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OPTIMIZATION

Upgrades For ROSENMUND Side Discharge Filters And Filter/Dryers

Why Upgrade?

- **Improve containment**
- **Improve product quality**
- **CIP "cleanability" improvements**
- **Increased machine productivity**
- **Product changes or need for multi-purpose operations**
- **New Safety and Environmental requirements**
- **Validation and documentation issues**
- **Funding or time constraints which preclude the purchase of a new machine**

Meeting Today's Process Requirements With Yesterday's Investment

Chances are that your **Rosenmund** filter that has provided your company with years of service is still in extensive production, years after the initial capital investment was made. In fact, the first automatic scroll discharge filter built by **Rosenmund** in 1966, is still in operation today!

You've purchased a quality piece of equipment and conducted proper maintenance and repairs. Your **Rosenmund** machine can be upgraded and modernized to provide additional years of useful service. Now is the time to consider upgrading to one of the many design options offered inside this this information bulletin.

All of the upgrades listed can be expertly and efficiently implemented at your plant site: the machine stays in-place at your location.

Case History

In December 2002, two (2) 1991 4.0m^2 **Rosenmund** Filters were upgraded with double mechanical seals and bellows that replaced the original main shaft stuffing box.

The customer required that the process conform to more stringent guidelines that mandated the elimination of packing particulate and fugitive emissions.

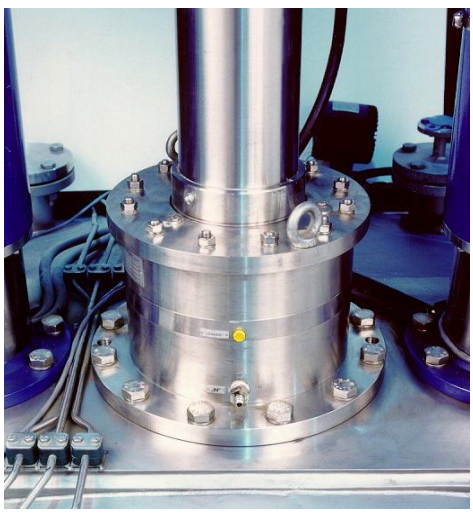
All up-grade components were ordered in advance while the machines stayed in operation. During a scheduled shutdown, modifications were completed on-site within a two week window for both filters.

LEFT:

A Rosenmund technician installing a double dry mechanical seal package

RIGHT:

The new seal package neatly installed and ready for production



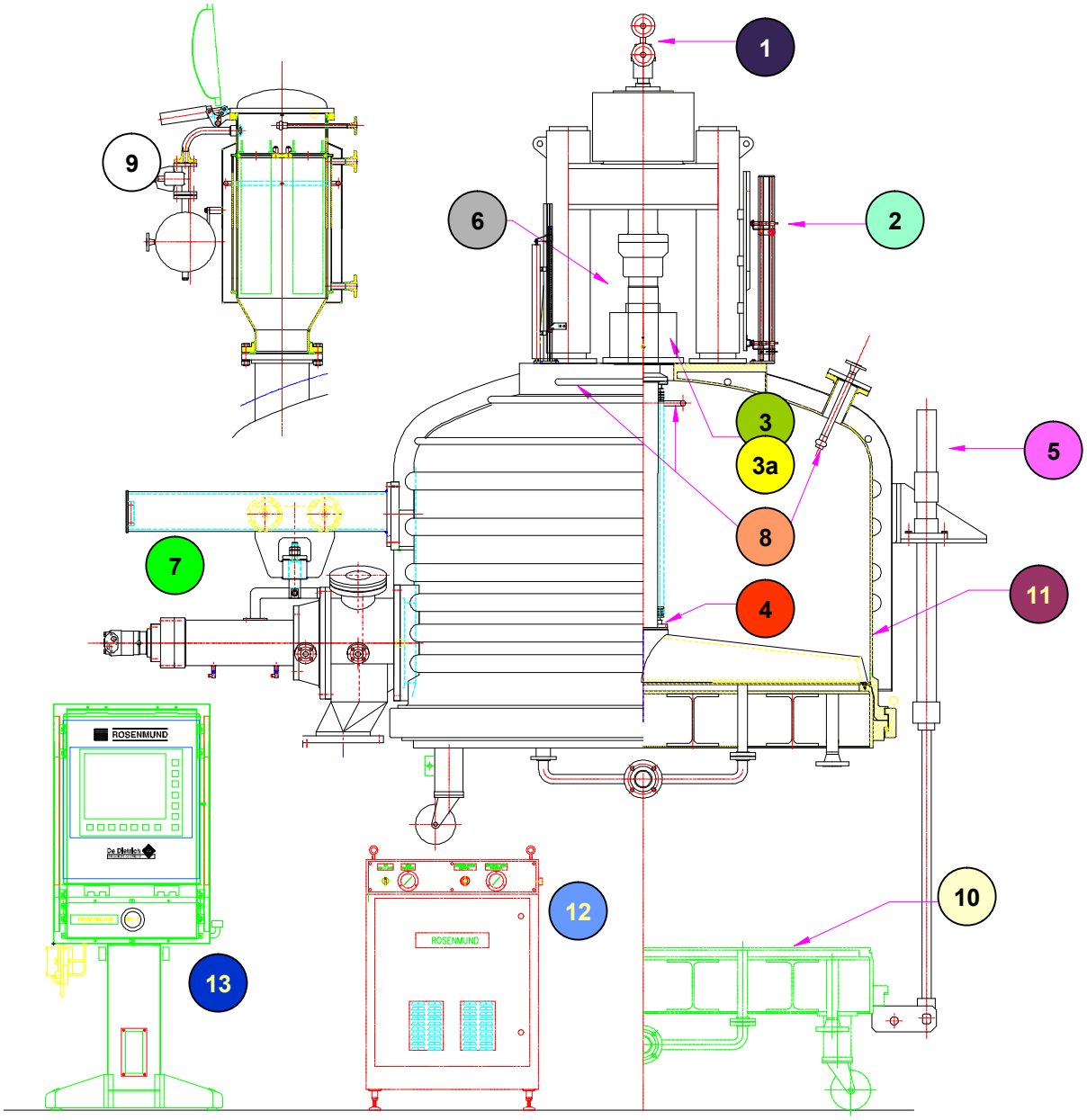
De Dietrich PROCESS SYSTEMS

ROSENMUND

Control system upgrades

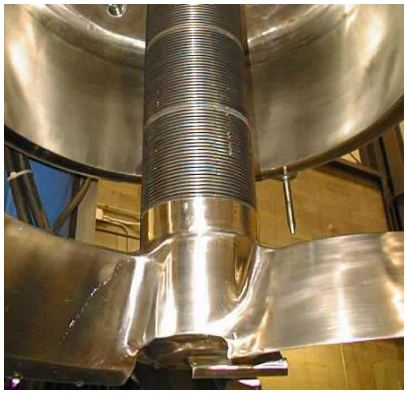
Riboflavin test with newly installed CIP system

Monorail system added to ease maintenance on side discharge valve



Upgrades For ROSENMUND Side Discharge Filters And Filter/Dryers

Hydraulic pack component upgrades or complete system replacement



Main shaft bellows assembly (lower connection)

Filter plate and filter media upgrades

1 ***Rotary Joints***

- Upgrade to mechanical seal design
- Integral thrust bear for added housing and flange support

2 ***Extended Discharge Package***

- Reduce product heel
- Agitator position indication
- Linear displacement transducers (LDT)

3 ***•Replace Stuffing Box with Mechanical Seal***

- Install mechanical seal
- Install bellows assembly for axial seal

3a ***Upgrade Existing Stuffing Boxes***

- Flush and scraper systems
- Spring loaded gland followers
- Sanitary glands

Main Shaft Telescopic Containment Sleeve

- Contain stuffing box contamination
- Prevent product from degrading packing

4 ***•Upgrade lower bellows connection to welded design***

- Eliminate potential leakage path
- Eliminate bolts in the product area

5 ***"Base-In-Place" Hydraulic Cylinders***

- Improve the symmetry of the base travel
- Allows for the base travel to be uniform and even.
- Assures proper base alignment before raising into vessel.

