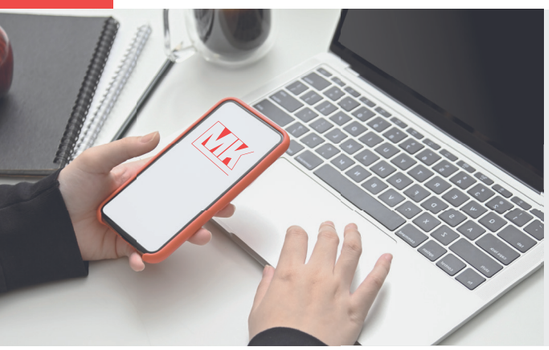
Metal-free cleanroom in a container



Further information or questions?

Give us a call or send us an email.
We will be happy to advise you.

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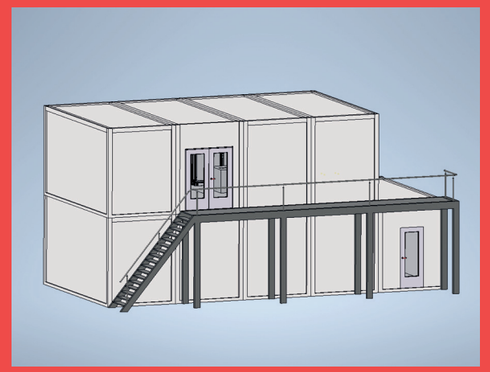
MK Mobile Labs

Metal-free, adjustable & customized



In use around the world

Money and space are limiting factors in many areas of research. MK Versuchsanlagen, manufacturer of customized special systems and equipment, has developed a solution: The specialist for metal-free working environments develops, designs and installs complete metal-free cleanrooms and laboratories in mobile containers. A system with numerous advantages for the user, because the areas of application in research and production, which are in use worldwide, are numerous.

Rapid deployment

The MK Mobile Lab can usually be set up as a temporary or mobile structure and is therefore not subject to the comprehensive official regulations of a new building.

Safety aspects

The use of mobile cleanroom solutions enables an individual approach to safety issues. If special safety precautions are required, such as for research in the field of nanotechnology or biohazardous substances, these can be implemented quickly and directly.

Mobility and flexibility

MK Mobile Labs make it possible to transport the cleanroom to different locations. This is particularly advantageous for research projects that are carried out at different locations.

Adaptability

The metal-free laboratories can be individually adapted and converted according to the needs of the users.

Best practice

MK Mobile Labs

Metal-free seaworthy MK Mobile Lab on “Polarstern” research vessel

A standard sea container as a metal-free cleanroom according to DIN EN ISO 14644, integrated HVAC system and HEPA filtration. Completely self-sustaining. The MK Mobile Lab contains an ultrapure water extraction unit and ultraclean workstations.

MK Mobile Lab on the roof of the Max Planck Institute for Solar System Research in Göttingen, Germany

The project consists of 6 containers according to cleanroom class <6 (DIN EN ISO 14644). 2 containers for HVAC system, HEPA filtration and technics. 4 containers for the use as cleanrooms.
Components: Vertical laminar flow workbenches, PLC controlled hot plates, acid stills, extraction unit for ultrapure water, weighing room, room for sample preparation and storage.

See how the container laboratory was set up on the roof of the Max Planck Institute for Solar System Research.

https://www.youtube.com/watch?v=mqPlEczl4XA