

News Letter 2025-1

- Oil separation
- Filtration
- Magnetic separation

Items:

- Bath maintenance, fully functional, LIVE! at parts2clean 2025
- Introduction Q-Mag® Type 20
- Skim & treat, Well-thought-out technology
- High-end Oil Separation for central coolant systems
- Guaranteed cost reduction AND improved sustainability

Bath maintenance, fully functional, LIVE! at parts2clean 2025. Convince yourself!!

For the 18th time we will be present at the parts2clean Trade Fair, but this year in a completely new set-up. Come and see the unique LIVE DEMONSTRATION of Suparator®, Q-Mag® and Q-Filter®. Not just as static separate devices but as running equipment in full operation, all three in one closed loop, actually separating dirt and oil in real time!

What do we show? We have simulated an industrial parts cleaning process on our stand. In a plexiglass tank we mix oil, dirt and metal particles with water and then separate it again in a unique and distinctive way. And we do this LIVE! You can see in practice how the dirt dissolves in the water and how clean water returns to the tank.

What is in it for you? You have the opportunity to see LIVE! what cleverly designed, high-end equipment can do for you. We are talking about a



combination of significant savings on water and energy costs, a constant cleaning quality, and a way to help you to reduce your carbon footprint.

Let's meet...
Hall 10 – Stand A26

7-9 October 2025
Stuttgart • Germany

Parts2
clean

parts2clean-Introduction of Q-Mag® Type 20. Higher capacity!

Q-Mag® is a fully automatic, self-cleaning magnetic separator and has been successfully on the market for almost 10 years. Until now, in 2 versions (QM05 and QM10) with a capacity of 5 and 10m³/h.

Listening to market demand and based on our own experience, the QM20, with a capacity of 20m³/h is now added to the Q-Mag® range. While designing, we also took the opportunity to look at other aspects like ease of maintenance. This has led to a redesign of the existing Q-Mag® types QM05 and QM10 as well, making the entire range of the same design.

The control system is now based on the Siemens S7/1200 Series PLC, same as we use in our other devices. Also, the replacement of wearing parts has been made easier. The total result is that we have made Q-Mag® more maintenance friendly, which will save even more on maintenance costs than before.

Have you become curious? You can see the Q-Mag® QM20 live at our booth at parts2clean 2025!



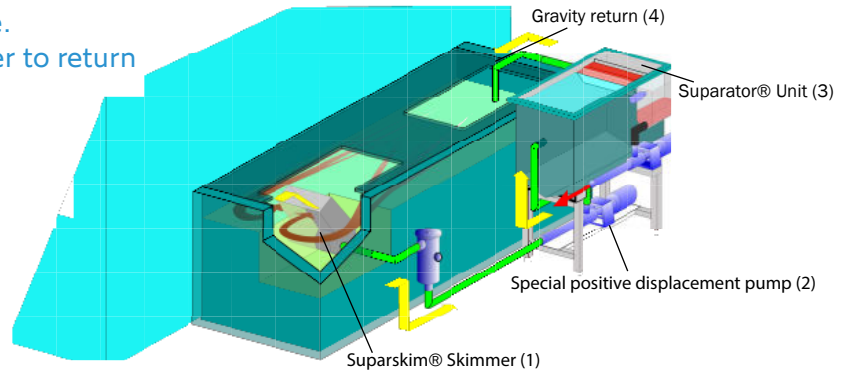
'Seeing is believing'. Come and see for yourself at parts2clean 2025, hall 10, stand A26

Skim & Treat, the reflection of our expertise. Well-thought-out technology, from skimmer to return

Bath maintenance.., it's all about the details. We recognize these details because of our 30 years of experience. Bath maintenance is not about just putting equipment in a tank and let it run. There is much more to it and you find that reflected in our Skim & Treat approach.

What does that look like?

In the inside tank, our self-adjusting Suparskim® skimmer (1) will be installed, which continuously skims off the top layer, actually creating a flow on the surface. The skimmer only takes that fraction of medium from the bath which has the highest oil concentration. Using Suparskim®, turbulence and agitation in the bath make no difference. A special positive displacement pump (2)



pumps the media to the Suparator® unit, where the oil is being separated from the media. The selected pump eliminates mechanical emulsification.

The actual separation takes place inside the Suparator® unit (3) and takes place very quickly, without separating any media or chemistry. The treated media is returned to the tank under gravity (4).

What is so special?

This solution already separates oil when the concentration is still very low, without separating any water or chemistry. As a result, the media remains much cleaner and has a longer life time. This offers significant savings in disposal and chemical cost. Even more important is that a clean bath contributes to product quality and availability of the production installation.

Bath maintenance for central coolant systems with Suparator®

Also in central coolant systems, maintaining stable coolant quality is crucial for a reliable production process. A common issue is the accumulation of oil in the central tank. This oil can cause a range of negative effects such as bacterial growth, stench, reduced fluid life, and increased maintenance requirements.

The solution is simple: an oil separator. That in itself is nothing new or spectacular — but with a Suparator®, it is! Suparator® is an oil separation system, totally different from any other. It is unique because of its distinctive technological design which concentrates oil traces in a

very efficient way, without moving parts or any consumables. And it really takes out just oil! No media, no chemicals...., just oil!

Your benefits:

- Extended lifetime of the coolant.
- Reduced bacterial growth and stench.
- Cost savings on chemicals and the high disposal costs of contaminated fluid.
- Positive contribution to sustainability goals and a reduced CO₂ footprint.
- No sticking of tool holders, less downtime, and lower maintenance costs.
- More stable cooling and lubrication.



Before and after Suparator®

Guaranteed cost reduction AND Improved sustainability. with one and the same solution!

The industry is expected to take measures to minimize environmental impact. This sometimes requires significant investments, and how great would it be if these investments could immediately generate revenue?! The Esselement concept for bath maintenance does just that!

With various combinations of Suparator®, Q-Mag®, and Q-Filter®, the lifespan of process media is substantially extended. In some cases, by as much as five times.

This means 80% less chemical waste. So, a lower environmental impact and lower disposal costs all in one. And that's not even mentioning savings on maintenance, energy-, water- and chemistry consumption. Add to that the improved process quality, and an investment quickly becomes a saving.

No one else can make bath maintenance as efficient AND effective AND economical like Esselement Solutions does!



Download the brochure from our website

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