

**MAKING MOBILITY HAPPEN.**

*today / tomorrow / together*

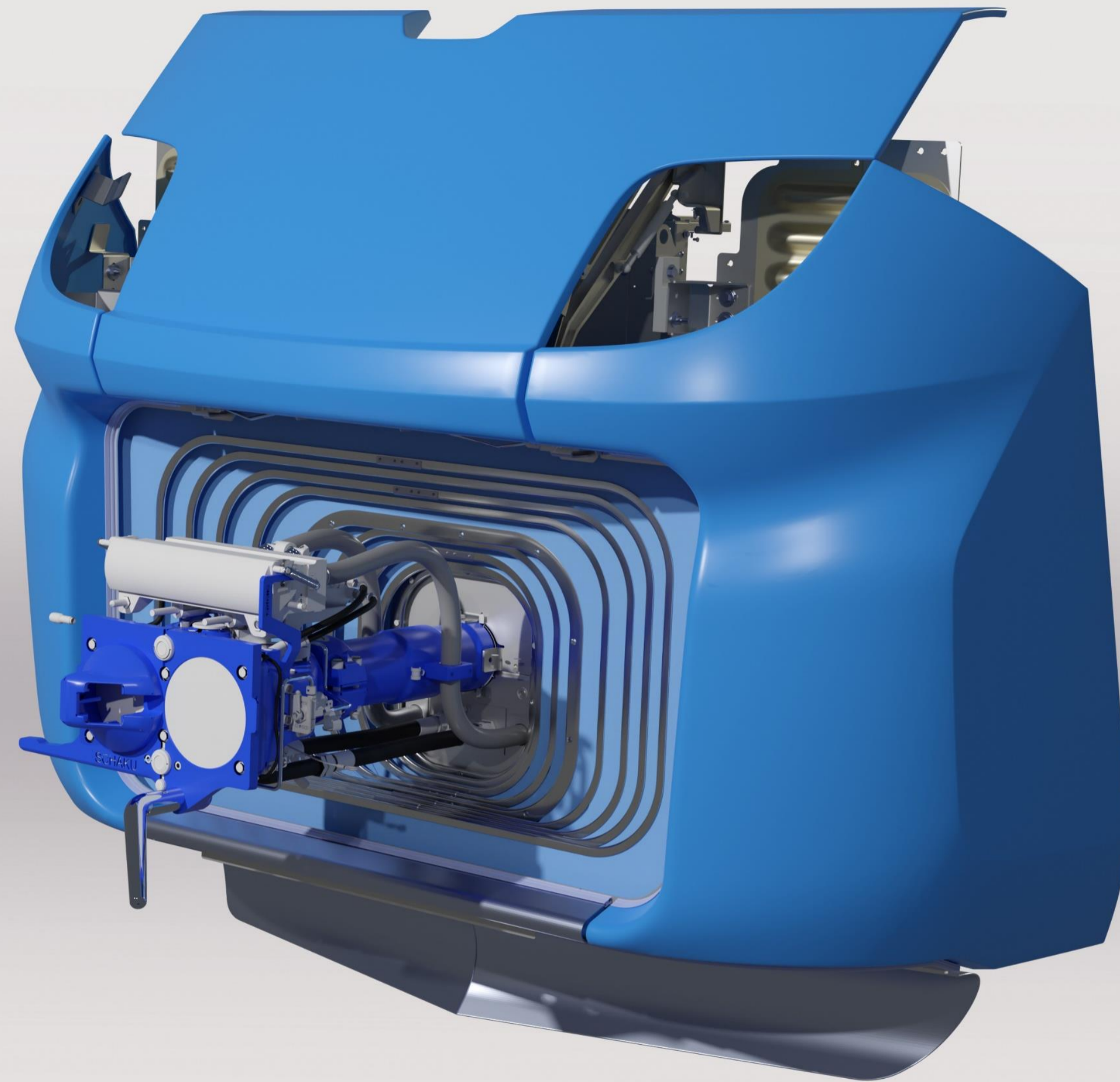
**HÜBNER EXPERT