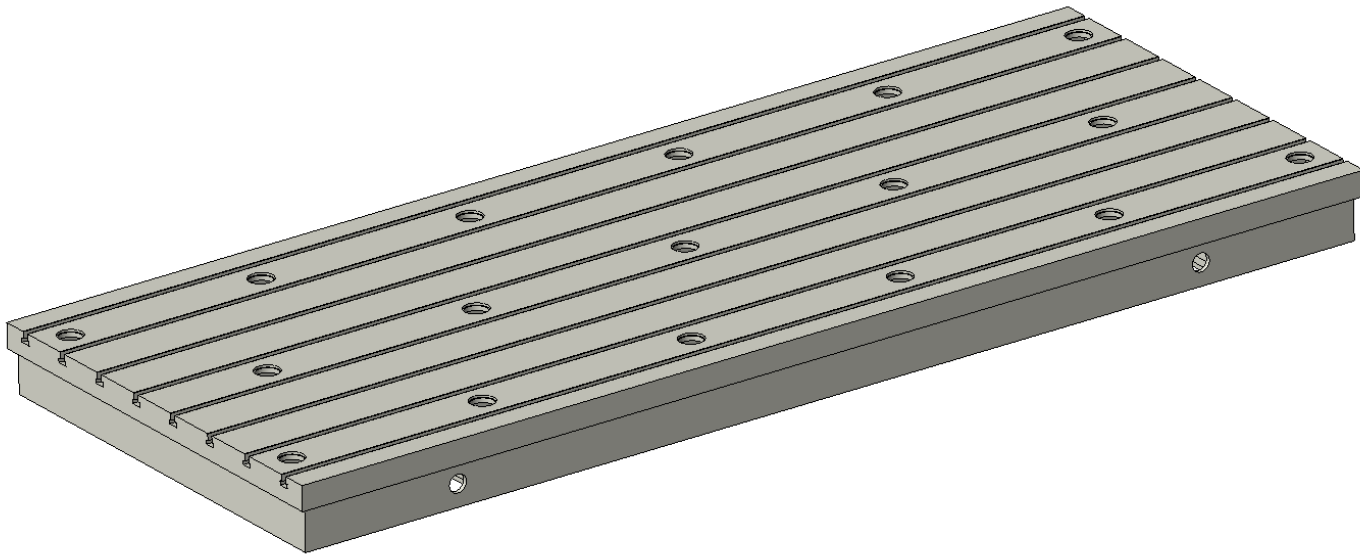


Piano 5000x2000x300

Simulation results



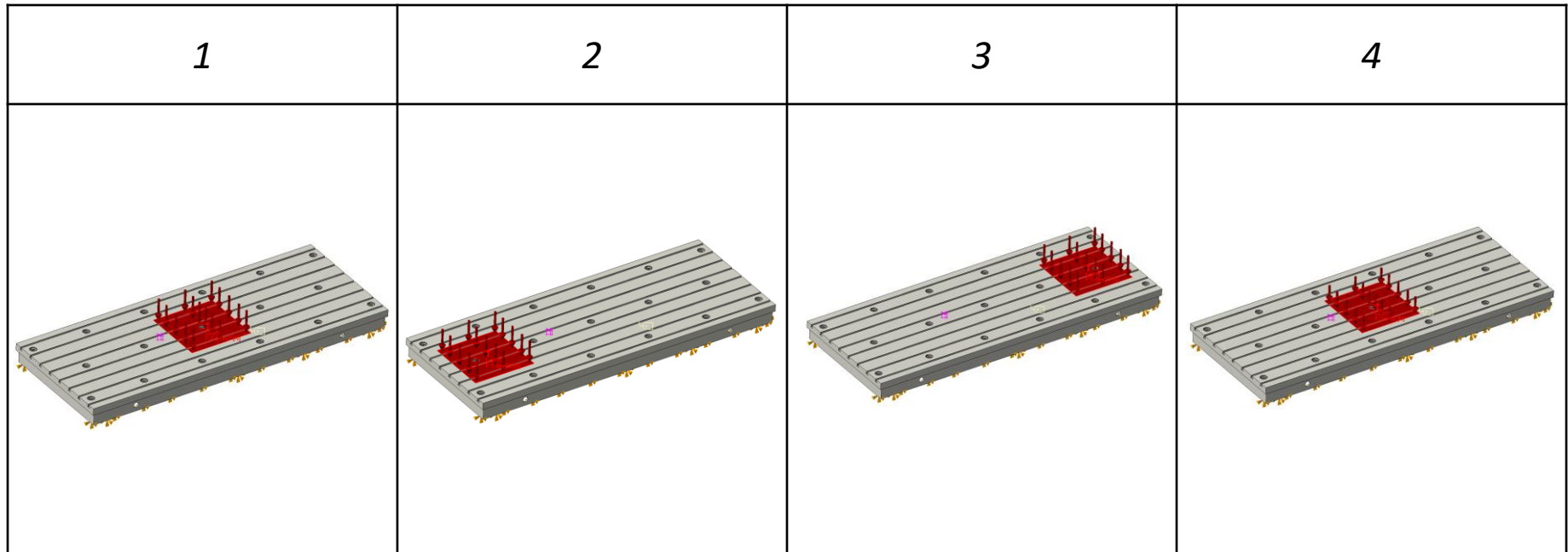


Loads:

