

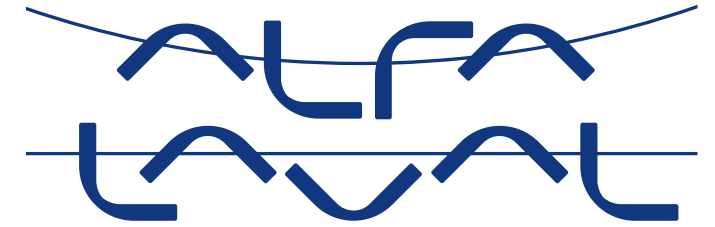
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- Choose the right speaker and then unmute it
- We look forward to sharing our insights with you during this webinar starting at **09:00 am CEST**



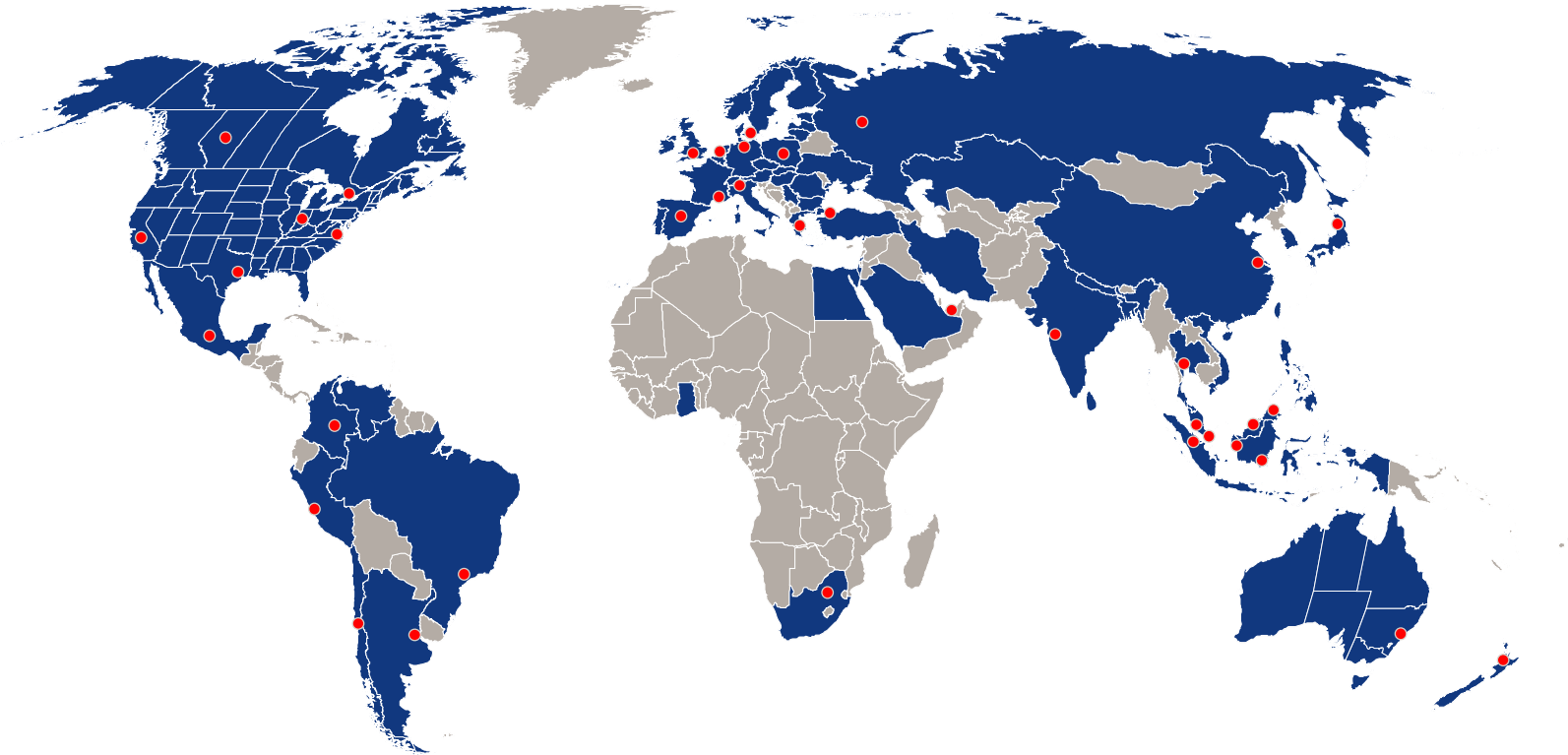


Plan A – Keep your decanter as good as new

- Practical and sustainable decanter maintenance

Milan Barudzija
Burak Özkök

A global company with a strong local presence



- 3,800 MEUR order intake
- 16,882 employees
- 35 major production units*
- More than 100 service centres
- Sales companies in 55 countries
- Other sales representation in 45 countries

