



Introduction

Flexscan portable phased array ultrasonic testing flaw detector is the latest competitive product made by Doppler. It shares reliable quality and capable performance with Phascan.

Smaller size, lighter weight, Hardware upgraded, software improved, more efficiency operation. Flexscan is one of the best solutions for on-site inspection.

Character

- (1) 8.4" Touch Screen
- (2) 16/64, 32/64
- (3) PA + TOFD Combo Scan
- (4) A/B/S/C/TOFD/Offline 3D Variety of Display Mode
- (5) Direct CAD Drawing Import
- (6) TKY Weld Simulation
- (7) Dynamic Corrected Weld Overlay Imaging
- (8) New Offline Analysis Software with More Functionality

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FLEX SCAN

Portable PAUT Flaw Detector



Parameter	ITEM	PA module	Conventional UT
Config.	Receiver / Pulsar	32/64	1/2
	Range	9900μs	9900μs
	Velocity	635~15240m/s	635~15240m/s
	Focal Law	1024	
Pulsar	Test Mode	PE/PC	PE/PC/TT/TOFD
	Voltage	50V/100V/130V	100V/200V/400V
	Pulse Shape	Negative Square Wave	Negative Square Wave
	Pulse Width	30~500ns	30~500ns
	Rise Time	<8ns	<8ns
	PRF	20KHz	20KHz
	Delay	10μs/2.5ns	10μs/2.5ns
	Damping	NA	50Ω/500Ω
	Receiver	Gain	0~80dB
Bandwidth		0.5~15MHz	0.5~15MHz
Input Impedance		500Ω	500Ω
Input Capacitance		60pF	60pF
Delay		10μs/2.5ns	10μs/2.5ns
Scan/Display	Type	Linear/Sectorial	NA
	Display Mode	A/B/C/S	A/B/TOFD
DAC	Unit	mm/inch	mm/inch
	Points	16	

Parameter	ITEM	PA module	Conventional UT
TCG	Points	16	
	Points	40dB	
	Max Gain Slope	40dB/μs	
Gate	Gates	A/B/I	
	Threshold	0~98%	
	Trig Mode	Peak / Edge	
Report		HTML	
Data Storage	Storage Devices	USB Devices / SD Card	
Display Screen Size		8.4 inch	
	Resolution	800*600 pixel	
	Type	TFT LCD Touch Screen	
I/O Port	USB	2	
	Internet	10/100M	
	Video Output	DVI-D	
	Encoder	Applicable	
	Language		English / Chinese
Power Supply	Power Supply	15V DC 4A	
	Battery	Lithium Ion Battery	
	Charging	Operatable While Charging	
	Battery Life	3.5h	
Housing	Dimensions	296mm*209mm*89mm	
	Weight	3.5Kg (with battery)	

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Wheel PA Probe



Introduction

Doppler Wheel PA Probe

Tire Parameters:

OD: 70mm/90mm;

Thickness: 8 to 15mm (8mm:5MHz; 15mm:0.5MHz);

Length: 70mm/120mm;

Acoustic Impedance: 1.5MRayl;

Material Attenuation: 0.14dB/mm/MHz.

Character

Composite material inspection;

Pipeline corrosion inspection.

Laterally Focused Array



Introduction

Laterally Focused Array

Character

- (1) Tiny Outlines.
- (2) Sel-Focusing Elements.
- (3) Wedge suitable for $\Phi 20$ - $\Phi 115$ mm Pipes.
- (4) Suitable for Automatic Scanning Systems.

Function

- (1) Small diameter pipes inspection.
- (2) Thin pipe or plate welds inspection.
- (3) Friction stir welds inspection.
- (4) Limited space workpiece inspection.