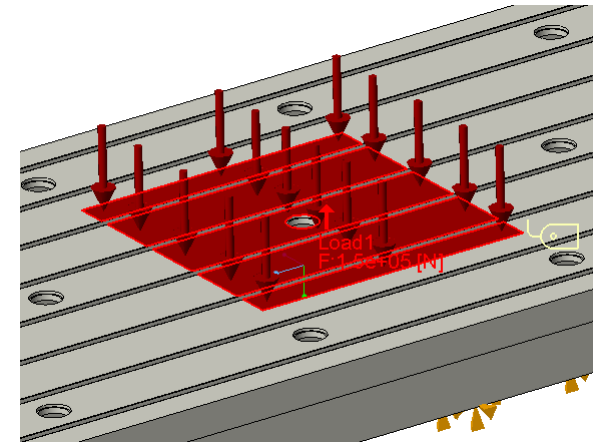
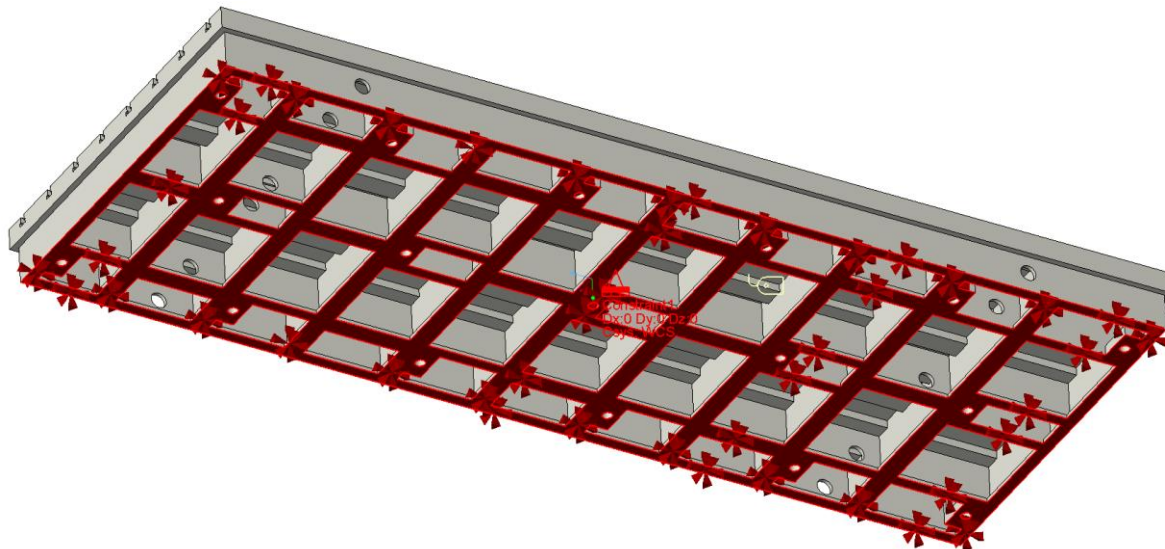
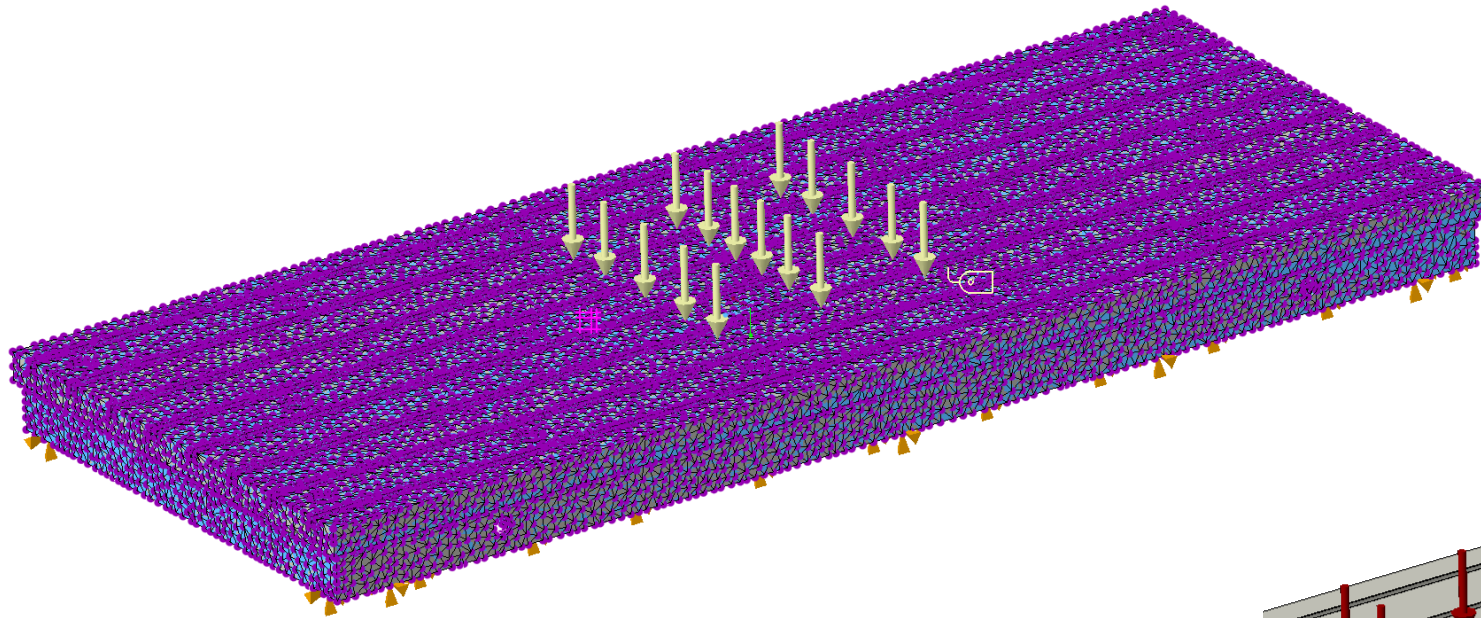
We are considering concentrated load on 1 [m²](1x1 [m])

