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## Micro dosing pumps in global use against COVID-19

May 2020: Automated analysis devices are the essential basis for extensive test capacities for the corona virus. Through parallel and faster processes, automation significantly increases the number of tests, saves manpower and ensures process reliability. For sample preparation for SARS-CoV-2, a few microliters of a solution of chemicals and enzymes are dosed. Micro annular gear pumps of the low pressure series from HNP Mikrosysteme perform this demanding task with highest precision and process reliability. The minimum dosing quantity is 0.25 µl, the pumps have a very small footprint and can be easily integrated into control systems. Fully automated analysis devices can contain up to sixteen dosing pumps and can handle up to 4,000 samples in 24 hours.

Micro dosing pumps are also used in research on vaccines and therapies against COVID-19. Every development step in research institutes at universities, in international pharmaceutical companies or in start-ups worldwide is accompanied by numerous laboratory tests. This is a mammoth task, which is also carried out automatically.

Micro pumps of various series, such as hermetically inert pumps, are used in the production of vaccines. From diagnostics and research to future vaccine production, micropumps can be used in the fight against COVID-19. In applications requiring small and very small quantities of liquids delivered with high precision, mzzr-pumps by HNP Mikrosysteme provide accurate service and ensure process reliability.

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### **HNP Mikrosysteme**

HNP Mikrosysteme GmbH, located in Germany, develops, manufactures and 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, mzzr-pumps are used in the field of life science and analytical instrumentation.



Use of micro dosing pumps in automated analysis technology  
*Picture 1: hnpm\_pressebild-nd-analyse\_logo.jpg*



*Picture 2: hnpm\_pressebild-nd-analyse.jpg*

Meet us at the following trade fairs:

**Motek**, Stuttgart (October 5 - 8, 2020), hall 7, booth 7400

**Analytica**, Munich (October 19 - 22, 2020), hall B1, booth 409

**Compamed**, Düsseldorf (November 16 - 19, 2020), hall 8a, booth F 29.2