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Sortex in grain milling



What you will learn

You will learn how to run a Sortex installation efficiently and come to understand basic settings, machine design and how to get the most out of the machine for the best yields possible. We will also update you on the basics of cleaning and conditioning wheat plus cereal science – the science behind different grains, particularly wheat. But this isn't just theoretical training. You will also spend two days in front of a fully operational Sortex A, and you will have access to some of the latest milling machines for a close-up look at how they work.

Required skill level

Solid working experience in a flour mill.

Price

CHF 2,000.00 per person / 1 week

What is included

- Invitation letter for visa application
- Hands-on access to some of the latest milling machines
- Three days of practical experience in front of our fully operational Sortex A color sorters at our Milling Academy hall and school mill
- Printed training documents
- One social event with dinner
- Unlimited access to Wi-Fi and internet

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Detailed program



Monday

Welcome at the Milling Academy

- Formalities and administrative matters
- Bühler factory visit, including research centers

Factory visit, research centers and central laboratory

Common thread in milling

- Profound explanation of requirements from the perspective of the baker.

Cereal science and wheat

- Details about wheat, varieties, kernel structure, properties, storage and their application for human food

Tuesday

Cleaning section and conditioning of wheat

- Special flow sheet technology
- Application of various grain cleaning machines
- Various surface treatment options
- Conditioning of wheat

Practical in the cleaning section

- Setting of the classic grain cleaning machines with mechanic separation methods
- Assessment of cleaning efficiency by the means of sieving tests

Social event in the evening

Wednesday

Sortex in the grain cleaning section (theory)

- Why color sorting in grain milling?
- Machine overview and layout
- Principles of color sorting
- Monochromatic vs. bichromatic cameras
- Sortex grain machine portfolio
- MSOA, MSOB, MSOC, BSAA, BSAB, BSAC, BSBA, BSBB, BSBC, BSWC
- Machine differences and similarities
- Plant integration (MEAF/G, integrated feed regulation, Accessories, etc.)
- Automation
- Application range (conventional and special applications)
- DON application
- Business case Sortex vs. trieur
- Product setup

Thursday

Practical: Sortex in the cleaning section

- Setup principle
- User interface structure
- Calibration, wiping
- Product setup
- Basic settings of Sortex A
- Optimization of Sortex A

Friday

Maintenance on Sortex

- Wear and electronic part overview (ejectors, lamps, filters, pcbs etc.)
- Part replacement
- Chute and camera alignment
- White reference calibration
- Cleaning procedure
- Troubleshooting
- Maintenance

Final discussion & course feedback

Working hours

08.00 – 09.30 / 10.00 – 12.00
13.15 – 15.00 / 15.15 – 17.00

We reserve the right to adjust the schedule for organizational reasons.

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