We are going to simulate 4 load cases:

- 1) 15 000 [kg] In the center of the table*
- 2) 15 000 [kg] on the lefts side of the table*
- 3) 15 000 [kg] on the right side of the table*
- 4) 10 000 [kg] in the center of the table*

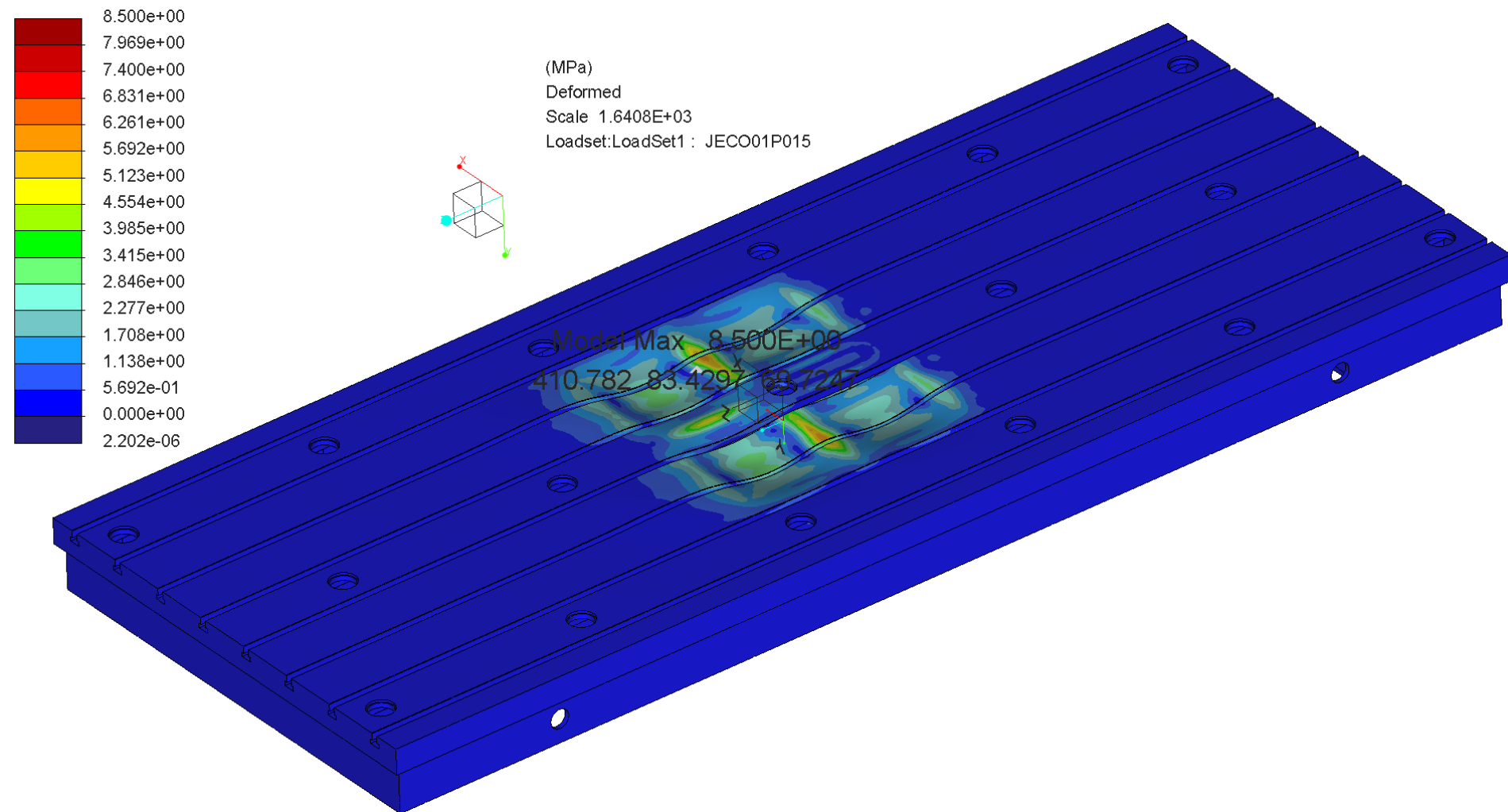


Meshing, Load, Fixation:



