



ANALYTICAL STRENGTH ASSESSMENT WIAM[®] FATIGUE RIFEST – THEORY AND PRACTICE WITH THE FKM-GUIDELINE

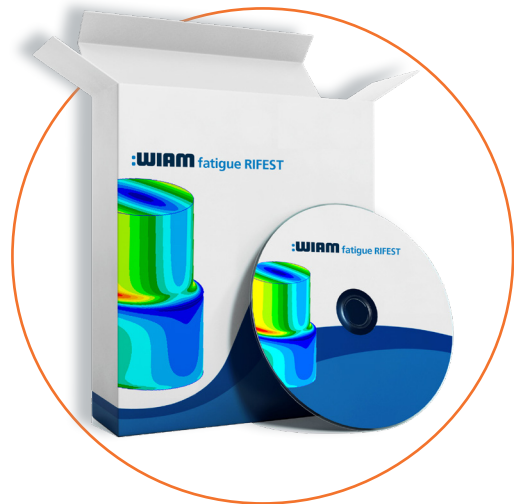
We are the partner you can contact when it comes to strength assessment. Determine this by calculation with the WIAM[®] fatigue RIFEST software according to the FKM-Guideline.

SOFTWARE WIAM[®] fatigue RIFEST

WIAM fatigue Rifest uses the 7th edition of the FKM-Guideline, published in 2020. Engineers and designers from various fields will benefit from the theoretical knowledge and practical know-how of the IMA experts in dealing with the FKM-Guideline.

WIAM fatigue Rifest allows the users to apply the complex algorithm of the FKM-Guideline to their engineering designs based on calculated stresses from finite element simulations or measured stresses from strain gauge measurements.

This enables the users to perform a strength assessment according to the state of the art.



PROGRAMME CONTENTS

BASIC EDITION

- Static strength assessment
- Fatigue strength assessment for constant amplitudes and variable amplitudes
- Strength assessment for several assessment points on the basis of existing local elastic stresses (e.g. of FEM-calculation or strain gauges measurements)
- For volumetric non-welded components (base material)
- Comprehensive database for non-welded machine components: rolled steel, iron casting materials, aluminium materials (incl. material characteristics)
- Normal and increased temperature
- Updates, support and maintenance
- German or English version

PREMIUM EDITION

The package Premium offers in addition:

- Shell-shaped welded components
- Comprehensive database for welded machine components
- Comprehensive presentation of the results in report form

SERVER LICENSE VERSION

External on-demand server

- Worldwide access independent of location
- More flexibility during usage
- Low IT effort
- Automatic software maintenance
- Constant availability
- Shorter, more flexible terms
- Cushioning of high loads

BOOKABLE OPTIONS

- Server version
- Site license model
- Group licence model
- Floating license
- Updates, support and maintenance after the first year
- Competent IMA consulting for FKM-Guideline
- Buying or rental license

TRAINING FKM-GUIDELINE



TRAINING CONTENTS

1. Introduction to FKM-Guideline
2. Non-welded components
3. Welded components
4. Acquisition of input values for strength assessment
5. Individual points of interest

We train you to the FKM-Guideline online, on site or in our house. The training explains the methods and background information of the analytical strength assessment according to FKM-Guideline.

TRAINING WIAM[®] fatigue RIFEST

We provide trainings about the calculation programme and the FKM-Guideline. Please contact us to arrange a meeting – either at our facilities or directly at your site.

TEST VERSION

You can test WIAM fatigue Rifest with a test version. Please contact us to get your login for a free trial.

Visit for more information:

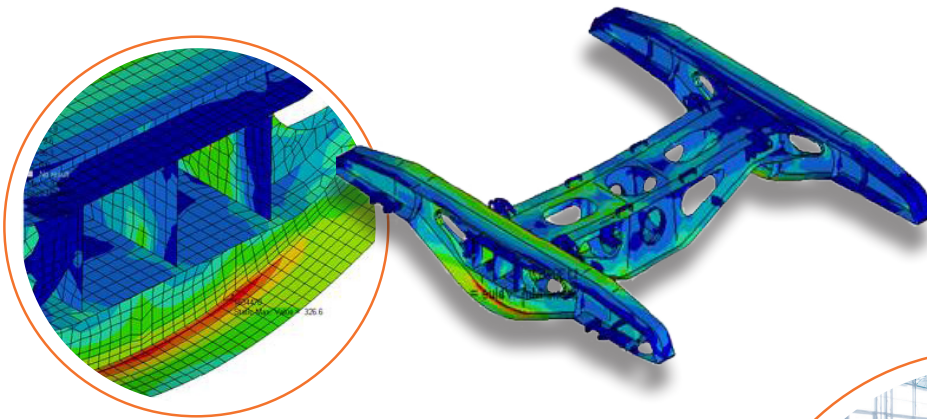


View of the user interface

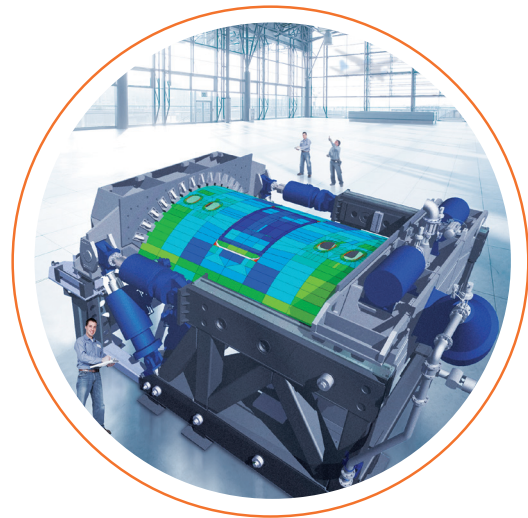
Output using Rain Flow Matrix as an example

