

The LEADER in ADVANCED Solutions

www.autsolutions.net

SOLUTIONS

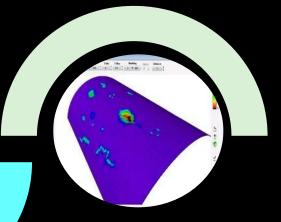
About us:



Field Support and Training

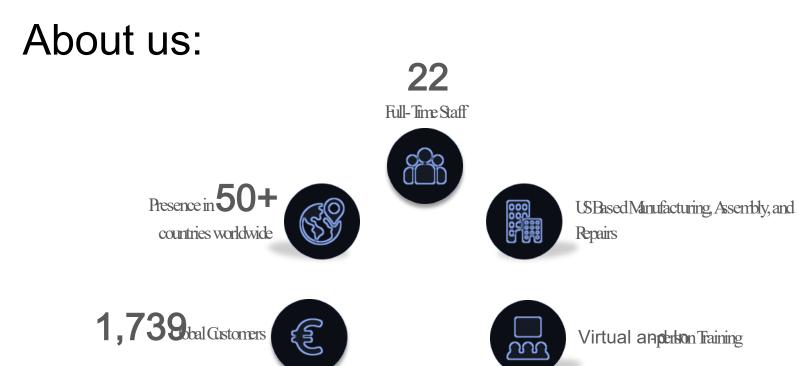
<u>Consulting</u>

- 4xNDTLevel III certified Staff
- Fighty+years of experience in the Fnergy, Petrochemical, and Aviation
- Project consultation
- Level III Services
- Third-Party Data Review



Advanced Utrasonic Training Course





A rigorous QC process:

Our ambition is to provide our customers with a service adapted to their needs, based on the skills and proximity of our eOurlouvality Management System (QMS) aims to guarantee this service for o



About us:

Specializing in Alvanced NDT product solutions ranging from Mobility Platforms, Phased Array inspection tools, Automated Corrosion Mapping, and flaw detection inspection systems for the petrochemical, power generation, oil, nuclear, and aerospace industries.

AUTOMATEADNERS

Phased Array, TOPD Milti-channel Pulse Echo, and Short Range Giided Wave inspection systems. What makes our product unique?

- Reliable, modular components
- Automated acquisition systems
- Multi-functional, plug-and-play design
- On-demand support
- Permanent data collection and storage

MANUALUISCANNES

- Phased Array and ToFD
- ABCD-scan Corrosion Mapping
- Short Range Guided Wave (SRUT)
- Configured to fit any custom application





KENFAILRES

- USB powered dual-channel high speed acquisition system with advanced ultrasonic tooling and visualization.
- Corrosion Mapping, TOFDand SRGWdevice.



KEYFEATURES

- USB powered 8-channel high speed acquisition system with advanced ultrasonic tooling and visualization.
- Corrosion Mapping, TOPDand SRGWdevice.





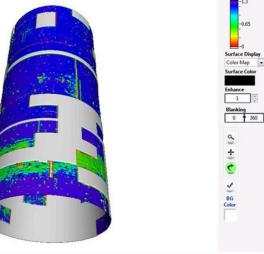
PROSCANXT

<u>FEATU</u>RES

- USB powered single-channel high speed acquisition system with advanced ultrasonic tooling and visualization.
- Software includes Ascan, B-scan, G-scan, 3D and 4D display specified for Corrosion Mapping and providing quantitative thickness measurements
- Corrosion Mapping, TOFDand SROWdevice
- Includes ProScan flow detector

