

Material hatches

Active, partially active and passive



Accessories and components



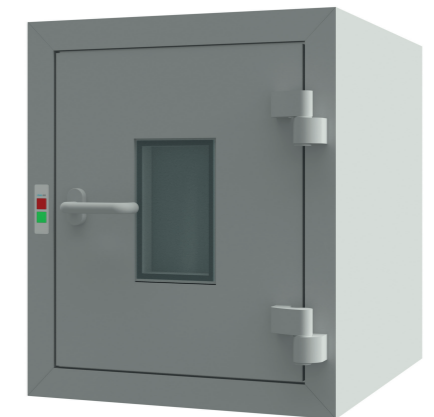
clean-tek offers the following Material hatches

Active material hatches

- Has its own fan
- Operates independently of the cleanroom ventilation system
- Integrated HEPA filter
- Low-turbulence displacement flow in the interior of the hatch
- Frees the products from airborne particles during the rinsing time

Passive material hatches

- No ventilation
- Particle ingress is limited by the function of the mutually electrically interlocked doors
- Designed for quick installation in cleanroom and partition walls, plasterboard or brickwork
- The hatch is easy to clean and resistant to disinfectants



As a system supplier, clean-tek manufactures active, passive and partially active material hatches that are adapted to the requirements of the respective production process.

Due to our own production we offer modules with which we can develop optimal cleanroom solutions. Individual special solutions are part of our standard.

Thanks to the flexibility of our system components, we can guarantee almost unlimited variability.

Our material hatch are used for the controlled entry and exit of products and material between rooms with different cleanliness classes.

Contamination by airborne or adhering particles is reduced to a minimum.

All clean-tek material hatches are equipped with an electrical interlock. In addition to our standard dimensions we also manufacture airlocks to fit your specific application.

Partially active material hatches

- Equipped with supply and exhaust air spigots for connection to the on-site ventilation system
- Integrated HEPA filter
- Delivery includes integrated HEPA filter



Active material hatch

Actively ventilated, with its own fan.
Operates independently of the clean room ventilation system.



Construction:

The body consists of a torsion-free double-shell metal construction, while the outer and inner shells are made of brushed V2A stainless steel (1.4301).

The integrated fan supplies the interior of the HEPA filter to the interior of the airlock.

The return air is extracted via a return air duct at the bottom of the airlock and returned to the fan.
The filter is changed inside the airlock.

Special versions and options:

- Body made of V2A stainless steel (1.4301)
- Individual dimensions
- Free choice of door hinges (left-right / left-left / right-right)
- Door arrangement across the corner
- Delivery of a panelling frame
- Underframe to increase the load-bearing weight
- Special constructions possible on request



Features and benefits:

- Has its own fan
- With integrated HEPA filter
- Produces low-turbulence displacement flow with vertical airflow
- Removes airborne particles from the products during the rinsing time
- Meets purity class A according to EC GMP guidelines, corresponding to cleanliness class 5 according to DIN EN ISO 14644-1
- The doors are partially glazed with 2 x 6 mm float glass
- Designed for wall installation at parapet height or placed on the floor
- Locking time is adjustable and indicated by an electric traffic light (red / green)
- Simple and quick installation in various wall systems, one-sided flush with the surface
- Easy to clean and disinfect

Technical data:

Dimensions	According to customer specification, but Minimum inside: (WxHxD) 420x420x500 mm Minimum outside: (WxHxD): 600x1000x600 mm
Locking time	Adjustable from 0 to 570 seconds
Volume flow	max. 100 m ³ /h
Operating voltage	24 V DC
Voltage connection	230 V / 50 Hz
Max. load-bearing weight	20 kg

Partially active material hatch

For connection to the on-site ventilation system.
With filter and electrical lock.



Construction:

The body consists of a torsion-free double-shell metal construction, while the outer and inner shells are made of brushed V2A stainless steel (1.4301).

The hatch has an integrated HEPA filter and is prepared for connection to the on-site ventilation system.

The return air is extracted via a return air duct at the bottom of the airlock and returned to the fan.
The filter is changed inside the airlock.

Special versions and options:

- Body made of V2A stainless steel (1.4301)
- Individual dimensions
- Transport trolley
- Free choice of door hinges (left-right / left-left / right-right)
- Door arrangement across the corner
- Delivery of a cladding frame
- Underframe to increase the load-bearing weight
- Special constructions possible on request

Features and benefits:

- Prepared for connection to the on-site ventilation system
- Equipped with HEPA filter and connection pipe for supply and exhaust air
- The doors are partially glazed with 2 x 6 mm float glass
- Complies with the requirements of the EG GMP guidelines
- Produces low-turbulence displacement flow with vertical airflow
- Meets purity class A according to EC GMP guidelines, corresponding to cleanliness class 5 according to DIN EN ISO 14644-1
- Locking time is adjustable and indicated by an electric traffic light (red / green)
- Easy and quick installation in various wall systems, flush with the surface on one side
- Easy to clean and disinfect

Technical data:

Dimensions	According to customer specification, but Minimum inside: (WxHxD) 420x420x500 mm Minimum outside: (WxHxD): 600x1000x600 mm
Locking time	Adjustable from 0 to 570 seconds
Operating voltage	max. 100 m ³ /h
Voltage connection	24 V DC
Spannungsanschluss	230 V / 50 Hz
Max. tragfähiges Gewicht	20 kg

Passive material hatch

Without ventilation.
With electric lock.



Construction:

The body consists of a torsion-free double-shell metal construction, while the outer and inner shells are made of brushed V2A stainless steel (1.4301).

The glazing of the door is made of 2x6 mm float glass.

Special versions and options:

- Body made of V2A stainless steel (1.4301)
- Individual dimensions
- Free choice of door hinges (left-right / left-left / right-right)
- Door arrangement across corners possible
- Delivery of a wall bracket or installation frame
- Underframe to increase the load-bearing weight



Features and benefits:

- Reduces particle ingress through the doors that are electrically locked against each other
- The locking time is adjustable and is indicated by an electric traffic light display (red / green)
- Easy and quick installation in various wall systems, flush with the surface on one side
- Economical solution
- The doors are partially glazed with 2 x 6 mm float glass
- Easy to clean and disinfect

Technical data:

Dimensions	According to customer specification, but Minimum inside: (WxHxD) 420x420x500 mm Minimum outside: (WxHxD): 600x600x600 mm
Locking time	Adjustable from 0 to 570 seconds
Operating voltage	24 V DC
Voltage connection	230 V / 50 Hz

Clean-tek stands for first-class cleanroom technology from our own production.

As a pioneer in cleanroom technology, **clean-tek** has played a key role in shaping the development of modern cleanroom technology since 1986.

Tradition, innovation and experience are the values that still characterise **clean-tek** today and at the same time the key to constant growth and success.

Services

- Engineering, implementation and service of cleanroom systems
- Development of customised special solutions
- In-house production of all essential cleanroom components
- Interface management during the entire project
- Consulting and training
- On request, delivery of turnkey cleanroom systems as a general contractor
- Consultation and training

Products

- Cleanroom ceiling systems
- Cleanroom wall systems
- Cleanroom door systems
- Laminar flow modules
- Weighing units and sampling cabins
- Decontamination showers
- Accessories and components among others:
 - Material pass-throughs
 - Lights
 - Filter fan unit