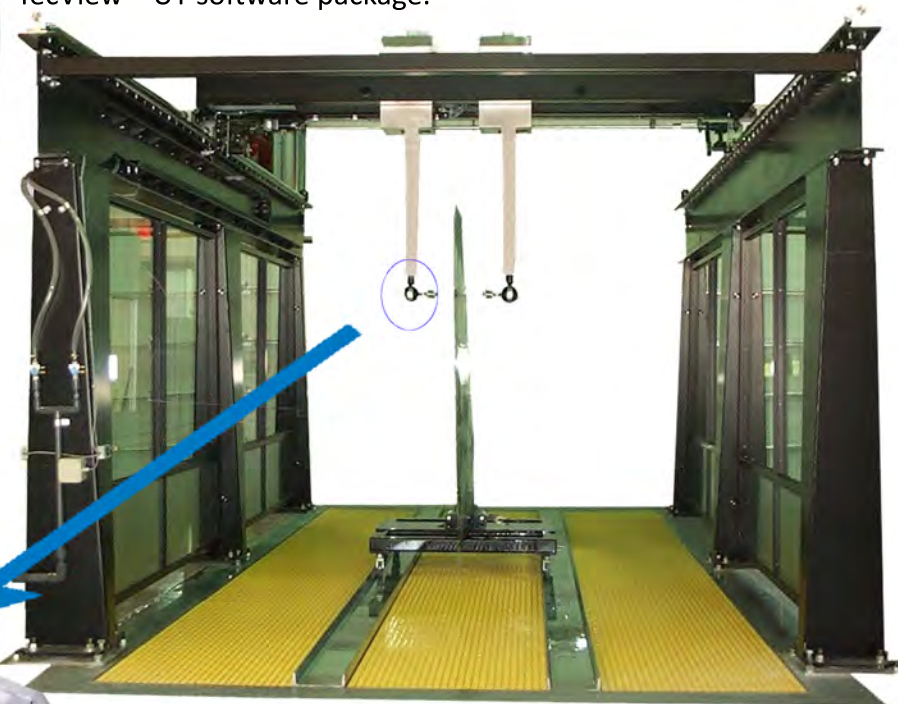


# GANTRY SYSTEM

TecScan's Gantry Systems are specifically designed for Non-Destructive Ultrasonic Inspections of large structures and parts. The Gantry System is composed of a large scale industrial scanner, state of the art motion control station, cutting edge Ultrasonic Hardware and our amazing TecView™ UT software package.

[www.tecscan.ca](http://www.tecscan.ca)



Swivel/Gimbal squirter Assembly

## UNMATCHED SCANNING FEATURES

Our standard system configurations are:

- *Gantry with Overhead Bridge (single or double bridge)*
- *Side-Arms Gantry system*

The first configuration represents a 9 axis system with a single/double X-Axis bridge, two Y-Axes, two Z-Axes and two swivel/gimbal assemblies. This gantry system is best suited for larger parts with less complex geometries. Inspection can be conducted in through-transmission and pulse echo from each side simultaneously.

The Side-Arms Gantry configuration is specially designed to perform 3D scanning of complex composite and metallic structures. Such Gantry System consists of 2 independent X-axis towers (X1 & X2), 2 horizontal Y carriages (Y1 & Y2), 2 Z-axis (Z1 & Z2), and two Swivel / Gimbal assemblies.

## Typical Scanner specifications

Axis	Speed	Accuracy (Per Feet)	Resolution (Per Step)	Repeatability
X	32"/Sec	±0.005"	0.0005"	0.003"
Y	16"/Sec	±0.005"	0.0005"	0.003"
Z	16"/Sec	±0.005"	0.0005"	0.001"
Swivel (A)	45°/Sec	±0.10°	0.01°	0.05°
Gimbal (B)	45°/Sec	±0.10°	0.01°	0.05°

\*Scanner specifications can be customized to meet client's requirements

75 De Mortagne Blvd., Suite 122, Boucherville, Quebec, Canada J4B 6Y4

T • 450 • 641 • 5876 | F • 450 • 641 • 5873



# GANTRY STRUCTURE

All gantry system can be provided with water recuperation tanks or an integrated concrete pit design. A high efficiency water filtration system and water regulation needle valves are provided in order to optimize water flow to ensure constant UT signals.