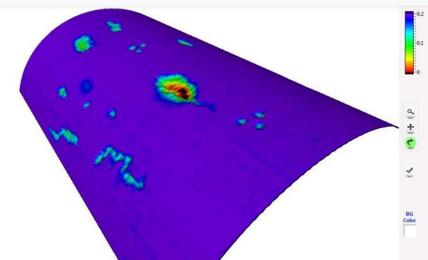




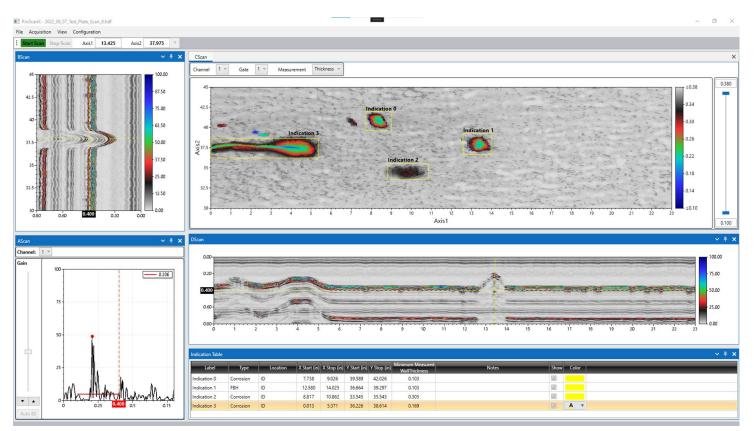


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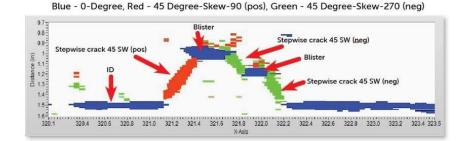
Available FebP20233Xsoftware suite

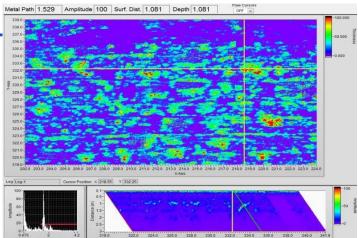


PROSCAN SOFTWARE St

KEYFEATURES

- Analysis software includes Ascan, B-scan, G-scan, 3Dand 4Ddisplay specified for Corrosion Mapping and providing quantitative thickness measurements
- Pipeline Burst Pressure Calculator Effective Area, B31G and B31G
 Midified pipe burst pressure calculations.
- OrniScan Data Conversion Software To analyze OrniScan datafiles with the ProScan Analysis Software.





Coming schorecan XPhased Array





- . UT Ethernet-W-Fi
- PAT-Ethernet
- EVAT-W-Fi
- . TinyPEC-Ethernet-W-Fi







Automated Scanners

- AccuTrak
- Bandit
- Ranger
- R-Mot
- ThermalScan
- Hand-Heldmotion
 control

ACCUTRAK

Automated Steerable 3-Axis Scanner/ Gawler for Phased Array Inspections, TOPD and Corrosion Mapping

The AccuTrak scanning system configuration allows many customization options ranging from multi-probe weld inspection utilizing Phased Aray and ToFD techniques, Corrosion Mapping, Internal and external Piping inspection, and Remote Visual Inspections RV.

TAKSCAN

Remotecessitomaleaboturawler

RM0T

ID Inspection Solution for external corrosion mappi

WELD SCAN

Steerable Laser Guided Weld Inspection Scanner





Advanced-WHDSCANNG

Steerable Laser Guided Weld Scanner

- Mili group PALT TOPDwelds inspection
- Axial pipe inspection
- Independent truck articulation
- Spare Xand YMbtors
- 2"-250 unbilical
- Wélds tracking system
- Modularity

Advanced-TAXKSCANNG

Remote Access Robotic Crawler

- API 653 B-Scan Tank Inspection
- Scan up to 6' per second and can climb vertically over weld seams as high as 3/4' without hang-ups or falling off.
- The AccuTrak and AccuTrak ITTine of automated scanners are modularly designed so modifications or repairs can be done in the field within minutes.
- Modularity

Advanced-R-MOT

Internal Pipe Inspection Gawler

- Remote access
- Greumferential ID8"-36"
- 2or 4 transducers set up
- 100ft umbilical
- Modularity

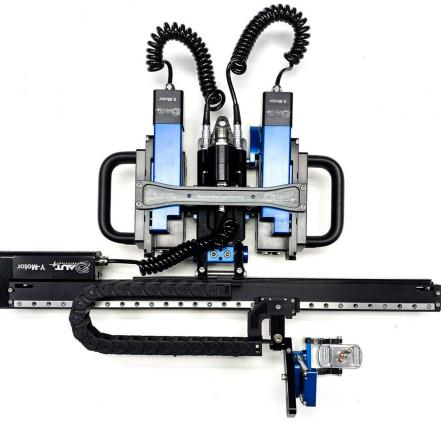
ACUIRAK 3-Axis version, Remote Corrosion Mapping, TOHD&Phased Array Weld Inspection

