

HNP Mikrosysteme GmbH
Bleicherufer 25
19053 Schwerin (Germany)

Contact person
Dörte Hoffmann
T +49 385 52190-352
doerte.hoffmann@
hnp-mikrosysteme.de

Safely and precisely delivering ammonia solution

Micro pumps continuously feed aqueous ammonia into static mixers

January 2021: A continuous mixing unit consisting of several static mixers is supplied with eight liquids of different viscosities. Micro annular gear pumps of the hermetically inert series and the high-performance series from HNP Mikrosysteme are used for the smaller volume flows of highly corrosive liquids. Aqueous ammonia (NH₃ 25 % aq.) is a special technological challenge. Here the hermetically inert pump mzs-6355-cs works in a material combination of ceramic and stainless steel. In this application, the micro pump delivers volume flows between 4 and 7 ml/min.

The system produces mixtures with different polymer concentrations. The volume produced is controlled based on the customer's daily delivery requirements. The continuous mixing system is fully automated. It can be easily connected to the site's local IT systems, such as SAP. Continuous and highly precise delivery with micro annular gear pumps thereby ensures a process that is fast, flexible and safe.

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HNP Mikrosysteme

HNP Mikrosysteme GmbH, located in Germany, develops, manufactures, markets pumps and systems worldwide which deliver small amounts of liquids fast and accurately. Beside several applications in plant engineering, chemical processing and pharmaceutical processing, mzs-pumps are used in the field of life science and analytical instrumentation.



Use of micro pumps in the fine chemical industry

Picture: *hnpm_pressebild-6355_hintergrund.jpg* (Source HNP Mikrosysteme)



Picture 2 (alternative image): *hnpm_pressebild-6355.jpg* (Source HNP Mikrosysteme)

Note to the editors:

If you need to shorten the company name "HNP Mikrosysteme", please use the term "**HNPM**".