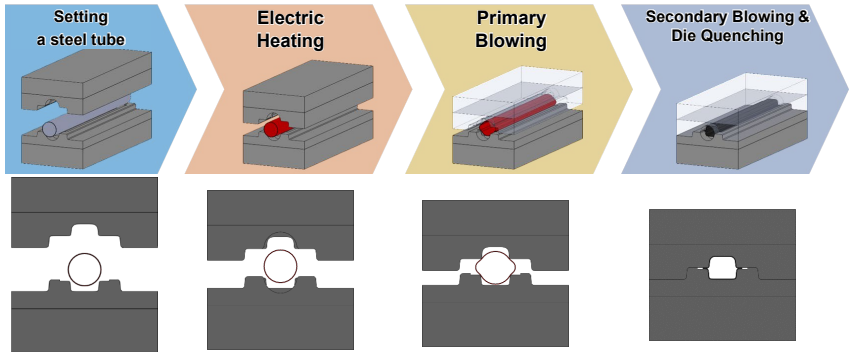
# For the Automotive Frame Manufacturing
# STAF system

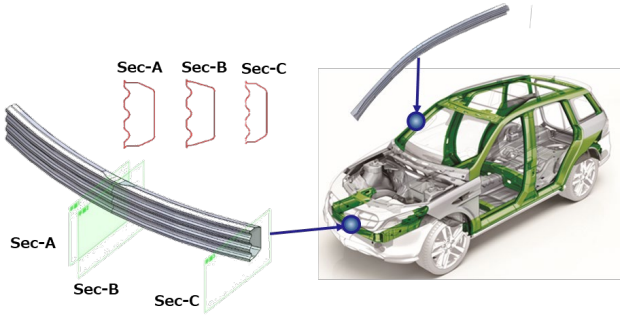
R&D | FS/Demo | **Product/ Service**

Metal Processing Solutions SBU

- The STAF system is the world's first forming technology that electrically heats a steel tube inside a press die, injects high-pressure air into the tube, and forms continuous closed-section components with integrated flanges and varying cross-sectional shapes.
- By adopting direct resistance heating, which heats the material directly, the heating process **achieves higher energy efficiency than furnace heating and significantly reduces environmental impact**.
- Components with a continuous closed-section structure and integrated flanges can be produced from tube materials and strengthened through die quenching. Therefore, it is possible to reduce the thickness, **contributing to vehicle lightweighting and reduced $CO_2$** emissions.




STAF process flow




## Carbon Neutral Contribution Points

- ✓ **Improved energy efficiency through direct electric heating**
- ✓ **Lightweighting automotive frame components**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