



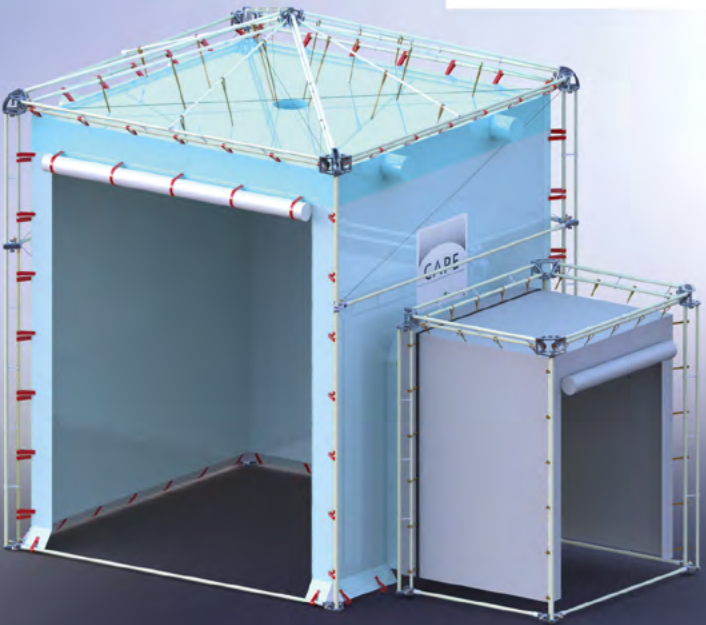
Fraunhofer

IPA

FRAUNHOFER INSTITUTE FOR
MANUFACTURING ENGINEERING AND AUTOMATION IPA

CAPE®

FLEXIBLE, PORTABLE CLEANROOM SYSTEM





STATUS QUO

In sectors of industry with cleanliness requirements, the tiniest amount of contamination is sufficient to cause high reject rates. Such contamination may result in faulty microchips, space probes or lenses. To avoid this, the related production and assembly steps are conducted in a cleanroom. Cleanrooms are generally expensive, inflexible and unable to protect goods against contamination due to transport.

CAPE®

The new cleanroom system CAPE® from Fraunhofer IPA is flexible, stable, transportable and offers a fast, local clean environment to suit individual requirements. The system offers defined cleanroom classes from 1 to 9 according to ISO 14644-1. For the first time, a cleanroom on demand is now available to companies and research institutes that can be erected when and where it is required to keep products and systems clean. As well as offering protection in selected production areas with and without cleanroom systems, work steps and areas sensitive to contamination can be kept separate.

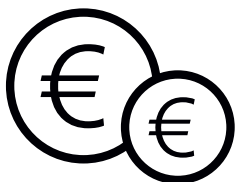
The simple construction principle enables individual solutions to be installed within about an hour.

WWW.IPA.FRAUNHOFER.DE/EN/CAPE

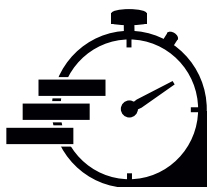


CAPE®

FLEXIBLE, PORTABLE CLEANROOM SYSTEM



COST SAVING



FAST INSTALLATION



FLEXIBLE



PORTABLE

[WWW. IPA.FRAUNHOFER.DE/EN/CAPE](http://WWW.IPA.FRAUNHOFER.DE/EN/CAPE)





SPECIFICATIONS

Cleanliness

- Offers air cleanliness classes ranging from 1 to 9 according to ISO 14644-1 "at rest"
- Typical installation environment: cleanrooms, clean zones, industrial halls
- Single/multi-step filter systems for suspended particles
- Fabric cover practically free of outgassing substances and electrostatically conductive
- Optional: filtration system for chemical substances

Installation/commissioning

- Installation with commissioning, approx. 1 h
- Disassembly, approx. 30 min
- Media supply 230 V
- Installation manual
- Acceptance test report



Construction

- Dimensions on request: XS –XL (Size M \triangleq 3 m x 3 m x 4,5 m)
- Overall weight: varies according to dimensions (M approx. 60 kg)
- Several CAPE®s can be joined together to form a larger system
- Can be combined with existing manufacturing equipment
- Air distribution system for uniform airflow distribution
- Double frame made from GFRP segments assures high stability
- Removable floor
- Separate staff lock (optional)
- Transport box

OUR SERVICES

- Advice on individual solutions
- Design and construction of prototypes
- On-site installation
- Acceptance tests and documentation
- Technical support

CONTACT

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