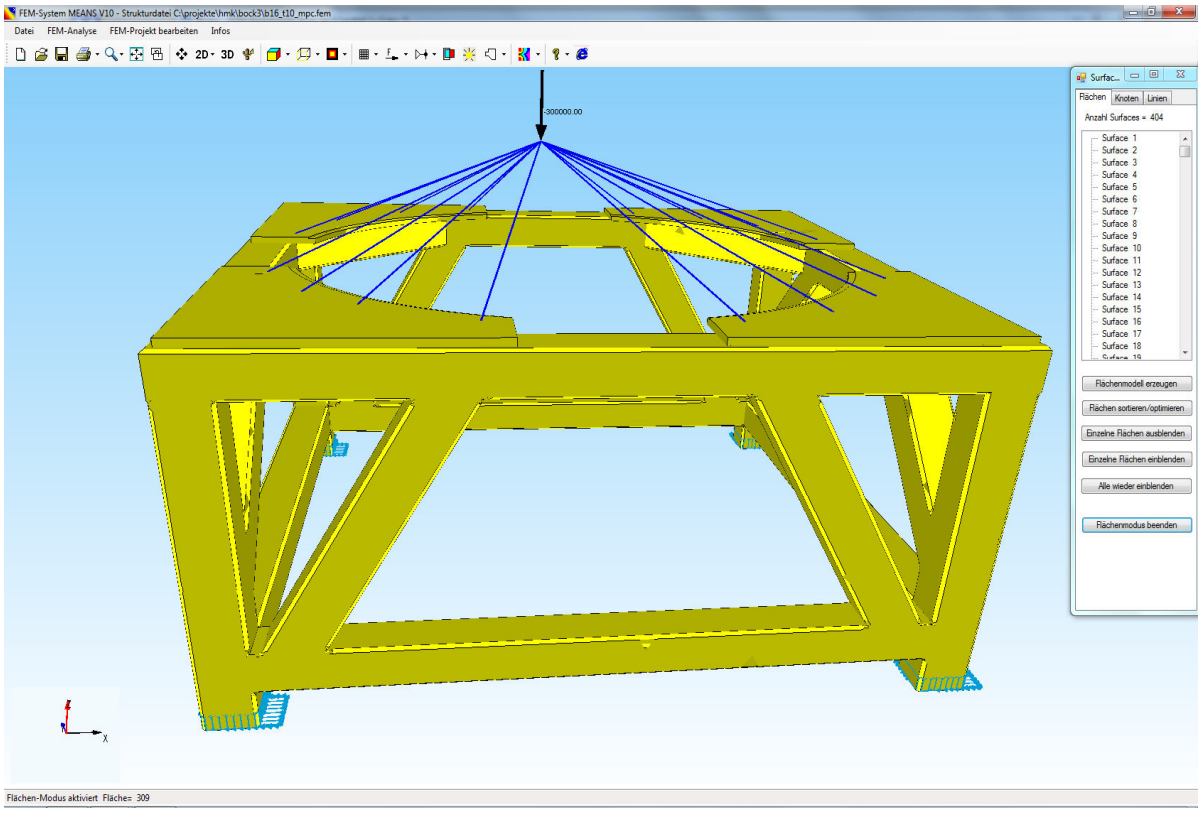
FEM-Calculation
of a LEO2 Transport Cradle
with FEM-System MEANS V10
from HTA-Software

