

# RAMSIS AIRCRAFT

## DIGITAL ERGONOMICS FOR COCKPIT & CABIN DESIGN

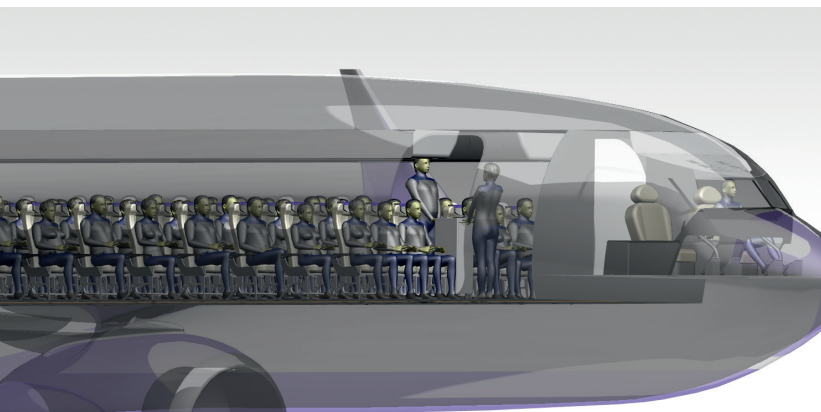
### Integrate the human into the virtual aircraft development

Today's aircraft are developed entirely in 3D, and ergonomics must keep pace.

RAMSIS simulates the posture and movement of pilots, cabin crew, passengers, and maintenance personnel directly in your CAD system. This enables you to assess and optimize visibility, reachability, operation and space usage – long before a physical prototype exists. RAMSIS supports faster iterations, more confident design decisions, and a more human-centered aircraft from day one.

### What RAMSIS delivers

- » Accurate 3D manikins based on international anthropometric databases
- » Role-based posture calculation based on tasks
- » Analysis of reach envelopes, space requirements and field of view
- » Ergonomic assessments for controls, comfort, and force
- » Easy animation & video export of operating sequences
- » Seamless integration into CAD Platforms like Catia V5, Siemens NX and 3DEXPERIENCE



### Your benefits

- » Ergonomic layout of cockpit and cabin from concept phase onward
- » Optimized vision, reach, seating, and operation
- » Reduced physical testing, development time and cost
- » Scientifically valid posture and motion behavior for all relevant roles
- » Improved collaboration between design, engineering, and certification
- » Transfer studies across multiple vehicle types and designs



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