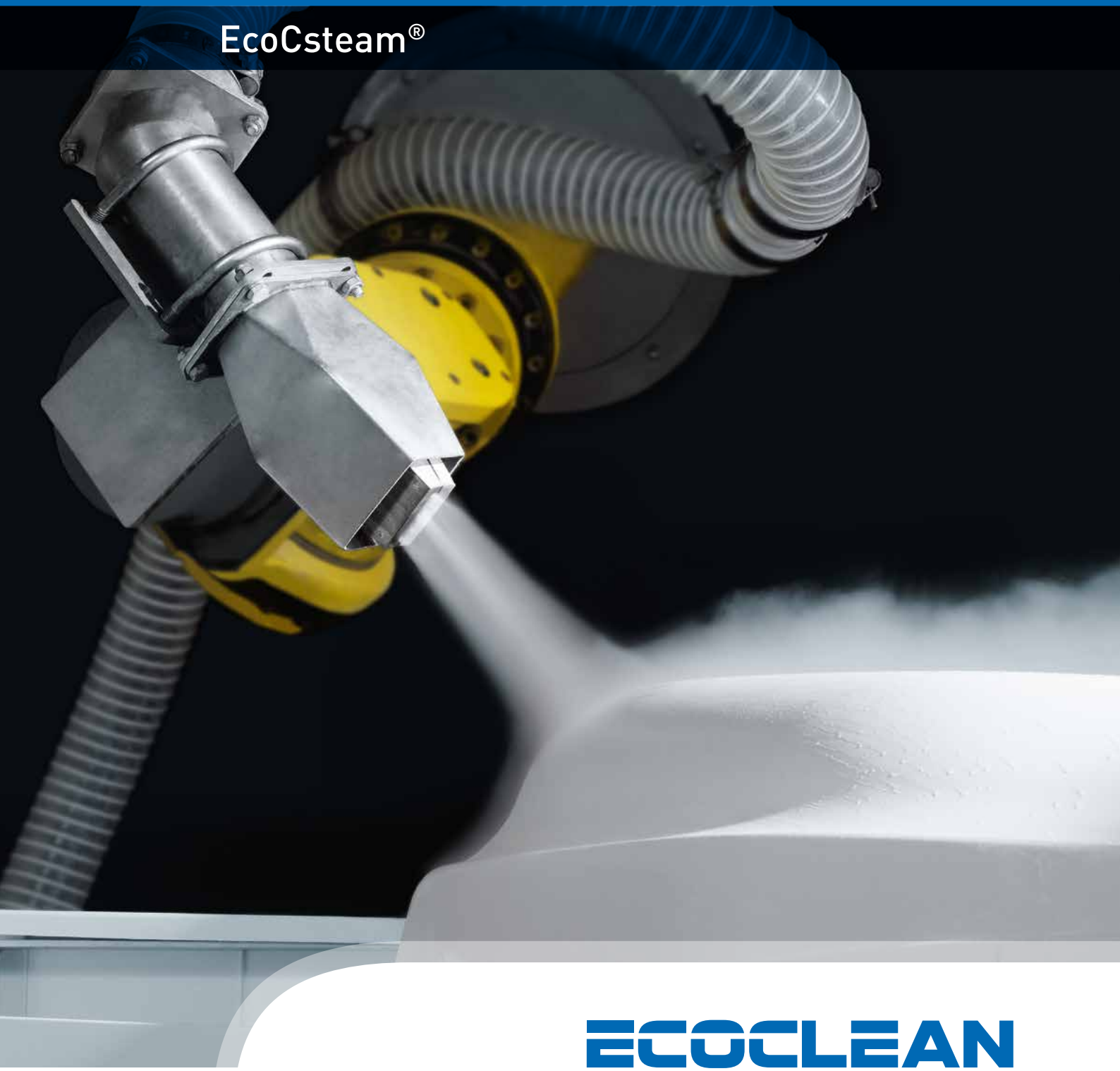
Steam Cleaning Process

EcoCsteam®



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EcoCsteam – The Environmentally Friendly Technology

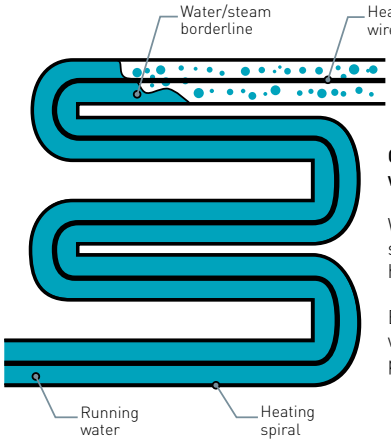
Not only cleaner, but greener!

Ecoclean innovates with its new EcoCsteam technology for industrial parts cleaning: Based on the high cleaning power of dry and wet steam vapor, the EcoCsteam technology patented by Ecoclean is able to deeply and rapidly clean surfaces of any type of material – without using any detergents.