Type	Frequency(MHz)	Elements	Pitch(mm)	Active aperture(mm)	Elevation(mm)	Casing dimensions						Case type
						Long (L)		Width (W)		Height (H)		
						mm	in	mm	in	mm	in	
5L128-0.8*12	5	16	0.5	8	10	25	0.98	22	0.87	10	0.39	D10
7.5S16-0.5*10	7.5	16	0.5	8	10	25	0.98	22	0.87	10	0.39	
10S16-0.5*10	10	16	0.5	8	10	25	0.98	22	0.87	10	0.39	
10S16-0.3*10	10	16	0.3	4.8	10	25	0.98	22	0.87	10	0.39	

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Linear X-LARGE



Introduction

Linear IMMERSION

Character

- (1) Large active aperture for high acoustic energy.
- (2) Wave layers with acoustic adaptation to Rexolite.
- (3) Cable connector can come out from either the side or the top.

Function

- (1) Used for C-scan inspections of composites (delamination, disbonding, and porosity).
- (2) Adapted for inspection of thick stainless steel specimens.

Type	Frequency(MHz)	Elements	Pitch(mm)	Active aperture(mm)	Elevation(mm)	Long (L)		Casing dimensions		Height (H)		Case type
						mm	in	mm	in	mm	in	
5L128-0.8*12	5	128	0.8	102.4	12	106	4.17	17	0.16	32	1.26	B39
5L128-0.8*11	5	128	0.8	102.4	10	120	4.72	16	0.63	30	1.18	B60

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Concave



Introduction

Concave

R1/5/7/8

R9

Character

- (1) Acoustic impedance matches water.
- (2) High circumferential resolution around the radius.
- (3) Corrosion-resistant stainless steel case.
- (4) Waterproof guaranteed up to 1 m underwater.
- (5) Compatible with adjustable immersion wedges.

Function

- (1) Inspection of carbon fiber reinforced polymers (CFRP) corners.
- (2) Composite inspection for delamination.

Type	Frequency(MHz)	Elements	Pitch X(mm)	Pitch Y(mm)	Active aperture(mm)	Active aperture(mm)	Casing dimensions						
							Long (L) mm	in	Width (W) mm	in	Height (H) mm	in	Case type
3.5C128- 0.625*13- R32	3.5	128	0.625	R32	80	13	111	4.37	19	0.75	56	2.2	R8
3.5C96- 0.6*12- R22.9	3.5	96	0.6	R22.9	57.6	12	95.1	3.74	19	0.75	52	2.05	R7
4C64- 1.0*10- R50	4	64	1	R50	64	10	124	4.88	18	0.71	60	2.36	R1
10C64- 1.0*10- R29	10	64	1	R29	64	10	106	4.17	18	0.71	47	1.85	R5

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Matrix 2D/1.5D



Introduction

Matrix 2D/1.5D

Character

- (1) Matrix or 2D array transducers allow 3D beam focusing and scanning, thus opening up new possibilities.
- (2) Control of the focal zone diameter in 3D, cylindrical beam.
- (3) Inspection of volumes from limited points of access.
- (4) Detection of defects that may have multiple, un-predetermined orientations.

Function

- (1) Weld inspection
- (2) Inspection of parts with complex geometry
- (3) General NDT

Type	Frequency(MHz)	Elements	Pitch- X(mm)	Pitch- Y(mm)	Active aperture- X(mm)	Active aperture- Y(mm)	Long (L)		Casing Dimensions Width (W)		Height (H)		Case type
							mm	in	mm	in	mm	in	
5M8*8- 1.0*1.0	5	64	1	1	8	8	35	1.38	19	0.75	45	1.77	B15
10M4*4- 2.0*2.0	10	16	2	2	8	8	35	1.38	19	0.75	45	1.77	
5M8*8- 1.5*1.5	5	64	1.5	1.5	12	12	34	1.34	20	0.79	47	1.85	B19
5M16*16- 1.0*1.0	5	256	1	1	16	16	40	1.57	27	1.06	55	2.17	B16
15M8*8- 1.25*1.25	15	52	1.25	1.25	10	10	25	0.98	22	0.87	30	1.18	D21

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Introduction

Variable Angle

Character

- (1) Probe and wedge in the same housing.
- (2) The lowest profile probe and wedge combination for contact angle beam inspection.
- (3) Coupling always good between probe and wedge interfaces, no need for couplant between the probe and wedge.
- (4) Very small assembly for easy access in restricted areas.
- (5) Inspections of 30° to 70° in steel, SW or LW.
- (6) Probes with an internal wedge can be specially ordered to fit a specific curvature radius.

