

INTERACTIVE FITTING FOR

CATIATM

3S CATIA
SHAPE THE WORLD WE LIVE IN

IFC Core and Human are a software add-on for Dassault Systemes CatiaTM V5. It enables interactive real-time simulation and digital human capabilities inside a virtual environment, while maintaining all basic functions. The user can simulate assembly simulation with force feedback and human operation: Accessibility testing, Visibility study, Operator training, Ergonomic assessment, Workplace simulation, Collaboration work

#Virtual Reality #Ergonomic #Dassault



3D Real-Time Interaction and Simulation

- ✓ IFC Core: realtime animation of part with collision detection
 - ✓ Simulation set-up: Easy control start, stop, resume
 - ✔ Realtime Animation of part with physics:
 - ✓ Create physics (selecting tool: working zone)
 - ✓ Animate and visualize clash in realtime
 - ✓ Support for haptic interface
 - ✓ Support weight
 - Create container
 - ✓ Manage the tolerance
 - ✔ Output record a track
 - Read Kin description, and animate the kinematic in realtime
- ✓ IFC Human : Realtime Animation of full human with physics:
 - ✓ Scale operator motion, integrate manikin's kinematics
 - ✓ Easy calibration, and attach/detach manikin
 - ✔ View collisions points on contact points
 - ✓ Animate up to 4 manikins
 - ✓ Output: store a human posture
- ✓ Supported devices:
 - ✔ Optical tracking system: ART, Vicon
 - ✓ Inertial system: Xsens
 - ✔ Force feedback: Haption's product Virtuose
 - ✔ Glove: Manus, Cyberglove
 - ✓ 3d mouse: 3Dconnexion
 - ✓ On request input stream

TECHNICAL SPECIFICATION

Dassault Systemes supported configuration, with minimum 32 G of RAM, quad-core, and dedicated Ethernet for the realtime input device

Supported Released V5-6R2019 to V5-6R2025

PREREQUISITE

Haption 1 license of IPSI Server

Dassault Systèmes IFC Core: MD2 + FIT, SPA, DM3, KIN

IFC Human: IFC Core + HBR

