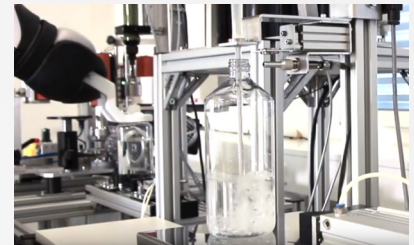


Bottling of liquids

P-Rob installed on a linear axis generating a fully automated filling line for water soluble diamond slurries.

Challenge

For efficiency reasons a bottling process was to be automated where bottles in different sizes needed to be filled. Therefore, P-Rob was installed on a linear axis. Since diamond slurries are very sophisticated and expensive fluids, accuracy in the production process is very important. P-Rob guarantees very high-quality processing of the products.



Mobile fully automated solution

P-Rob takes the bottles from the storage with custom made gripper-fingers and puts them to the filling station for weight-controlled filling. As soon as the bottle is full, a pneumatic valve is closed and stops the filling process. The bottles are then closed at a pneumatic screw station and automatically labeled. Afterwards, P-Rob puts the bottle back in the storage. With this solution F&P provided full engineering and process optimization to the customer.



Company Profile

Microdiamant is Europe's largest diamond micronizer and among the top 5 worldwide. The company manufactures, processes, and distributes products for the micron diamond market. Main products include micron diamond powders, diamond slurries and compounds, diamond discs and advanced super-abrasive products.

- No parts in contact ensuring highest purity
- Running autonomously up to 3 hours
- Minimal cycle times
- Eliminating waiting time
- Security system based on light curtains and speed control