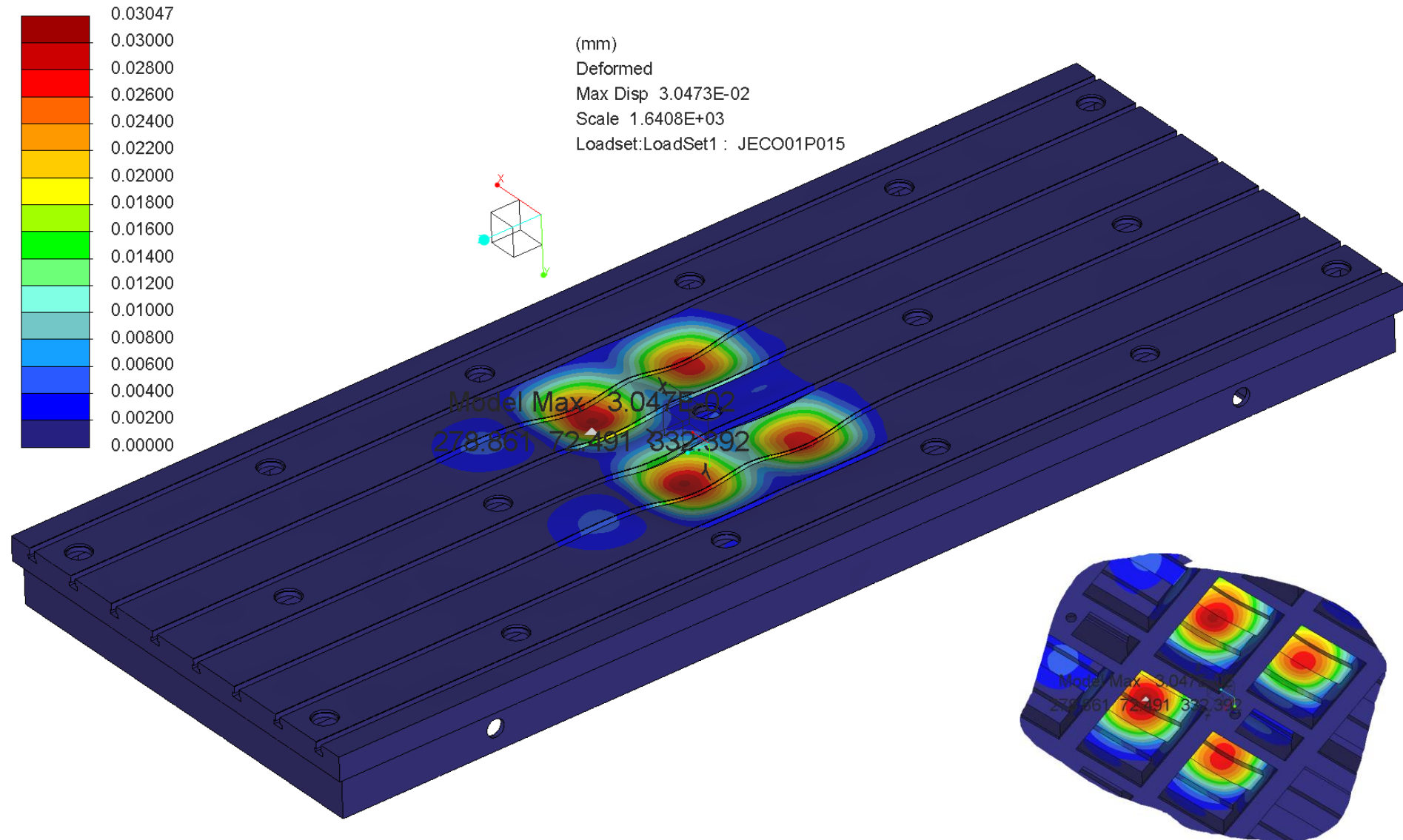
Results Case 1: 15 000 [kg] In the center of the table

Maximum stress: 8.5 [MPa]



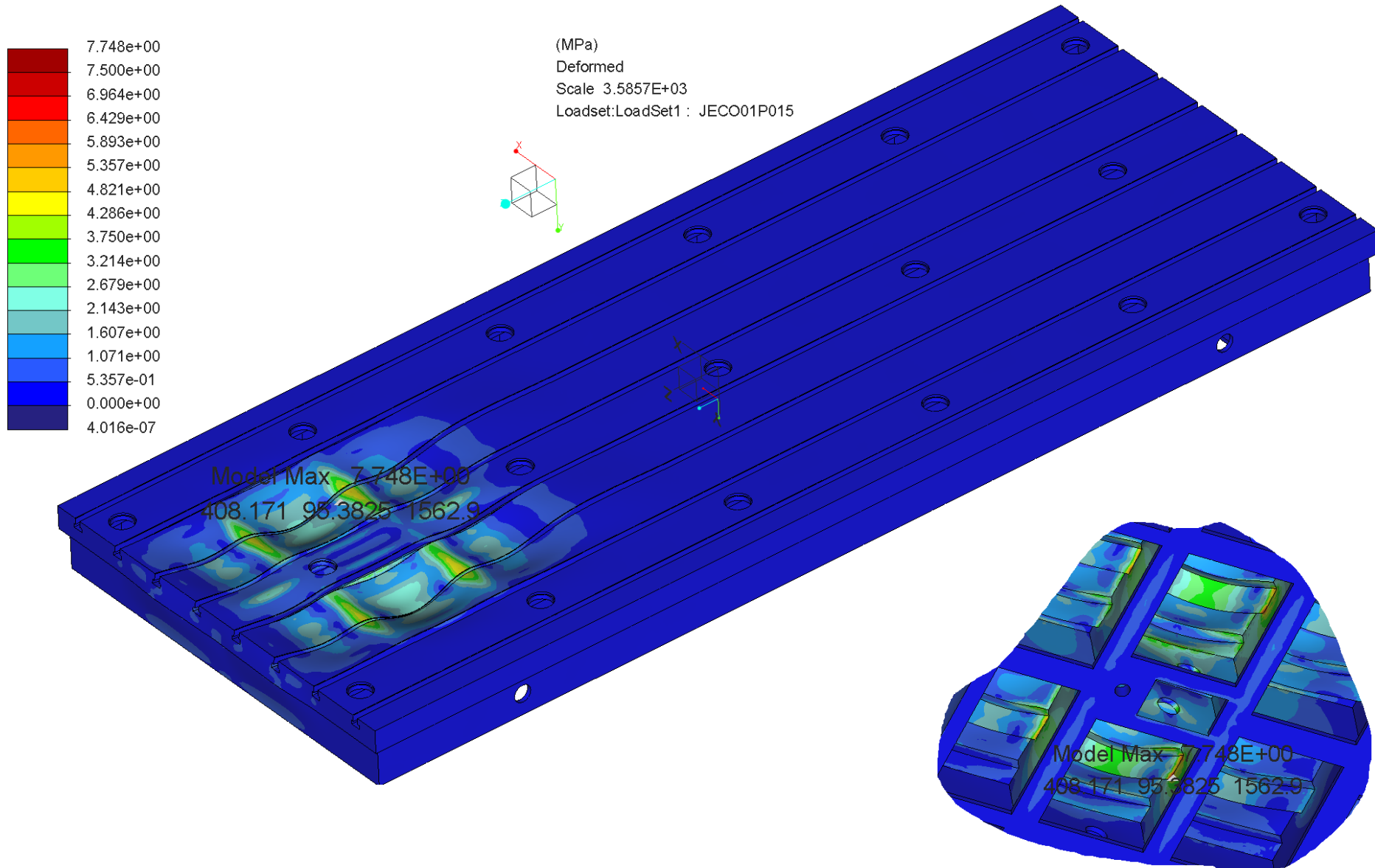
Results Case 1: 15 000 [kg] In the center of the table