6 ***External Bellows and Purge Systems***

- Stops condensate from developing on the main shaft
- Protect shaft sleeve annulus from shaft debris.

7 ***Side Discharge Valve***

- PTFE bellows assembly
- Monorail systems
- Improved support bearings.
- "Easy Clean" access housing

8 ***CIP / Wash Rings***

- Spray balls
- Wand and nozzle assemblies

9 ***Dust Filter***

- Spray balls
- Improved cage design
- Interchangeable filter elements
- Containment and CIP

10 ***Multi-layer Filter Media***

- Upgrade from textile and single layer wire media
- Guaranteed fit from custom templates
- Interchangeable filter elements
- Reuse or upgrade existing clamping system

11 ***Sample Valves / Pusher Ports***

- Welding in flush mounted pad flanges
- Navigating around half pipe coils and jackets
- ASME R-Stamp
- Improved containment/ plug assemblies

12 ***Hydraulic Power Packs***

- Individual component upgrades
- Complete replacement

13 ***Control Systems***

- Individual component upgrades
- DeltaV DCS (Emerson)
- MMI Packages
- Validation

Upgrades For ROSENMUND Side Discharge Filters And Filter/Dryers

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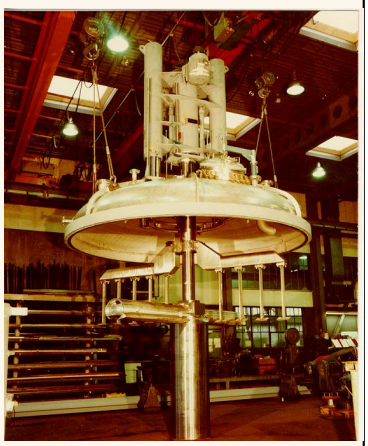
UPGRADES
Rosenmund Side Discharge Filters and Filter/Dryers
Bulletin A6-200 7/03

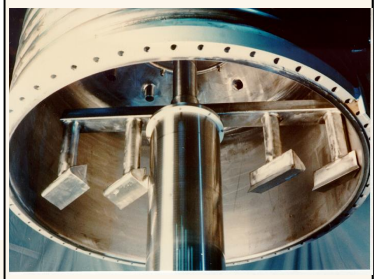
Concerns Addressed by Upgrades

		Improve containment	Improve product quality	CIP/Cleanability reasons	Improve the productivity of the machine/reduce downtime	Product changes / multipurpose operations	Safety/Environmental reasons	Validation and documentation issues	Budget and/or time constraints which preclude purchase of a new machine
1	Rotary Joints	X			X		X		
2	Extended Discharge Package		X		X				
3	Replace Stuffing Box with Mechanical Seal	X	X	X	X	X	X	X	X
3a	Upgrade Existing Stuffing Boxes	X	X				X		
4	Upgrade lower bellows connection to welded design	X	X	X				X	
5	Base-In-Place Hydraulic Cylinders				X		X		
6	External Bellows and Purge Systems	X							
7	Side Discharge Valve	X		X		X		X	
8	CIP / Wash Rings			X		X		X	
9	Dust Filter				X	X			X
10	Multi-layer Filter Media				X				
11	Sample Valves / Pusher Ports	X	X			X		X	
12	Hydraulic Power Packs				X				X
13	Control Systems				X				X

Upgrades also available for other Rosenmund filter types



Auger Discharge Filter



Center Discharge Filter

244 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092
FAX 908-889-4960

908-317-2585
WWW.DDPSINC.COM
EMAIL SALES@DDPSINC.COM

9110 FORSYTH PARK DRIVE
CHARLOTTE NC 28273
FAX 908-889 4960

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De Dietrich ROSENMUND QVF

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