<u>FEATU</u>RES

- Greumferential (1) 4"+
- Axial Pipe (D) 8"+
- Axial Pipe ID 15"+
- Spiral Welds (D) 15"+
- Tim Radius: 12"+
- Modularity

SPHDS:

- X6"/ second
- Y30"/ second

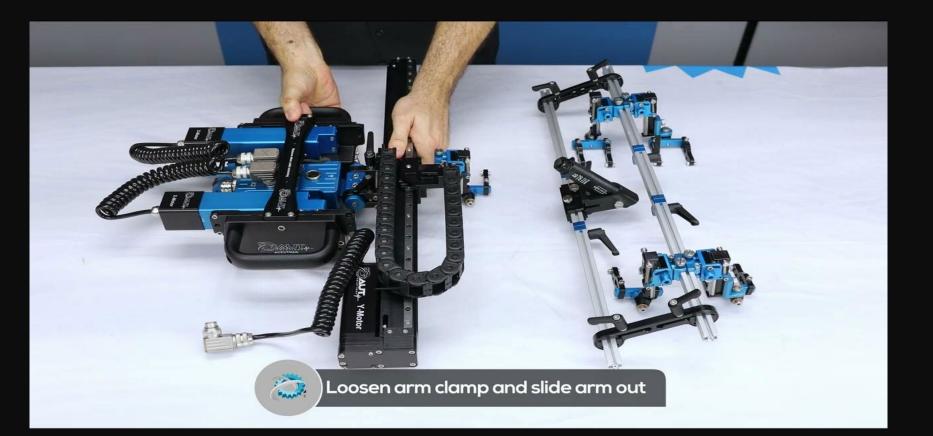


DMENSIONSTRUCK

- Length: B.5"
- Width: 10.5"
- Height: 4.250"
- Weight: 17bs

MOTORCONTROLLER

- Length: 10"
- Width: 8"
- Height: 5.3"





Ranger

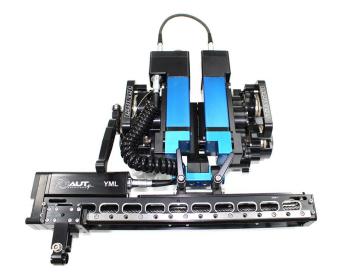
HEATURES:

- We are offering 2 probes and 4 probes version.
- The corrosion mapping setupallows use of 12",20",24", 36" and 48" raster arms
- Midular Field Repairable Spare components
- Lightweight 15lbls
- Practical-Greumferential OD Scans: 2"+Axial OD Scans: 8"+
- Temp-Ganbe used at 300° For higher with duty cycling

INCLU:DES

- QLADAxis Motor Controller
- 20" armwith motor
- 100ft. unbilical
- Probe holder
- Power and comcables
- Tools and spare parts
- Al Windows OS compatible
- Shipping cases

<u>Steerablecompact/trasoniorrosionappingn</u>d <u>weldisspecticyrste</u>m



<u>SPHTS:</u>

• Rapid Scanning - X6"/ sec - ¥=30"/ sec

Bandit

Automated Corrosion Mapping, TOFD and Pha

HEATURES:

- Greunferential Scanningfrom2" (Dto Hat
- Axial Scanning from 6" (D)
- Magnet Quick-release lever
- Extreme durability in harsh environments

<u>SPHDS</u>

- X6"/ second
- Y.30"/ second

PORTABILITY.

• Light Weight: 10.5lbs





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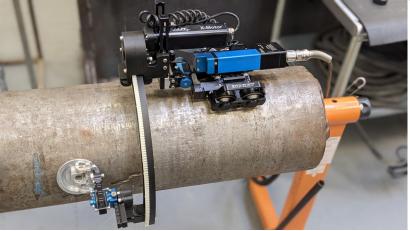


Coming solarSlide Am

<u>FEATU</u>RES

- Lightweight and portable
- 6" Opipes and greater
- Compatible with all AUTS canners
- 360- or 180-degree kits
- Single or Dual Probe Capabilities





Fast, Lightweight , and Modular

AccuScan

HEATCRES:

