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Design Methodology and Geometric Modeling of Complete Meshing Profiles for Scroll Compressors

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**Highlights**

- A novel design method is proposed for constructing the CMPs of scroll compressors.
- The right midline is employed to describe the characteristics of modified wraps.
- The relationships of all parameters for three CMPs modification are derived.
- Only one or two geometric parameter are independent for the three modified CMPs.
- Numerical simulations of the three CMPs are conducted.

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