Maximum displacement: 0.03 [mm]



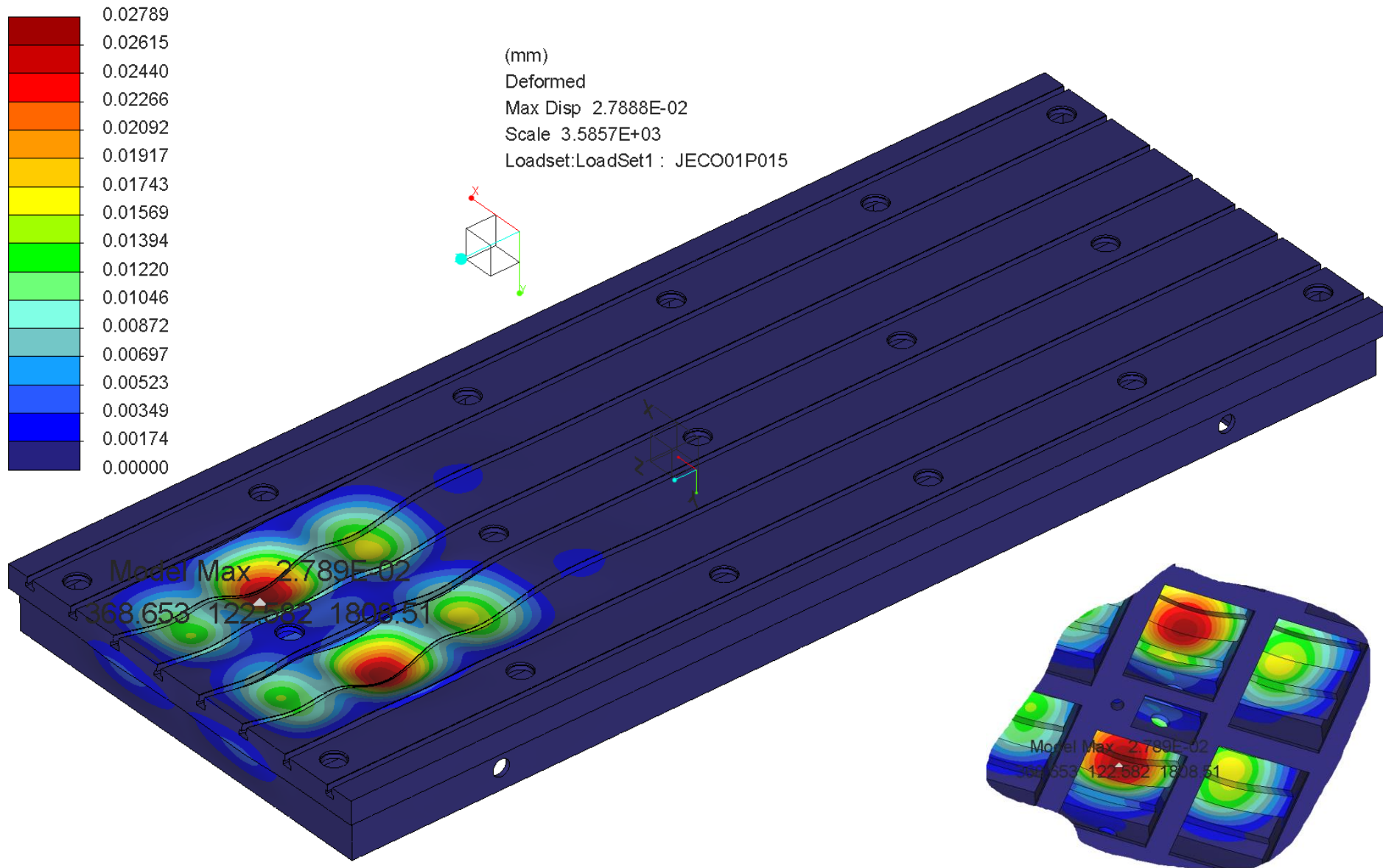
Results Case 2: 15 000 [kg] on the lefts side of the table

