



## GENERAL MOTORS

# Energy performance analysis of spot-welding process

## Motivation

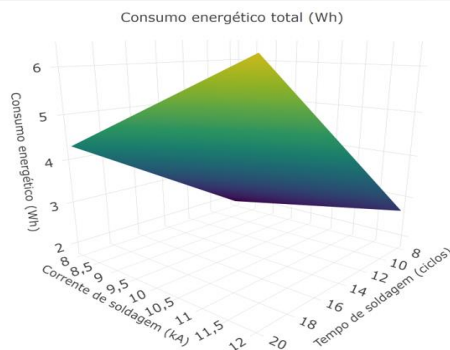
Energy efficiency actions directly contribute to reduction of operating costs, environmental impacts and support productivity increase of manufacturing processes. The spot-welding process is relevant in the automotive sector that stands out in Brazilian industry. Furthermore, due to its operational characteristics, it has high energy consumption.

## Objective

Analysis of energy consumption and quality aspects of spot-welding process by statistical approach.

## Approach

Statistical investigation of process parameters influence on energy consumption and joint quality. Aiming to obtain a combination that guarantees both the structural integrity of the joints and the proper use of electrical energy.



Contact: +55 (12) 3947-6948

Praça Marechal-do-Ar Eduardo Gomes - Vila das Acacias  
São José dos Campos - SP, 12228-900

Project Responsible: Prof. Dr. Anderson Borille