

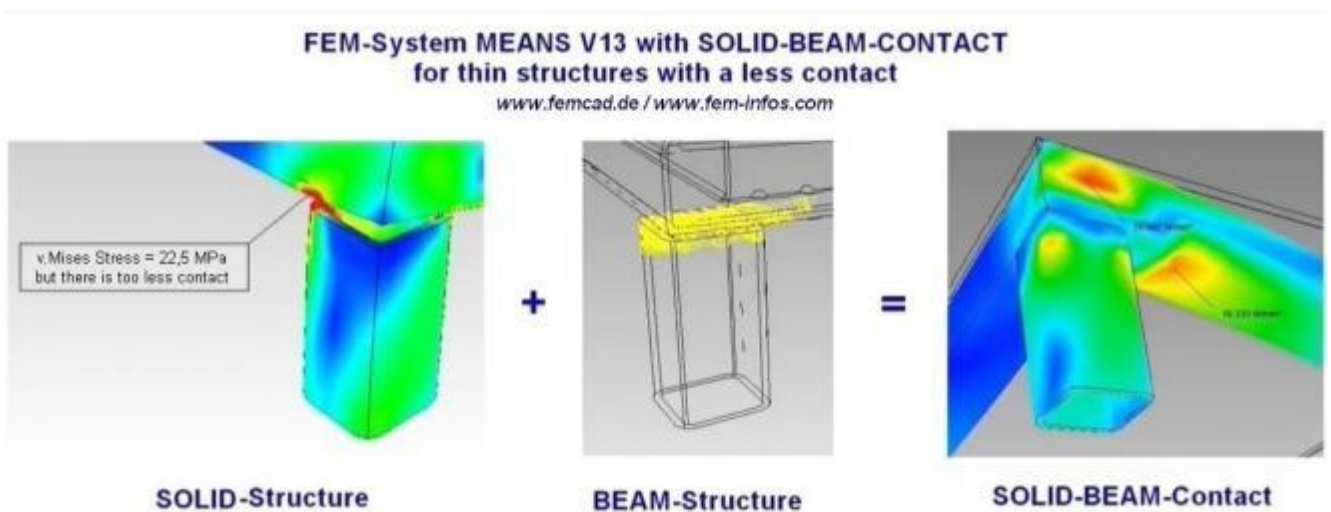
# FEM-System MEANS V13

**Now Discount of 20% until 31. January 2025**

## **MEANS V13 WORKS for 499 €**

FEM-System with linear statics calculations with linear and quadratic 3D beams, 2D planes and plates, axialsym. 2D, 3D shells and 3D-solid elements (hexahedron, pentahedron, tetrahedron). Nodal loads, line loads, distributed loads, centrifugal loads, gravitation and temperature loads, FEM-Structures with different materials, 2D/3D mesh generation with a CAD-Interface DXF, STL, STEP and IGES. Quick FE-Solver until 499 000 nodes and 499 000 elements with all element types.

Also it is possible to repair faulty FEM meshes or CAD-Assemblies (because profiles are too thin, there unconnected parts or there are no weld seams) with a fully automatic Solid-Beam-Contact for all basic versions ([Sample-Video](#)).



## **MEANS V13 INVENT for 999 €**

same functions as MEANS V13 WORKS with until 999 000 nodes and 999 000 elements.

## **MEANS V13 HIGH END for 2490 €**

same functions as MEANS V13 INVENT with unlimited nodes and elements.

## **Add-Ons**

### **Add-On module DYNAMIC for 350 €**

Calculations of Eigenvalues, natural frequencies with characteristic modal forms.

### **Add-On module FORM OPTIMIZATION for 250 €**

Material can be saved up to 70%.

### **Add-On module BUCKLING for 350 €**

Calculate the critical buckling loads with the buckling modes shapes.

Fatigue-Calculations with the German FKM-Richtlinie with Dialogboxes

### **Add-On module TEMPERATURE for 350 €**

Temperature analysis for steady and transient temperature field calculation with convection, point-, surface- and 3d heat sources.

### **Add-On module NONLINEAR, CONTACT and DROP\_TEST for 700 €**

Calculation of Rolling Contact Pressure (Hertz contact problems) of train and rail systems or ball and roller bearings or other contact problems like bolted or clamped parts sittings. Also included MPC elements to connect structures with different mesh sizes or to calculate with different material datas. Geometrically nonlinear and with load increments for large deformations. FEM-Calculations for plastic deformations with a Stress-Strain-Database. Also it is possible to calculate simplified Drop Test with a impact factor and gravitation load.

***Ing.Büro HTA-Software***

***FEM-Software und FEM-Berechnungen***

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