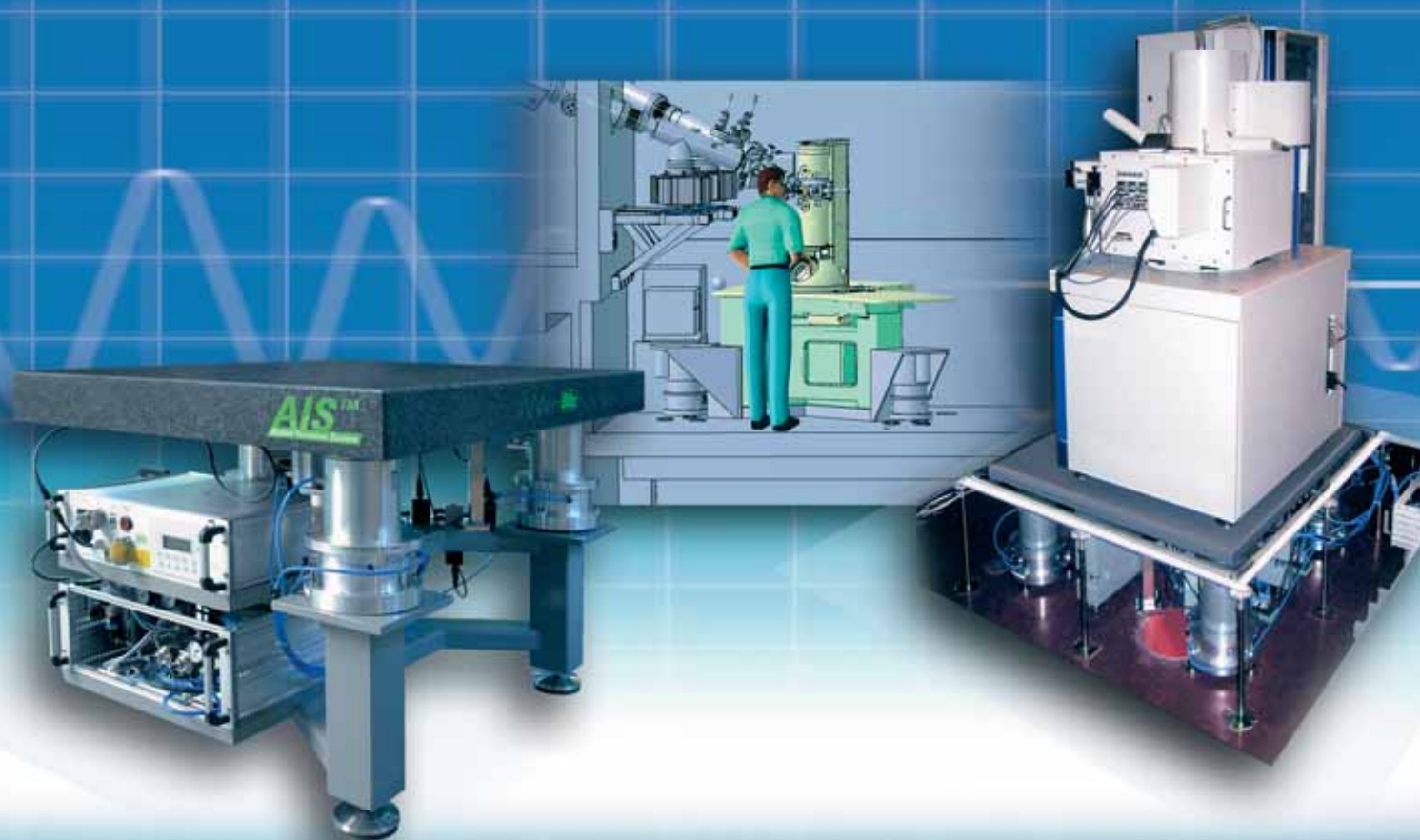


V I B R A T I O N T E C H N O L O G Y

VIBRATION ISOLATED PLATFORMS



FOR HIGH-END VIBRATION PROTECTION
OF SENSITIVE EQUIPMENT

ELECTRON MICROSCOPES
METROLOGY AND INSPECTION MACHINES
SEMICON-INDUSTRY
NANO-TECHNOLOGY

VIBRATION ISOLATED PLATFORMS

As a global leader specializing in the field of anti-vibration, Bilz Vibration Technology offers premium solutions to problems caused by ambient building vibration.

The solution process begins with an advanced on-site vibration analyses, followed by the selection and layout of an isolation system; design, manufacturing and delivery of a platform and finishing with the installation and acceptance tests at the customer. Bilz is your source for complete turnkey solutions.

Our years of experience in the field of vibration isolation combined with our broad range of standard products guarantee the best technical and cost-effective solution.



1. Vibration Analyses

To optimize the design layout and achieve the best isolation results Bilz starts by conducting an on-site vibration analyses. Bilz uses high-end FFT-Analyzers along with the best seismic acceleration sensors and geophones on the market.



2. Engineering and Design

Complementing our broad range of products, Bilz offers customized systems and solutions that guarantee superior results. Engineering and design is part of our core business and our technical leadership is advanced through R&D and continuous improvement.



3. Production

Production, assembly and quality control is in-house and located within our headquarters in Stuttgart-Leonberg, Germany. Special requirements such as; Cleanroom packaging or special logistic solutions can also be offered. Bilz is ISO 9001 certified.



