



ARMS

Muscle separation by a multi-arm robotic system

BUDGET

€1,990K

GRANTS
OBTAINED

€848K

ANR FUNDING

2010 - 2014

THE PROJECT

The ARMS project proposes to study the robotisation of the process of separating of muscle from bone in a leg of beef. An innovative multi-arm robotic system will be used, combining control methods and algorithms adapted to multiple arms, to perform and control four main mechanical actions at the same time (gripping, pulling, pushing and/or cutting), applied to three different types of meat items: rigid (bone), rigid/articulated (knee joint on the leg) and deformable (meat muscles). Advanced technologies such as intelligent sensors and active perception must be integrated to extract the relevant information. Deforming object tracking algorithms must send the appropriate data to the system's central control unit. The gripping and handling systems will be designed and validated using the ADIV's existing platform.

ViaMéca
French mechanical cluster



PROJECT SPONSOR

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