Support System: simulation with both cavities



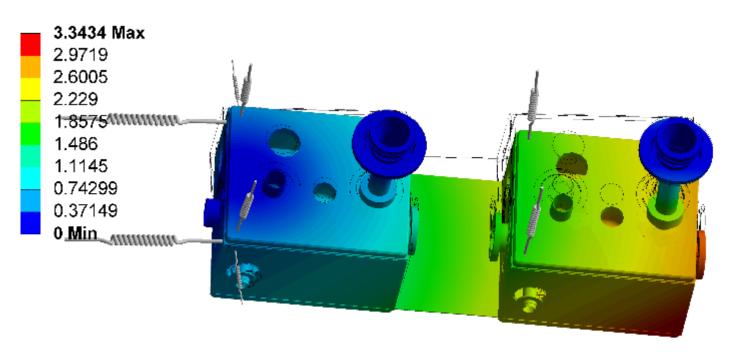


A: Modal Figure

Type: Total Deformation Frequency: 40.571 Hz

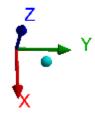
Unit: mm

22/02/2015 17:39





40.6 Hz





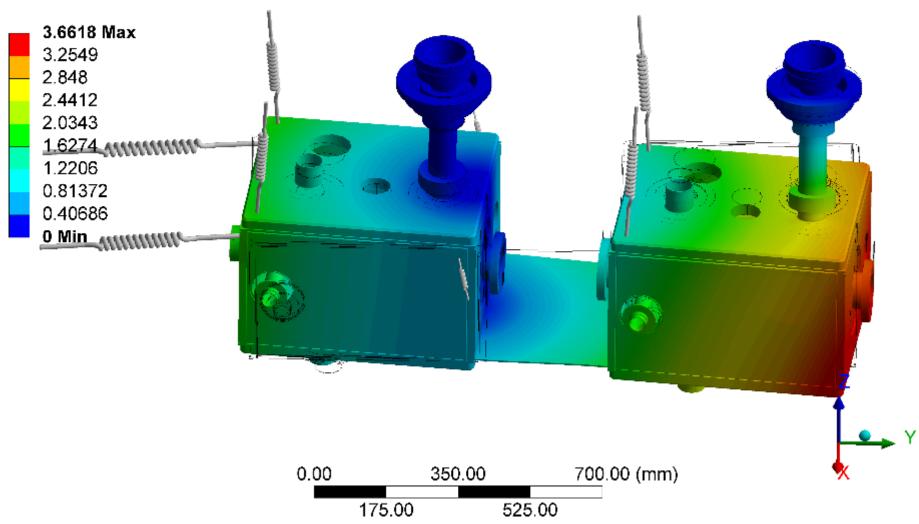


B: Modal cartesian 2 - 2 Figure Type: Total Deformation

Frequency: 45.944 Hz

Unit: mm

22/02/2015 17:42



46 Hz



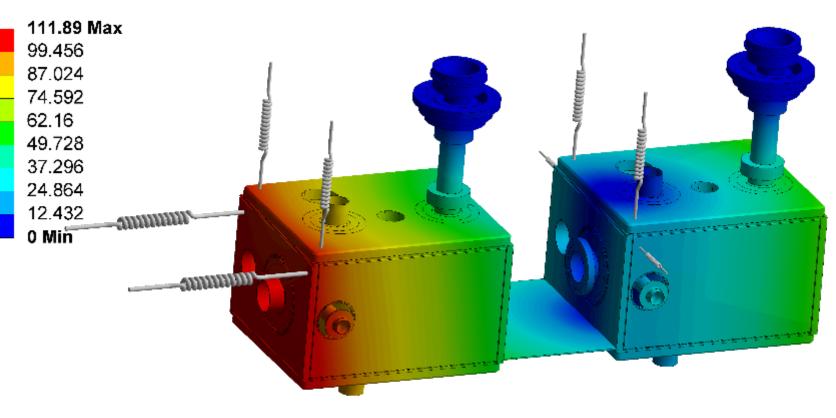


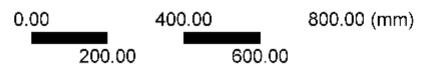
Figure

Type: Total Deformation Frequency: 40.964 Hz

Unit: mm

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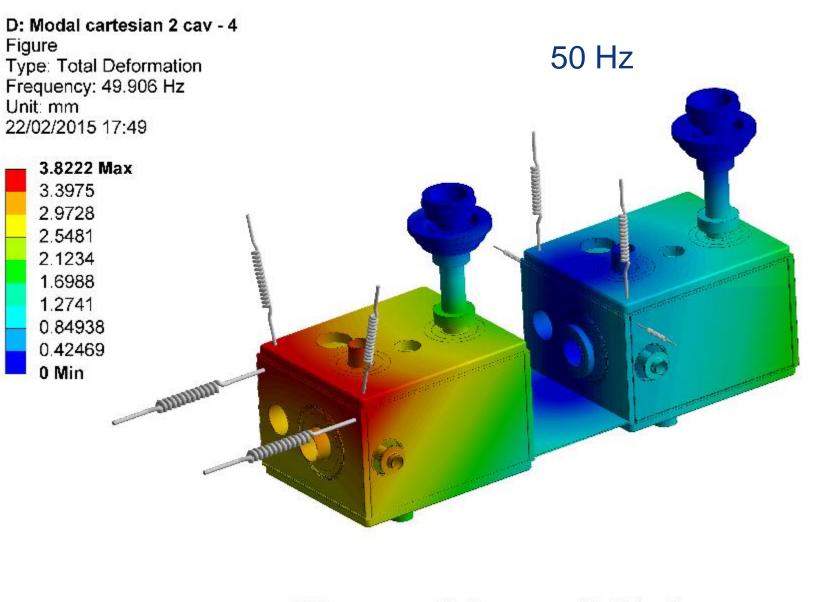


