

3-A SANITARY STANDARDS, INC. Education Program

# Sanitary Stainless Electric Motor Design

Presented by  
John Oleson, Chief Engineer  
**Stainless Motors, Inc.**



Quality  
Performance  
Reliability  
Cleanability

**HOW DOES  
CONTAMINATION  
HAPPENS?**

# ENDBELL, FAN AND AREA INSIDE SHROUD ARE NOT ACCESSIBLE FOR CLEANING

Endbell and fan concealed inside fan shroud

Fan shroud



**RISK AREAS**

aka

**“The Dirty Little Secret”**

# INSIDE FAN SHROUD



# ON ENDBELL, FAN AND HARDWARE



**CONVENTIONAL  
DESIGNS  
THAT CREATE  
THE RISK**









# Question you should ask when choosing a sanitary motor for processing environments:

1. Are there any areas that could possibly collect food product and harbor bacteria?
2. Is the cooling fan plastic or polished stainless?
3. Are the feet securely welded with no gaps or crevices?
4. Is there access to areas in and around the fan and fan shroud for thorough spray cleaning?
5. Can the motor be integrated into a CIP system?

An example of a motor that meets the criteria and sanitary standards for food safety is a motor that incorporates Sanifan Technology



**Sanifan Technology™** is a patent pending comprehensive solution which dramatically reduces crevices and provides a means of washing areas previously inaccessible.



# SIDE BY SIDE COMPARISON



**Conventional Design**



**Sanifan Technology Design**



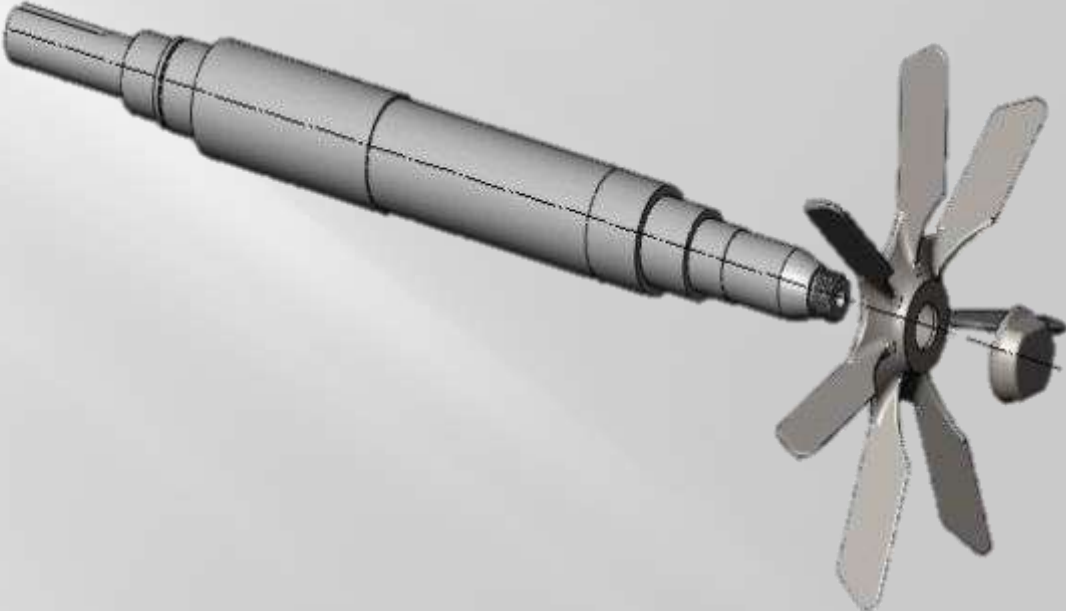
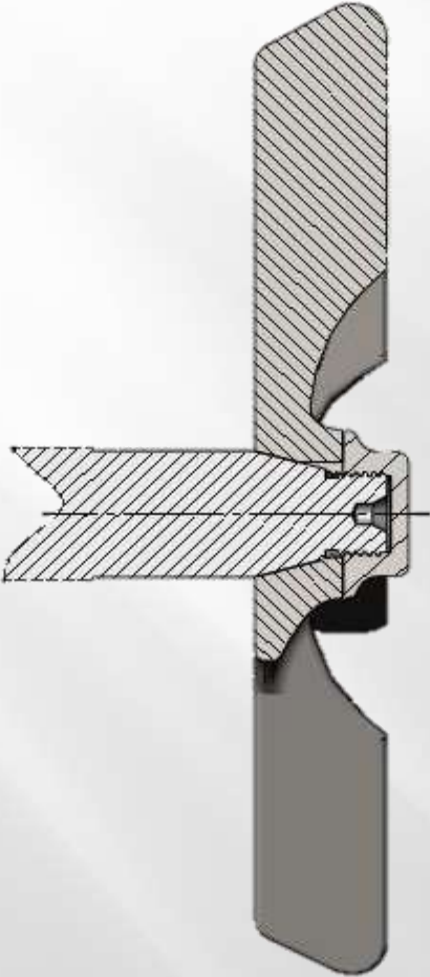
**Sanifan Technology Design  
with Optional Spray Cleaning  
Endbell**

