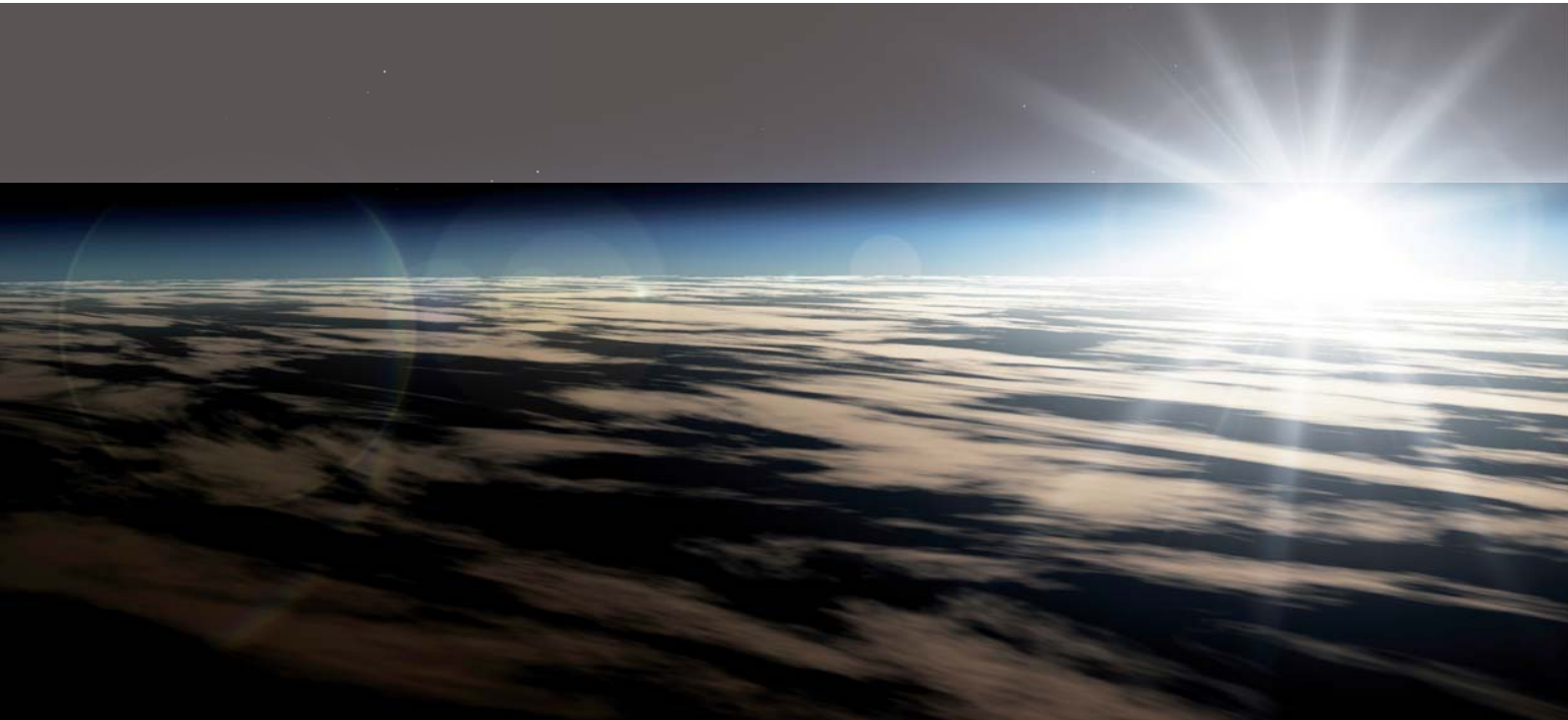




M+W GROUP



Space Industry and Research Facilities

M+W Group – Your professional Partner for the Space Industry and Research Facilities



M+W Group is the leading global partner for engineering, construction and project management in the fields of Advanced Technology Facilities, Life Science Industries, Energy & Environment Technologies and High-Tech Infrastructure.

From concept development to turnkey services the company manages projects of all sizes ensuring rapid realization, high quality standards and cost-effective completion. With its competence to link process technology, automation and complex facilities to integrated solutions M+W Group primarily focuses on leading electronics, power generation, life science, photovoltaic, chemical, space, automobile and communication companies, as well as research institutes and universities.

