

# Success Story

## Washdown Motors: Increase Longevity

### Stainless Steel W Motor Series Maintain the Highest Degree of Cleanliness and Quality

Stainless steel motors are designed for high pressure, high temperature and caustic washdown applications.

#### Challenge

Packaging Progressions specializes in producing stainless steel packaging and processing equipment for the food industry. Their customers needed a motor that could withstand harsh cleaning environments. The challenge was to build a motor that was non-corrosive, sealed and could endure daily cleaning with no protective enclosure.

#### Solution

Packaging Progressions & Kollmorgen were able to engineer a version of the [Stainless Steel W series motor](#) to eliminate hygienic and longevity concerns.

Bacteria growth was significantly reduced due to the non-porous stainless steel material. The round motor also reduced square edges that could allow build-up of foreign material. Additionally, the laser etched permanent label eliminated seams where bacteria may aggregate.



This solution eliminated areas where soil and bacteria can hide — and there's no need to disassemble, clean, sanitize and reassemble prior to each use. It is very easy to clean and sanitize in its place, saving a significant amount of time. **The unenclosed Stainless Steel W series motor takes only 3 minutes to clean versus an enclosed motor that could take up to 20 minutes.** It is also easy to swab the entire machine to verify cleanliness.

The Stainless Steel W series motor also mounted seamlessly with Kollmorgen's [AquaTRUE™](#) gearhead providing IP69K protection that handles caustic cleaning chemicals and high pressure washdown. The feedback and power cables allow for effective venting of the motor to prevent internal condensation. **Additional benefits include an increase in expected motor life from nine months to five years, reduced cleaning time, and increased reliability to deliver higher productivity for the end user.** Furthermore, downtime is significantly reduced as is motor replacement time, which not only saves money but also unnecessary hassle.

**KOLLMORGEN**®

*Because Motion Matters™*

#### FAST FACTS

##### Challenge:

Increase longevity of motor under high pressure wash-downs and maintain cleanliness

##### Solution:

Engineered sealed stainless steel motor and gearbox featuring feedback and power cables

##### Measurable Benefits:

- Lasts 5 times longer than standard motor
- Cleaning time reduced from 20 minutes to 3 minutes per motor (750+ times per year)
- Eliminates downtime and reduces motor replacement time

##### Other Motor Applications:

- Laser etched nameplate
- IP69K protection
- Corrosion resistance
- No areas of water ingress
- Innovative cable tubes

##### Have Similar Challenges and Want to See Real Results?

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##### About Kollmorgen

Kollmorgen is a leading provider of motion systems and components for machine builders around the globe, with over 70 years of motion control design and application expertise. Through world-class knowledge in motion, industry-leading quality and deep expertise in linking and integrating standard and custom products, Kollmorgen delivers breakthrough solutions unmatched in performance, reliability and ease-of-use, giving machine builders an irrefutable marketplace advantage.

For more information, visit [kollmorgen.com](http://kollmorgen.com), email [support@kollmorgen.com](mailto:support@kollmorgen.com), or call 540-633-3545.