

Service ID S00268

Location Spain



Measuring and testing the static rollover threshold for robotics machiner

Provider service

University of Cordoba (UCO)

Link to content

<https://agrifoodtef.eu/catalogue-of-services/measuring-and-testing-static-rollover-threshold-robotics-machinery-tilt-table>

Type of Sector

Arable farming, Tree Crops, Viticulture

Accepted type of products

Physical system

Type of service

Certification, Collection of test data, Data analysis, Desk assessment, Performance evaluation, Test design, Test execution, T

Description

This service utilises a progressive tilt platform to conduct stability testing on self-propelled vehicles and robotics machinery, determining essential parameters of rollover stability. The testing infrastructure is designed to validate the effectiveness of rollover prevention systems, ensuring that machinery meets safety and operational standards. Ideal for arable farming, tree crops, and viticulture, this service provides clients with critical insights into the stability performance of their robotics equipment under varying tilt conditions.

How can the service help you

By evaluating rollover stability, this service supports manufacturers and operators of robotics machinery in enhancing equipment safety. It enables clients to assess stability thresholds and validate rollover prevention systems, providing assurance that their machinery meets safety benchmarks essential for field operations.

How the service will be delivered

Customisation options include adjusting the tilt angles and specifying safety performance metrics. The service can be tailored to different machinery types, such as tractors or forestry equipment, based on stability requirements. However, the volumes and weight of the machinery can be a limitation in the service being evaluated.

Service customisation

The service is provided on-site in Spain, where vehicles and machinery are tested on a tilt platform. Deliverables include stability performance reports, data analyses, and certification of rollover prevention systems. Clients should ensure machinery is prepared for testing and specify any desired stability metrics.