Function

- (1) Manual weld inspection of 6.35 mm to 19 mm thick surfaces (butt joints, corner joints, tee joints), using 40° to 70° simultaneously.
- (2) Manual inspection of stress-corrosion cracking.
- (3) AWS and DGS code compliant applications.

Type	Frequency (MHz)	Elements	Pitch X(mm)	Pitch Y(°)	Active aperture(mm)	Active aperture(mm)	Casing dimensions				Case type		
							Long (L) mm	in	Width (W) mm	in		Height (H) mm	in
4L16- 0.5*9- A37.5	4	16	0.5	37.5	8	9	27	1.06	16.5	0.65	22	0.87	A37.5
5L12- 0.5*6- A36(side)	5	12	0.5	36	6	6	25	0.98	13	0.51	9.7	0.38	A36(side)
5L12- 0.5*6- A36(top)	5	12	0.5	36	6	6	18	0.71	13	0.51	19.7	0.78	A36(top)
5L12- 0.5*6-	5	12	0.5	40	6	6	25	0.98	15	0.59	9	0.35	A40

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Linear MEDIUM

Introduction

Linear MEDIUM

Character

- (1) Wave layers with acoustic matching to Rexolite.
- (2) Captive anchoring screws are provided with the probe.
- (3) A wide selection of wedges is available to suit any angle beam application.



Function

- (1) Manual or automated inspection of 6.35 mm to 38 mm thick welds.
- (2) Detection of flaws and sizing.
- (3) Inspections of castings, forgings, pipes, tubes, and machined and structural.
- (4) components for cracks and welding defects.

Type	Frequency MHz	Elements	Pitch mm	Active Aperture mm	Elevation mm	Long (L)		Casing dimensions		Height (H)		Case type
						mm	in	Width (W)		mm	in	
5L8-1.0*9	5	8	1	8	9	15	0.59	27	1.06	22	0.87	
5L16-0.6*10	5	16	0.6	9.6	10	15	0.59	27	1.06	22	0.87	D1
7.5L16-0.5*10	7.5	16	0.5	8	10	15	0.59	27	1.06	22	0.87	
2.5L32-0.5*10	2.5	32	0.5	16	10	21	0.83	28	1.1	22	0.87	
5L32-0.5*10	5	32	0.5	16	10	21	0.83	28	1.1	22	0.87	D2
7.5L32-0.5*10	7.5	32	0.5	16	10	21	0.83	28	1.1	22	0.87	
2.5L16-1.0*10	2.5	16	1	16	10	21	0.83	33.5	1.32	38.5	1.52	
4L32-0.5*10	4	32	0.5	16	10	21	0.83	33.5	1.32	38.5	1.52	B10
7.5L32-0.5*10	7.5	32	0.5	16	10	21	0.83	33.5	1.32	38.5	1.52	
10L16-1.0*10	10	16	1	16	10	21	0.83	33.5	1.32	38.5	1.52	
5L16-0.6*10	5	16	0.6	9.6	10	16	0.63	23	0.91	20	0.79	
7.5L16-0.6*10	7.5	16	0.6	9.6	10	16	0.63	23	0.91	20	0.79	B56
10L32-0.3*7	10	32	0.3	9.6	7	16	0.63	23	0.91	20	0.79	

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Linear SMALL



Introduction

Linear SMALL

Character

- (1) Small casing.
- (2) Good choice for thin welded parts.
- (3) Wave layers with acoustic matching to Rexolite.

Function

- (1) Surfaces with complex geometry where good coupling is not possible.
- (2) Inspection of turbines, blade roots and fine welds.