www.fem-infos.com

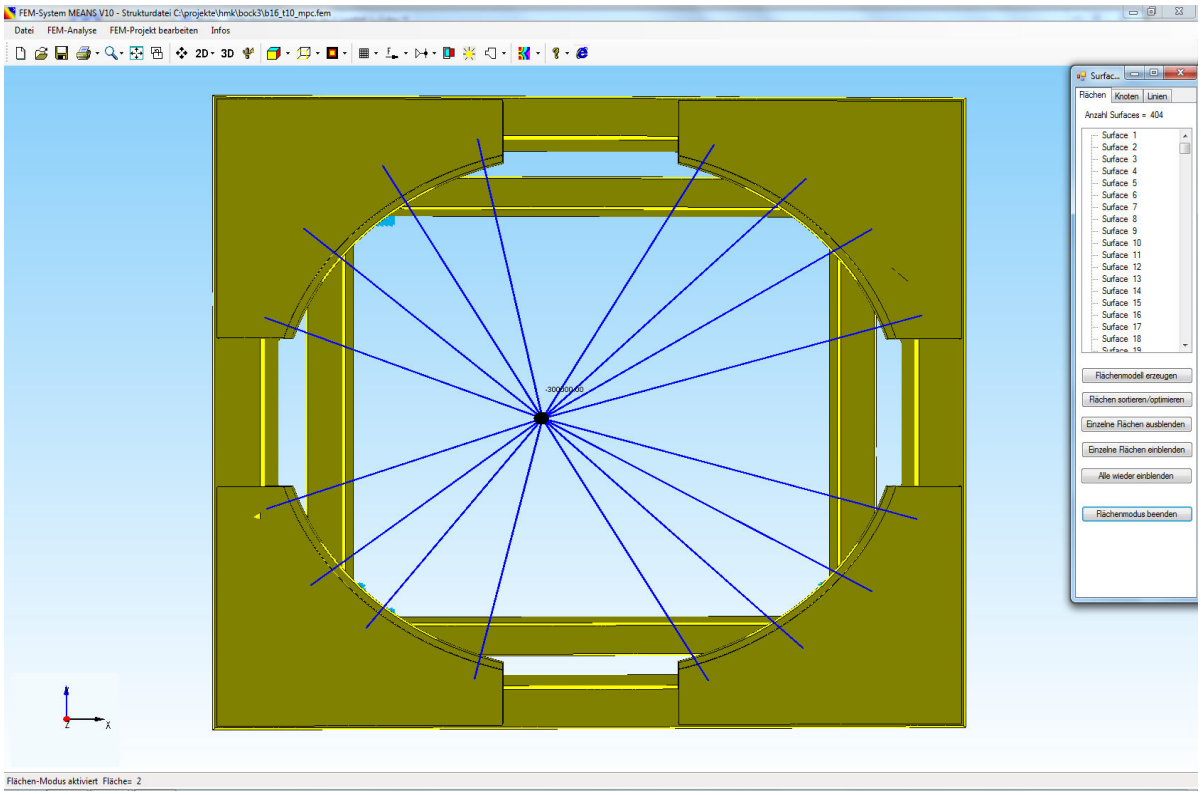
Finite Element Structure

217 289 Nodes
378 833 TET10-Tetrahedral Elements
651 867 Degrees of Freedom



