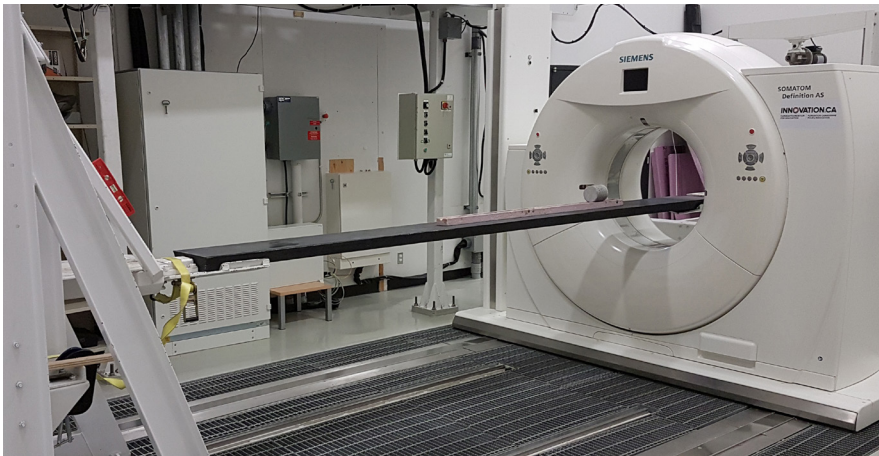




**CORECELL™ WAS THE PERFECT MATERIAL CHOICE, A MATERIAL WHICH IS TRANSPARENT TO X-RAY, EASY TO MACHINE AND WITH EXCELLENT SUPPORT PROVIDED BY GURIT.**

**YVES MATHIEU**  
Project Manager, CDCQ



Manufacture of a CT scan table

The Centre de Development de Composites Du Quebec (CDCQ) in collaboration with the students of CEGEP Saint-Jerome were set the challenge to create a 3.8m long CT scan table for inspection of large parts, up to 70 cm in diameter and 450kg in weight. The materials to be used for the table should be transparent to X-ray with low deformation under load, meeting stiffness requirements set by the Institut National de la Recherche Scientifique (INRS).

Guided by the CDCQ, the students chose Gurit Corecell™ for the structural core material to be used in the sandwich structure, due to its rigidity and unmatched dynamic strength.

The project was an excellent learning exercise for the students as they reviewed all aspects of the development, from specifying and sourcing materials, ensuring minimum cost and tooling, manufacturing the part alongside a technician from CDCQ and full inspection and validation of the resulting part to ensure correct dimensions and low deformation under load.

Corecell™ SAN foam for testing equipment.

**TARGET**

Manufacture a 3.8m long CT Scan Table for inspection of large parts. The table must be transparent to X-ray with low deformation under load.

**SOLUTION**

Use of Gurit Corecell™ for the sandwich structure.

**BENEFITS**

Corecell™'s unmatched toughness, impact resistance, and good compressive strength and stiffness, make it an ideal material for this application.

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