

Pharmaceutical Production

(from 100 up to 25,000 injection vials)

Miltenyi Bioprocess provides pharma production capacity of an automated filling line in a class A hard wall isolator attached to a lyophilizer with an overall area for vials of 1.5 sqm and a crimping robot. Our vial filling line has the capacity of several thousand vials per hour and can process vials from 2 mL up to 50 mL.

The pharma production is optimized to handle biopharmaceuticals. Procedures and their documentation according to cGMP and ISO 9001 are in place including the validated automated inner-surface cleaning with hydrogen peroxide steam. We have—as one of a few manufacturers worldwide—implemented a process that allows the controlled, aseptic filling of cell-like particles containing solutions

Performance data for 2R vials (16 × 35 mm):

Filling:

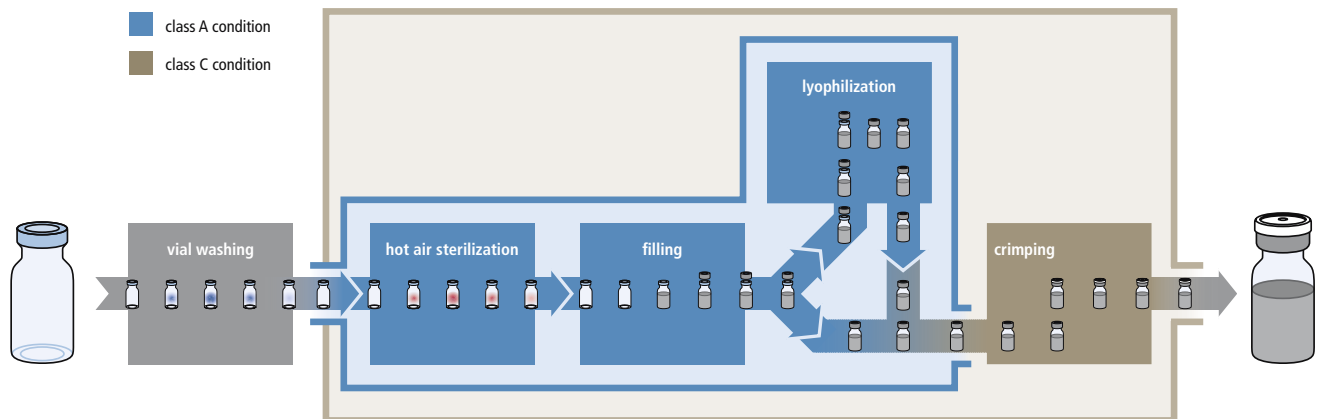
- washing machine: up to 4,000 vials/h
- hot-air sterilizer: ~25,000 vials/batch
- filling machine: up to 3,600 vials/h
- crimping machine: up to 4,000 vials/h

Aseptic lyophilization:

- lyophilizer: 1.5 sqm; up to 4,500 vials/batch

Labeling machine:

- capacity up to 12,000 vials/h



• washing machine



• hot-air sterilizer



• filling line



• exit of lyophilization unit



• crimping unit





Miltenyi Bioprocess

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