View from below

The weight center was offset by 118 mm on the X axis

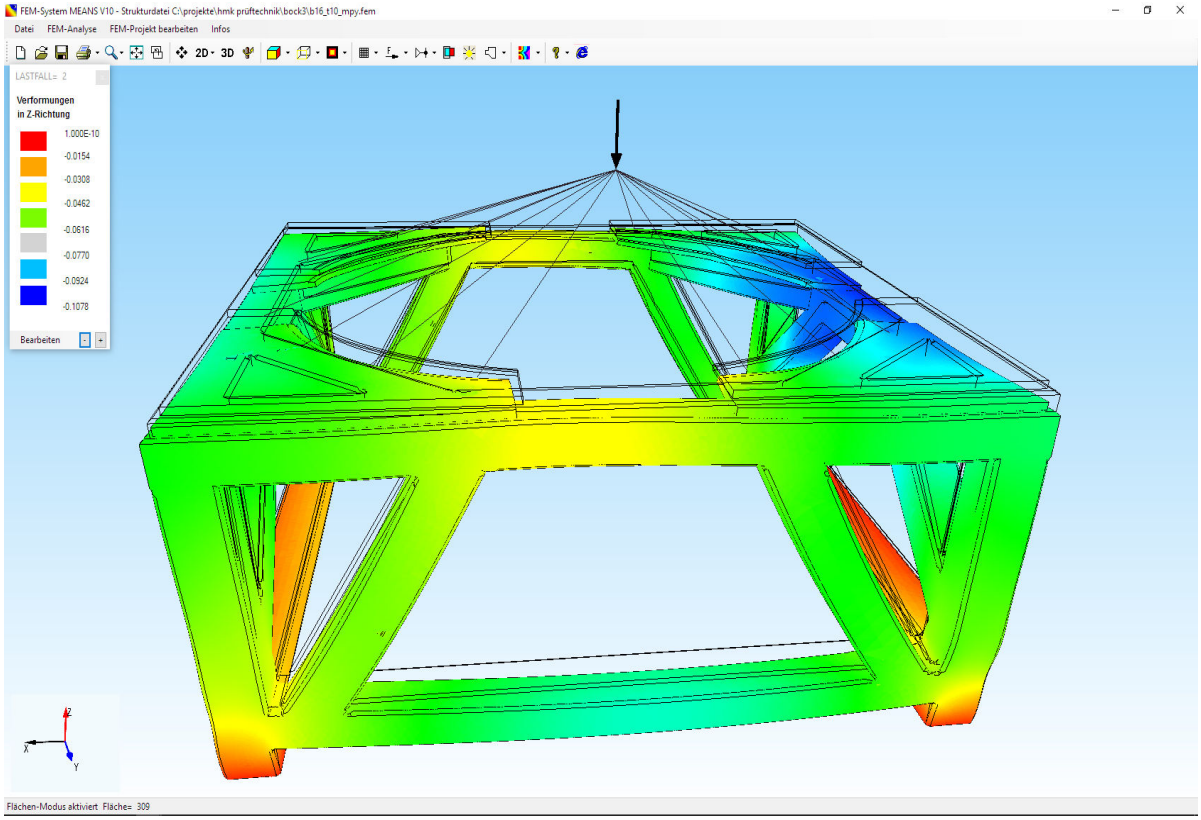


Load Case 1

- Total Load of 30 tons