SIMULATION AND COMPUTATION

- Development and elaboration of concepts for the analytical strength assessment for practical applications under consideration of our knowledge from several fields of industrial application
- Solution to urgent component strength issues through methodical support, engineering services, and constructive consultancy
- Analytical strength assessments based on measured stresses, also for extraordinary problems



- Development and implementation of customer-specific software for analytical strength assessment and measurement data analysis
- Work on research and development projects to analytical and experimental strength assessments



BENEFIT FROM THE COMPETENCE OF APPLUS+ IMA

Applus+ IMA is an internationally certified and accredited test center for manufacturers and the entire supplier's industry all around the qualification, validation and monitoring of materials, components and structures.

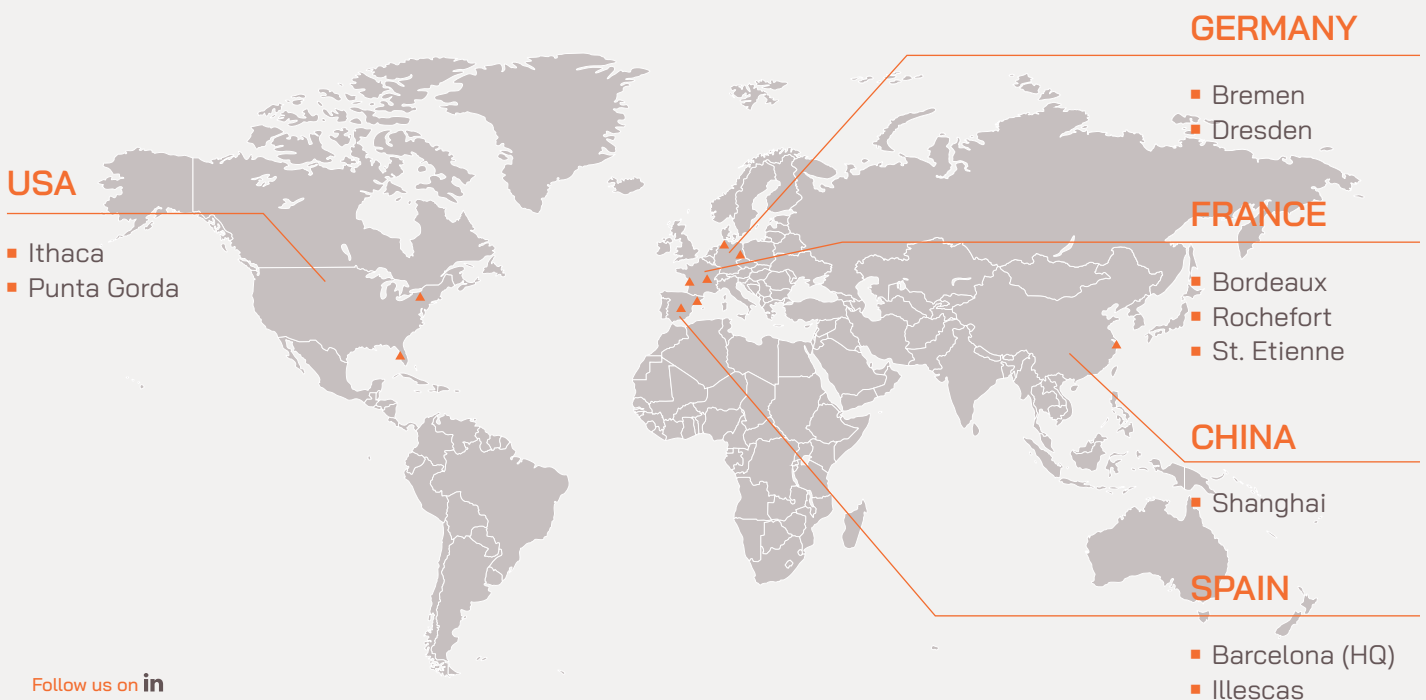
We have over 10,000m² of test area where we can test innovative products and technologies from aerospace, rail vehicle, automotive and medical technologies, shipbuilding, plastic, metal and electrical industries and other industrial branches.

As a part of Applus+ Laboratories, an division of the Applus+ Group, Applus+ IMA is embedded in a global network that provides testing and certification to improve the competitiveness of the client products and encourage innovation.

As a partner of industry, economy and research, Applus+ IMA has been helping to make the products of tomorrow more reliable, efficient and safe.

Please do not hesitate to contact us for any questions or inquiries at sales@applus.com.

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