



Ultrasound

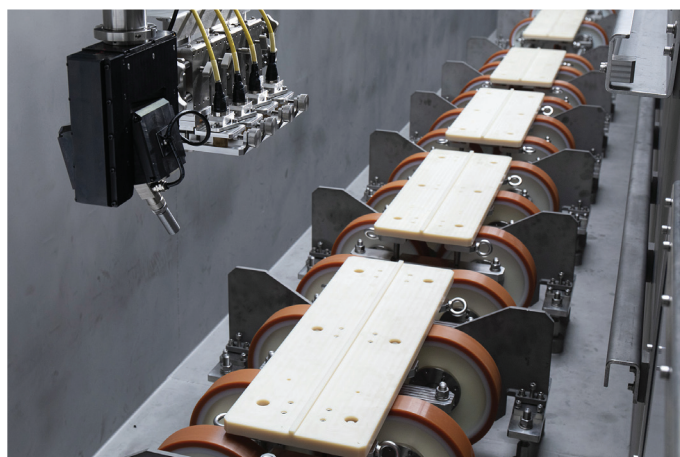
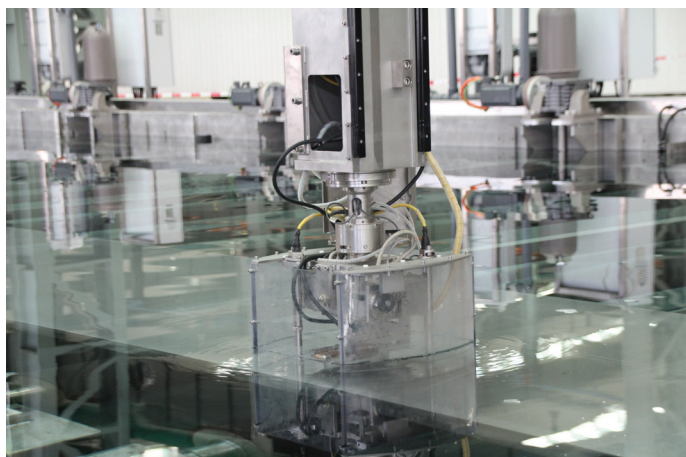


Immersion Systems

Ultrasonic Inspection Solutions

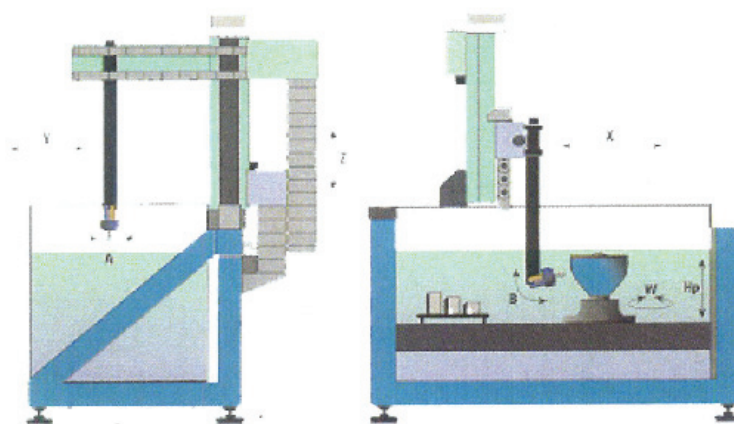
FEATURES

- Fully integrated imaging systems, including ultrasound electronics, scanning mechanics, axis motion control, data acquisition and software processing.
- USC-100b multi-channel programmable instrument with excellent near-surface resolution. Approved by all major manufacturers for C-scan inspection of aero engine forged discs and other applications.
- Full integration of phased array capability for multi-area and multi-angle inspection using linear, ring or array phased array probes.
- Powerful self-learning and coordinate scanning software for inspecting complex 3D parts. Offline part programming, by importing the model from CAD file.
- Processing B-scan and C-scan data with different analysis tools.
- Access to a library of tools for analyzing and evaluating inspection results.
- Advanced algorithm for the automatic evaluation of turbine disks (aero engines).
- Clear inspection reports, standard and customizable versions.
- High precision, high speed with closed loop servo motor control, including encoder feedback.
- Mechanical architecture by XY bridge or Cantilever assembly.
- High resolution, motorized manipulator with electromechanical protection that prevents damage to the manipulator, transducers and associated tooling in the event of collision.
- High performance turntable, with manual self-centering or motorized clamping.
- Continuous or two-position turntable lifting device for easy loading and unloading of parts.
- Possibility of loading and unloading parts automatically by robot.



Standard Immersion Scanners - Key Features^{1,2}

Model	Linear movement of the axes			Manipulator ³		Max room Ø mm	Ability plateau rotating Kg	Height of water mm ⁴
	X mm	Y mm	Z mm	A degree	B degree			
LS 500 series								
LS500-1000 ^{5,6}	1000	600	700	± 38	± 112	600	200	430
LS 200 series								
LS200S	1200	600	600	± 38	± 112	600	200	450
LS200L-1200 ⁵	1770	920	1000	± 38	± 112	1200	1000	820



LS200LP-1200 ⁷	1400	920	1000	± 38	± 112	1200	1000	780
LS200L-1550 ⁵	1800	1100	1000	± 38	± 112	1500	1000	780
LS200LP-1500 ⁷	1680	1100	1000	± 38	± 112	1500	1000	740
DS200 series								
DS200i-1800 ⁷	2000	1500	1300	± 38	± 112	1800	1500	1200
DS200i-2000 ⁷	2000	1800	1300	± 38	± 112	2000	2000	1200

¹ Please see product data sheet for complete information

² Bowl size and turntable capacity customizable on request

³ Additional axis of rotation (U) available, range of motion ±185°

⁴ Measurement from the jaws of the turntable

⁵ Two-position lift table motorization option

⁶ Extendable length from 1500 to 2000 and larger

⁷ Motorized continuous motion lift table included

OPTIONS

- Full integration of phased array capability
- 3D contour tracking for scanning parts with complex geometries
- Motorized lifting system (lift table), two-position or continuous movement
- Motorized clamping for quick attachment of parts
- Rotating device for the inspection of bars, tubes and billets
- Application-specific multi-translator probe holder
- Mechanical or ultrasonic surface tracking device
- Robot loading and unloading device for automated control
- Transportable version with quick installation and ready for control (Series : SKAN200, SKAN500)



DS-200-2

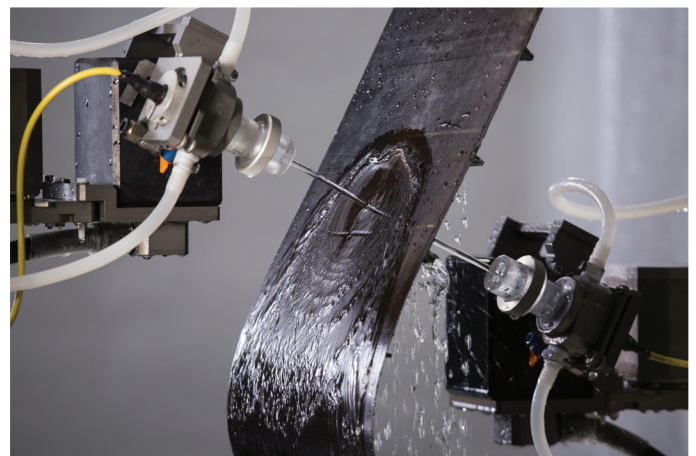
Turbine blades



Systems for control of composite



Cylinders and bars



Water jet nozzle systems