- Gravitation Load 1g downward

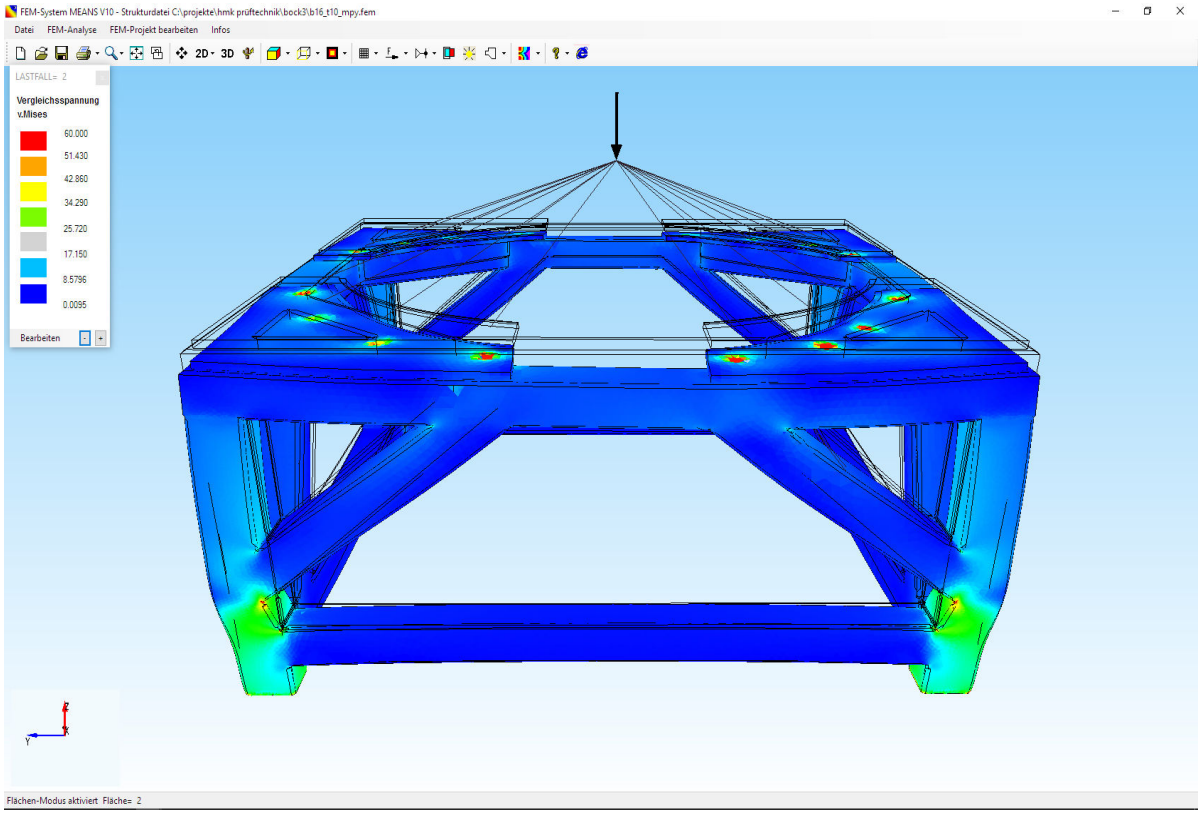
Displacements

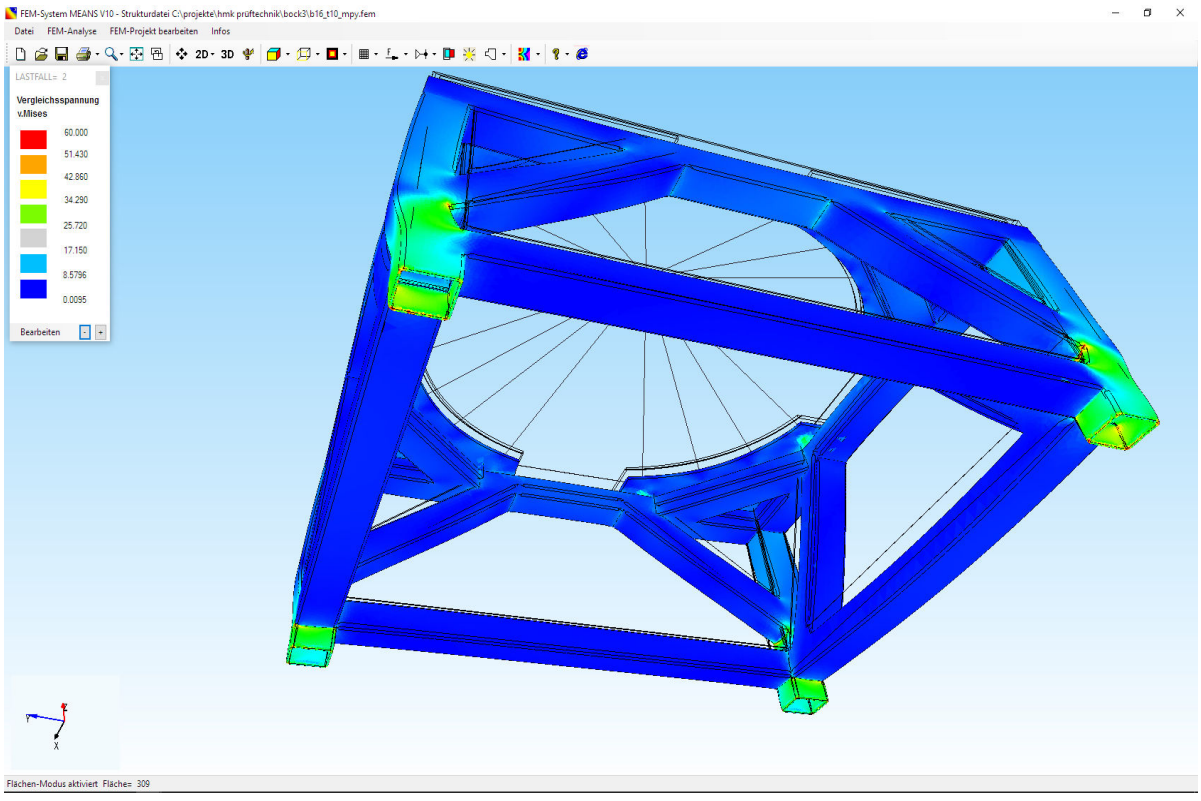
Max. Displacements in Z Direction = - 0.1078 mm



