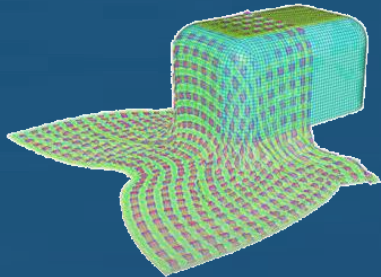


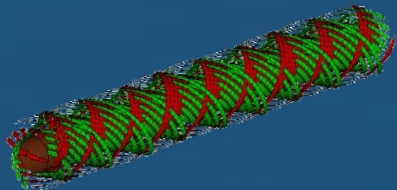
KTEX PATTERN

- Realistic industrial weave geometry and mesh
- Customized weave with weaving loom parameters
- Automatic model in HyperMesh including contact and material of yarns



KTEX LAYUP

- Identify shape of ply during lay-up process
- Automatic generation of a ready-to-run RADIOSS model simulating the layup process
- Real mechanical behavior of the yarns during the layup process



KTEX WINDING

- Define real pattern of winding integrating yarn size
- Generate macro scale material properties

KTEX WOVEN PROPERTY

- Calculation of homogenized properties for any 2D and 3D weave
- Automatic generation of RADIOSS and OptiStruct cards
- Possibility to create bespoke weaves through interlacement map

KTEX FAMILY

- Integrated in HyperWorks™ tools
- Simulation of composite processes integrating manufacturing constraints (weaving, laying up, winding)
- Automatic calculation of composite linear properties



Microscale analysis



Microscale mesh