For more than 50 years, M+W Group has applied expertise in advanced technologies to serve the space industry and governmental agencies throughout the world in the design and construction of sophisticated facilities.

Providing experienced international design and design-build resources and capabilities, the core skills of M+W Group have direct application in facilities which support the space industry.

M+W Group's commitment to identify, design and build for excellence is equal to the dedication of our clients. Our foundation is constructed on experience:

- Millions of square meters of built environments
- Thousands of hours collaborating with clients
- Hundreds of successfully executed science projects
- Decades designing the most complex technical facilities in the world
- One philosophy: Add value

Needs in the Space Industry and Research Institutes

drive the planning of the facility. Each facility is unique and designed from the inside – your research needs – to the outside – the building - by our experts.

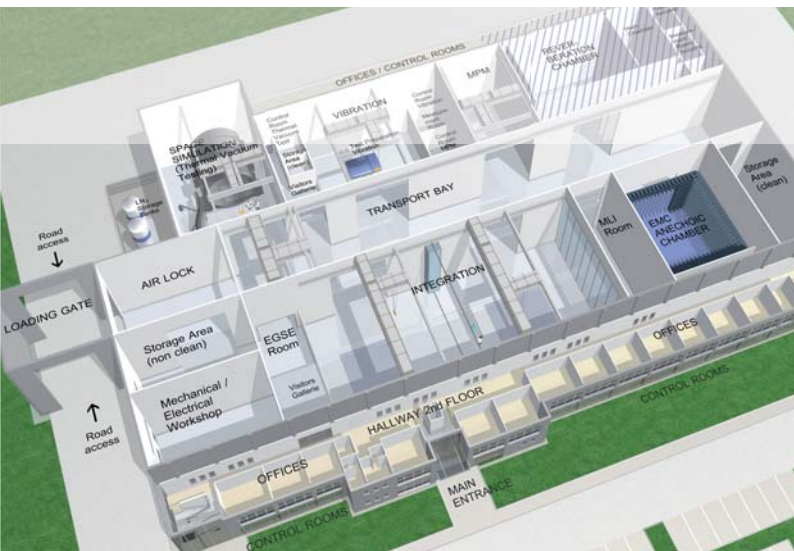
Processes can e.g. demand requirements like EMI/RFI shielding, vibration mitigation, acoustic isolation, clean working conditions or the isolation of biolabs by bay/double chase arrangements. These different types of working environments have to be sensibly clustered and integrated in the facility layout.

Since research programs change, a maximum of flexibility in the manufacturing layout has to be considered from the very beginning. Future requirements like expansion, conversion or even contraction are to be evaluated during the design phase.

New processes and products may require additional supply systems or an upgrade of existing systems. Migration from a pilot line to a small volume manufacturing line may demand an upgrade of environmental cleanliness.

Identifying the user's needs and understanding research roadmaps is the key in designing outstanding research facilities.

Our Service Portfolio



– Studies – Engineering – Construction

- Satellite Test Facilities
- R&D Labs
- Cleanroom Technologies
- Anechoic Chambers
- Mission Critical Facilities
- Contained Environments
- Command and Control Facilities
- Biosecurity and Planetary Protection
- Deployable Plant

- Curation and Novel Facilities
- Aerospace Research and Development Facilities
- Electronics and Avionics Production Plants

Concept studies which assess opportunities, risks and costs to demonstrate feasibility of future programs.

From Consulting to Turnkey Solutions based on Client specific Requirements

Consulting Services, Evaluation, Programming	Planning and Design	Construction Management and Build	Facility Services Maintenance Operation
<ul style="list-style-type: none"> • Site selection • Feasibility studies • Technology workshop • Flow simulation (CFD) • Conceptual design studies 	<ul style="list-style-type: none"> • Preliminary Design • Detail and Final Design • Permits/ Environmental Compliance • Value Engineering • TCO Calculations 	<ul style="list-style-type: none"> • Project Management • Procurement • General contracting • Safety Management • Time Management • Cost Control • Start-up • Commissioning 	<ul style="list-style-type: none"> • Maintenance of Technical Building Systems • Energy Management • Infrastructure Services • Commercial Services • Security Services

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