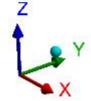
41 Hz







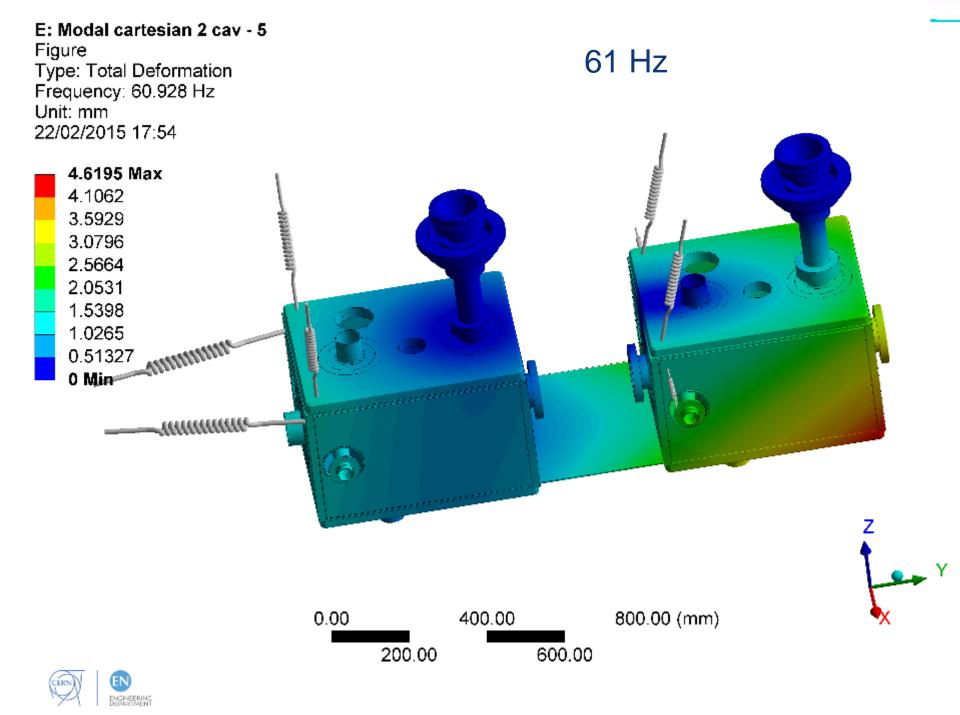












Modal vs. Thermal performance

1 st Mode [Hz]	Radius [m]	Thermal load (300K), [W]	Thermal load (80K), [W]
22.7	0.0013	0.4	0.0
32.5	0.0022	1.2	0.1
39.4	0.0028	2.0	0.2
42.3	0.0031	2.4	0.3
45.0	0.0034	2.8	0.3
47.4	0.0036	3.2	0.4
49.6	0.0038	3.6	0.4
51.7	0.0040	4.0	0.5
53.6	0.0042	4.4	0.5
55.4	0.0044	4.8	0.6
57.1	0.0046	5.2	0.6
58.7	0.0048	5.6	0.6
60.8	0.0050	6.1	0.7





Support System: simulation with both cavities

Cases with rods from above (only) and stiffer intercavity connection





H: Modal cartesian 2 cav - 7 (only top rods)

Figure

Type: Total Deformation Frequency: 34.834 Hz

Unit: mm

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3.3076 Max

2.94

2.5725

2.205

1.8375

1.47

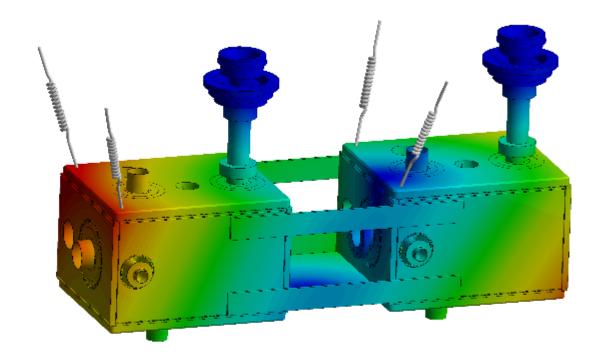
1.1025

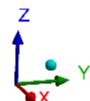
0.73501

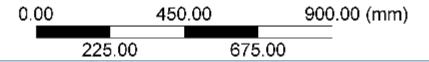
0.36751

0 Min

35 Hz











J: Modal cartesian 2 cav - 9 (only top rods)

Figure

Type: Total Deformation Frequency: 36.09 Hz

Unit: mm

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36 Hz – along beam axis (2nd at 40 Hz)

2.0045 Max

1.7818

1.5591

1.3363

1.1136

0.8909

0.66817

0.44545

0.22272

0 Min

