

High Purity

Cleaning excellence in combination with innovative technologies



LPW High Purity provides ultra-fine cleaning solutions which meet the highest standards required in the medical-, optical- and semi-conductor industries, as well as in related sectors. The patent pending Cyclic Nucleation process provides, next to the existing classic process-engineering and mechanical washing procedures, the key technology to fulfill the demands of absolute purity in a sustainable manner.



MEDICAL ENGINEERING

- » Cleaning complex and capillary components
- » Cleaning of instruments
- » Cleaning of implants



OPTICS & GLASS FIBRE

- » Glass substrate cleaning



SEMICONDUCTOR & PHOTOVOLTAIC

- » Mask cleaning
- » Wafer cleaning
- » Wafer etching
- » Wafer drying
- » PSG removal



INDUSTRIAL COMPONENTS

- » Parts cleaning prior to processing
- » Parts cleaning after processing
- » Tool cleaning

CYCLIC NUCLEATION CNp

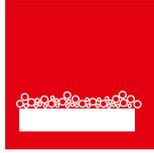
**Less chemicals – higher purity
(more cleanliness)**

The CNp-technology (Cyclic Nucleation process) works in accordance with the principles Cyclic Nucleation, whereby capillary structures, complex 3D moulds, even with deep blind holes, drill-holes with minimal cross-sections, hidden areas - as well as workpieces with limited surface tension, can be cleaned and then dried in a complementary process. This is possible due to the technical mechanisms of cavity cleaning which take place directly on the reactive surface.

This technology is capable of activating the cleaning process even in the most inaccessible niches, and additionally it makes sure that these particles are effectively transported away from the surface.

Depending on the application, this patent pending process works without ultrasound or pressure. Furthermore this technology guarantees cleaning excellence together with shorter process times and less chemical usage, which in turn saves on operating costs.

Advantages of the of Cyclic Nucleation technology CNp

	Conventional	CNp	
Conventional cleaning technologies require the use of chemicals, such as solvents or alkaline cleaners.			The Cyclic Nucleation process significantly reduces the use of chemicals or eliminates it completely. This technology can save up to 90% of the chemicals used for surface treatment.
Conventional, ultra- and mega-sonic systems activate the complete medium and do not work directly on the surface.			This Cyclic Nucleation directs its cleaning energy directly onto the surface of the object and thus is extremely effective.
Conventional, ultra- and mega-sonic systems do not entirely reach shaded areas of the components.			Cyclic Nucleation easily reaches the shaded areas and generates outstanding cleaning results especially on complex 3 D products.

The Cyclic Nucleation technology CNp is already being used successfully for different applications in different industries. Several examples are presented on our website. Contact us for more information and/or a non-binding test with your components.



PUT US TO THE TEST ...

- » ... if you are looking for new cleaning, drying or any other surface treatment technology.
- » ... if your current wet systems are reaching their limits.
- » ... if you are looking for a reliable and competent partner who would be pleased to work together with you.



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