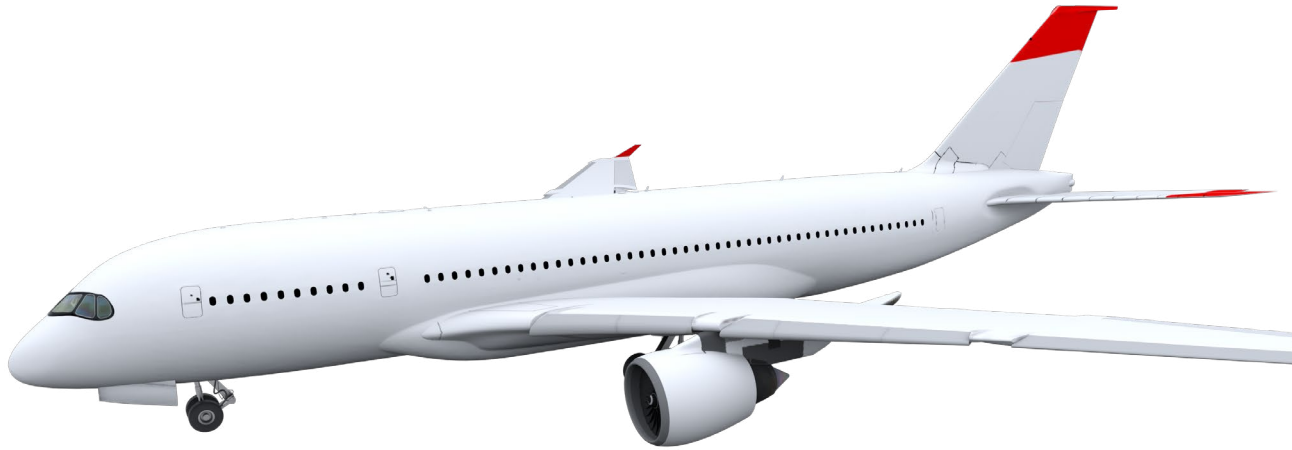


**LOCTITE<sup>®</sup>**  
**TECHNOMELT<sup>®</sup>**

YOUR PARTNER IN THE  
**RAIL AND AEROSPACE INDUSTRY**





# YOUR PARTNER IN THE AEROSPACE INDUSTRY



As air travel and availability of long-haul flights are increasing, the durability and comfort of aircraft interior cabins is more important than ever! With over 50 years of Aerospace expertise, combined with a broad portfolio of adhesive technologies from across multiple industrial sectors, Henkel has flame retardant solutions for the manufacturing of aircraft interiors, including:

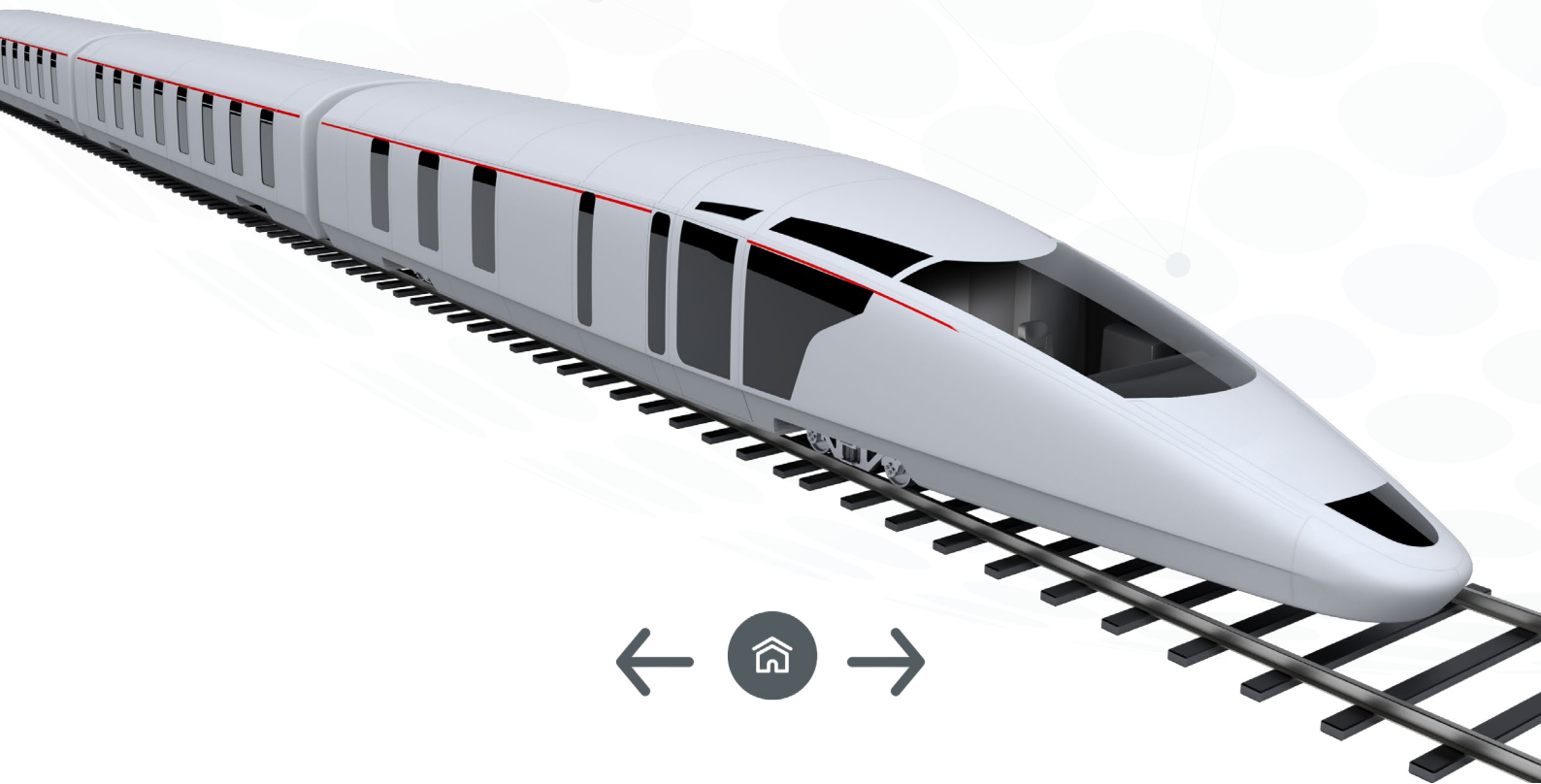
- Structural Adhesive for large part assembly
  - Epoxy
  - Polyurethane
  - Acrylic
- Honeycomb Core Solutions - potting, core splice
- Sealants and elastomeric Bonding Solutions