# POLISHED CREVICE-FREE STAINLESS FAN



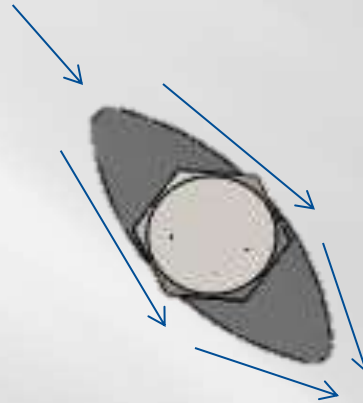


# SANITARY FAN TO SHAFT MOUNTING

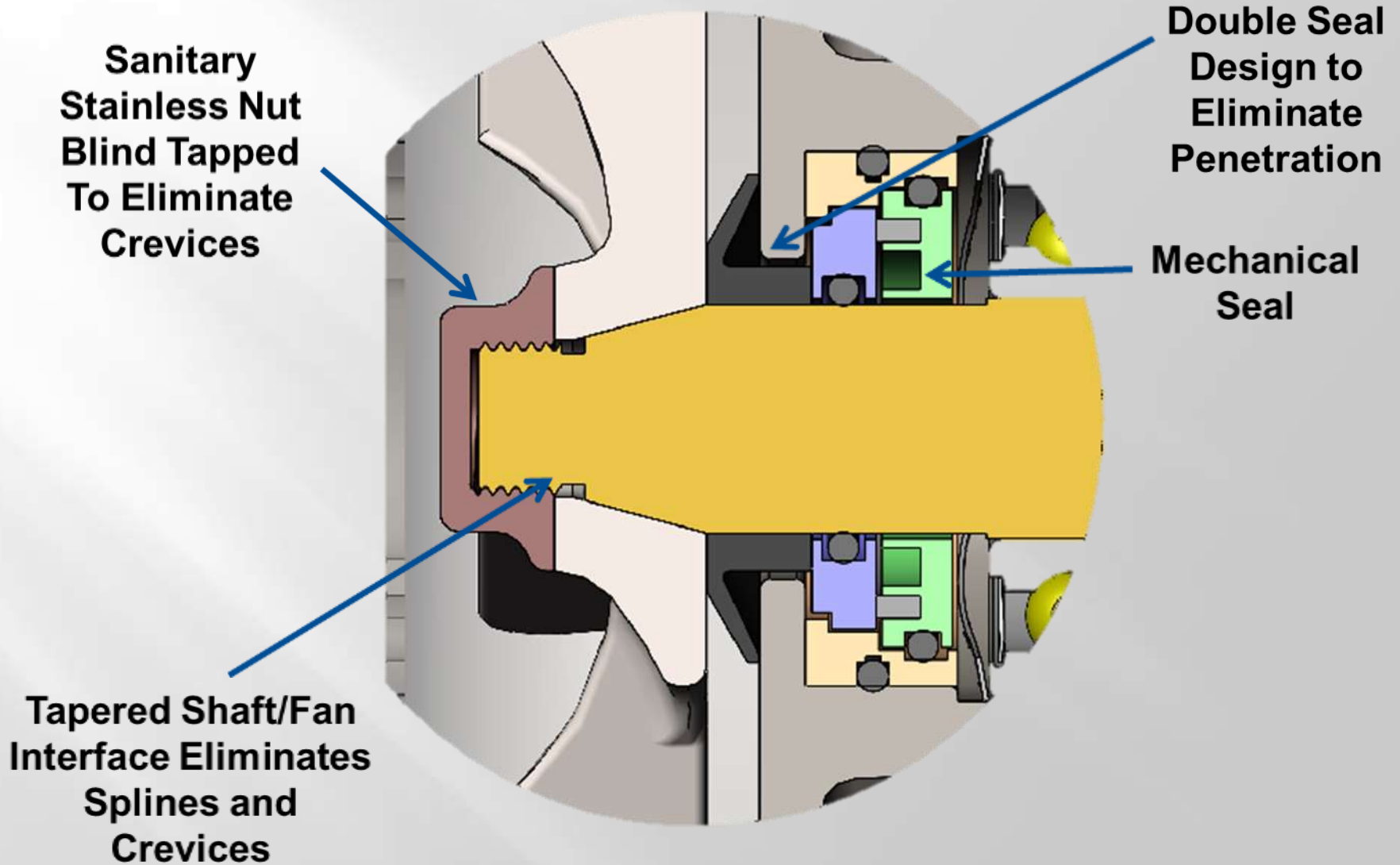


# CREVICE FREE FAN SHROUD MOUNTING

EPDM SANITARY  
STANDOFF



# ENDBELL SANITARY SEAL DESIGN



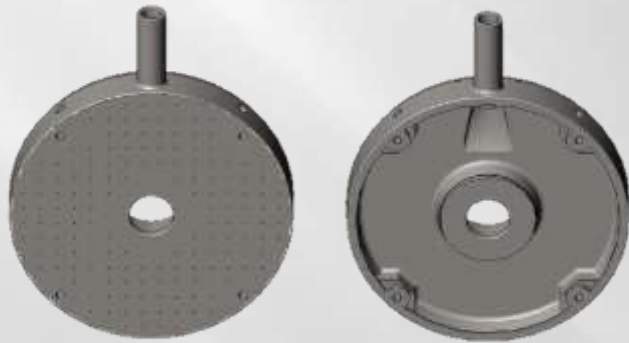
# BLIND TAPPED SANITARY FOOT



**TIG Welded Blind Tapped Foot Mount**



Stainless washdown duty motors that incorporate Sanifan Technology™ also offer an optional integral wet spray cleaning endbell for the ultimate level of cleanability!



# WATER PORT STYLES (spray endbell option only)



**Tri Clamp**



**Capped**



**Spring valve**



**Pipe**

