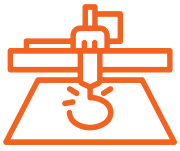
How could we improve the sustainability of our packaging portfolio?

How can we accelerate the development of the new packaging we are targeting?

What steps can we take to enhance the performance of our current packaging offering?

ArcelorMittal offers its customers a unique support service based on co-development and collaboration. At the heart of this innovation journey are our advanced R&D tools.

Equipment to measure packaging performance, from pressure-resistance of a component or can, to assessing the easiness of an easy-open end– some of our equipment is designed in-house to answer very specific needs.



On-site equipment to produce prototypes with presses, body-maker, welder, shaping machines (mechanical/blow)... all the equipment you would find in a canmaking plant.

Metallographic tools and 3D scanners – to swiftly evaluate the characteristics of a packaging component – for example identification of local material thinning or variation of the intended geometry to ensure optimum component performance.

Finite Element Analysis – we are using state-of-the-art FEA software to optimise your products, such as the geometrical profile of an aerosol bottom or a standard end to allow significant lightweighting.

Mechanical and rheological performance card for each steel material in our catalogue – with different tests from the classic uni-axial tension through to the Forming Limit Curve – this identity card for each material is required to carry out relevant Finite Element Analysis, and specify the steel material for subsequent industrialisation.

Thanks to all these capabilities and resources, we can accelerate product development, slashing time-to-market and minimising trial and error.

Contact your usual contact person if you are interested in partnership opportunities with ArcelorMittal. We're ready to help!

Who will help me?

- A dedicated team of around 30 people focused entirely on packaging
- Located on the Maizières campus in France, ArcelorMittal's largest R&D site globally
- 6 people dedicated to metal forming:
  - defining the required and best steel specifications for any application
  - evaluating a new product during the development phase
  - providing unique co-development services and capabilities that are unmatched.

What exactly does ArcelorMittal offer?

We have already helped our customers with:

- Optimisation of the beading design of three-piece can bodies to support the canmaker in achieving lightweighting objectives
- Recommendation on an easy-open end rivet forming sequence to reduce the risk of split rivets, using a thinner and harder Maleis® steel grade
- Production of a prototype of a new packaging tray co-developed with a canmaker for microwaveable-ready meal food
- Recommendation of a steel specification best suited to a new packaging solution, using an innovative forming route developed by a canmaker in partnership with an equipment supplier
- Working in partnership with an equipment manufacturer to understand and develop a forming solution for a canmaker manufacturing an aerosol bottom from thin and high strength grades

Our teams are ready to address your unique challenges and help you find tailored solutions.

What are the benefits of co-development with ArcelorMittal?

- Taking advantage of ArcelorMittal's unparalleled R&D expertise internationally
- We help to choose the best steel specifications from our catalogue or can even develop custom solutions tailored to your unique needs
- Free service dedicated to deliver real operational and business benefits for both our customers and our organisation
- ArcelorMittal strengthens its collaborative partnership by fostering a win-win working group with all stakeholders, led by the canmaker, to deliver the best solutions. This includes ArcelorMittal as the steel supplier, alongside equipment manufacturers, lacquer suppliers, and packaging designers.

Discover more
packaging.arcelormittal.com/Co-development