gear reducers. Our Sanifan® inspired designs provide the most sanitary, washdown tolerant units available anywhere. Combining power, ratio and efficiency, we have the reducer to match the application.



SBT

...

Our innovative SBT series of planetary / spiral-bevel gearmotors provide a highly efficient solution for high ratio, high power applications. The design combines our proven IL planetary series technology with a high-capacity spiral bevel gearset in a unique and exceptionally cleanable tubular housing. SBT units may be specified with either solid or hollow bore output shafts, and either horizontal or vertical output shaft orientations. SBTs are stackable for counter-rotating mixer/scrapper applications. All vertical output shaft models feature our Positive Pressure Lubrication System ensuring that all bearings and gears are well lubricated, even at very low speeds.

SPECIAL FEATURES

- Sanifan® Technology
- Unified sanitary design
- Sanitary shaft cover
- USDA H1 lubricant
- Solid output shaft or hollow bore available

WHEN TO USE

- Typical ratios: 3:1 through 120:1
- Available power: 5HP through 40HP

TYPICAL APPLICATIONS

- Tank mounted mixer drives
- Positive displacement pump drives
- Large conveyor drives

MOUNTING STYLES

- Flange
- C-Face
- Foot

Planetary Gear Reducer

...

Efficient and compact, our Inline Planetary Gearmotors feature polished 304 housings with sanitary foot mounts. GMP design is evident in the smooth, cylindrical shape and integral motor interface. All outer surfaces are fully machined and ground for a superior sanitary finish. Custom modifications such as a flange, C-face mount, or altered shaft dimension are readily produced. High ratio units feature unique compound gearing to produce very low output speeds with a compact reducer.



SPECIAL FEATURES

- Sanifan® Technology
- Unified sanitary design
- Extremely high ratios possible (1000:1 or more)
- USDA H1 lubricant

WHEN TO USE

- Typical ratios: 3:1 through 25:1
- Available power: 1/2HP through 40HP

TYPICAL APPLICATIONS

- Positive displacement pump drives
- Mixer drives
- Conveyor drives

MOUNTING STYLES

- Flange
- C-Face
- Foot

Right Angle Gear Reducer

...

Our Right Angle Drive Gear Reducers feature hardened and ground worms and aluminum-bronze worm gears for high capacity and long life. Gear boxes are machined to a sanitary #4 finish on all surfaces. Single, double and hollow bore output shafts are available with right-hand, left-hand and vertical assembly options. Larger RA gearboxes feature our Positive Pressure Lubrication System, ensuring that all bearings and gears are well lubricated even at very low speeds.



SPECIAL FEATURES

- Sanifan® Technology
- Compact design
- Solid output shaft or hollow bore available
- USDA H1 lubricant

WHEN TO USE

- Typical ratios: 5:1 through 60:1
- Available power: 1/2HP through 10HP

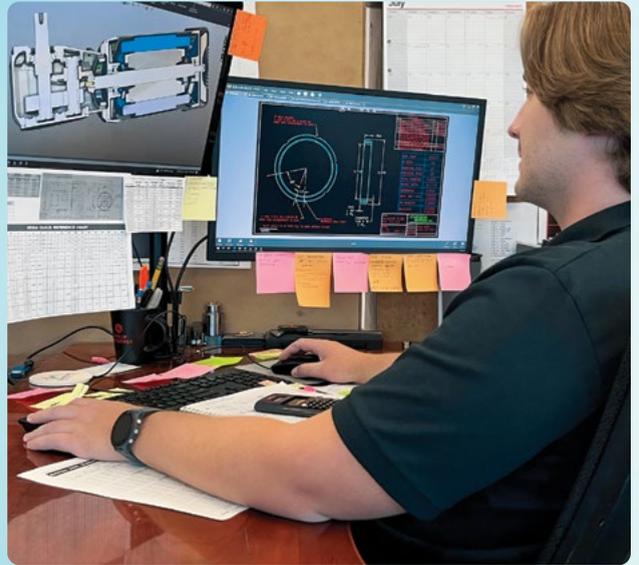
TYPICAL APPLICATIONS

- Conveyor drives
- Mixer drives
- Positive displacement pumps

MOUNTING STYLES

- Blind tapped mounting holes
- Optional flange mounting

The finest products



Start with Unrivaled Engineering

...

The finest products are conceived by the best engineers who thoroughly understand reliable, sanitary design. Stainless Motors, Inc. has successfully delivered solutions to a wide variety of applications, both within and well beyond our core food and pharmaceutical industry customers. One such example is our vertical shaft, water cooled, motor spinning so smoothly at 9,000 RPM that a nickel will stand on edge.

Marine application motors and gear reducers for use both above and below deck, are capable of reliably surviving mother nature's fury and environmental challenges. Stainless Motors, Inc. motors are even found driving pumps and hoists in nuclear applications where safety and reliability reign supreme. Our experience conquering the extremes is evident in all designs simple to complex.



Precision Manufacturing

...

Stainless Motors, Inc. manufacturing boasts the latest CNC machine tools found anywhere: 4-axis turning and machining centers, many fitted with custom features and controls to enhance productivity and accuracy. Turning, milling, gear cutting, welding, stamping, deep drawing, ceramic spraying and diamond grinding are all done on-site by our highly skilled technicians.



Exacting Assembly and Testing

...

Every motor and gearmotor is assembled and tested per documented procedures before leaving our factory. The Bill of Material together with the serial number and unit test data is retained in our MRP system; we know exactly what was shipped and its pre-delivery performance. Testing capabilities include inverter performance through 500HP, plus noise and vibration measurements.

We are sometimes asked...

“If you have the best product,
why don't you have the
longest warranty?”

— *It's simple.* —



WE WARRANTY EVERY MOTOR
AND GEAR REDUCER FOR

12 MONTHS

AGAINST DEFECTS IN MATERIALS
AND WORKMANSHIP.



WE DO NOT WARRANT THAT THE PRODUCT
WILL SURVIVE ANY APPLICATION
THE WORLD MAY THROW AT IT.

Should a product fail due to an application related issue, it wouldn't make sense to replace it with another identical unit that would be expected to fail again. Instead, this is what sets SMI apart:

SHOULD AN APPLICATION-RELATED FAILURE OCCUR, OUR ENGINEERS WILL IMMEDIATELY ATTEMPT TO DETERMINE THE CAUSE AND RECOMMEND A PRODUCT MODIFICATION TO RESOLVE THE ISSUE.

Customer satisfaction comes from working together to solve problems, not endlessly replacing failed products. Our ultimate mission is to provide products with a reliable service life meeting or exceeding customer expectations.

The **best** in the business

OVER

3

DECADES

OF EXPERIENCE

**UN-
RIVALED
BREADTH**

OF STANDARD PRODUCTS

**UN-
PARALLELED
ENGINEERING**

EXPERTISE

**STATE-
OF-THE-
ART**

MANUFACTURING



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