TALKS**

**HÜBNER DRAG REDUCTION SYSTEM: IMPROVING  
AERODYNAMIC PERFORMANCE AND REDUCING COSTS**

ALEXANDER SCHMIDT – HEAD OF INNOVATION & PRODUCT DEVELOPMENT, DIVISION MOBILITY RAIL



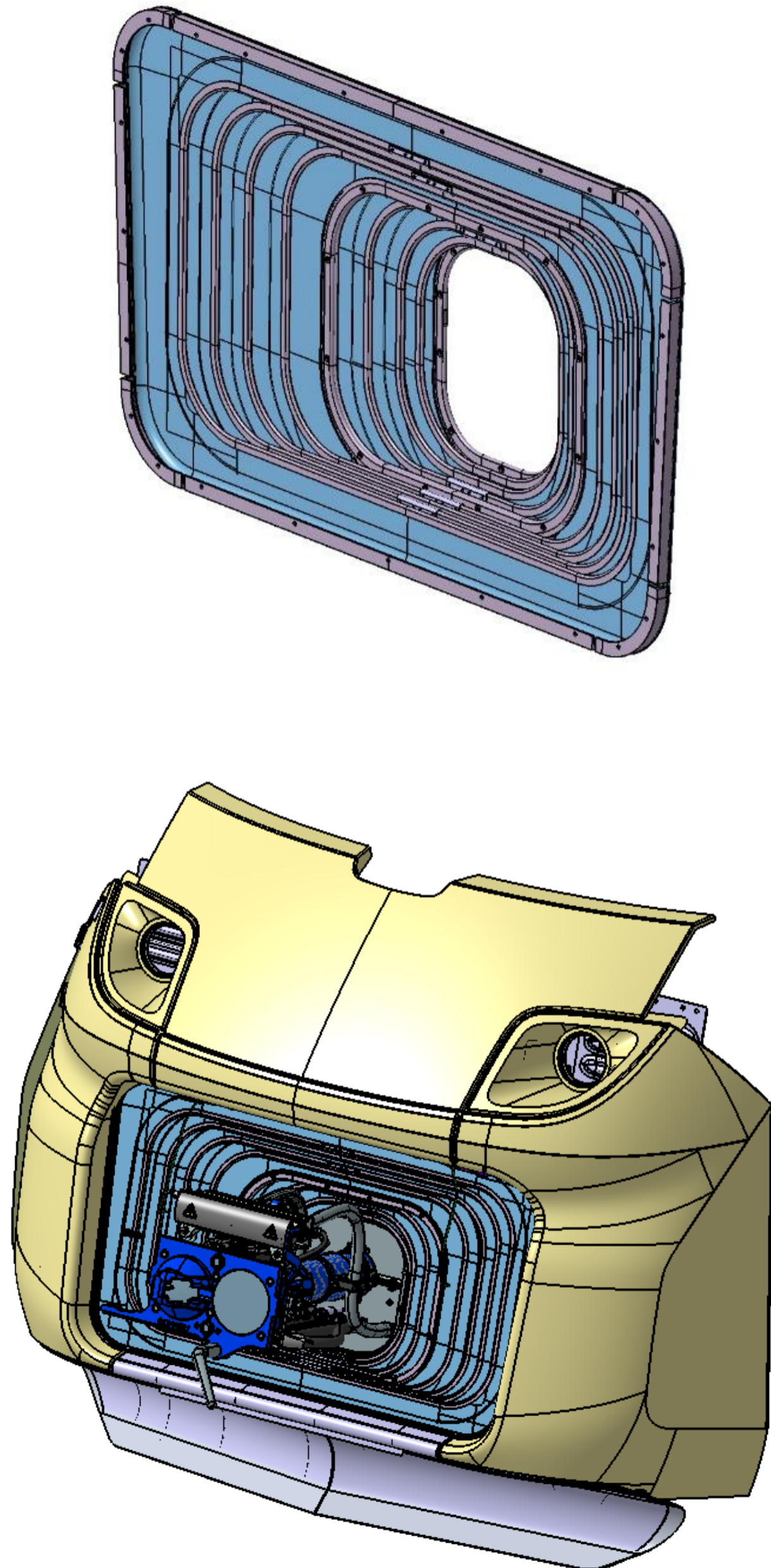




