

**\*ALE\_STRUCTURED\_MESH\_MOTION**

Purpose: This keyword controls the motion of a structured 3D ALE mesh generated by \*ALE\_STRUCTURED\_MESH.

There can be multiple cards under this keyword. Each card represents a mesh motion operation. For now, there is only one mesh motion option: to make the mesh follow the mass center of certain fluid(s) in the mesh; and expand/contract the mesh at the same rate as those fluid(s).

Card 1	1	2	3	4	5	6	7	8
Variable	MSHID	OPTION	AMMGSID	EXPLIM				
Type	I	A	I	F				
Default	none	none	0	1.0				

<b>VARIABLE</b>	<b>DESCRIPTION</b>
MSHID	S-ALE Mesh ID. A unique number must be specified.
OPTION	Currently there is only one option. FOLLOW_GC which is to follow mass center of one or several fluids in the mesh.
AMMGSID	The set of ALE multi-material group list ID which mesh follows. Please refer to *SET_MULTI-MATERIAL_GROUP_LIST card for details.
EXPLIM	Limit ratio for mesh expansion and contraction. The distance between the nodes is not allowed to increase by more than a factor EXPLIM, or decrease to less than a factor 1/EXPLIM. Default value of 1.0 means no expansion/contraction.