Maximum stress: 7.74 [MPa]



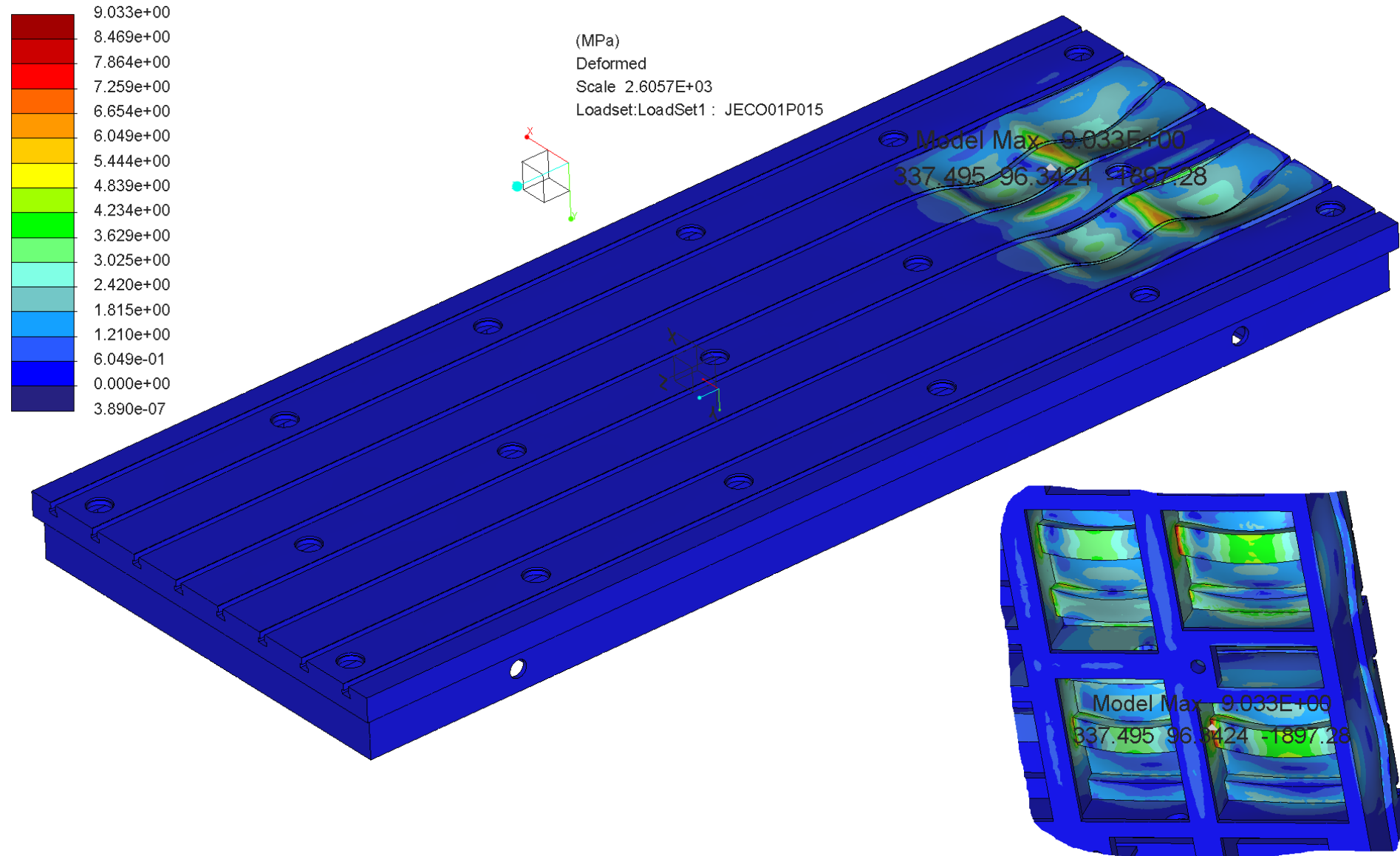
Results Case 2: 15 000 [kg] on the lefts side of the table

Maximum displacement: 0.027 [mm]