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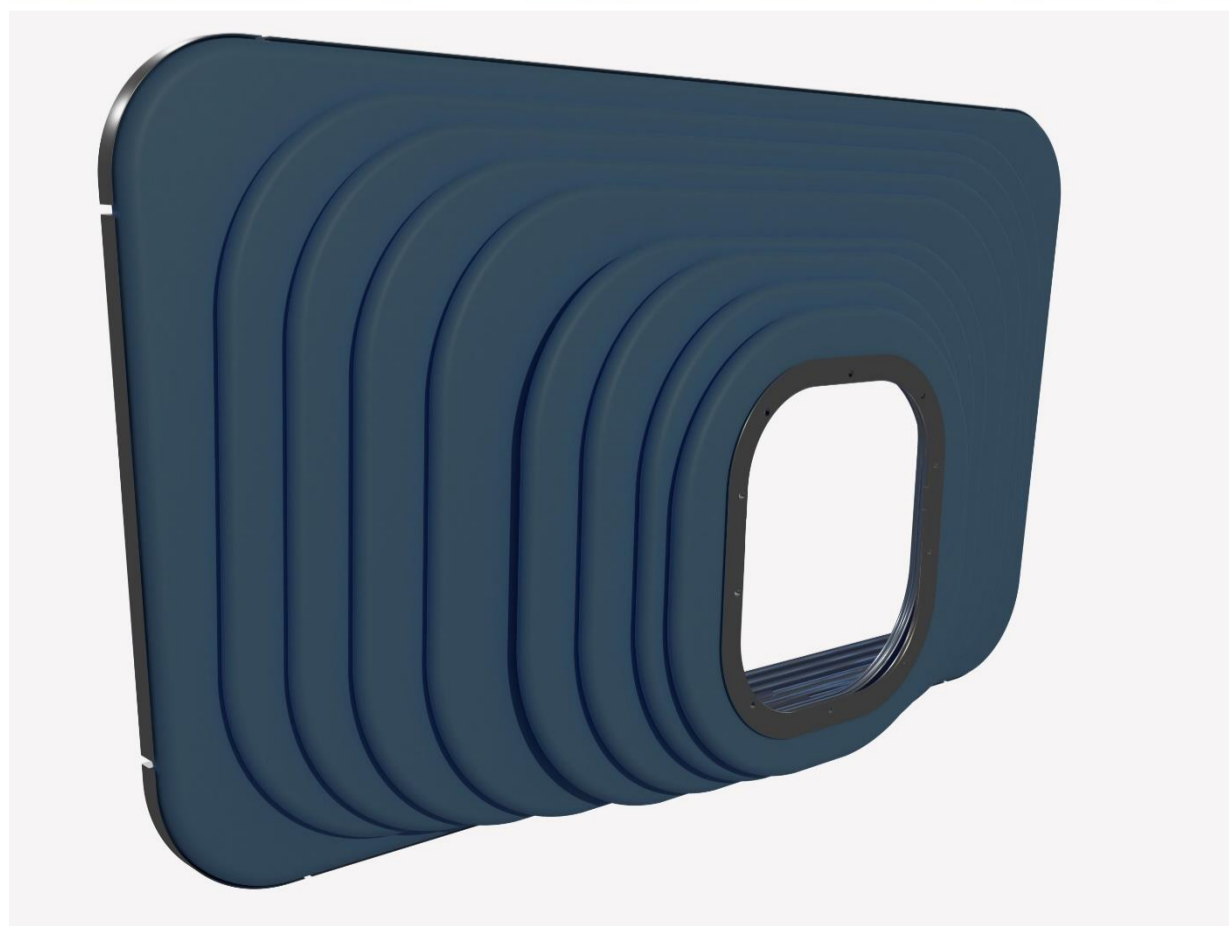
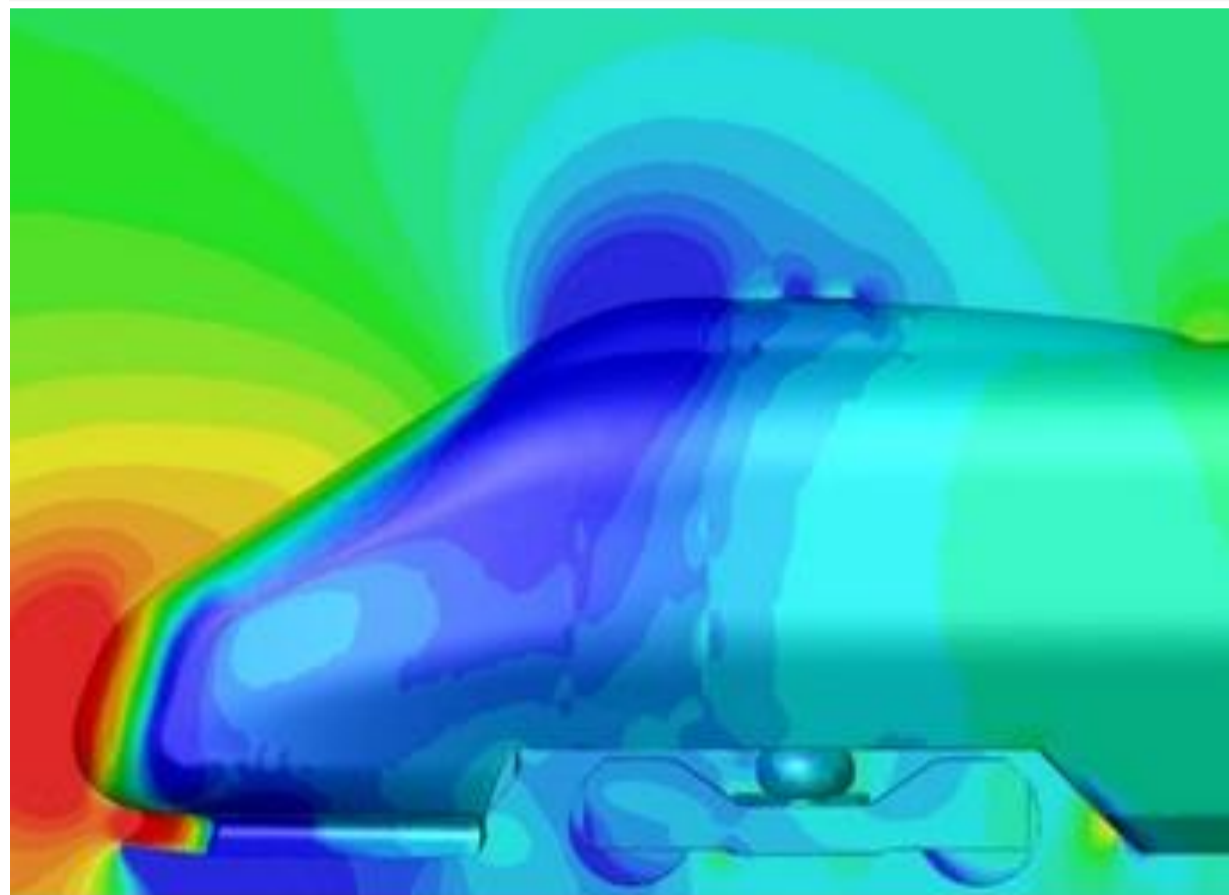