Type	Frequency MHz	Elements	Pitch mm	Active Aperture mm	Elevation mm	Long (L)		Casing dimensions		Height (H)		Case type
						mm	in	Width (W)		mm	in	
5L10-0.6*6	5	10	0.6	6	6	13	0.51	10	0.39	23	0.91	B54
10L10-0.6*5	10	10	0.6	6	5	13	0.51	10	0.39	23	0.91	
5L8-0.5*5	5	8	0.5	4	5	12	0.47	20.5	0.81	18	0.71	B20
7.5L8-0.5*5	7.5	8	0.5	4	5	12	0.47	20.5	0.81	18	0.71	
10L16-0.31*5	10	16	0.31	4.96	5	12	0.47	20.5	0.81	18	0.71	B55
5L16-0.31*5	5	16	0.31	4.96	5	11.5	0.45	11.5	0.45	23	0.91	
10L16-0.31*5	10	16	0.31	4.96	5	11.5	0.45	11.5	0.45	23	0.91	

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Introduction

Linear LARGE

Character

- (1) Large active aperture for coarse grain materials.
- (2) Wave layers with acoustic matching to Rexolite.

Function

- (1) Inspection of girth welds with automatic inspection system.
- (2) Manual or automated inspection of thick welds.
- (3) Adapted for inspection of thick stainless steel specimens.
- (4) Detection of flaws and sizing.
- (5) Inspection of castings, forgings, pipes, tubes, and machined and structural components for cracks and welding defects.



Linear LARGE

Type	Frequency MHz	Elements	Pitch mm	Active Aperture mm	Elevation mm	Casing dimensions						
						Long (L)		Width (W)		Height (H)		Case type
						mm	in	mm	in	mm	in	
2.25L64-0.6*10	2.25	64	0.6	38.4	10	45	1.77	28	1.1	28	1.1	
5L64-0.6*10	5	64	0.6	38.4	10	45	1.77	28	1.1	28	1.1	D3
10L64-0.6*7	10	64	0.6	38.4	7	45	1.77	28	1.1	28	1.1	
2.25L32-1.0*20	2.25	32	1	32	20	36	1.42	36	1.42	28	1.1	
2.25L32-0.8*22	2.25	32	0.8	25.6	22	36	1.42	36	1.42	28	1.1	D6
5L128-0.75*10	5	128	0.75	96	10	102	4.02	28	1.1	30	1.18	D7
2.25L64-0.75*10	2.25	64	0.75	48	10	57	2.24	29	1.14	35	1.38	
5L64-0.8*10	5	64	0.8	51.2	10	57	2.24	29	1.14	35	1.38	B6
5L64-0.6*10	5	64	0.6	38.4	10	44	1.73	28	1.1	34	1.34	B7
7.5L60-1.0*10	7.5	60	1	60	10	68	2.68	26.8	1.06	40	1.57	B23
5L64-1.0*10	5	64	1	64	10	84	3.31	35.5	1.4	32	1.26	B26
5L32-0.8*12	5	32	0.8	25.6	12	33	1.3	29	1.14	30	1.18	B40
5L64-0.6*10	5	64	0.6	38.4	10	45	1.77	23	0.91	20	0.79	
10L64-0.6*7	10	64	0.6	38.4	7	45	1.77	23	0.91	20	0.79	B57

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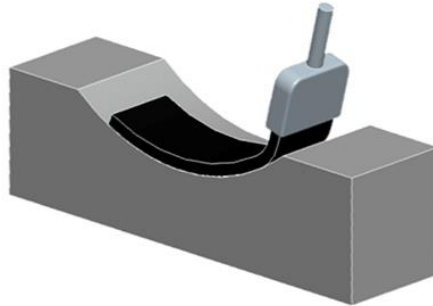
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Flexible PA Probe



Introduction

Flexible PA Probe

Can be bent with the surface shape of workpiece, curvature variable;
With thickness of 3.0mm, the probe can be used for narrow space inspection.

Character

Can be bent with the surface shape of workpiece, curvature variable;
With thickness of 3.0mm, the probe can be used for narrow space inspection.

Function

For workpiece with complex surface inspection;
Online detection.