- Hotmelts
- 3D Printing



# YOUR PARTNER IN THE RAIL INDUSTRY

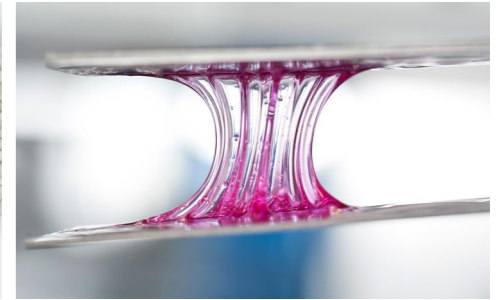
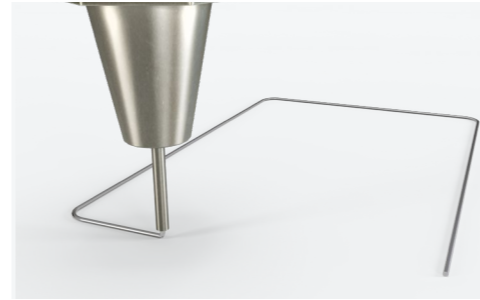
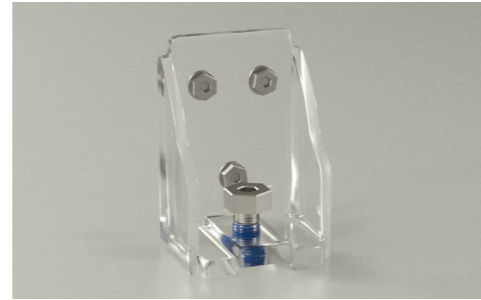
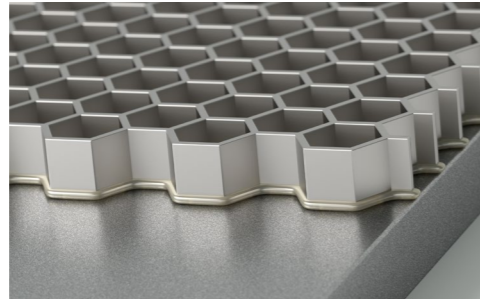


