## **Thread Deformation Behavior Simulation for Textiles**

織物負荷時の糸挙動を可視化、最適な織構造設計を支援。 (袋織りカーテンシールドエアバッグの評価で活用)

Visualizes thread behavior at the time of textile loading and supports optimal weaving structure design. (Utilized in evaluation of hollow-weave curtain shield airbags)

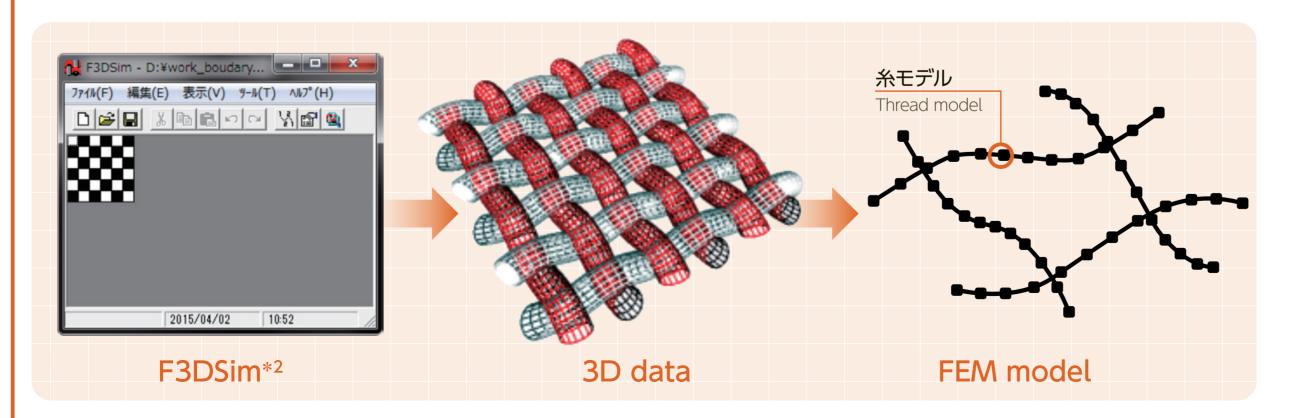
## 特 長 FEATURE

■複雑な多層織(袋織り)構造のモデル化が可能

Modeling of complex multi-layer woven (hollow-weave) fabric

2 経糸・緯糸の相互作用を考慮した糸変形挙動シミュレーション

Deformation behavior simulation between warp and weft which considers the interaction between vertical thread and latelal thread



- \*2 織物シミュレーションソフト(岐阜市立女子短期大学 太田先生・あいち産業科学技術総合センター 尾張繊維技術センター)
- \*2 Texitile simulation software (developed by Professor Ota, Gifu City Women's College, Aichi Center for Industry and Science Technology Owari Textile Resserch Center)

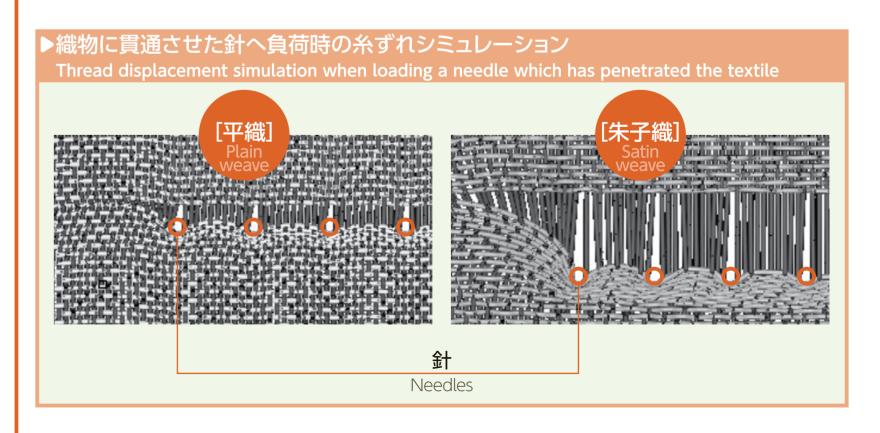
## 効果 RESULTS

■多様な織物の負荷を加えた時の糸挙動予測が可能

The thread behavior at the time of various textiles loading is predictable

2 多様な織物の負荷特性予測\*゚が可能

The load prosperities\* of various textiles are predictable



- \*3 織物負荷時の荷重と伸びの特性
- \*3 Properties of load and elongation at the time of textile loading