Model	Frequency MHz	Elements	Pitch mm	Active Aperture mm	Elevation mm	Casing Dimensions			Case Type
						Long(L) mm	Width(W) mm	Height(H) mm	
5S32- 0.5*10	5	32	0.5	16	10	86	35	3	S1
7.5S64- 0.5*10	7.5	64	0.5	32	10	86	35	3	S1

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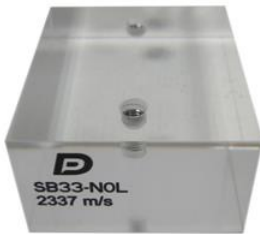
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SB33-N0L Phased Array
Probe Wedge



SB33-N55S Phased Array
Probe Wedge

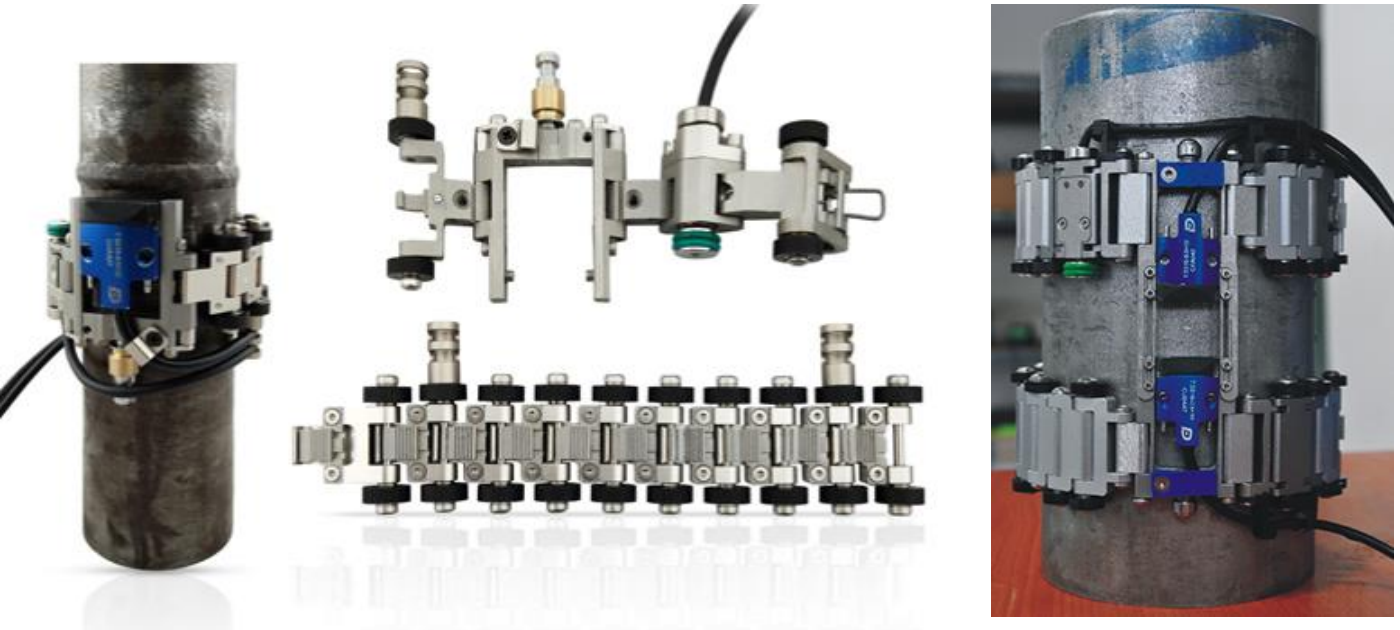


SB36-N0L Phased Array
Probe Wedge



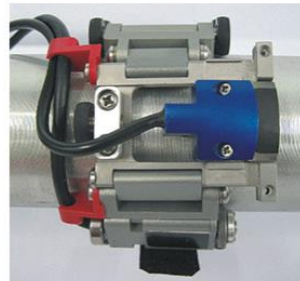
SB36-N55S Phased Array
Probe Wedge





Introduction

Doppler CRS-1/CRS-2 type Bracelet Scanner is suitable for pipe butt welds inspection with diameter between 0.8" (20mm) to 4.5" (114.3mm) Pipes by axial direction. Single, and Dual Chains are available for different inspection needs.