* Plus several minor production and assembly units

Test & Innovation

– Thinking out of the box



Constant focus on research and development

- Test centre for high-speed separators in Stockholm, Sweden
- Test & Innovation Centre for decaners in Copenhagen, Denmark
 - Decanter innovations
 - Digital decanter solutions

What we'll talk about today

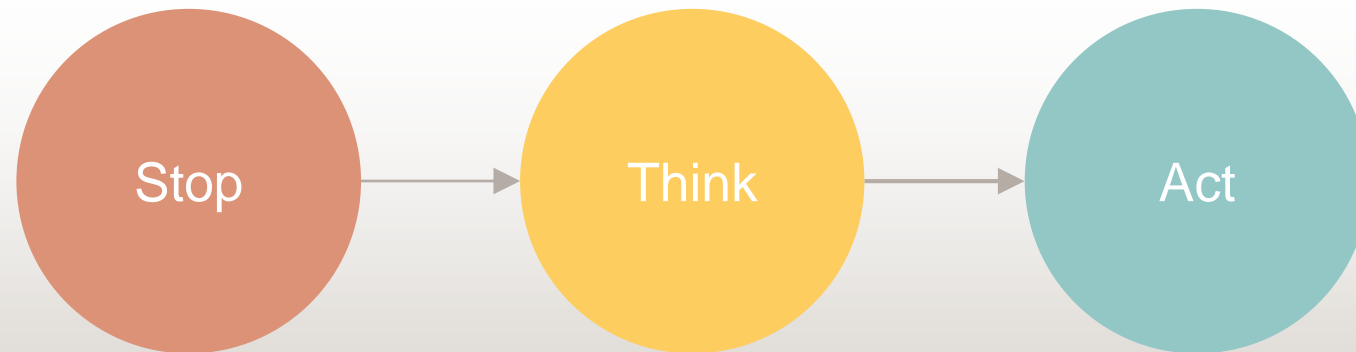


– Plan A – Keep your decanter as good as new

- Safety First
- Checklist for maintenance
- Preventive maintenance
- Predictive maintenance
- Spare parts and critical stock
- Upgrades
- Service Agreements
 - Customer case story within the mining industry

Safety F1rst

S E R V I C E O P E R A T I O N S



How does a decanter work?



Daily checklists

– Best practices



Mechanical

- ✓ Cleanliness: Look for oil leaks, grease spots, liquid spills, etc.
- ✓ Check bearing and general machine noise

Operational

- ✓ Check machine vibration and temperature
- ✓ Check main motor current and temperature
- ✓ Check feed flow rate, conveyor torque and differential speed

When stopping, flush with water until clean

- ✓ Do not leave corrosive liquids in the decanter

Weekly/monthly checklists

– Best practices



Weekly/monthly checklists

- ✓ Check covers for solids build-up
- ✓ Check feed tube for wear or damage
- ✓ Greasing and lubrication:
 - Ensure that the bearings are properly greased
 - Check gearbox oil level
Change the oil at the recommended interval
- ✓ **Use only approved brands** of grease and oil and make sure they meet the recommended shelf life
- ✓ Check belt tension **every six months**



Preventive maintenance

– Alfa Laval Service Kits



Service made easy by kits

- Preselected parts
- Hassle free

Major service kit

Based on running hours and Alfa Laval's expertise of different applications

Intermediate service kit

For high-temperature applications requiring intensive Cleaning-in-Place (CIP)

Other wear parts

Feed pipe, feed zone, conveyor flights and bowl

Next-generation services

– Remote support and predictive maintenance



Connected Services



Remote monitoring

Remote access to machine data for immediate support

Remote control

Change key parameters on your decanter from a distance

ConditionAlert™

Taking a step towards predictive maintenance

ConditionAlert™ is predictive maintenance

– Next-generation services



- Alfa Laval ConditionAlert™ *continuously* monitors main and conveyor bearings
- Valuable service recommendation, in advance, so you can optimize uptime and reduce costs
- Insights into the decanter's condition
- Reduce risk of unplanned stops