Innovations from Henkel deliver leading high-impact solutions worldwide through a broad technology portfolio - including engineered thermal and light cure acrylic, silicone, epoxy, and polyurethane adhesives, sealants and coatings. With our history and experience in the rail industry, our experts can help you find ways to optimize your manufacturing processes and drive down costs. We can help you reduce weight, increase durability, enhance reliability, and we're continually developing innovations to help you succeed in the future.



# HENKEL ADHESIVE TECHNOLOGIES

Selecting the right chemistry



## Epoxy

- Industry Standard
- Best in class mechanical performance
- Good thermal properties

## Miscellaneous

- Solvent/ Water borne
- Contact Adhesives
- Cyanoacrylate

## Acrylic

- 1K & 2K Solutions
- Multiple curing mechanisms
- Fast curing
- Small area bonding

## Polyurethane

- Slightly flexible substrates
- Good gap fill / large area bonding
- Multiple delivery systems

## Hotmelt

- Reactive or Nonreactive
- Highly automatable processing

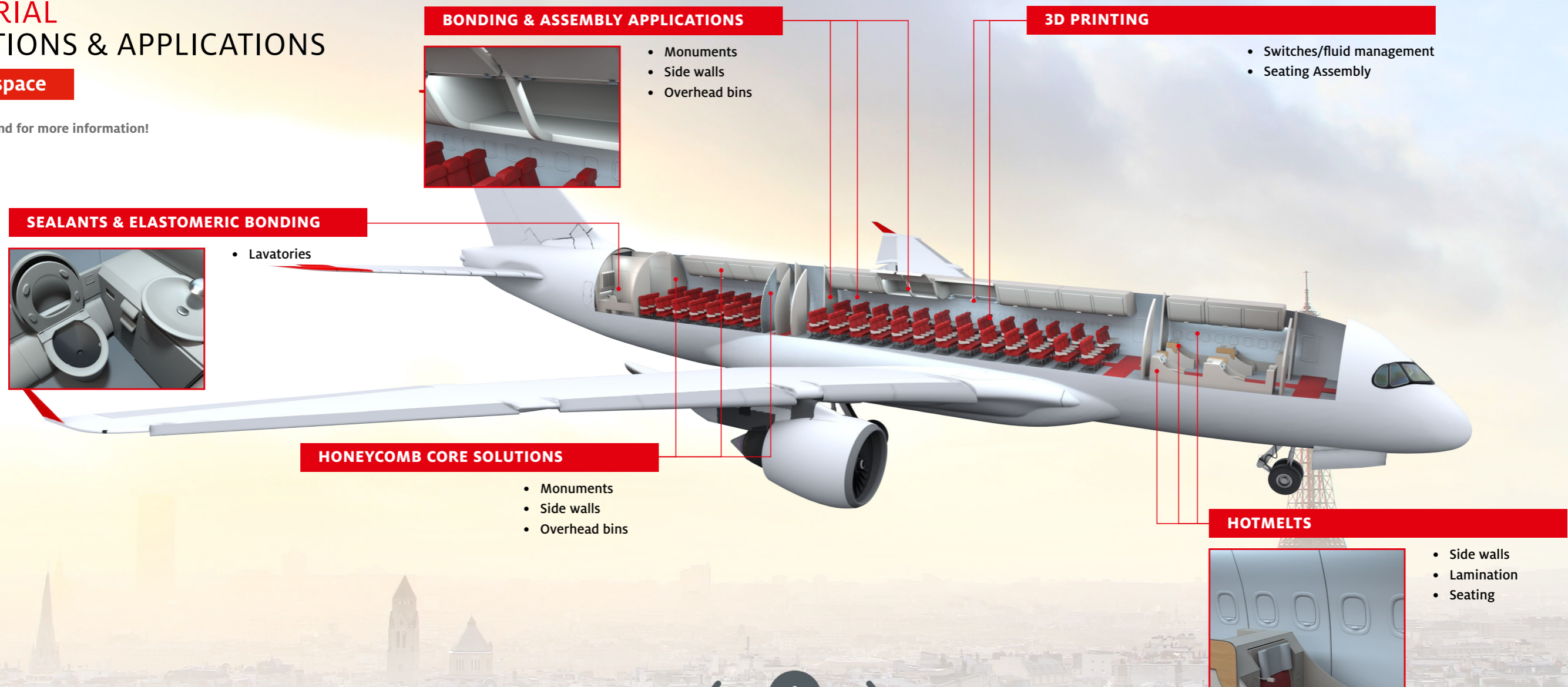
## Sealants

- Multiple chemistries available
- Excellent temperature & chemical resistance
- Excellent adhesion

## MATERIAL SOLUTIONS & APPLICATIONS

For Aerospace

Click around for more information!



# HENKEL ADHESIVE TECHNOLOGIES

## Selecting the right chemistry

In addition to offering the broadest product portfolio in the adhesives industry, Henkel provides an array services to help our rail equipment customers optimize their manufacturing process, improve efficiency and reduce overall costs. The following services are available worldwide.



### MANUFACTURING EXCELLENCE

Henkel has decades of success optimizing manufacturing processes. We can analyze your complete manufacturing process and provide tailor-made recommendations on how to reduce production cycle times and rejection rates, thereby lowering your overall costs and increasing your productivity.



### LAB TESTING

Henkel's testing capabilities can provide complete data on our product recommendations. Whether you want to analyze a single component of your production process or review the complete system, our labs can provide all data you need.



### CUSTOMER TRAINING

Henkel offers a wide selection of customized training programs to help customers learn the details of our product technologies and how to apply them effectively. We can also train you to use our custom-designed equipment efficiently. Our Technology Days provide additional training and demonstrations of our newest innovations.



### VALUE CALCULATORS

Using our Value Calculators, our adhesives specialists can accurately analyze the total costs of your adhesive process and determine your savings potential. Simply arrange an appointment with our specialists, and they will visit your production facilities to conduct an in-depth analysis.