## Advanced 3D Gantry System

For complex parts and components, the Side-Arms gantry system can perform contour following or full 3D scans using TecView™ 3D. The gantry is fully computer controlled and can teach-learn the parts or import scan plans directly from CAD files. High-speed scans on 3D surfaces could be achieved with the gantry system while displaying the C-scan results in real-time.



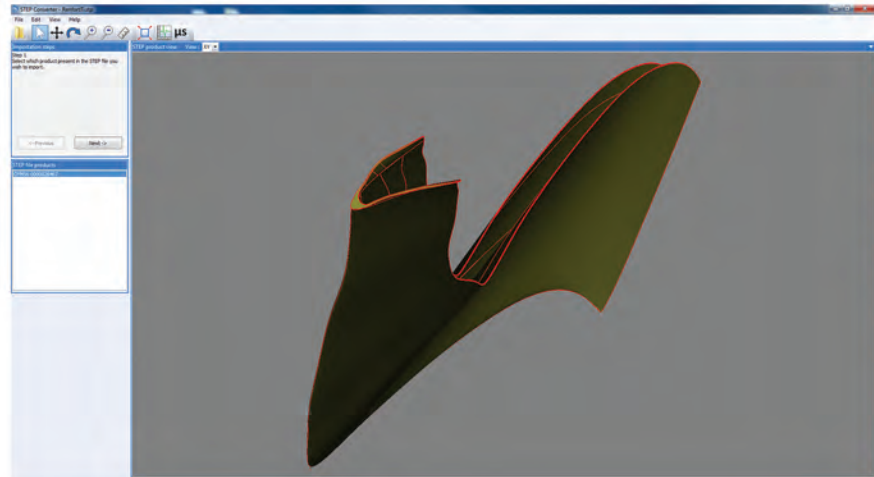
# GANTRY SYSTEM

The control station consists of a fully integrated enclosure housing all the motion control electronic, workstation and UT hardware allowing the operator to control every aspect of the system from this station. At the heart of these high-techs inspection system is TecView™ UT. This fully integrated software platform allows for the complete control of the entire inspection process from a single interface.

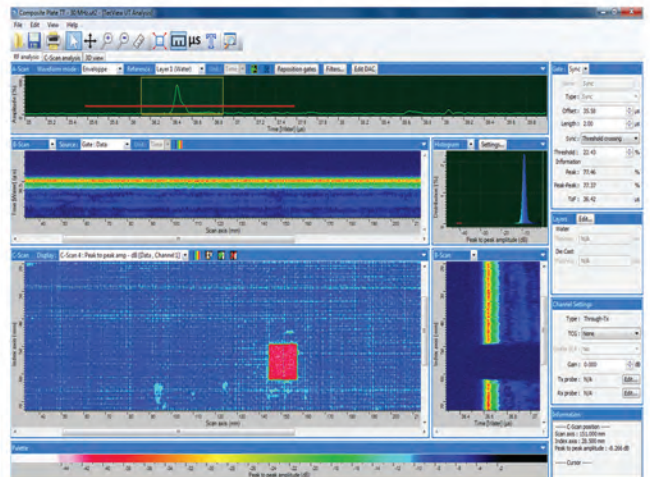


# TECVIEW™ UT

TecView™ UT makes the NDT process simple and rapid. The software aids the user to setup the inspection parameters and it incorporates different modules including Data Acquisition and Management, robotic control, imaging and Data Analysis and Interpretation. It also features basic and advanced contour following capabilities.



Tools for CAD import and 3D display



TecView™ UT