



AG-2

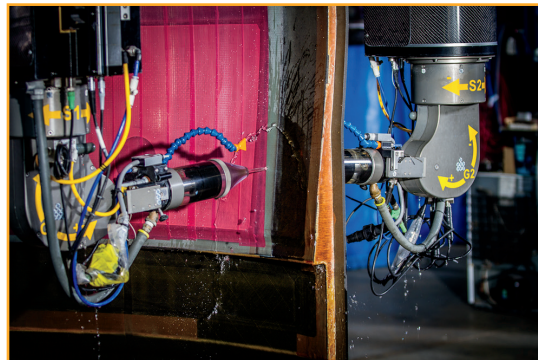
10-Axis Dual Squirter Ultrasonic System

AG-2 Benefits

- Full contour scanning of complex cored and solid laminate components
- Meets stringent uniformity requirements on complex shapes
- Very large scan envelopes
- Flexible fixturing options
- Dual frequency capability for a faster, more complete part analysis
- Simultaneous PE and TTU scanning mode significantly reduces inspection time
- Capable of Phased Array, Pulse Echo, and Through Transmission scan modes

AG-2 is a full featured, contour following 10-Axis Overhead Gantry Scanner consisting of a steel frame support structure, two x-axis scanning bridges, two Y-axis carriages, two Z-axis vertical columns, and two gimbal/swivel assemblies.

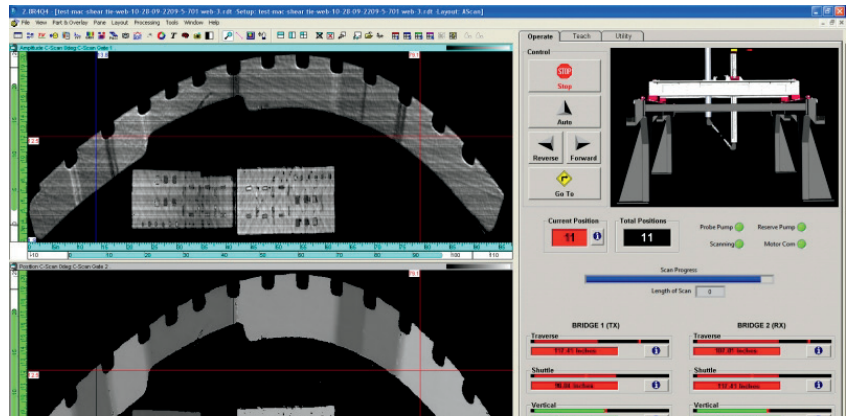
AG-2 includes all ultrasonic equipment, acquisition and analysis software, and water system. All motors and encoders are fully compatible with Marietta NDT MultiScan motion control software with full contour following capability .



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10-Axis Dual Squirter Ultrasonic System

- All motors and encoders are fully compatible with Marietta NDT
- MultiScan motion control software with full contour following capability
- Magnetic breakaway nozzles help prevent system and part damage
- High speed/high resolution scanning modes
- Optional in-floor rotary axis for increased throughput of cylinders and partial cylinders
- Linear rails have stainless steel cover strips over all mounting holes to prevent dust and debris from entering guide bearings and causing premature wear
- Dual cable carriers for the majority of system axes to reduce RF noise and ensure high signal-to-noise ratios
- CAD model import module
- Offline programming software module for validation and optimization of scan plan



Axis	Axis Travel	Backlash	Repeatability	Speed	Acceleration
X ₁ X ₂ Traverse	Up to 40 ft.	< 0.004"	< 0.001"	Up to 30 in/s	Up to 35 in/s ²
Y ₁ Y ₂ Bridge	Up to 24 ft.	< 0.004"	< 0.001"	Up to 30 in/s	Up to 35 in/s ²
Z ₁ Z ₂ Vertical	Up to 12 ft.	0	< 0.001"	Up to 30 in/s	Up to 35 in/s ²
G1, G2 Gimbal	+/- 50 degrees	< 0.02°	< 0.005°	Up to 36°/s	Up to 30° in/s ²
S ₁ , S ₂ Swivel	+/- 110 degrees	< 0.02°	< 0.005°	Up to 36°/s	Up to 30° in/s ²
Total System			< 0.010"		