KTEX FAMILY
INTEGRATED NUMERICAL TOOLS

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 LAY UP
- 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

Microscale analysis
Microscale mesh