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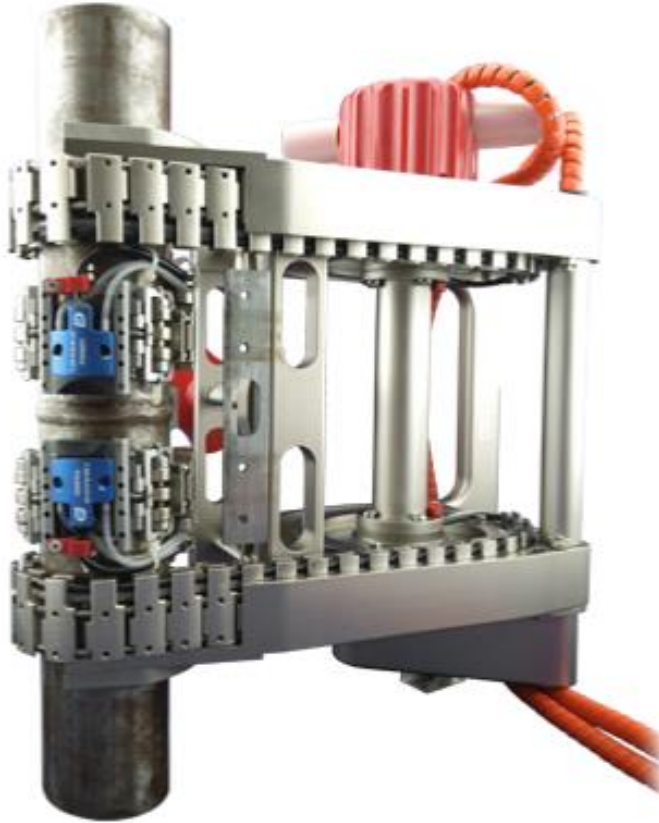
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ISO 9001
LL-C (Certification)
N. 393541





Introduction

Can perform rapid detection on small diameter pipe weld both sides

Easy to assemble and use

Suitable for pipe butt welds inspection with diameter between 46mm to 78mm

Other specifications can be customized

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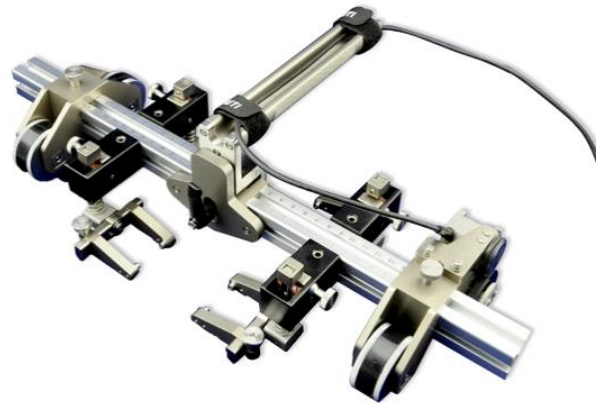
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ISO 9001
LL-C (Certification)
N. 393541





Introduction

Doppler FC-01 type PA+TOFD scanner is suitable for pipe butt weld inspection with diameter over 6" (150mm) by circumferential direction, and flat butt weld inspection. Combine with four probe clamps & one wheel type encoder. Free collocation of PA probes & TOFD probes by inspection needs.

Range: Ring: $\Phi 6''$ (150mm) ~ Flat
Dimensions: 426x110x125mm
Encoder Step: 48Pulses/mm
IP Level: IP67
Operating Temperature: $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$

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Introduction

PA/TOFD (FC02) Scanner support curvature adjustment, applicable to detection for pipe and plate in direction of circumferential and axial. Pressure regulator ensures wedge closely attach to work piece for an effective detection. By equipped with reliable brake device, the scanner can firmly stay at any position. By simple operation, most of scanning functions can be achieved manually. Scanner can be assembled with 4 probes according to detection requirement (PA / UT), convenient assembly and disassembly.