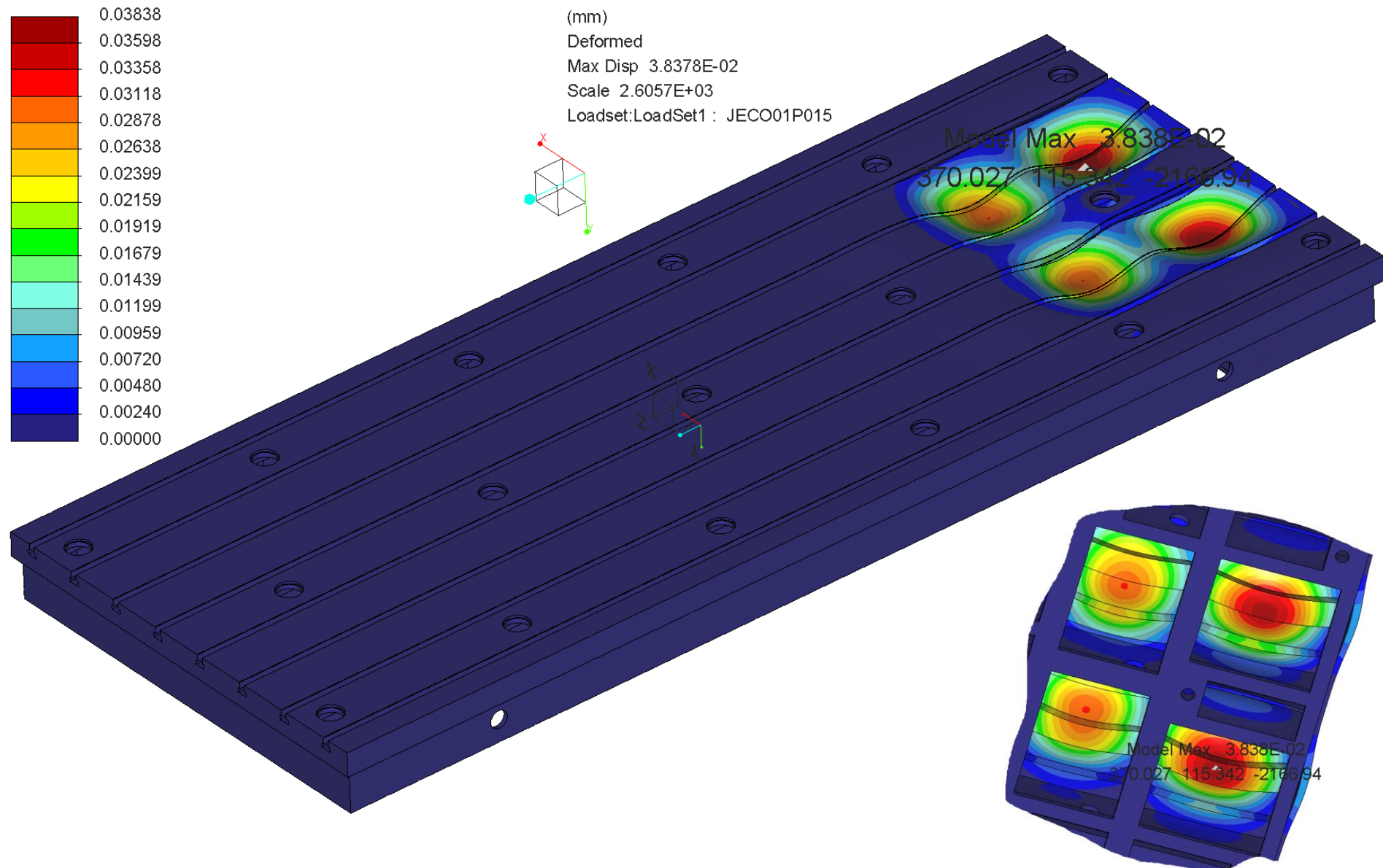
Results Case 3: 15 000 [kg] on the right side of the table

Maximum stress: 9.03 [MPa]



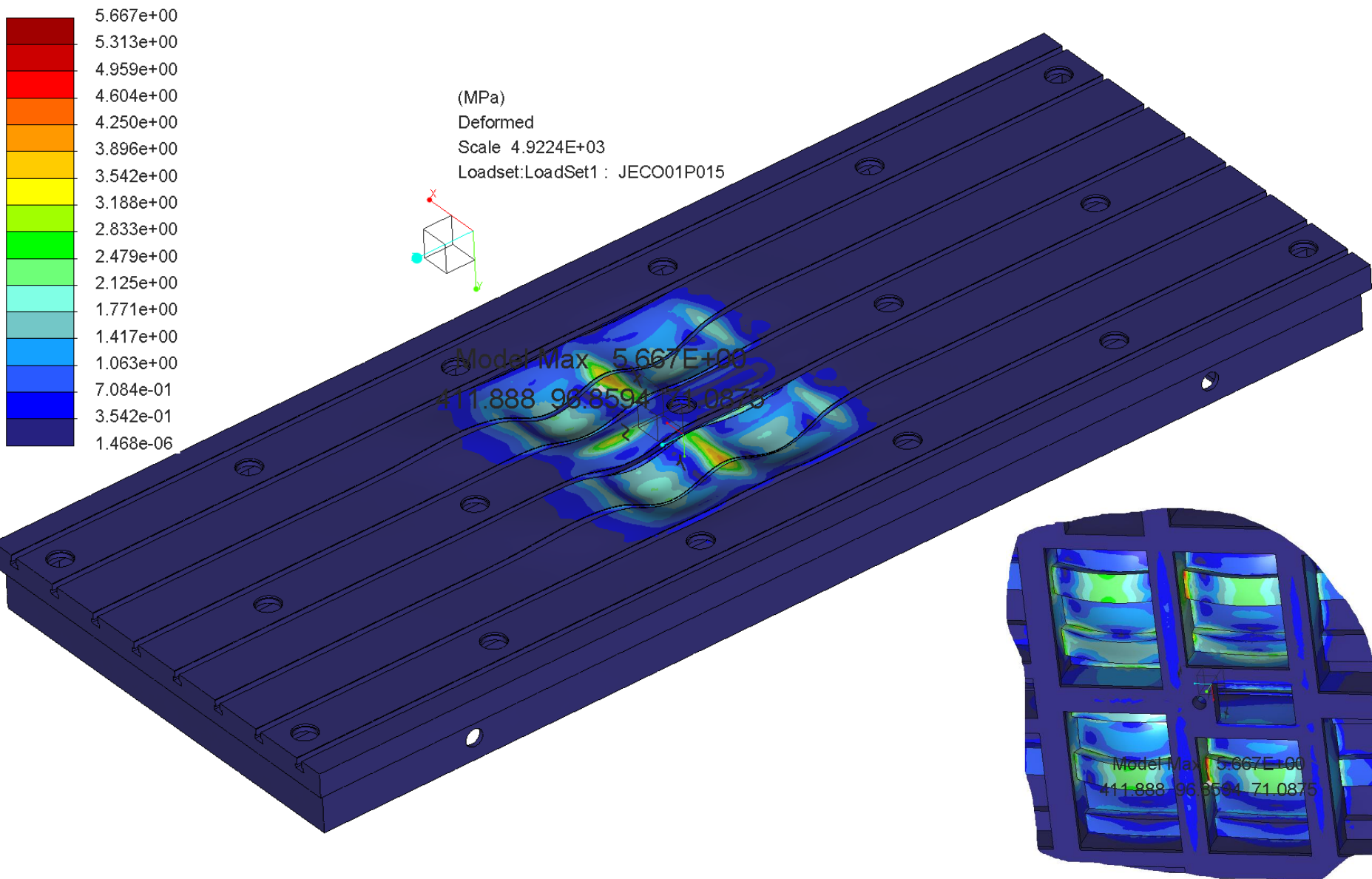
Results Case 3: 15 000 [kg] on the right side of the table

