

SCHMID Group Unveils Revolutionary Hyper Loop System (HLS) for Precision Etching with Sustainable Technology

Freudenstadt, November 7, 2024 – The SCHMID Group is excited to introduce the **Hyper Loop System (HLS)**, an innovative solution setting new standards in etching technology by combining high efficiency with sustainable benefits. Through the integration of a unique hybrid nozzle system and the elimination of the need for external compressed air, the HLS offers an innovative solution for precise and eco-friendly etching of fine structures.

Efficiency through Hybrid Nozzle Technology: The **HLS** system features hybrid nozzles, which deliver a thin, even spray pattern to achieve pinpoint etching results. This cutting-edge design not only ensures high precision but also significantly reduces maintenance time due to quick nozzle replacement capabilities.

Sustainable Reduction of Chemicals and Energy Consumption: One of the key advantages of the **HLS** is its elimination of the need for an external compressed air supply, enhancing sustainability and lowering operational costs. By operating without exhaust air treatment requirements, the **HLS** reduces chemical consumption, especially when used with hydrochloric acid, as it eliminates the need for alkali neutralization and waste of copper-containing liquids is reduced to a minimum.

System Highlights:

- **No Exhaust Air Treatment Needed:** No more copper-containing rinsing water
- **Reduced Chemical Consumption:** Lower exhaust air reduces chemical consumption
- **No Heat Loss:** Maintains temperature stability with lower exhaust
- **Quick Return on Investment:** The system's design ensures rapid cost recovery within a short operational period under continuous use

With the **Hyper Loop System**, SCHMID Group reaffirms its commitment to sustainable innovation, providing advanced etching solutions that not only improve productivity but also significantly reduce the environmental footprint for industrial processes.

About the SCHMID Group: Founded in 1864, the SCHMID Group is a global leader in manufacturing solutions and process automation. Headquartered in Germany, SCHMID offers a wide range of products and services across sectors such as wet processing, photovoltaics, and electronics. With a strong commitment to sustainability and efficiency, SCHMID's high-tech solutions enable leading companies worldwide to optimize production processes, enhance quality, and reduce costs. Celebrating 160 years of innovation, SCHMID continues to pioneer the next generation of technological advancements.

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