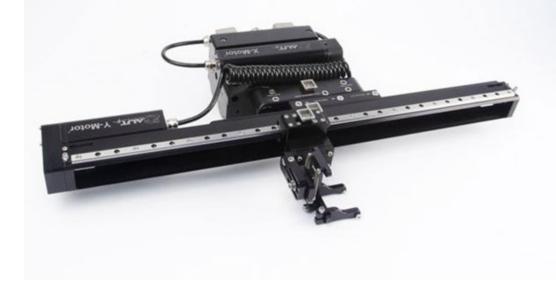
- Lightweight and portable
- 2" Opipes and greater
- Temperature of 300For higher
- Magnetic wheels
- Modular

<u>SPEE</u>DS

- X7^{*}/ second
- Y30"/ second

DIMENSIONS:

- Length: 24"
- Width: 12.5"
- Height: 3"
- Weight: 14lbs



Fast_ightwei&Modulantoma240kiScanner

TermalScan 700

HEATURES

- Lightweight and portable
- 3" Opipes and greater including flat surface
- Operates up to 700F(371O), with integrated cooling
- Modularity- arms and motors can be easily switched

<u>SPEE</u>DS

• Scanupto 30"/ second

NILDES

- 24" catamaranarm
- Air pressure and CFM regulator kit
- 2-axis motor controller
- 100ft unbilical with 15ft high temperature unbilical extension
- Hghtenperature transducers

AutomaSectanricapaloliScanni70g9



Handeld motion control

FEATURES

- Simple Joystick Controls
- Controls motion for Raster and Weld Scanning
- Rugged Auminumhousing
- BatteryPowered—rechargeable
- 4.3" Touch Screen Interface
- Simple motion control setups
- Carrying Strap for controller management
- Magnetic Mount

CompatibitealAUATutomasednners



Manual Scanners

- ORG SCAN
- REVOLVER
- HANDSCAN
- B-Scanner
- WHDSCAN
- NANCECANII
- USCAN
- PROSCANS



CIRC-SCAN

<u>FEATU</u>RES

- Utimate scanning solution for Greunferential inspections will not vary PCS once set and locked in place
- Works seamlesslybetween any pipe material
- Base kit acconmodates 4" to 24" Opipes
- 2 probe holders perfect for TOPDor Phased Array inspection, and our high-resolution waterproof RMEencoder with detachable cable.
- Designed to hold 6 or more probes
- Fits into one small carrying case
- Additional arms available to cover up to 48" Opipe



MultDiameter-Flemous Pipe Weld Scannel

Coming solutionized Grc-Scan



REVOLVER

FEATURES

- Covering pipe size from 0.8"(20.3nm) to 4.5"(114.3nm) upto 6.5" with additional accessories
- Lowprofile height as lowas 0.625' [16mm], such as boiler tube inspection.
- Michined from high grade aluminum
- Available in Single and Dual PAUT configurations
- Option Dual Probe holder kit for simultaneous PALT and ToFD acquisition



Small Bore Pipe Scanner

B Scanner

<u>FEATU</u>RES

- Small and lightweight
- Minual B-scan applications up to 500F*.
- Rugged Auminum constructed
- Scans on **3**° **D**pipe or greater
- Spring Leaded Probe holder adjust to surface contours
- Waterproof encoder with a lifetime warranty.
- Soft contact magnetic wheels
- Hghresolutionencoder(<0.001perinch)

<u>Dimensionsc</u>k

- Lengt553
- Width6'
- Heig:13:13'
- Weight6bs



<u>Smallightweiglandel8can</u>ner

HANDSCAN

<u>FEATU</u>RES

- Single axis encoded scanning.
- Quickandeasysetup
- Easily accommodates wedges up to 56mmwide.
- 5 different encoder positions available, including 2 for transverse scanning
- The encoder wheel is magnetic, for use on ferrous material applications
- Ideal for non-ferrous materials, including carbon fiber and aluminum
- Optional length encoder cables are available 5m, 15m, and 30m



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WHESCAN

<u>FEATU</u>RES

- Compact and lightweight
- Soft-contact magnetic wheels
- Exclusive IP68 waterproof RMEencoder with lifetime warranty
- Smooth scanning with reduced probe chatter
- Vertical linear motion Stage-1Probe Holders
- Standard Kit :
 - 2trucks
 - 1straight crossbar
 - 1hingedcrossbar for axial scanning
 - 4 stage-1 probe holders
- Canholdup to 8 transducers with optional equipment
- Multiple probe positioning options
 - Center, offset, front or side mount positions



Cost Effective Phased Array/TOFD

NANCSCANII

<u>FEATURES</u>

- Milti-configurable scanner
- IP68 waterproof encoder with lifetime warranty
- 5, 15, 30 mcable lengths
- Single or Dual probe setups
- Standard Nozzle inspection setup
- SROWinspection of Tank floor annular ring from the chime area

The NanoScan II can hold many types of conventional/ advanced probes and wedges making this scanner one of the best multi-purpose and economical scanning solution.

