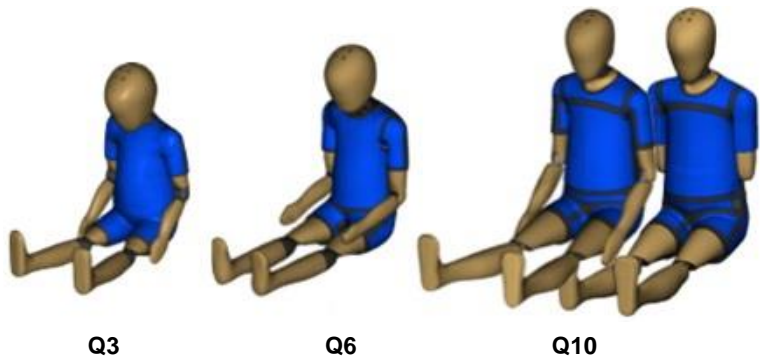


# CELLBOND-PHITEC Q-DUMMIES



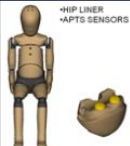

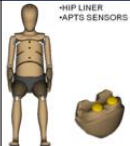


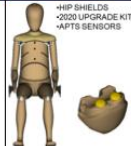
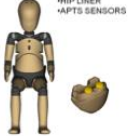

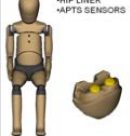

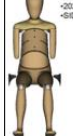


CELLBOND and PHITEC have an established partnership for the development of virtual models of the Q-Dummies family

Q3, Q6 and Q10 dummy models are available today



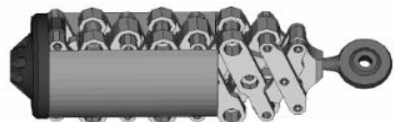
Q3, Q6 and Q10 models:

	Q3		Q6		Q10			
	R129	Euro NCAP	R129	Euro NCAP	R129	Euro NCAP	Euro NCAP 2020	C NCAP 2021
Front								
Side					No side impact testing in R129 with Q10			No side impact testing in C NCAP with Q10

## Model meshing details

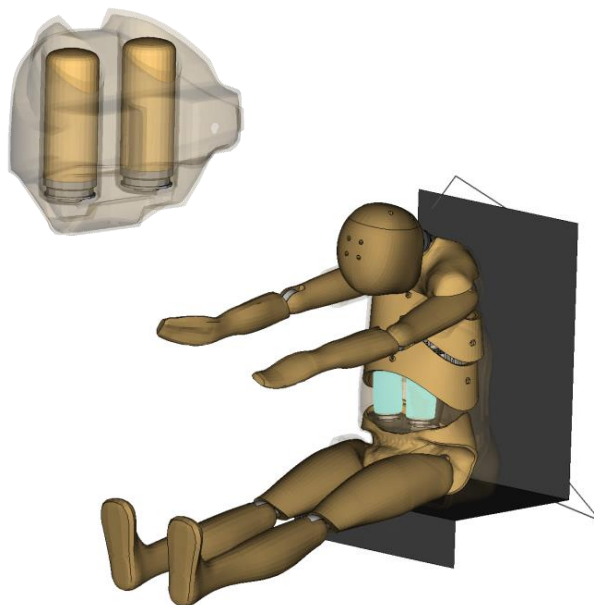
The FE dummy models include all geometrical details. All the sensors are modeled as solid volumes

**S-Track** uses a kinematic mechanism to measure chest deflection. The model has a correct representation of mass and inertia



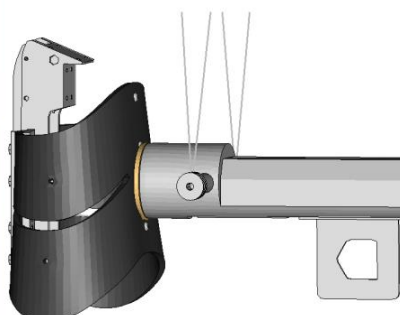
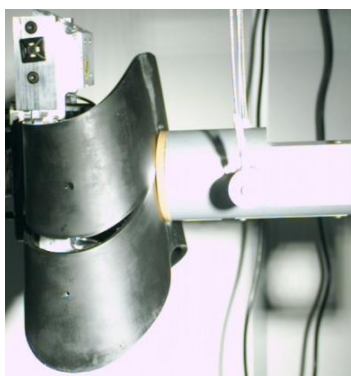
## Abdomen with APTS

The **Q10** model with **APTS** sensors for **C-NACP 2022** is now available



## Dummy Component Tests

The FE Model components have been validated with correlation tests at different impact speeds



Physical test vs FE Model

## Software versions

The Q-dummies models are available for the LS-Dyna solver. The versions for Pam-Crash and RADIOSS solvers will be available upon request

## Easy dummy positioning

To make the dummy installation process as easy as possible, Phitec has established collaboration relationships with pre-processing tools editors such as Oasys for Primer, Beta CAE for Ansa and GNS for Generator 4

**For information and technical support please contact**

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