4. Installation

System installation can be conducted by Bilz field service engineers or by trained customer staff. The Bilz Active Electro- Pneumatic Isolation System can be installed and put into operation, including acceptance test, in one or two days. Bilz guarantees global service and support, with representatives in more than 20 countries.

FIELD OF APPLICATION

In many leading-edge industries the equipment and process requirements are becoming tougher to meet. Sub-micron, nano or even angstrom resolution is becoming a common customer requirement. Due to facility and on-site conditions, e.g. floor vibration, these resolutions are very hard to reach. High-end microscopes, metrology, inspection and repair equipment as well as other sensitive tools in the semiconductor industry, microbiology and scientific research will not perform to specification without adequate vibration isolation. Isolated platforms are used when the equipment does not have an internal vibration isolation system or when the internal system is not effective enough in isolating the external vibration.

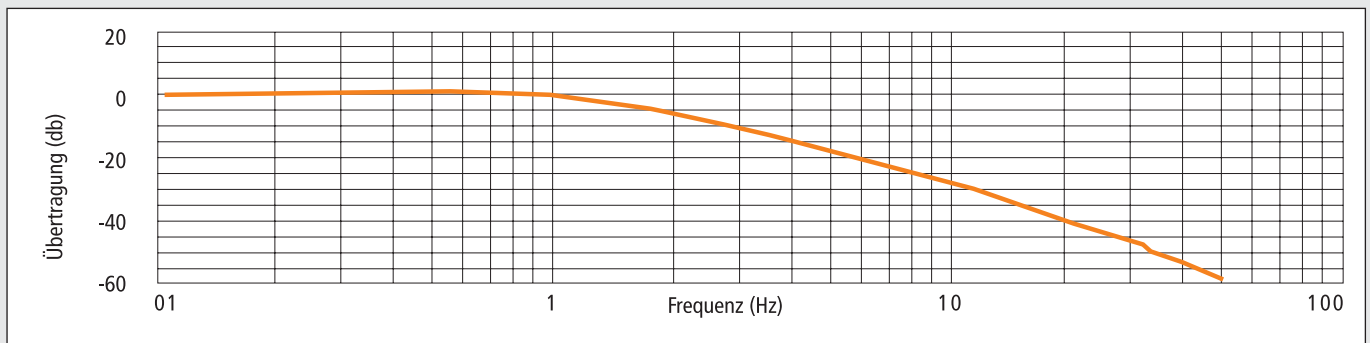
SYSTEM DESIGN

Based on customer requirements of isolation performance and on-site conditions, Bilz can design and build customize systems using cost-effective passive isolators with mechanical level control or for high-end requirements the cutting-edge active AIS™ isolation system in 6 degrees of freedom. The platforms are customized and optimized in terms of rigidity, weight, dimensions, center-of-gravity, and choice of isolators according to customer requirements.

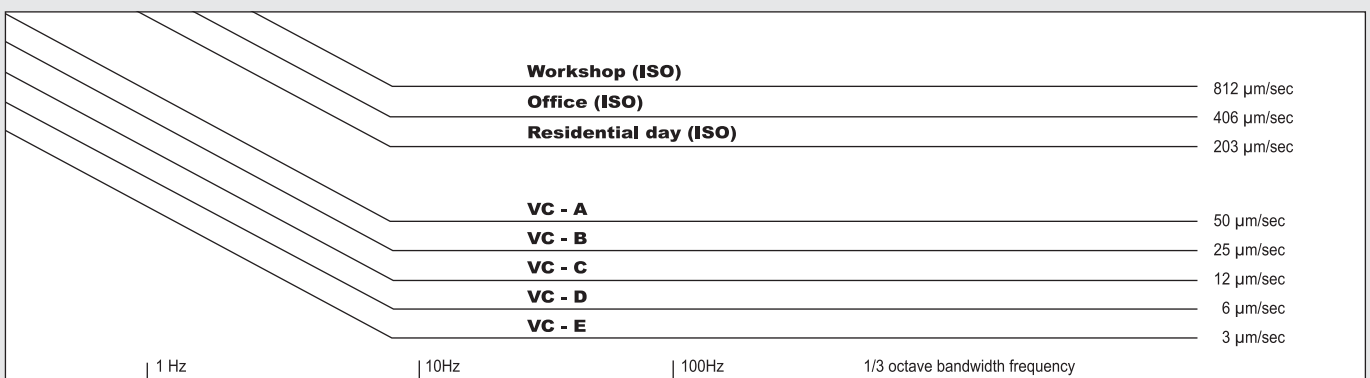
RESULTS

Depending on the customer requirements, floor conditions and system design of the isolated platforms, Bilz will enable your machine to meet vibration criteria of VC-D ($<6\mu\text{m/s}$) and VC-E ($<3\mu\text{m/s}$). This allows our customers to reach specification from nano to sub-Angström resolution.

Transmissibility Function AIS™ with 6 Degrees of Freedom



Vibration Criteria, VC



Our references:

Applied Materials, FEI Company, Hexagon, Hitachi, JEOL, Micronic, Omicron, Raith, Vistec, Yxlon, Zeiss

AIS™

Active Isolation System



Bilz Vibration Technology AG
Böblinger Str. 25 · D-71229 Leonberg
Fon +49 (0) 71 52/30 91- 0 · Fax +49 (0) 71 52/30 91-10
info@bilz.ag · www.bilz.ag

Platform for integration
in raised- / cleanroom floor

Platform for minimum working
height and low center of gravity

Isolated table
for small equipment