v.Mises-Stresses

Max. v.Mises-Stresses = 55 MPa



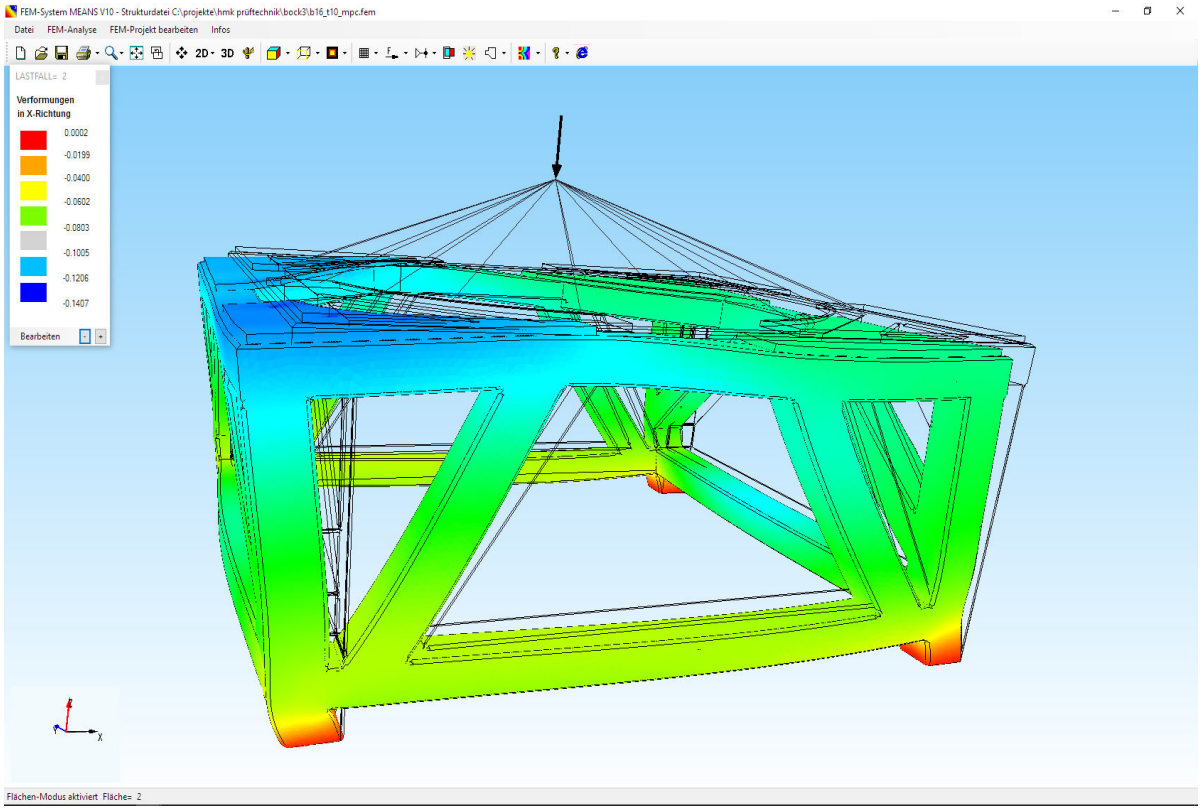


Load Case 2

- Total Load of 30 tons
- Gravitation Load 1g downward
- Gravitation Load 2g longitudinal

