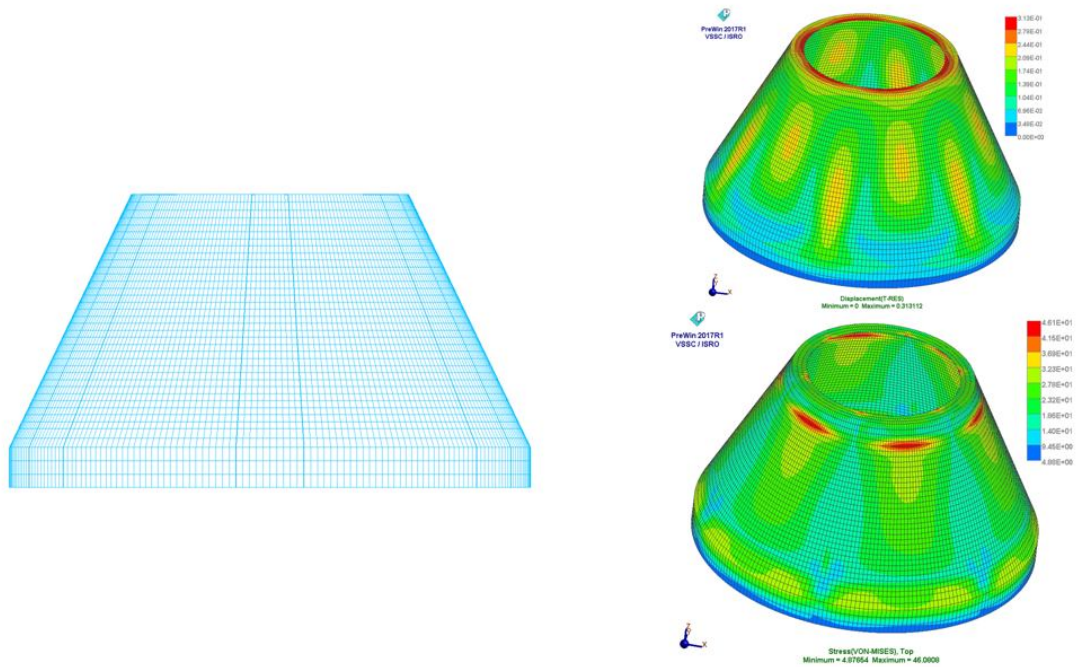


## Static analysis of conical adaptor



**Material property** :  $E= 68670 \text{ MPa}$ ,  $\nu= 0.3$ , Specific gravity = 2.85

**Element types** : Quadrilateral shell,4 node

<b>Finite element statistics</b>	:	Number of elements	Number of nodes	Degrees of freedom
	:	10086	10081	60480

	NISA <sup>®</sup>	ANSYS <sup>®</sup>	FEAST <sup>SMT</sup>
<b>Displacement</b>			
Radial( $U_r$ )	0.2246/-0.1156	0.2229/-0.1156	0.2312/-0.1320
Circum( $U_\theta$ )	0.0275/-0.0275	0.0273/-0.0273	0.0303/0.0297
Axial( $U_z$ )	0.02/0.2991	0.0193/-0.3003	0.0177/-0.3049
<b>Stress</b>			
Axial Stress, $\sigma_z$ (Bottom)	10.06/-27.06	16.029/-27.243	10.4564/-27.7597
Axial Stress, $\sigma_z$ (Top)	0.0/-33.53	0.0/-32.491	0.0/-34.0983
von-Mises, $\sigma_v$ (Bottom)	33.93/2.907	34.266/3.593	34.607/3.6663
von-Mises, $\sigma_v$ (Top)	45.22/4.732	46.368/3.921	46.0808/4.8764