

FILLING, ASSEMBLY AND SEALING MACHINE FOR HEALTHCARE APPLICATIONS



The MC 1400 has been specifically designed for the assembly, filling and sealing of a wide range of products in the healthcare market. Designed for wipe-in-place, the machine is ideal but not limited to the processing of powders and other dry bulk products, liquids as well as lyophilized spheres. Its flexibility makes it the ideal platform for the manufacturing of complex products such as IVD- and PoC-devices.

Best in Class Availability

- Above average OEE (Overall Equipment Efficiency) and technical availability
- Accessibility for ease of maintenance
- Fast product changeover by replacement of product contacted parts or even complete process units
- Ease of operation

Minimised Risk of Contamination

- Separation of product area from drives, and upgradeable with laminar air flow units suited for cleanroom applications (ISO 14644-1 Class 8-5, EU GMP Grade C-A)
- Suited for molecular diagnostic applications
- No operator-handling of parts
- Docking-station for transfer of products to downstream processes
- Hygienic radii and minimal distance between parts to ensure cleanability
- LED-Light from inside the machine eases all human-eye related interventions inside the product area

Custom Process Modules

- Flexibility in the no. of process units
- Asynchronous transport system balances process units with different process speeds
- Customer specific, new process modules can be integrated as required
- Wide variety of process modules such as dosing, heat sealing, ultrasonic welding, foil punching, assembling, marking systems, vision inspections and many more

Different Cleanability Levels Available

- Functional level: usual in medical device assembly and secondary packaging
- Wipe Cleaning Level: usual in standard immunoassay and other diagnostic / pharma filling environments
- DNA-Contamination Abatement Level: usual in molecular diagnostics with DNA-based tests (e.g. PCR)

Documentation

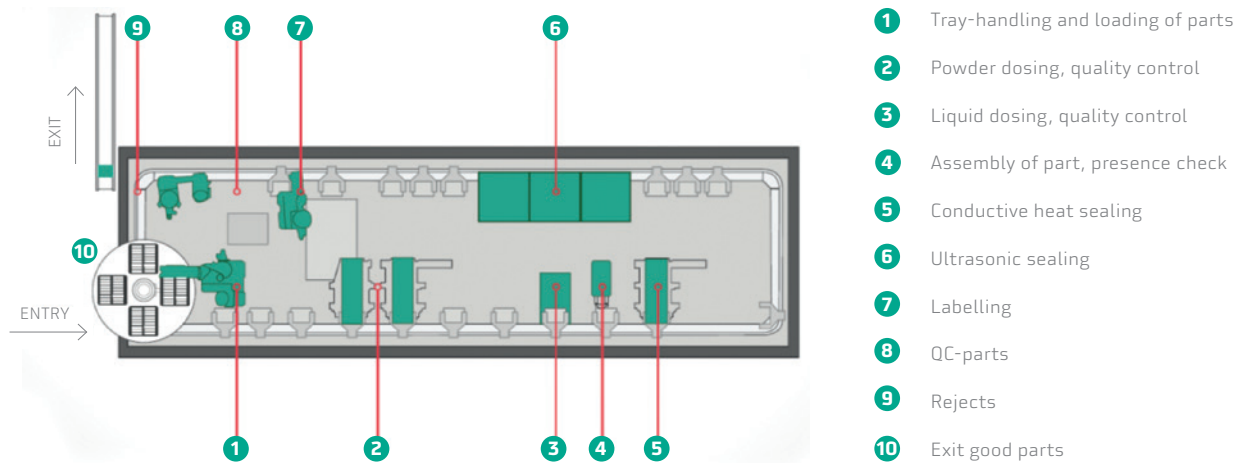
- Qualification documents (DQ, IQ, OQ) are available on request

TECHNICAL DATA MC 1400

Output (parts/min)	Lanes	Size of product	Height of product	No. of processes
10-100	1-5	10-100mm	10-100mm	Typically 3-15

The technical data might vary, depending on the container dimensions and shapes, the product to be filled, the machine configuration and material specifications.

EXEMPLARY MACHINE LAYOUT



IMPRESSIONS



Example of DNA-Contamination Abatement Level Design



LED-Light and accessibility as key features supporting operators



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