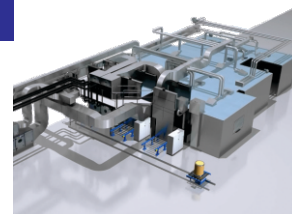




Iskra pio d.o.o.
Industrial equipment manufacturer

CLEAN AREA

SAMPLING / WEIGHING



SAMPLING AREA

Operator, product and environment protection
ISO 4 to ISO 8 (ISO 14644-1:1999)
Class A to D according to GMP



The sampling area is normally located at the entrance of materials to pharmaceutical production process line. The system of rooms, separated by pressure cascades and with different cleanliness and safety classes, is designed according to process parameters (sampling frequency, material transport, cleanliness requirements, ATEX...) and users specific requirements.

- Sampling room with a built-in booth provides clean conditions for sampling and necessary safety for operators and surroundings.
- System of personal and material air locks assure safe and contamination free personal and material transfer to/from the sampling area.
- Peripheral rooms (offices, halls...) allow efficient sampling process execution.

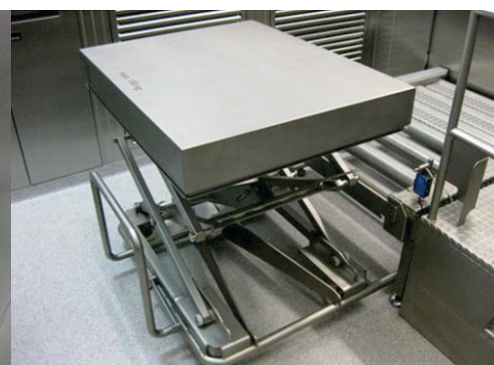


Basic characteristics

- protection for operator, product and environment
- clean zone in accordance to ISO 14644
- controlled and monitored working process (pressure cascades, temperature, humidity)
- complete logistic of material
- integrated material and personal locks (interlock)
- automatic transport
- implemented sensors and safety elements

Booth offers triple protection

- Protects the operator from excessive inhalation of possibly harmful dust particles or aerosols that are generated when working with active materials inside the cabin (unidirectional vertical air flow of HEPA filtered air).
- Protects the surroundings of the cabin because it prevents spreading of dust particles outside the handling area of the cabin (air curtain).
- Protects open materials from external contamination (unidirectional vertical air flow of HEPA filtered air).



WEIGHING AREA

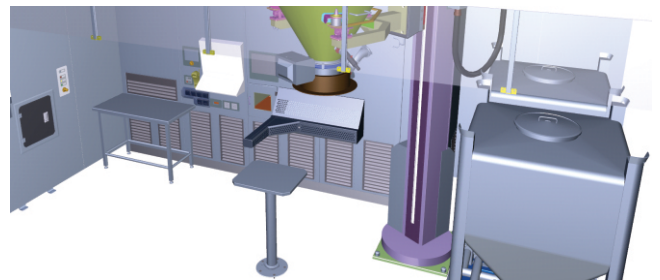
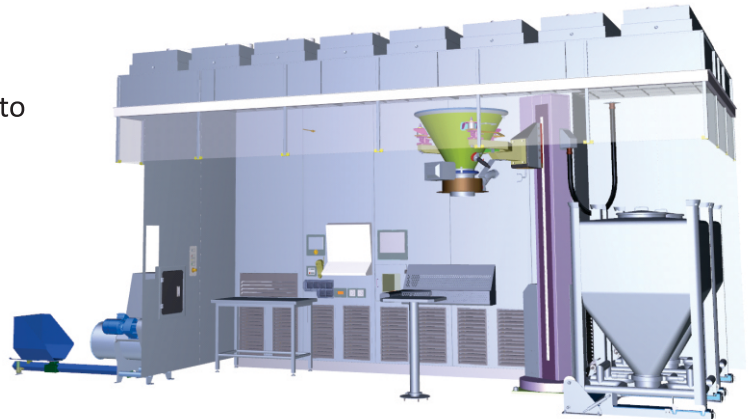
Operator, product and environment protection
ISO 4 to ISO 8 (ISO 14644-1:1999)
Class A to D according to GMP



The weighing area is a system of rooms organized for an efficient weighing process. Weighing cabins present the main part of the system. They ensure protection to operators, environment and substance during weighing/dispensing process. The safety of the operator from exposure to weighted substance is assured by vertical air flow of HEPA filtrated air, which also protects substance from contamination. An air curtain, generated by unidirectional air flow, prevents leakage of weighted substance from booth to environment. Individual devices are with integrated weighing and manipulating equipment adjusted to particular weighing/dispensing process.

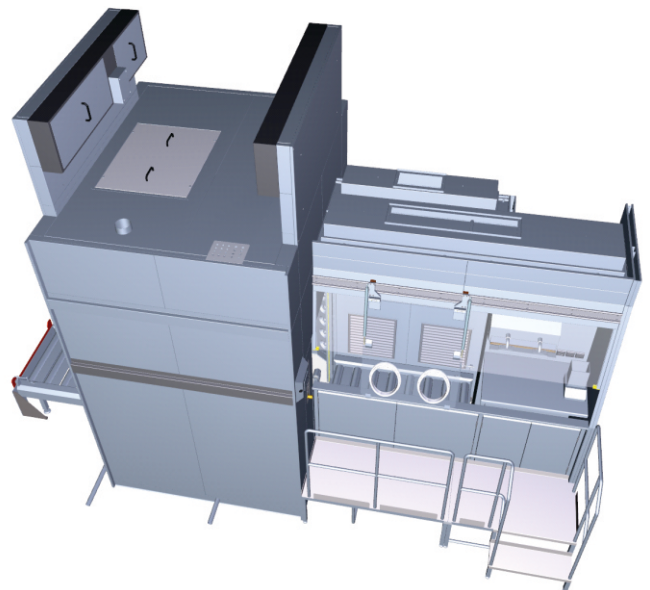
Basic characteristics

- unidirectional air flow enables safe weighing – up to OEB3
- protection for operator, product and environment
- air-handling unit
- clean zone in accordance to ISO 14644
- vertical or horizontal flow of material
- controlled and regulated working process
- complete logistic of material
- fully automated according to GMP
- integrated equipment : lifting/tilting device, weighing hopper, compactor for waste, de-dusting cabinet, table scales, floor scales, built-in air locks with interlock function....



Weighing/sampling cabins

- sampling cabin with movable shield with gloves for increased operator's safety – up to OEB 3, OEB4
- provides clean working conditions
- protects the environment from contamination
- built-in de-dusting air lock with interlock function
- raw materials entering on the pallets
- fully automated transport system with rotation function
- integrated equipment: table, scales, floor scales, welding tongs, lifting table



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