Phasedray/TOFD/CoBicanioner

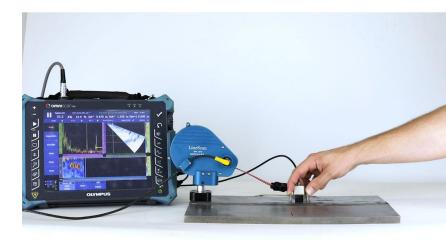




LINESCAN

<u>FEATU</u>RES

- Simple solution to encoding single axis line scans
- Encoder resolution is 0.025mm (0.001") with a draw length of 2030mm(80")
- Ferrous or non-ferrous surfaces using either our magnet or suction cupquick
- RVEencoder which comes with a lifetime warranty
- Built in encoder cable strain relief system
- Stainless steel Posidrive Belt
- Suitable for extreme field conditions
- Compatible with all UTsystems with an Encoder inputs



SimpBinglexibinScanner

USCAN

<u>FEATU</u>RES

- Scanupto 500° F
- Strong contact magnetic wheels
- Quick & easy configuration changes
- Scanpipe welds in the circ. or axial directions
- Adjustable and rotatable fork
- Greumferential or axial scanning
- Accommodate up to 8 transducers at a time

Configuring the scanner is quick and easy. Each truck is modular and can be mounted to the supplied armbars to allow multiple probe scanning from the center, offset, front or side mount positions. The encoder truck can also be configured to a simple B-Scan setup for corrosion inspection

UniverBalasAdray/T&EDrrosBcanner



LASERMAPPINGSYSTEM

<u>FEATU</u>RES

The Laser Mapper makes external corrosion mapping and laser profilometry practical when used in conjunction with our automated scanner systems. The laser beamintensity self adjusts based on variable surface conditions (dull or shiny) to obtain a depth reading without loss of data. Scanning speeds can be achieved at speeds up to 30" per second.

The Laser Mapper system includes a small and lightweight controller box with 12vdc power supply and encoder cable. It also includes the laser sensor which mounts to our existing automated and manual scanning equipment and enits a small laser beamto the surface, then the beam distance is measured and interpolated into a thickness value using the ProScan acquisition and analysis software. The laser depth range is 1°(25mm) of displacement with accuracy within +/-0.002'. Set up is simple, place the laser sensor 1' above the target surface and set the software depth measurement on an un-corroded surface to 0' and then scan away.

- Fast-Scanupto 30"/sec
- Accurate Accuracyto+/-0.002"
- **Compatible** Works with our existing line of scanners
- Affordable-Costs less than 3Dcamera systems
- **Portable**-Fits in one case.

External Corrosion Mapping Scanner (laser profilometry)

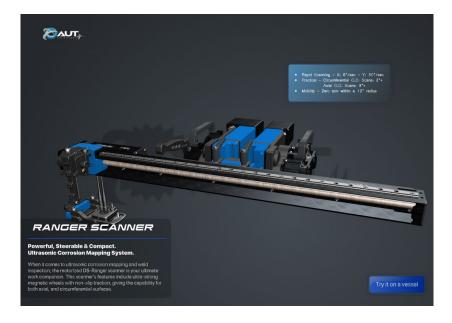


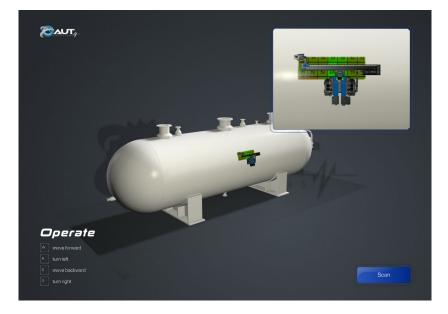
Software Solution's

AUS5 lutions softwares suite offers a full line of products to support your Advanced NDT applications

