

Theory 8:

loading and unloading systems

- type of loading (RR, Frame, Batch)
- design loading and unloading systems in existing lines
- examples for loading and unloading systems

Row by Row loading

- installation in clean rooms class B in a RABS system
- installation in rooms class C with isolator
- Vial Transfer over a loading table into the FD



Batch loading



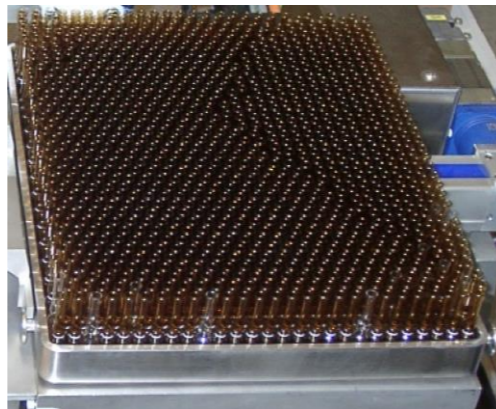
- Loading of a hole shelf at once
- Assembly of the Vials in HEX
- Cooling Table for filled Vials
- Loading with e. g. loading car or loading handlings
- Complete loading in clean room class A including LF
- No operator activities in loading rooms

Frame loading

Frames are stored in a magazine



Assembly of Ampules in HEX



loading frames into the Freeze Dryer

