



17 PARTNERSHIPS FOR THE GOALS



BREMBO'S COMMITMENT

COLLABORATIONS TO IMPROVE THE ENVIRONMENTAL IMPACT OF PROCESSES AND PRODUCTS

Among its primary objectives, the innovation of Brembo products includes the reduction of environmental impact, linked to the production of the raw materials employed, the generation of fine dust, and greenhouse gas emissions produced by vehicles when braking. This is the context surrounding the “LIFE-CRAL” project, launched by the European Union in July 2016 and coordinated by Brembo, in collaboration with technical partner Cannon Ergos.



TARGET

- Develop an innovative production line that allows for the manufacture of high quality and lighter weight aluminum and magnesium components from recycled or highly impure materials.



ACTIONS

- Preliminary tests on a laboratory casting machine.
- Careful selection of materials and design of a pilot production line.
- Final installation and validation of the pilot production line.
- Manufacture of a wholly recycled aluminum caliper and of a prototype magnesium brake lever.
- Successful road endurance test (2000 km / 1,200 mi.).
- Environmental impact assessment of the CRAL process in order to meet EC policies.



RESULTS

- The use of aluminum deriving from the recycling process makes it possible to:
 1. avoid the consumption of energy and resources related to the extraction, refining and production of primary aluminum;
 2. reduce CO₂ emissions by 94%.
- The innovative production line guarantees the elimination of greenhouse gas emissions linked to the magnesium melting process.

For more information:
www.cralproject.eu