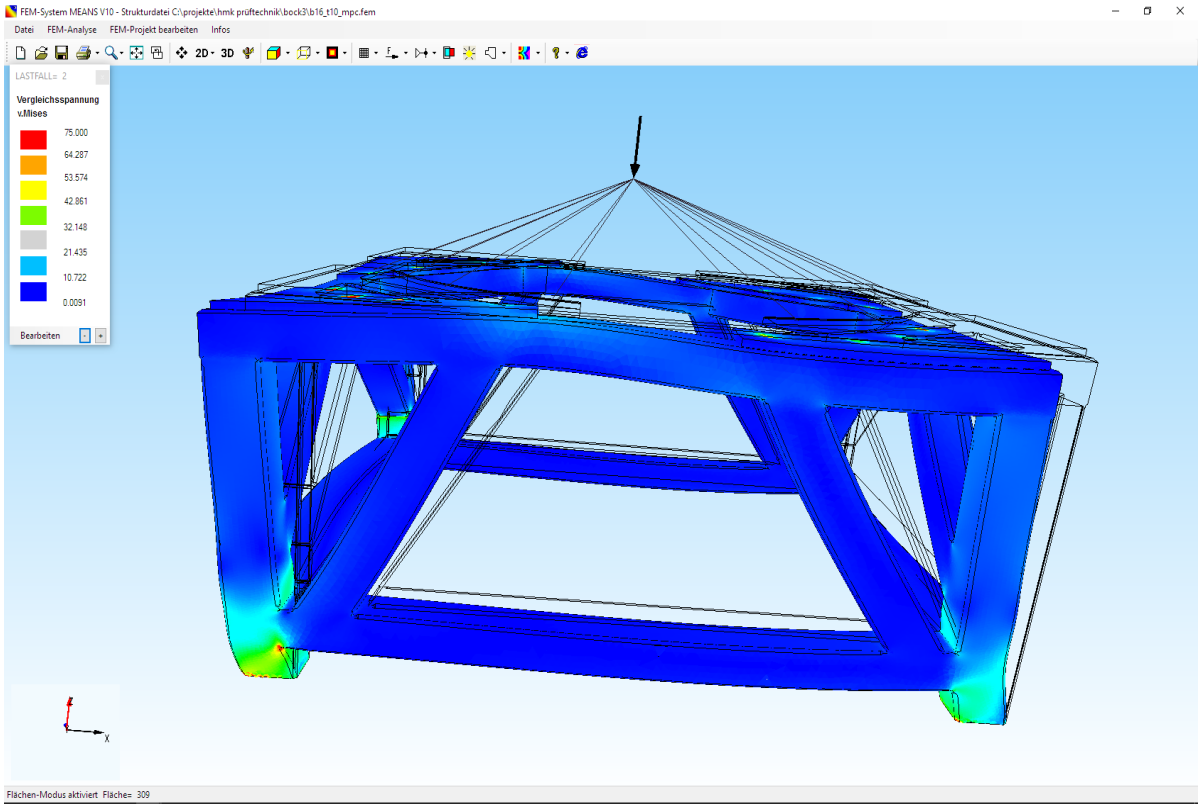
Displacements

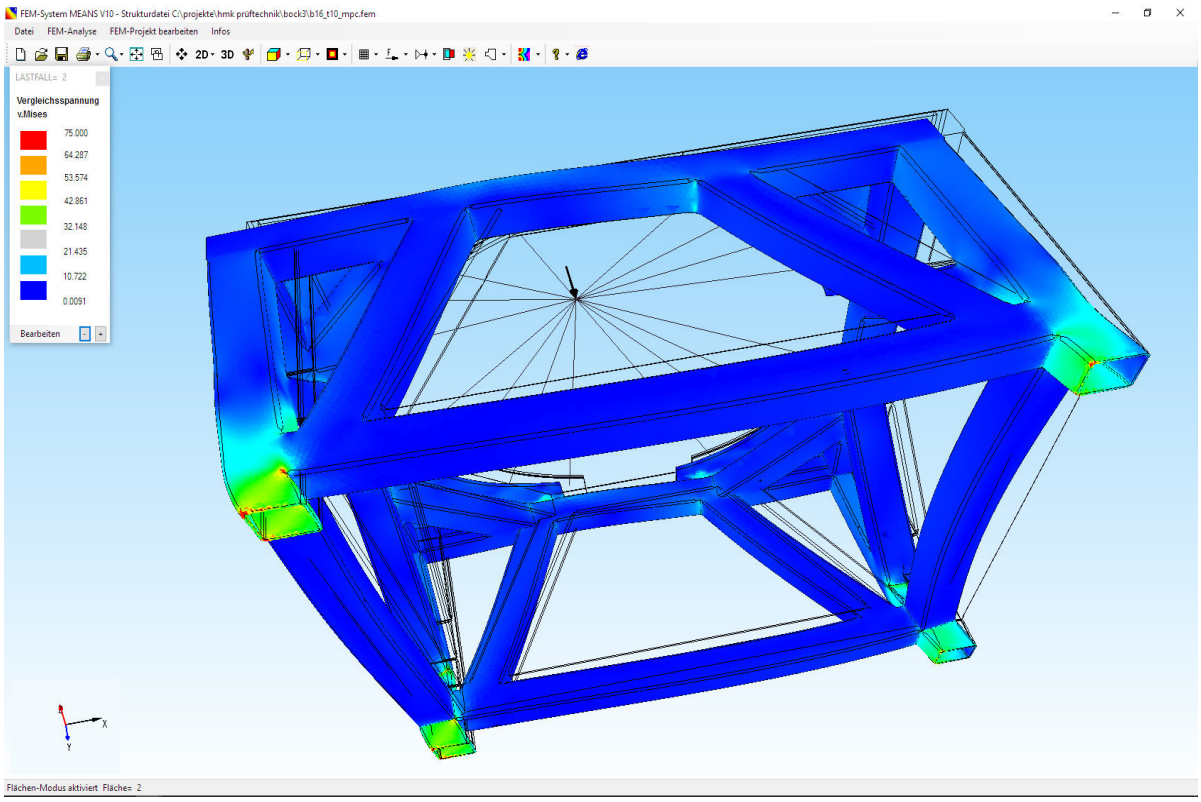
Max. Displacements in X Direction = 0.1407 mm