- <u>ProScan Analysis Software</u> analysis of IDand ODcorrosion data, 3DData modelling, Statistical analysis, Easy Excel Data export, Smoothing, Hde Non-Relevant Indications
- <u>Pipeline Burst Pressure Calculator</u> The PHPCsoftware package is a helpful tool for anyone to add Effective Area, B3 GMbdified pipe burst pressure calculations to their reports. This software works either as a standalone software application where depth or thickness grid information can be imported in from Excel, or can be processed within the ProScan software using UTor Laser data already collected.
- <u>OrniScan Data Conversion Software</u> <u>Analysis software</u>. This feature will allow Orniscan owners to analyze data faster and more effectively utilizing all the tools and features the ProScan software offers.

Partial Release Janua 628s for remote testing and training



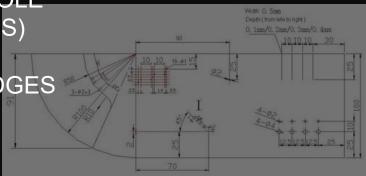


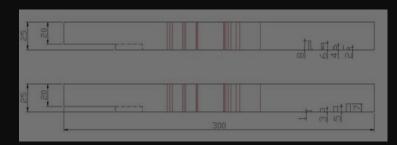
Coming sound models for remote training



Accessories and additional equipment

- AUT AUTOMATED CONTROL CONSOLE
- COUPLANT DELIVERY SYSTEM (CDS)
- PIT AND DENT GAUGE KIT
- PHASED ARRAY PROBES AND WEDGES
- ULTRASONIC TRANSDUCERS
- NDT CALIBRATION BLOCKS
 - API Haw Specimens
 - Piping Calibration Bocks
 - GistomBock Design
- STRAP TRACKKITHOR Non-Ferrous Corrosion mapping
- TRAINING
- GistomSolutions Engineering and Design







PITANDDENIGALGEKIT

Premium Kit

- 1Starrett dial indicator l'[25nm] stroke
- 2 replaceable indicator tips
- 1center gauge holder 9'[228mm]
- 1blindend gauge holder 5' [27mm]
- 4 extension arms 7.5' [190mm]
- 2magnetic extensions 1.625'[4lmm]
- 2standoffs.2'[5.08mm]
- lcustomcarrycase
- Max length 42.25''[1073mm]
- Shipping cas



<u>EconomyKt</u>

- 1Fowler dial indicator l'[25nm] stroke
- 2 replaceable indicator tips
- 1center gauge holder 9' [228mm]
- 1blindend gauge holder 5' [27mm]
- 2 extension arms 7.5" [90mm]
- 2magnetic extensions 1625'[4lmm]
- 2standoffs.2'[5.08mm]
- lcustomcarrycase
- Max length 27.25" [692mm]
- Shipping case





PHASED ARRAY PROBESRAMONO TRADED GESS

PA00 Series Phased Array Probe	10MHz, 16 elements, 0.3 Immpitch, 4.96x5mmaperture, 5mmelevation, Impedance matched to Rexolite, 25 meter cable length, I-Pex (Oniniscan) connector
PAIO Series Phased Array Probe	5MHz, 16 elements, 0.60mmpitch, 9.6x10mmaperture, 10mmelevation, Impedance matched to Rexolite, 25 meter cable length, I-Pex (Oniniscan) connector (Housing size: L:23mmx 16mmx 20mm
	10MHz, 16 elements, 0.60mmpitch, 9.6x10mmaperture, 10mmelevation, Impedance matched to Rexolite, 25 meter cable length, I-Pex(Oniniscan) connector (Husing size: I: 23mmx 16mmx 20mm)
	10MHz, 32 elements, 0.3 Immpitch, 9.9x10nmaperture, 10nmelevation, Inpedance matched to Rexolite, 25 meter cable length, I-Pex (Oniniscan) connector (Husing size: L:23nmx Ionmx 20nm)
PAI2 Series Phased Array Probe	5MHz 64 elements, 0.60mmpitch, 38.4x10mmaperture, 10mmelevation, Impedance matched to Rexolite, 2.5 meter cable length, I-Pex (Oniniscan) connector (Housing size: I: 45mmx 23mmx 20mm)
PA4 Series Phased Array Probe	5MHz 60 elements, 10mmpitch, 60x10mmaperture, 10mmelevation, Impedance matched to Rexolite, 5 meter cable length, I-Rex (Oniniscan) connector (Housing size: L: 68mmx 23mmx 20mm)
PA32Series Phased Array Probe	5MHz 32 elements, Immpitch, 32x10nmaperture, 10nmelevation, Impedance matched to Rexolite, 2.5 meter cable length, I-Pex(Oniniscan) connector (Husing size: L: 40nmx 28nmx 26nm)
	5MHz 64 elements, 0.50mmpitch, 32x10mmaperture, 10mmelevation, Impedance matched to Rexolite, 25 meter cable length, I-Pex (Oniniscan) connector (Husing size: I:40mmx 28mmx 26mm)
PA15 Series Phased Array Probe	5MHz Concave Hevation Focus 35 mmRadius, 16 elements, 0.50 mmpitch, 8x 10 mmaperture, 10 mmelevation, Impedance matched to Rexolite, 25 meter cable length,
	10MHz Concave Hevation Focus 35 mmRadius, 32 elements, 0.25mmpitch, 8x7mmaperture, 7mmelevation, Impedance matched to Rexolite, 2.5 meter cable

