

ESI GROUP | Virtual Prototyping

VIRTUAL SEAT PROTOTYPES READY FOR FINAL CERTIFICATION

Solutions for virtual seat prototyping

For aeronautics seat manufacturers and suppliers

A global solution - one single model - shared by all teams, coupled with Virtual Reality technology.

CONTACT

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ESI Group, global supplier of Virtual Product Engineering, has developed a global, innovative and unique solution for aeronautics professionals. It allows the design and validation of a new seat without building numerous real prototypes: Virtual Seat Solution provides multi-disciplinary teams the possibility to work on the same Virtual Prototype.



Optimization of cabin comfort

"Designer, Manufacturing or Safety Engineer... Each team can see the same model from a different perspective, according to its specific constraints (fabrics, structure, safety, comfort...)", explains Caroline Borot, Business Development manager for Virtual Seat Solution "Prior to real prototyping, the different teams assess tradeoffs taking into account highly different requirements and can virtually pre-certify the seat before the real final test."

SEAT DESIGN: MANAGING CONFLICTING REQUIREMENTS

Nowadays, aircraft manufacturers want to increase aircraft capacity, improve passenger comfort and living space, lighten aircrafts and meet safety requirements.



Simulation of an emergency landing for seat certification

So many necessary yet conflicting expectations, which make seat design more challenging. Virtual Seat Solution integrates those requirements through calculations taking into account the behavior of materials' physics. Coupled with its Virtual Reality platform, it is possible to interact in an immersive way in a cabin to better experience the seat's behavior. ESI is the only company offering such an association in a dedicated seat solution. ■

To see on Youtube: [Virtual Seat Solution coupled with Virtual Reality for Aero Seat Design](#)