## IN A NUTSHELL

### HUBNER DRAG REDUCER SYSTEM

- Flexible skirt around the coupler
- Closing the gap between coupler and front mask
- Focusing regional and commuter trains
- Easy-to-integrate
  - ✓ Applicable to every train-to-train connection
  - ✓ No design change required on the Front end
  - ✓ Allows regular maintenance
  - ✓ No restriction of coupler movement

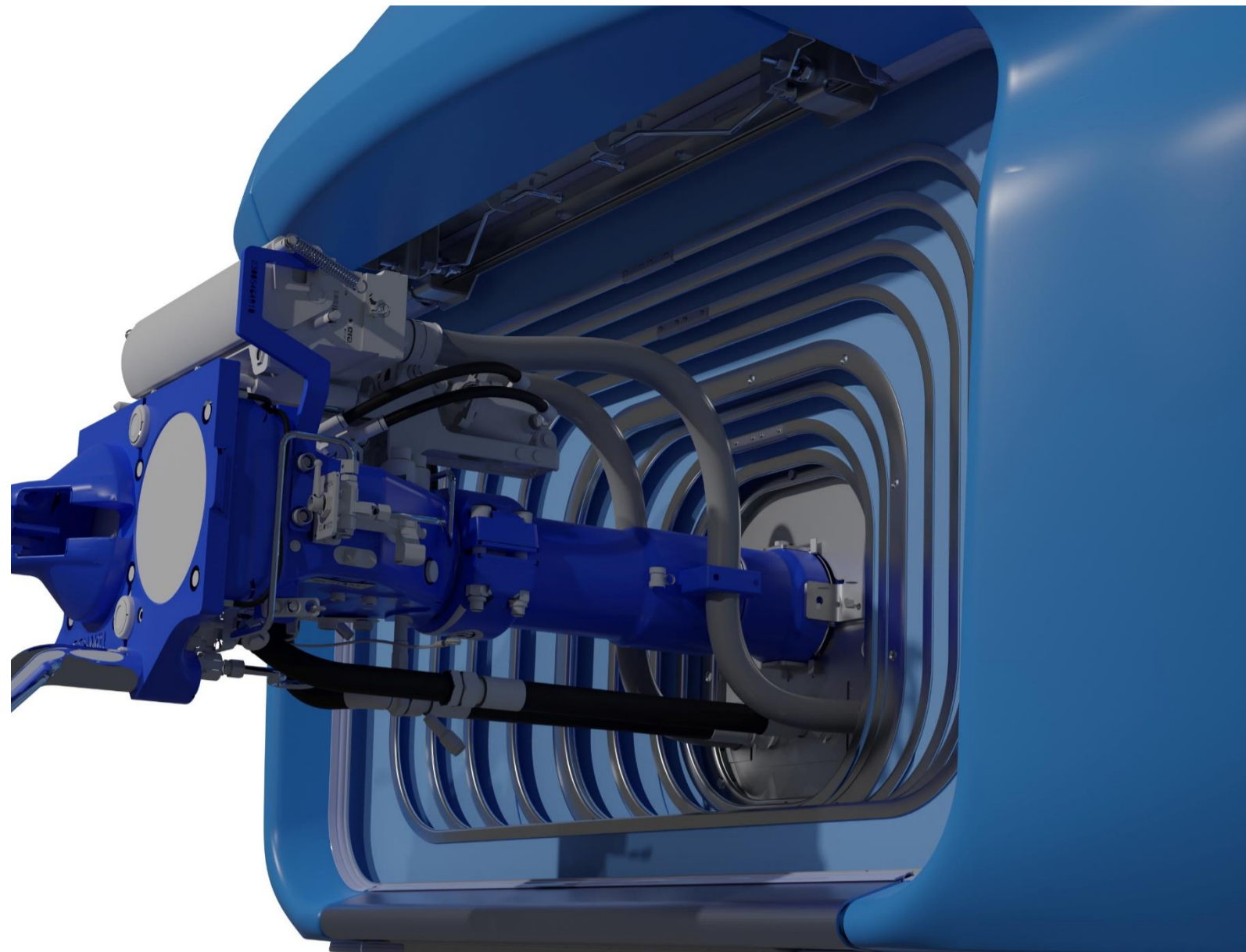


## BENEFIT

### HUBNER DRAG REDUCER SYSTEM

- Reducing aerodynamic drag
  - ✓ Reduces operating cost
- Protects sensitive parts from dirt and small objects
  - ✓ Improves availability
  - ✓ Reduces downtime
- Visual improvement
  - ✓ Retrofit also possible