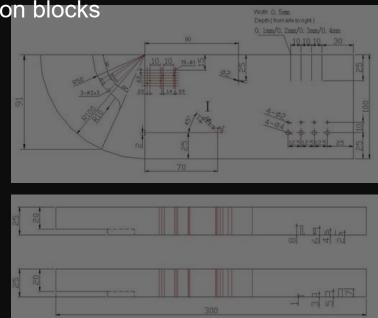
PHASED ARRAY PROBESRAMONOTIRATED GRES

W00 Series Wedge for the PA00 Probe	O degree wedge for the PA00 probe, imigated with carbide wear pins				
	60-degree shear wave wedge for the PA00 probe, inigated with carbide wear pins				
W10 Series Wedge for the PA10 Probe	O degree wedge for the PAIO probe, inigated with carbide wear pins				
	55-degree shearwave wedge for the PAIO probe, imigated with carbide wear pins				
W2Series Wedge for the PAI2 Probe	O degree wedge for the PAI2 probe, imigated with carbide wear pins				
	55-degree shearwave wedge for the PAI2 probe, inigated with carbide wear pins				
W4 Series Wedge for the PA44 Probe	O degree wedge for the PA14 probe, inigated with carbide wear pins				
	55-degree shearwave wedge for the PA4 probe, inigated with carbide wear pins				
W82Series Wedge for the PA32 Probe	O degree wedge for the PA32 probe, imigated with carbide wear pins				
	55-degree shearwave wedge for the PA32 probe, inigated with carbide wear pins				
W00 Series Phased Array Wedge for the PA00 Probe	60-degree shearwave wedge for the PAIS probe, flat				
	60-degree shearwave wedge for the PA15 probe, Axial OD0.84" contour				

NDICALIBRATIONBLOCKS

Full line of advanced ultrasonic calibration blocks designed specifically for corrosion mapping, flaw detection, and technician qualification evaluation:

- Standard UTCalibration Bocks
- AUT and Advanced Calibration Bock
- API Haw Specimens
- Piping Calibration Bocks
- GistomBockDesign

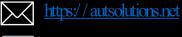




AUTSolutions Facility

	Schedule	Full curses 4 days	2000\$ per person 3720\$/ 2 trainees 5400\$/ 3 trainees 7000\$/ 4 trainees	
	Unscheduled	Full curses 4 days	2000\$ per person 3720\$/2 trainees 5400\$/3 trainees 7000\$/4 trainees	
<u>TRAIN</u> IN	hecheduled	2 days	2750\$ per person 4675\$/ 2 trainees 6785\$/ 3 trainees 7800\$/ 4 trainees	
	Client Facility			
	Schedule	Full curses 4 days	2000\$ per person 3720\$/2 trainees 5400\$/3 trainees 7000\$/4 trainees	
	Unscheduled	Full curses 4 days	2750\$ per person 4675\$/ 2 trainces 6785\$/ 3 trainces 7800\$/ 4 trainces	





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The Leader in Advanced





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