v.Mises-Stresses

Max. v.Mises-Stresses = 75 MPa



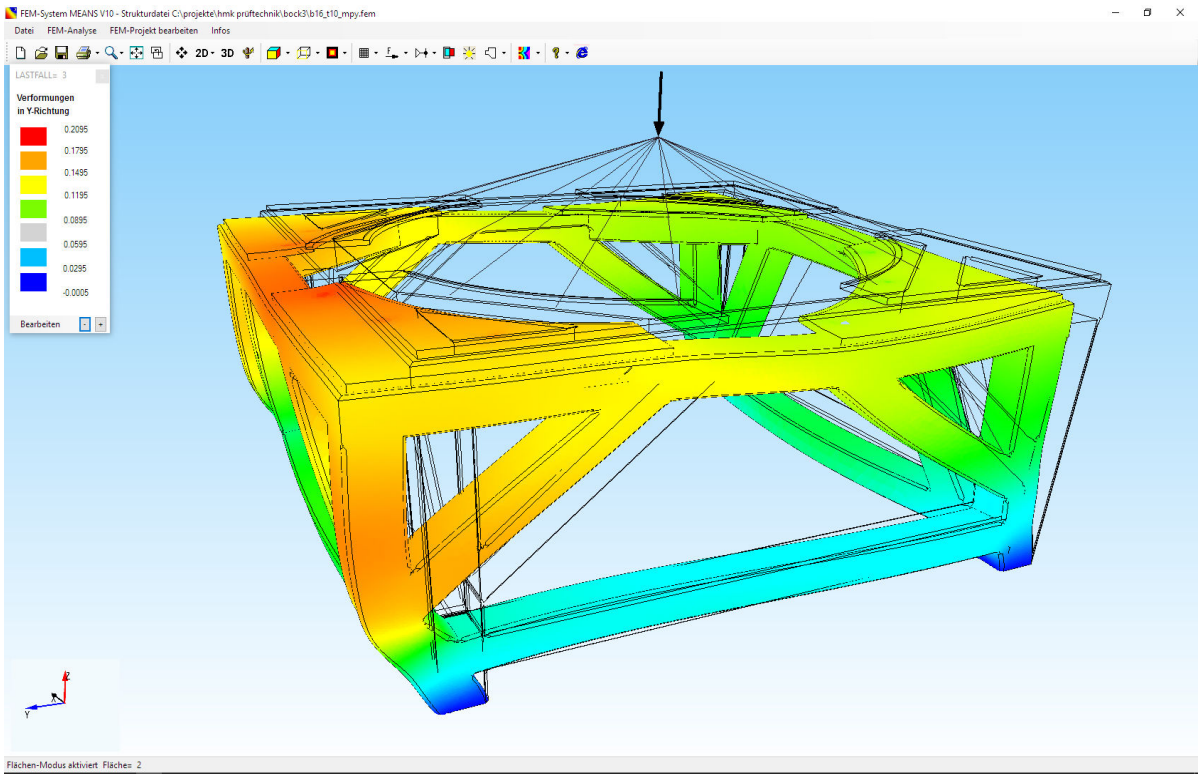


Lastfall 3

- Total Load of 30 tons
- Gravitation Load 1g downward
- Gravitation Load 2g lageral

Displacements

Max. Displacements in Y Direction = 0.2095 mm



v.Mises-Stresses

Max. v.Mises-Stresses = 80 MPa