

NEWSPACE MARKET · COMPANY PROFILE



IABG

Germany · founded 1961 · iabg.de

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as of 20 August 2026

IABG

IABG (Industrieanlagen-Betriebsgesellschaft mbH) is a leading German technology and testing company headquartered in Ottobrunn near Munich, founded in 1961, providing comprehensive testing, qualification, systems engineering, and technical consulting services for the aerospace, defense, automotive, and energy sectors. In the space domain, IABG operates one of Europe's most capable satellite test centers, offering vibration and shock testing (ZEUS facility), thermal-vacuum testing (TITUS facility), acoustic testing (AGATA facility), electromagnetic compatibility (EMC), and structural testing for spacecraft and launch vehicle components. Major clients include ESA, DLR, Airbus Defence and Space, OHB, and all major European space primes. IABG employs approximately 1,500 people and is majority-owned by the German Federal Government (represented by BImA).

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Consulting and Risk Assessment

IABG provides competent consulting to identify risks, weaknesses, and create transparency, contributing to enhanced security.

Experimental Investigations and Technical Analyses

IABG conducts experimental investigations and technical analyses for military and civil applications according to national and international standards.

Tailored Solutions Development

IABG develops customized solutions for a secure future, especially when standard solutions are insufficient.

Test Stand Development, Construction, and Operation

IABG develops, builds, and operates test stands at their facilities and on customer sites.

Virtual Prototyping and Simulation

IABG accelerates product development and approval processes through numerical experiments and analyses with virtual prototypes.

Product catalogue



IABG

IABG Space Systems Testing and Qualification Services

Europe's foremost independent space test centre — thermal-vacuum, vibration, acoustic, EMC, optical, and structural qualification for satellites and spacecraft, operating at IABG O

Thermal vacuum chamber (Phenix, ESTEC/ETS)	4 m diameter × 10 m length, <10 ⁻⁵ mbar
Acoustic test facility max SPL	156 dB
Vibration table mass capacity (Hydra, ESTEC)	20 tonnes
Vibration actuators (Hydra)	8 × 680 kN hydraulic, 6 DOF
Test types	Thermal-vacuum, solar simulation, vibration, shock, acoustic, EMC, modal analysis, optical
Optical facility	Competence Centre Optics (CCO) – unique in Europe
ESTEC partnership	European Test Services (ETS) B.V. – IABG/Airbus joint venture

price on request



IABG

IABG Virtual and Hybrid Testing and Simulation

Virtual and hybrid testing services for spacecraft — high-dynamics simulation, shock simulation for naval and space platforms, HPC-based fatigue and vibration virtual safeguarding.

Simulation types	High-dynamics, shock, vibration, fatigue strength, operational modal, thermal-structural
Methods	Explicit finite-element (fast transients), implicit FE (fatigue/thermal), hybrid virtual-p
HPC infrastructure	In-house High Performance Computing cluster
Modal analysis	EMA and OMA (experimental and operational)
FEM correlation	Physical test-correlated finite-element models
Applications	Launch environment prediction, shock propagation, life extension, test cost reduction
Integration with physical testing	Hybrid campaign design (virtual + selective physical)

price on request

Contact IABG

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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