

Node Drag



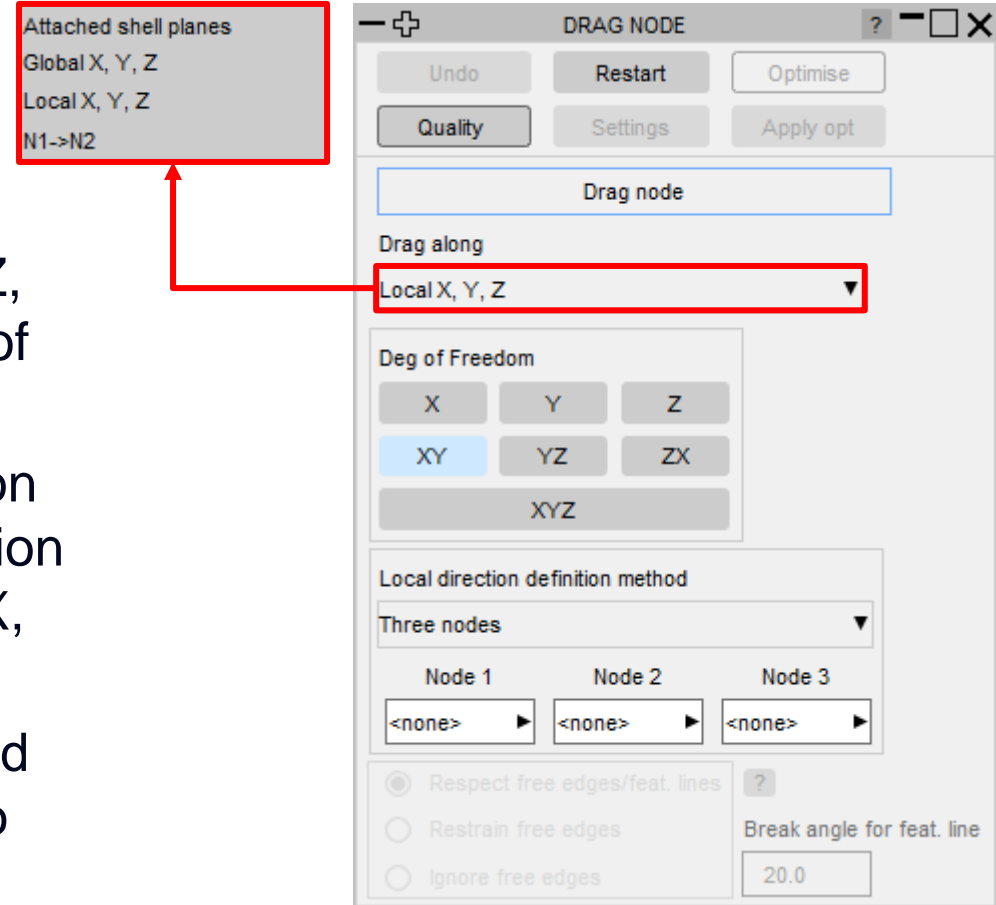
What is Node Drag?

- Node drag permits the user to drag nodes based on certain constraints.
- The impact of such an operation on element quality can be instantly viewed through contouring.
- Various individual quality metrics, as well as overall quality imperfection can be viewed using the “settings” button.



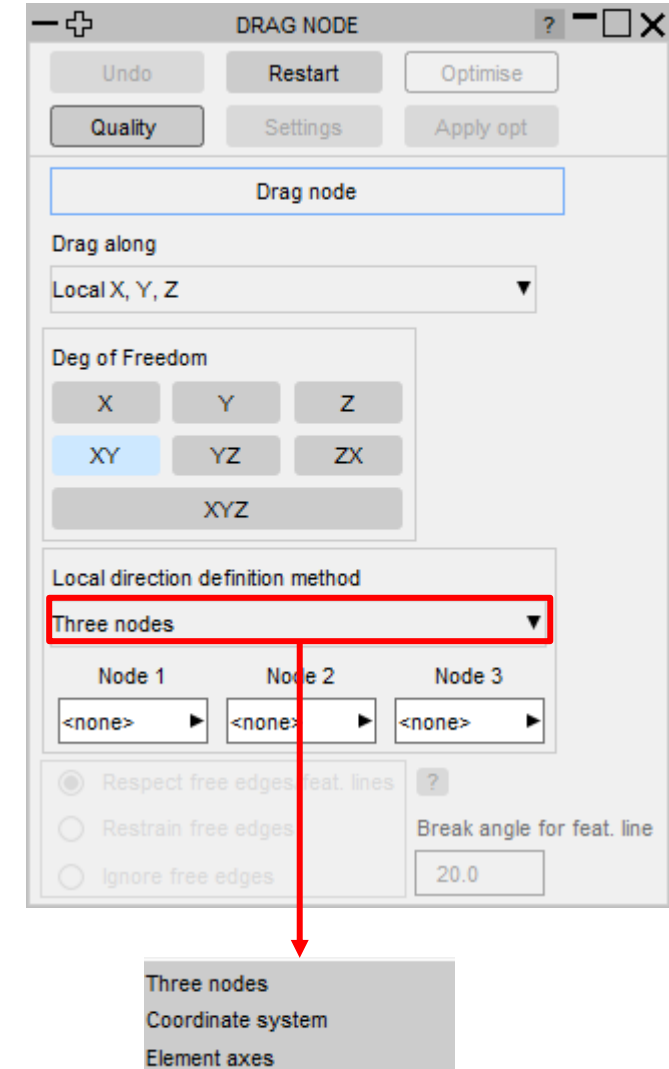
Methods for Node Dragging

- “Drag Along” allows the user to choose which direction the node will be dragged:
 - **Attached shell planes** – Allows users to drag nodes along planes of attached shells.
 - **Global X, Y, Z** – Will permit movement along the X, Y, Z, XY, YZ or ZX axes or planes depending on the degree of freedom setting.
 - **Local X, Y, Z** – Will allow users to define a local direction using one of the options as shown in the image in addition the degree of freedom can then be specified locally to X, Y, Z, XY, YZ or ZX axes or planes.
 - **N1→N2** – Allows users to select a source node, ‘N1’ and a destination node, ‘N2’. After selection, N1 will move to the position occupied by N2.



Methods for Node Dragging

- Degrees of freedom allows the user to select how the node will be moved and along which axis.
- When using a local X, Y, Z the user will need to specify the local direction method by selecting three nodes within that direction.
- Local direction definition method:
 - Three nodes – defines the local coordinate system through the selection of three nodes.
 - Coordinate system – defines the local direction through the selection of an LS-DYNA Coordinate system.
 - Element axes – defines the local direction through the axes of the local elements.



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