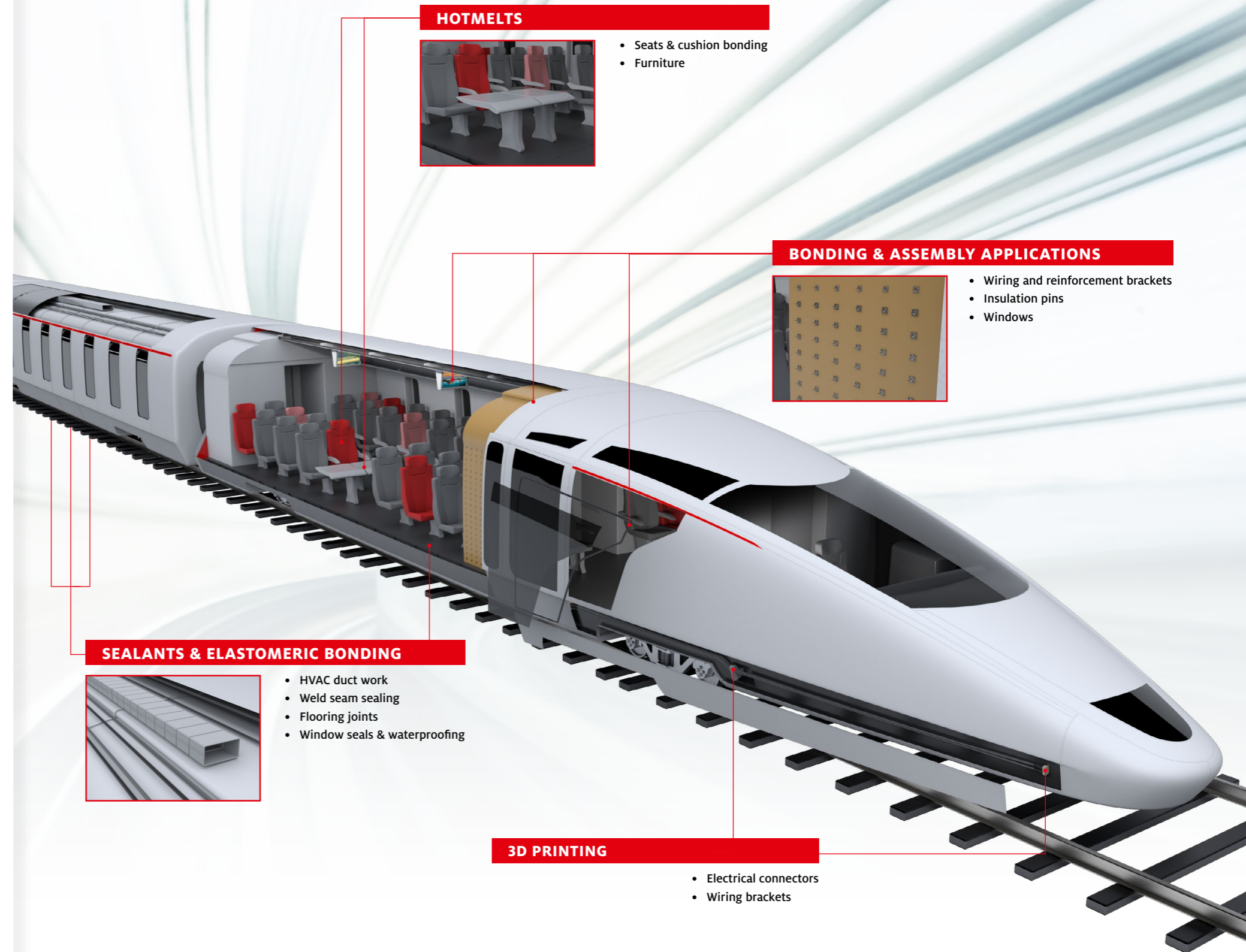
### ANALYTICAL SERVICES

Henkel provides comprehensive analyses of all steps in your manufacturing process using our own industry experts. We will identify problem points on the production line and recommend improvements to the manufacturing process. These services can also include equipment teardowns, surface analysis, and testing.

Click around for more information!

# MATERIAL SOLUTIONS & APPLICATIONS

For Rail

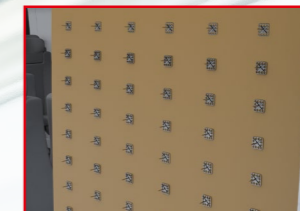


#### HOTMELTS



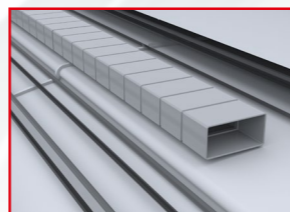
- Seats & cushion bonding
- Furniture

#### BONDING & ASSEMBLY APPLICATIONS



- Wiring and reinforcement brackets
- Insulation pins
- Windows

#### SEALANTS & ELASTOMERIC BONDING



- HVAC duct work
- Weld seam sealing
- Flooring joints
- Window seals & waterproofing

#### 3D PRINTING

- Electrical connectors
- Wiring brackets





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