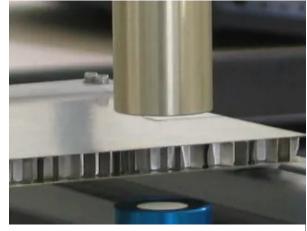
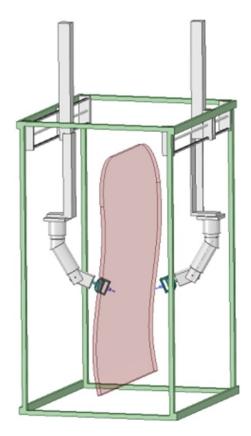
## Air-coupled Ultrasonic Testing System (In-line) GSCAN TYPE.AERO

Ultrasonic testing by air-coupled method is best applicable for Li-ion batteries, CFRP components with honeycomb structure or other materials for which water cannot be used as contact medium.

GNES

Existing ultrasonic testing methods require contact medium like water to transmit ultrasonic waves to scan objects, but water cannot be used for a scan object for which rust or deterioration is concerned. Using low frequency probes, high power pulser/receivers, signal amplifier and noise filters, air-coupled ultrasonic testing becomes possible without contact medium. Just install onto the production conveyor a mount fixing multiple probes arranged in parallel to enable automatic scanning of flaws inside of steel plates, board shape construction materials and so on. With robots integrated in the system, large aero-space components can be inspected in a short time.







- ALD X IS MORE	
日付: 2012年11月02日	〕 ライン速度: 63m/min 材料サイズ: 120mm*120mm*3000 →
NG/測定数: 212 / 1,248	
検査者: GNES	ブランキング距離: 両端300mm 、 ストップ
1/EUE200am On-ECC23des Chi-An-FCBERER	
現在の測定結果 OK	
シリアルNo.: 01248 時刻: 1452:04	移動者:GNES 材料サイズ:120mm+120mm+5000 ブランキング問題:同論300mm ライン連載:60m/min
	→ 現態がかったいの能が行う実施のかったいの数:1571 →
	検査者:0465 初刊/1/(120mm*120mm*0000 ガジルン(原題:同報000mm うく)連載(60m/min
シリアルNo.: 01145 時刻: 14:38:00	株置者10NES 核149-621120mm+120mm+12000 75545/2距離1月第200mm ライン推測160m/min
→	→ 経営のサンガング目1571 実用のガンガング目1560 →
シリアルNo:01133 時刻:143620	検査者:04ES 相称行くズ:120mm+120mm+3000 プランキング振躍に再端200mm ライン連算:63m/min
5577010. 01105 WERL 143020	
	→ 理想のサンプシング取り行い 実際のサンプシング取り500 →
シリアルNo:01011 時刻:14:11:03	検査者:GNES 材料学-(ズ:120mm+120mm+120mm+12000 プランキン/距離:両端200mm ライン速度:60m/min
→	→ 地球のサンアシク税にお1 単規のサンアシク税にお1 →
シリアルNo:00878 時刻:1352.27	検査者10465 材料行くだけ20mm#100mm#0000 プジンタン切開鍵:再構成00mm うく/現象160m/min
シリアルmo., 00878 時刻: 13:02:27	
-	→ 単語のための知識の「素描のための別」の →
	検査者:0465 初刊ウイズ:120mm*120mm*5000 プジンキン(振躍:同株000mm うく)連貫:00m/min
シリアルNo:00850 時刻:13:48:34	Real Works MPP/1A-robert Lamman フェンモンの配置:用電のmm ラン型型:Gm/min
1 39-5 P SERVER	

## Easy to judge OK/NG, position or distribution of flaws!

Test date/time, inspector, scanning conditions, dimensions of a workpiece and so on can be entered in the screen. When the workpiece is judged NG, it is known by the display of defect sections shown in red as well as the buzzer and the rotating warning light installed on the machine.









## Air-coupled Ultrasonic Testing System (Off-line) GSCAN TYPE.AERO

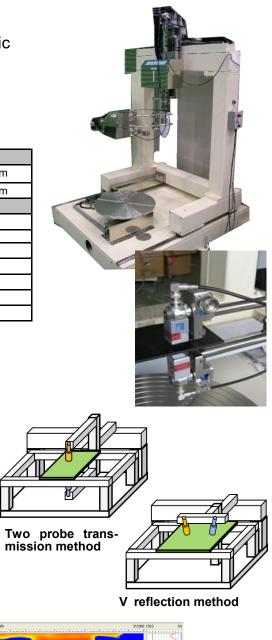
Electrical dual axis deign provides both two-probe ultrasonic transmission method and V reflection method. Air-coupled ultrasonic testing system with open frame makes it easy to operate and mount/unmount workpieces.

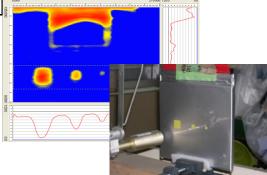
Hardware specifications (Mechanical section)		
Mechanical section (dual axis)	X axis (scan distance) 200mm / (resolution) 0.1mm	
	Y axis (scan distance) 200mm / (resolution) 0.1mm	
Hardware specifications (Pulser/Receiver)		
Frequency	MAX200Hz (*1)	
Pulse type	Burst waves	
Applied voltage	MAX800V (*1)	
Sensitivity	0~80dB	
Received frequency band	0.01MHz~7.0MHz	
Filter	50kHz、120kHz、400kHz、2MHz、4MHz、5MHz	
(*1) depends on scanning conditions		

Software specifications (standard)	
Controlled axis	Х, Ү
Scanning mode	X-Y
Display type	Plan view
Display contents	Echo height
Tone gradation	Gradation with 16 colors pallet
	Gradation with 2 color pallet
	Gradation with RYB color pallet
Move to cursor position	Probe moves to the position of crosshair cursor in plan view.
Measurement	Position of crosshair cursor to be measured
	Area designated by square cursor to be measured
Comment	File name, filename extension type, memo
Scan settings	Programmable by PC
Teaching	Teaching between 2 points
Files available	Scan setting files, tone setting files

## For inspection of Li-ion battery electrolyte filling

With PP sheets with 02mm thickness as artificial flaws attached on the package, scanning a Li-ion battery cell by air-coupled method provided successful inspection result.





\* Specifications are subject to change without notice. Ask details spec of PC.