Maximum displacement: 0.038 [mm]



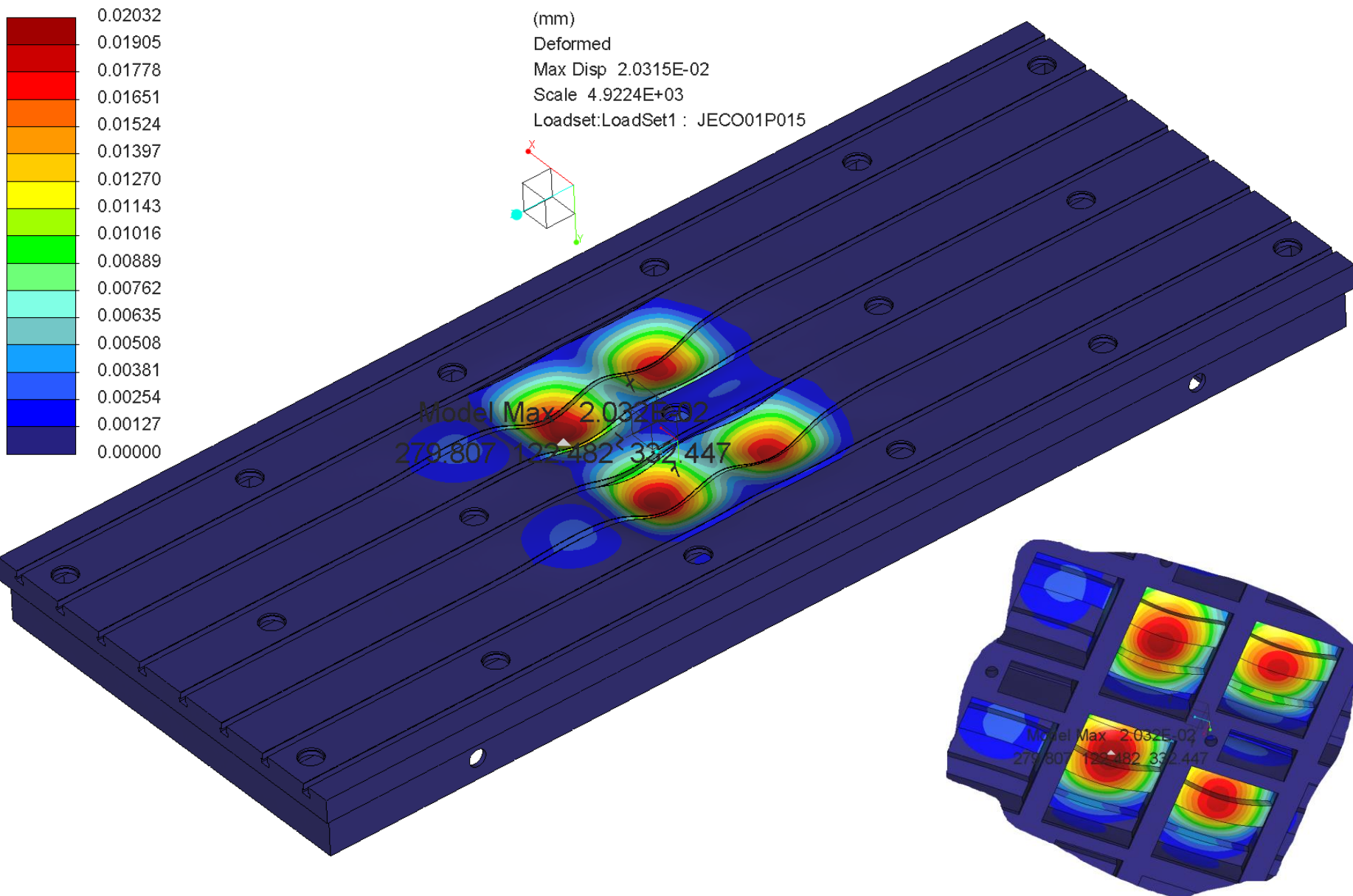
Results Case 4: 10 000 [kg] in the center of the table

Maximum stress: 5.67 [MPa]



Results Case 4: 10 000 [kg] in the center of the table

Maximum displacement: 0.02 [mm]



	Maximum stress	Safety factor	Maximum displacement
	[MPa]	[]	[mm]
Case 1	8.5	>5	0.03
Case 2	7.74	>5	0.027
Case 3	9.03	>5	0.038
Case 4	5.67	>5	0.02