Character

Features

1. Assembly of 4 probes, probe clamping arms can be disassembled unilateral manually;
2. Two horizontal bars can be folded to adjust curvature, manual adjustment can realize detection from 7 inch pipe to plate in direction of axial ;
3. Two horizontal bars can be rotated, manually adjust a pair of probe clamping arms can realize detection from 6 inch pipe to plate in direction of circumference;
4. Both sides have a brake device, scanner can stay at any position;
5. Inner water distribution device , save more space ;
6. Space of walking wheel adjustable, freely work on short work piece;
7. Clamp wedge for different size, strong adaptability.

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FC-02 PA-TOFD Scanner

Function

Features

1. Assembly of 4 probes, probe clamping arms can be disassembled unilateral manually;
2. Two horizontal bars can be folded to adjust curvature, manual adjustment can realize detection from 7 inch pipe to plate in direction of axial ;
3. Two horizontal bars can be rotated, manually adjust a pair of probe clamping arms can realize detection from 6 inch pipe to plate in direction of circumference;
4. Both sides have a brake device, scanner can stay at any position;
5. Inner water distribution device , save more space ;
6. Space of walking wheel adjustable, freely work on short work piece;
7. Clamp wedge for different size, strong adaptability.

Parameter

1. Range: Ring : $\phi 6''(150\text{mm})\sim\text{Flat}$
Radial : $\phi 17''(425\text{mm})\sim\text{Flat}$
2. Dimensions: 446*182*128mm
3. Encoder Step: 48Pulses/mm
4. IP Level: IP67
5. Operating Temperature: $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$
6. Clamp Width of Wedge: 32~48mm

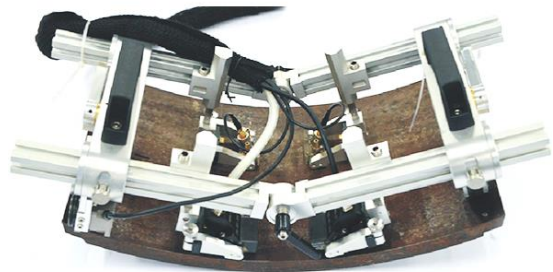
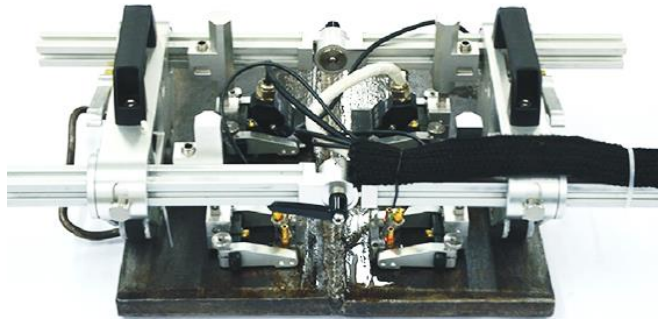
Performance

Parameter

1. Range: Ring : $\phi 6''(150\text{mm})\sim\text{Flat}$
Radial : $\phi 17''(425\text{mm})\sim\text{Flat}$
2. Dimensions: 446*182*128mm
3. Encoder Step: 48Pulses/mm
4. IP Level: IP67
5. Operating Temperature: $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$
6. Clamp Width of Wedge: 32~48mm

Standard Kits

1. Two brackets (including angle adjusting block, handle and brake device);
2. Two foldable horizontal bars with total length of 446mm;
3. One encoder with 2.8m cable;
4. Four probe clamping arms;
5. One water distribution device;
6. Carrying case and other accessories.



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ISO 9001
LL-C (Certification)
N. 393541



MOS-01 Mouse Type Girth Weld Scanner



Introduction

Doppler MOS-01 Mouse Type Scanner is designed for recordable inspection of circumferential above $\phi 100\text{mm}$ Pipe Girth Welds and Plate Butt Welds by using Phased Array Probe..

Character

Features

Using Mouse Type Ergonomic Design, Smart and Comfort to Operate.

