

Pipette Tip Automation



Highlights

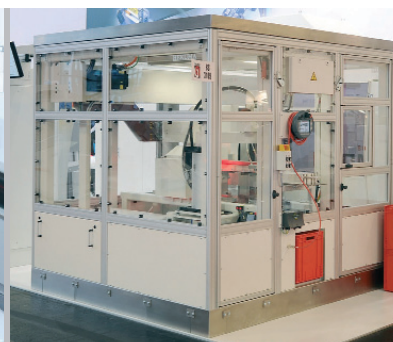
- Mold open times < 0.35 sec
- Modular System
- Wide range of automation concepts available
- Light weight gripper design with integrated valves and sensors
- Energy recovery system saving 10 % of energy used
- Suitable for clean room environment

In the manufacturing of pipette tips there are many different approaches. The range starts with bulk product packed in bags of 500 or 1000 tips and ends with high precision tips with extreme demands for quality. Here 100 % quality checks, mounting into racks, assembly of filters, stacking, bagging and wrapping are required.

HEKUMA offers automation systems for the complete range of production requirements. In the lower end, pipette tips can be taken out by the **HEKUMA** system with only a packaging machine attached in order to pack in bulk.

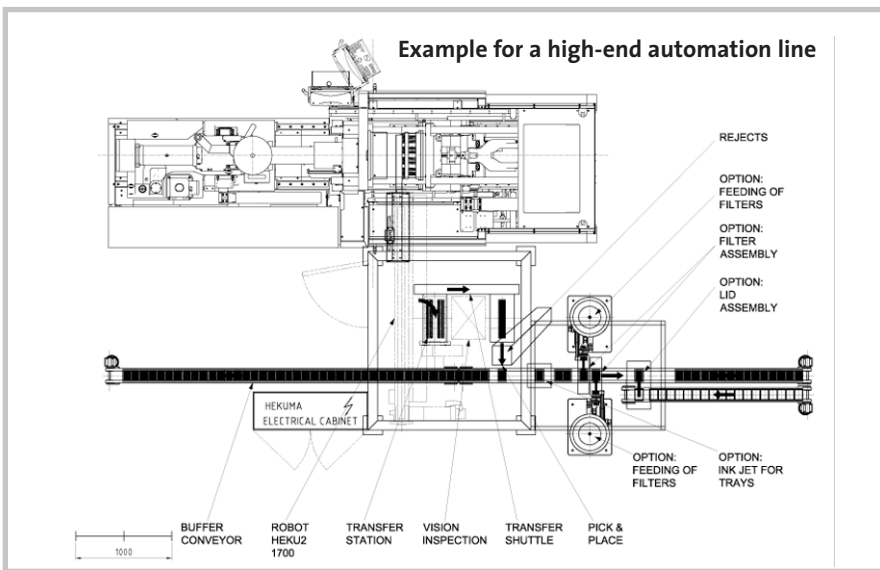
For all other systems where gentle handling and quality control are mandatory, Hekuma offers a wide range of modules and concepts. The heart of these automation lines is the **HEKUMA** high speed side entry takeout system. Designed to meet clean-room requirements and high rigidity, the takeout gripper will take out tips from 32 or 64 cavity molds in as little as 0.35 seconds. Gentle handling with no damage are still ensured.

After the takeout operation the remaining system design strongly depends on the individual requirements for the product. **HEKUMA** offers a wide range of concepts and modules that help to define the production line individually. Modules can even be added at a later date if additional products should be manufactured, such as filter insertion into the tip.



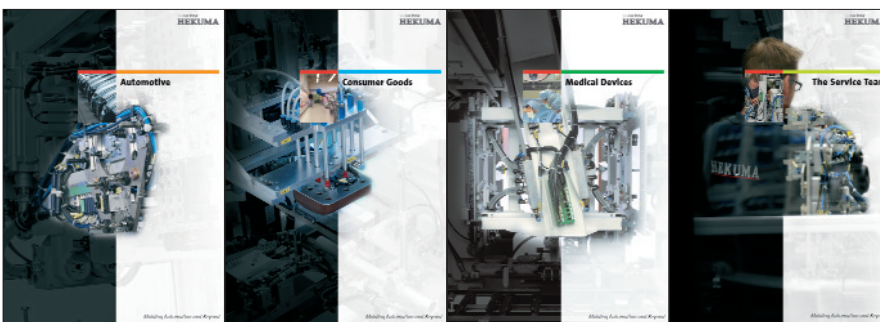
The main modules comprise of 100 % of visual inspection of the tip's inner and outer diameter, inspection for flash or short shot, replacement of reject parts with good tips, filter insertion, mounting in racks, stacking of racks, packing and others.

HEKUMA systems are very reliable and surpass the common standards. Our systems consistently perform at uptimes of 98 % even at cycle times of 4 seconds and lower.



Configuration possibilities

- Up to 64 cavity molds
- Re-positioning adapted to customer specific trays, pallets or racks (per shot or per cavity)
- Reject of individual bad parts (NOK) and compensation with good parts (OK) out of buffers
- Assembly of filters
- Assembly of trays into racks including assembly of cover
- Stacking and packing of racks
- Printing and labelling of racks with barcodes
- Interlinking of several systems with different types of pipette tips
- Buffers lines for lights-out production concepts



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HEKUMA, member of the elexis group, is specialized in molding automation systems for the plastics industry. HEKUMA develops, designs, manufactures and assembles complete automation systems, including high-speed linear take-out robots, 6-axis robots, up- and downstream automation, quality testing and offers full system integration of injection molding machines, molds, and automation systems. The company was founded in 1974 and is located in Eching close to Munich, Germany.

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