The process combines high velocity blown air and steam vapor. The air is heated up and is blown around the vapor jet. Because of the air velocity and the steam characteristics, the two media do not mix with one another and the air acts as a protection shield for the steam flow which is totally used for cleaning. Moveover and in particular, it operates as a mechanical device to remove the soiling from the surface.

Innovative steam generation

In cooperation with steam experts, Ecoclean has developed a system for steam generation according to the latest state of the art technology, which can either be operated with a continuous flow water leater heater or boiler. Our solutions are always characterized by the highest efficiency and optimal steam quality.



Continuous flow water heater principle

Water runs through the heating spiral and is heated up by the heating wire.

Before leaving the heating spiral, water turns to steam and is pumped to the consumer.

Applications fields

EcoCsteam process can be used for a huge variety of applications – with regards to parts as well as contamination. Depending on the workpiece dimensions, its material and the cleanliness requirements, the appropriate EcoCsteam tool is selected and the final process determined.

The EcoCsteam process can be successfully used, e. g.

- Plastic parts (e. g. bumpers and other attachment parts)
- Composite materials made of carbon and glass fibers (e. g. large components from the air and wind power industry)
- Heavy, voluminous workpieces such as, bearing rings for wind power plants, engine blocks and bogies
- For continuous cleaning of profiles

ENVIRONMENTALLY AND MUCH MORE

- Low operating costs (no cleaning agent, no filtration, no bath preparation)
- Short cycle times (only 1-3 process steps)
- High maintenance-friendliness
- Low investment cost
- Efficient cleaning
- Reduced system dimensions

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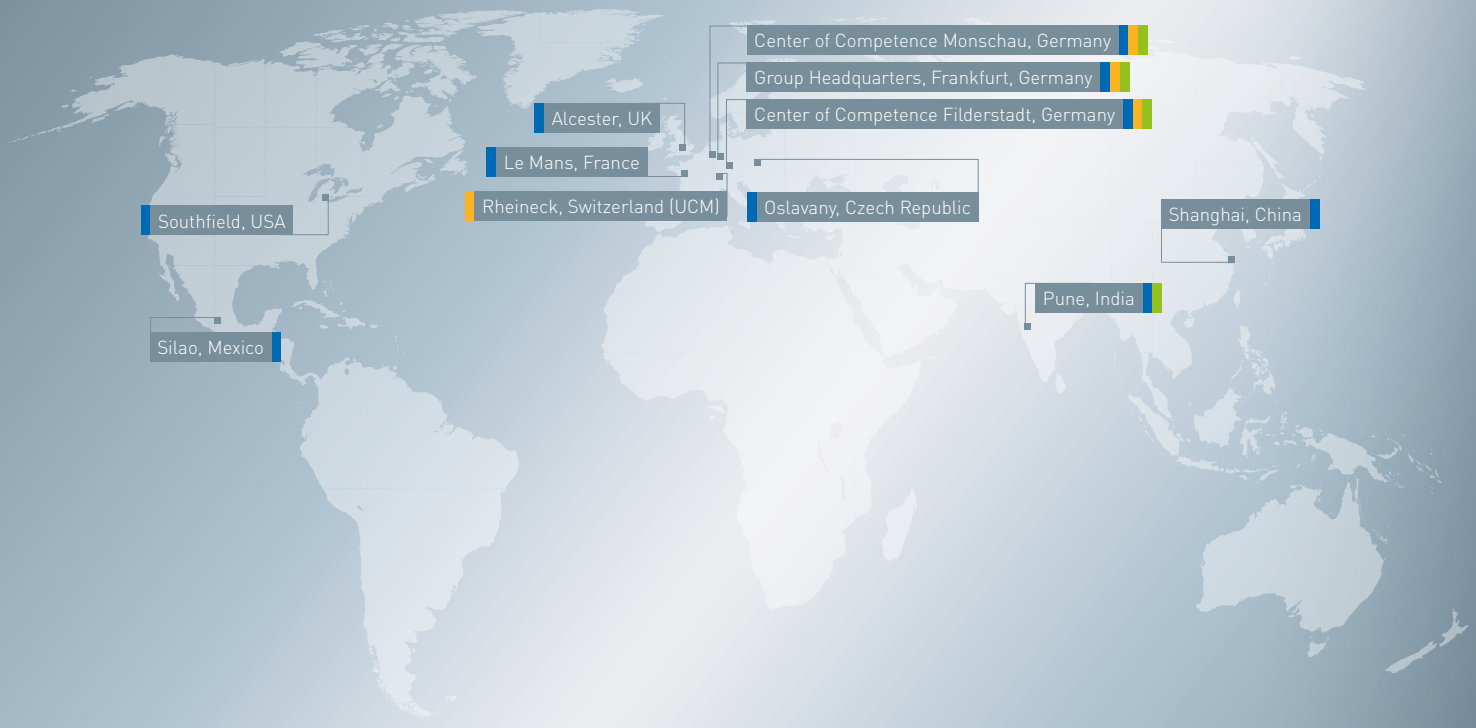
Our Locations Worldwide



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