Alfa Laval
ConditionAlert™
for decanters



Remote support with connected equipment



Remote monitoring

- Enables you to mirror the control panel of your equipment from a distance
- Gives experts access to data from a remote location and, if needed, enables enhanced troubleshooting

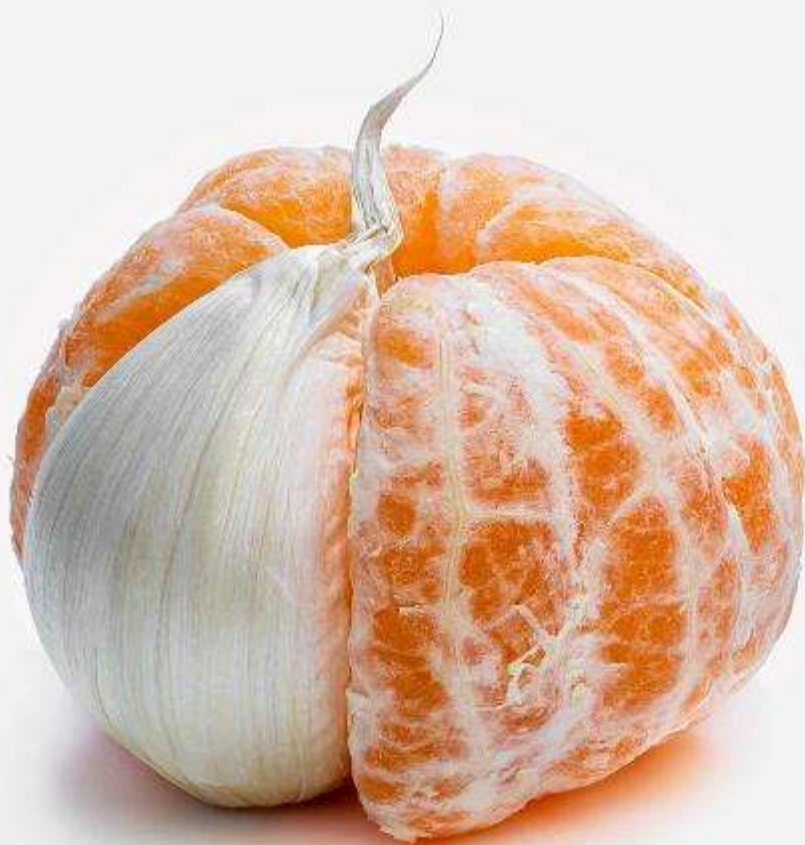
Remote guidance

- Close collaboration using a mobile device that ensures good cooperation between the onsite staff and one or more remote experts



Spare parts and critical spares

- Use genuine spare parts



The importance of genuine spare parts?

- Like-for-like replacement of parts in a decanter ensures operating condition as per design
- When using genuine spare parts, you are guaranteed performance and reliability
- Maintain a stock of essential spare parts such as grease, oil, and intermediate and major service kits

Don't be fooled! Just because it fits doesn't mean it works.

Spare parts and critical spares

- Use genuine spare parts



Planned maintenance spares

- Intermediate and major service kits
 - Preselected parts based on 60+ years of experience for intermediate and major service
 - Wear parts including feed zone components, tiles and end sections

Breakdown, emergency spares and rotating equipment

- Complete rotating assembly consisting of bowl, conveyor and gearbox
- Main motor and backdrive motor
- Long lead time items (non-stocked items)

Upgrades

– Change is constant



Decanter upgrading is inevitable

- Continuous improvement of functionality and design
- Value of upgrading
 - Efficiency improvements
 - A sustainable approach
 - Decreasing operational costs

Change is inevitable!

Service Agreements

– Better control of your maintenance and operation costs



- Predictable cost
- Planning
- Priority
- Reduced risks
- Maximized production uptime
- Prolonged equipment lifetime



Customer case

– A borax mining company



Customer case

– Service Agreement with a borax mining company



- **What:** 15 decanters and 10 spare rotating assemblies
- **Why:** Aggressive application required R&D and innovation over the years
- **Benefits:** 100% uptime
 - Maximized solution recovery and minimized cake handling cost



What is your Plan A?

– Keep your decanter as good as new



Partner with Alfa Laval
to keep your decanter
as good as new

Any further questions



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