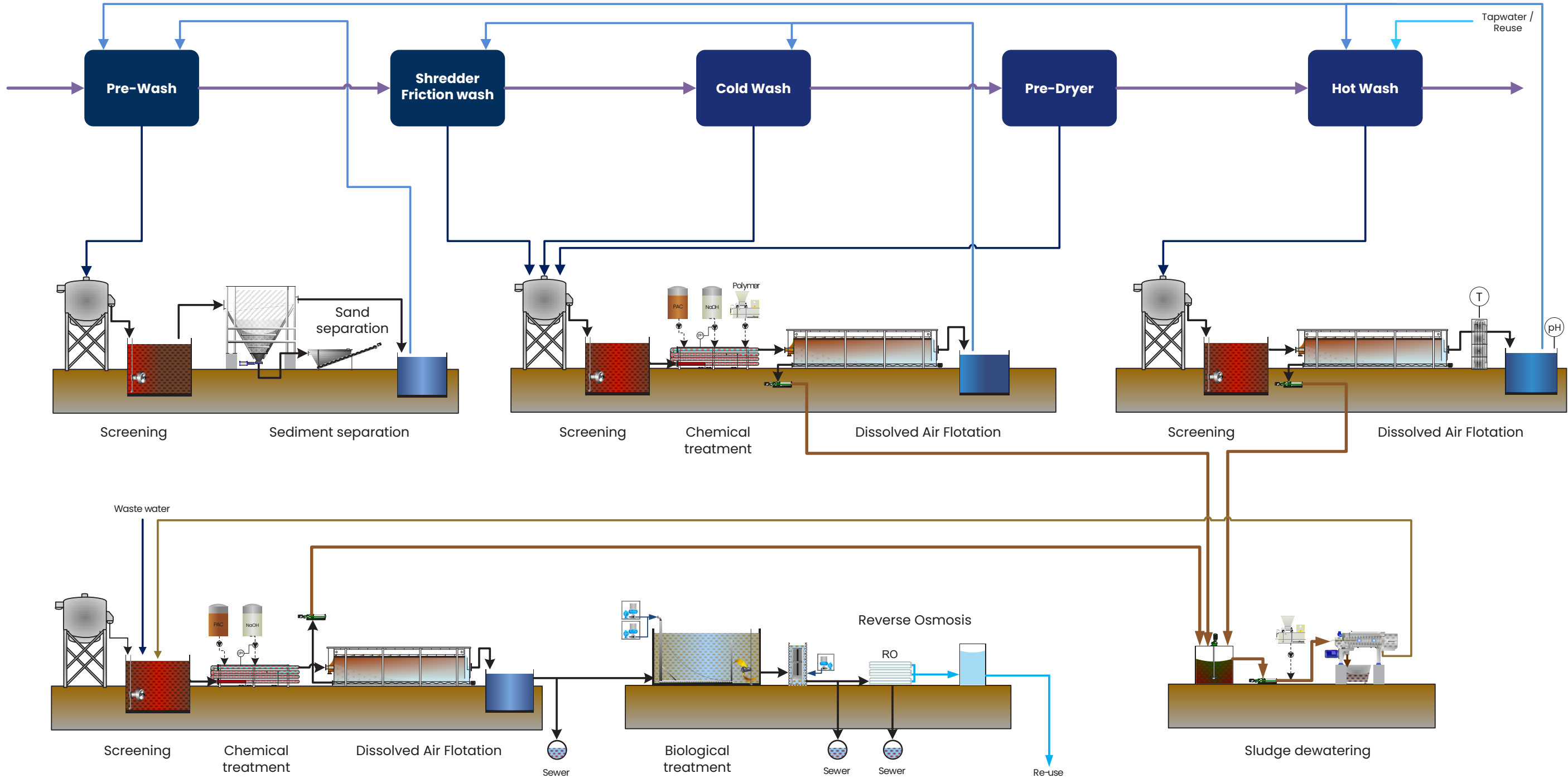


Circular water solutions for the plastics industry





Wastewater treatment for the Plastics industry

Plastic is a material with many different and very practical properties, amongst others it is light, strong, and malleable. It is very versatile in application, for instance it helps preserve food for longer. There is worldwide attention for plastic waste and its recycling and reuse potential.

Challenges of plastic recycling

Most plastics are theoretically recyclable, for instance by melting them down into a granulate, which can be used to produce new products.

Before granules can be produced, the plastic has to be washed. The plastic stream to be recycled may consist of many different types of plastics. The contamination of the wastewater can therefore be very diverse. The washing water will likely contain suspended, emulsified and dissolved contaminants.

Different washing water cleaning techniques

During the plastic washing process, large amounts of washing water are recycled. Various cleaning techniques are used in this recycling loop such as filtration, sedimentation and chemical/physical flotation techniques.

To prevent the build-up of dissolved substances in the recycled washing water, part of the stream has to be refreshed, resulting in a contaminated residual stream which normally needs to be discharged. However, this residual water stream can also be cleaned using biological treatment and membrane systems and reused in the washing process. Cleaning and reusing will reduce fresh water intake and wastewater disposal costs, leading to significant operational cost savings.

At Colubris we go beyond standard solutions. We combine technical expertise with a strong customer-focused approach to deliver the best solution for every application. Since 1984.

Tailor-made solutions for every process

Our process engineers carefully assess each application and select the right combination of technologies.

Premium quality & advanced technologies

We deliver high-quality stainless steel equipment, combined with advanced technologies such as membrane systems for further water treatment. This enables reuse up to food-grade quality levels.

Strong customer partnership

We believe in long-term relationships. Our customers value our dedication, fast response, and service throughout the entire project lifecycle, from design to after-sales support.

Smart installation & reduced on-site work

Our systems can be delivered as pre-mounted skid units, reducing installation time, on-site complexity, and project risks.

Experienced partner for large industrial players

We understand how organizations work, from project execution to tagging systems and documentation standards. This makes us a reliable partner in complex industrial environments.

Would you like to learn more about our recirculating water solutions?

For more information, please visit our website at colubriscleantech.com.

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