

Specific challenge

New vehicle washing methods for saving water and reducing mechanical and chemical action

Type of challenge

Process

Technology

Business

Product

Key words

Laser, ultrasonic, vehicle cleaning, vehicle dry cleaning, vehicle dry cleaning

Description

Currently, the methodology of automated vehicle washing is unique. It is based on a combination of mechanical action applied by rotating brushes and chemical action by detergents and other agents dissolved in water. The use of a scarce resource such as water and the environmental implications of the use of chemical products encourage us to look for alternative ways that can produce the same cleaning finish, eliminating or reducing the use of water and chemical products.

How could we

Cleaning the surface of vehicles with alternative methods that reduce or eliminate some of the current elements such as water, chemical or mechanical action. With special interest in the applicability of solutions based on laser, ultrasound or other technologies.

Specific restrictions or requirements

The proposal must be applicable on vehicle surfaces and materials, i.e. painted bodywork, glass, plastics, etc.
The proposal must not change the mechanical or colour characteristics of the surfaces.
The solution may not cause abrasion or removal of material on parts.

Profile of the provider we are looking for

Experience with technology
Ability to develop a rapid pilot test

Target indicators

Feasibility

Effectiveness

Cost