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SEPARATION

MAXIMUM SAFETY DURING VACUUM BOX MAINTENANCE

SmartLIFT LIFTING DEVICE
FOR VACUUM BOXES

ANDRITZ

ENGINEERED SUCCESS

Cost-effective, simple, safe

ANDRITZ has developed a new device for lifting vacuum boxes on Horizontal Vacuum Belt Filters (HVBFs) – the SmartLIFT. Not only does the device make short work of a classically high-risk task, it can also be retrofitted to any brand or size and reduces downtime for vacuum box maintenance by over 30%.

WHY DOES A VACUUM BOX NEED A LIFTING DEVICE?

Vacuum box maintenance on HVBFs is an unpleasant, high-risk job. Current methods involve unwieldy hand-operated winches, counterweights, levers, and other manual lifting equipment, all of which are high-labor alternatives that run the risk of personnel injury, while the option of using a pneumatic cylinder can prove prohibitively expensive.

HOW DOES IT WORK?

The HVBF vacuum box is fitted with a SmartLIFT vacuum box lifting device that is situated directly under the vacuum box. A bellow-supported frame runs between guide slides on either side of the main frame vacuum box opening. The support can be adjusted in order to centralize the vacuum box in the HVBF.

For maintenance purposes, the bellow-supported frame is lifted pneumatically to take the weight of the vacuum box. The retaining system keeping the

vacuum box in position can now be removed. Then the bellow(s) is/are simply deflated to lower the vacuum box so maintenance can now be carried out in a safe and stable position. The vacuum box is lifted back into position by inflating the bellow(s).

YOUR BENEFITS

- Transforms a high-risk task into a low-risk task
- Reduces the downtime required for vacuum box maintenance by 30%
- Reduces labor input since less manpower is required to lift and lower the vacuum box
- Reduces the risk of injury during vacuum box maintenance by 50% as the lifting device stabilizes the vacuum box when lifting and lowering
- Is low-maintenance thanks to the device having no pivoting points



Horizontal vacuum belt filter



WHAT MAKES THE SmartLIFT VACUUM BOX LIFTING DEVICE DIFFERENT?

With its highly effective design, the SmartLIFT vacuum box lifting device saves on time and personnel numbers, while substantially reducing the safety risk. What’s more, the device can be retrofitted to any HVBF regardless of brand or size. Once the vacuum box is fully assembled on the bellow-support frames, it can

be lifted and lowered between the maintenance and operational positions in the machine – significantly reducing the human-machine interface. A normally high-risk task becomes fast, simple, and much safer.

APPLICATION

Can be retrofitted to any model and make of horizontal vacuum belt filter



SmartLIFT lowered position



SmartLIFT raised position

Your full-service provider

With ANDRITZ, you gain access to one of the world’s largest OEM manufacturers for solid/liquid separation systems, including such well-known brands as 3Sys Technologies, Bird, Delkor Capital Equipment (Pty) Ltd., Escher Wyss dryers, Frautech, Guinard Centrifugation, KHD Humboldt Wedag, Krauss-Maffei centrifuges, dryers, and filters, Lenser, Netzsch Filtration, Rittershaus & Blecher, Royal GMF Gouda, Sprout Bauer, and Vandenbroek. Whether you need spare parts, rentals, local service, repairs, upgrades, or modernization of your equipment,

ANDRITZ is your true full-service provider. From initial consulting through to service agreements, process optimization, and training programs, we are always looking for ways to minimize downtime and increase predictability in operations while raising your overall production efficiency. Wherever you operate, our network of 550 service specialists and global service centers ensures we’ll always be there to support you for many life cycles to come. Let’s sit down and see how we could take your operations to the next level.



LOCAL SUPPORT



REPAIRS & UPGRADES



SECOND-HAND & RENTALS



TRAINING



OEM SPARE PARTS



SERVICE AGREEMENTS



PROCESS OPTIMIZATION



LAB AND ON-SITE TESTS





WHAT'S YOUR SEPARATION CHALLENGE?

ANDRITZ Separation is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years, we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals, and mining & minerals. As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge. **Ask your separation specialist!**

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