CENTRO DE COMPETÊNCIA EM MANUFATURA

EMBRAER

AME_ASA Project – Automation of Aircraft Wings Structural Assembly

Motivation

Aircraft wings is mainly assembled manually. The growing demand of this products requires the application of automation technologies to reduce the lead time manufacturing process and the risks and consequences about the ergonomics of operators and the process executed.

Objective

Development of robotic systems and end effectors applied in industrial robots to execute the tasks necessary to manufacturing aircraft wings.

Approach

Through all its developed systems, the AME_ASA Project can provide the automation and the integration among the tasks and the systems necessary to execute all the manufacturing process in aircraft wings structural assembly, varying since the initial stage of positioning and assembling the wings structure until the stage of sealing the fasteners.

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