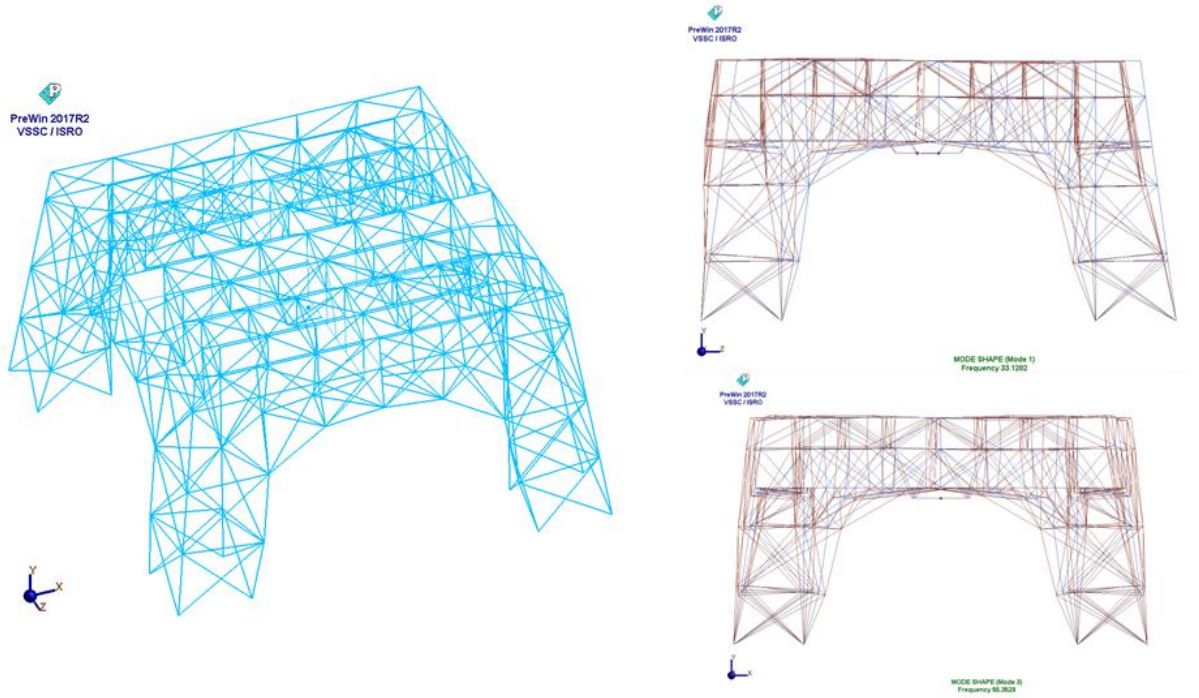


## Free vibration analysis of test rig for nozzle actuators



- 1.  $E=210 \text{ GPa}, \nu = 0.3$ , Specific gravity=7.8
  - 2.  $E=210 \text{ GPa}, \nu = 0.3$
- Material property :**
- 3.  $E=210000 \text{ GPa}, \nu = 0.3$
  - 4.  $E=210 \text{ GPa}, \nu = 0.3$ , Specific gravity=7.8
- Element types :** Quadrilateral shell, 3D beam, Mass, Rigid link
- | <b>Finite element statistics</b> | : | Number of elements |      |      |        | Number of nodes | Degrees of freedom |
|----------------------------------|---|--------------------|------|------|--------|-----------------|--------------------|
|                                  |   | Shell              | Beam | Mass | R-Link |                 |                    |
|                                  | : | 839                | 34   | 1    | 4      | 246             | 1378               |

Mode	Frequency, <i>Hz</i>	
	FEAST <sup>SMT</sup>	Test
1.	33.1282	34
2.	35.5304	34
3.	55.3529	53.8