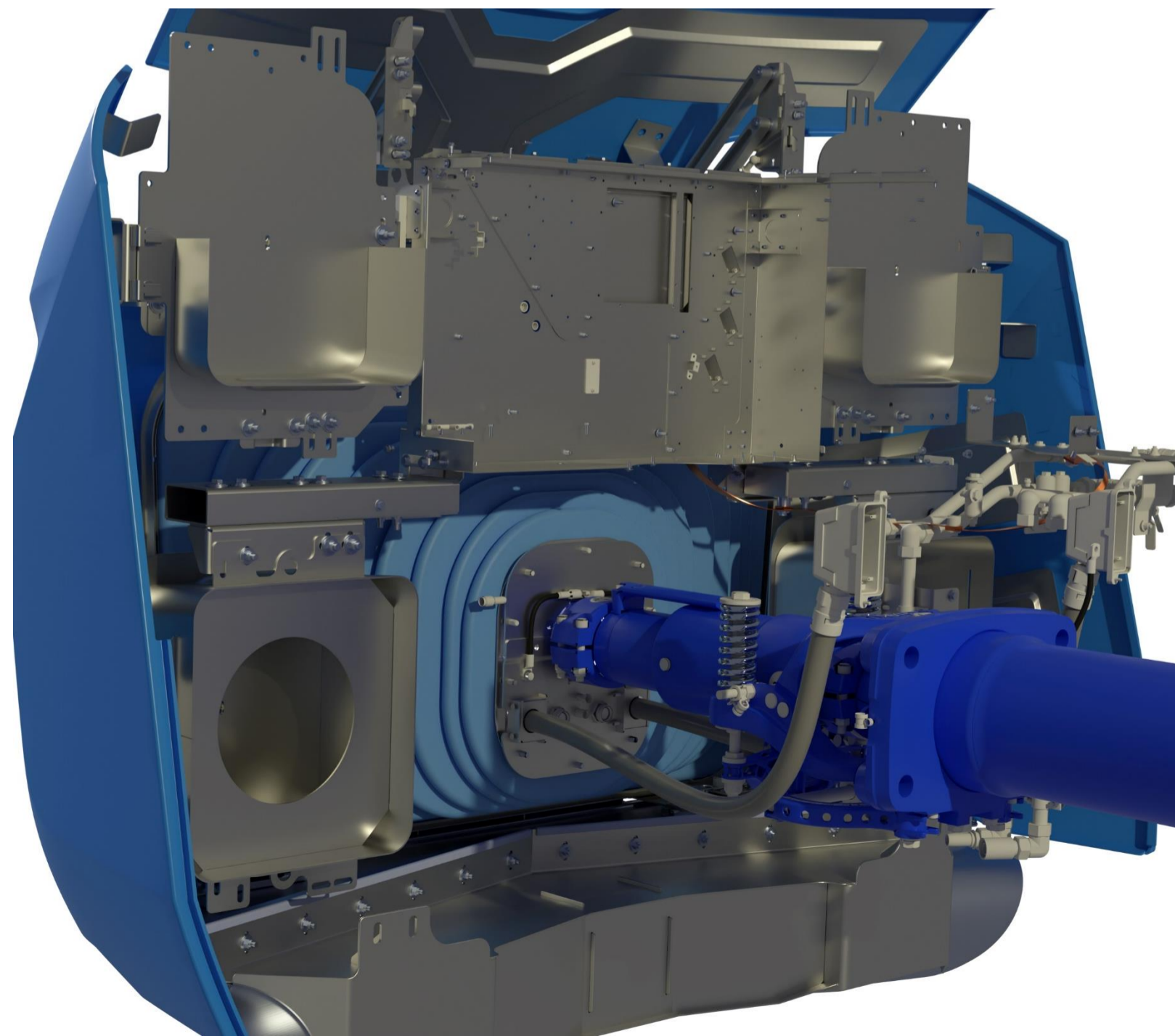




# REDUCING OPERATING COST

## HUBNER DRAG REDUCER SYSTEM

- Approximately 3% reduction in the drag
- ✓ Significant reduction in the operating cost
- HUBNER to advise you and to calculate the individual savings potential for you





# QUESTIONS?

## Your contact:

ALEXANDER SCHMIDT

Leiter Innovation & Produktentwicklung  
Head of Innovation & Product Development  
BU Gangways I Mobility Rail



**HÜBNER GmbH & Co. KG**

Heinrich-Hertz-Straße 2  
34123 Kassel, Germany  
Telefon +49 561 998-1867  
Mobil +49 1520 7894778

[alexander.schmidt@hubner-group.com](mailto:alexander.schmidt@hubner-group.com)

[www.hubner-group.com](http://www.hubner-group.com)

**Mobility. Materials. Photonics.** I united by passion.