Conceal Design of Encoder, more beneficial to prevent data loss of encoder track-slipping, and extend the lifetime of encoder.

MOS-01 includes 4 strong magnetic wheels, combines pressure springs to make sure tightly closefit between Phased Array probe and workpiece surface, and make sure sufficient coupling effects.

The probe clamping is 90° direction adjustable, to perform lateral scanning and vertical scanning..

Performance

Scope of Application: Circumferential above $\phi 100\text{mm}$ Pipe Girth Welds and Plate Butt Welds

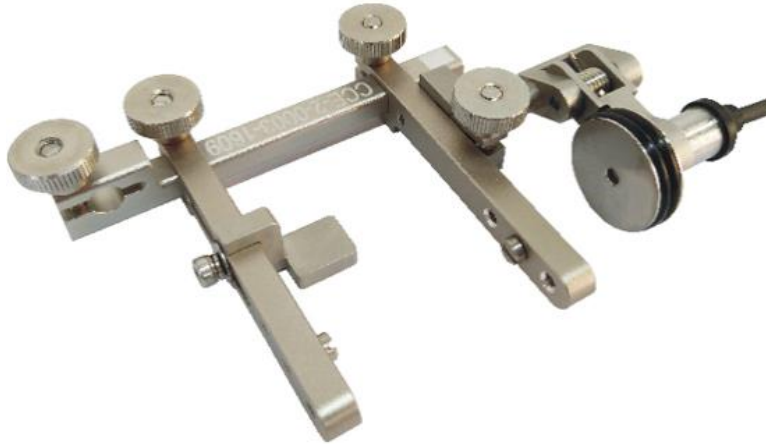
Scanner Size: $136*81.5*43\text{mm}$

Encoder Step: 38 Pulses/mm

Ingress Protection Rating: Ip67

Wedge Clamping Width: $32\sim 48\text{mm}$

CCE-2 Single Probe Mini Scanner



Introduction

Doppler CCE-2 Single Probe Type Mini Scanner is designed for recordable inspection of Pipe & Plate Welds by using a Single Phased Array Probe.

Character

Features

Compact Structure, Flexible & Easy Operation, and the probe clamping is 90 ° direction adjustable, to perform lateral scanning and vertical scanning.

Performance

Scope of Application:

Circumferential Direction: From ϕ 110mm to Plate Butt Welds

Longitudinal Direction: From ϕ 180mm to Plate Butt Welds

Scanner Size: 94*90*20mm

Encoder Step: 38 Pulses/mm

Ingress Protection Rating: Ip67

Wedge Clamping Width: 32~48mm

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MINI Scanner:DSC-02



Introduction

Application & Dimension

For Inspection of Large Pipes, Plates Base Material, Corrosion Inspection, with Magnetic Wheels.

Can be fitted with 5L64-D3 Probe plus 0° wedge.

Dimension : 138.0*97.0*85.0mm

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GECKO Automated Crawler Scanner

Functional Characteristics

- Phone WIFI + wired remote controller
- 360°real time monitoring camera
- Support all orientation movements, with cruise control
- Multi-probe clamp modes, welds compatible
- Base material & corrosion inspections
- Battery working up to 5 hours on-site

Application Filed

- Tanks, big vessel
- Plate butt welds
- Base metal inspection

Spec of Crawler Scanner

- Real time acquisition of working environment image, resolution 640*480
- Camera steering can be controlled
 - Angle range in vertical direction: 20°~55°
 - Angle range in horizontal direction: 20°~140°
- Displacement reciprocating precision error \leq ±1mm
- Speed accuracy error $<$ 5%
- Static load force / motion $>$ 360N
- Remote distance $>$ 40m(unobstructed)
- Minimum tank diameter $>$ 5m
- Minimum tank thickness $>$ 15mm
- Speed range 23.14mm/s-129.37mm/s
- Motion control mode of scan vehicle for central processor software :
 - Free motion model;
 - Movement mode of shifting;
 - Velocity differential motion mode;
- Support video and movie playback;
- Mobile terminal remote control software.



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