

Phased Array Probes and MXU Software for DGS

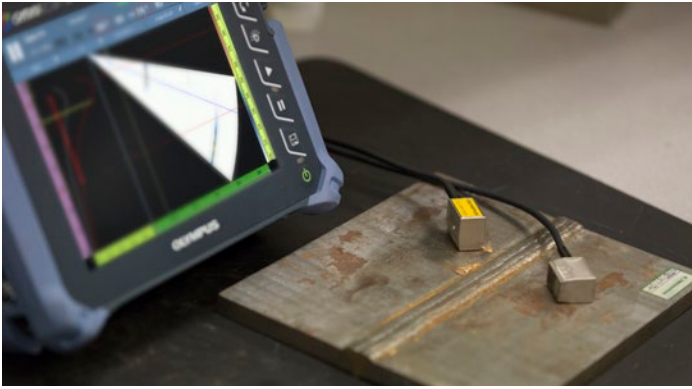
Quick, Easy Setup and Calibration: DGS and Atlas Series Probes



MXU software version 4.4 incorporates the distance gain sizing (DGS) method to streamline your inspections when using an OmniScan® MX2 or SX flaw detector.

The DGS1 series and A24 Atlas series probes were created to support the DGS functionality in MXU v. 4.4 software. Both probe series can be used in a range of applications, such as the inspection of welds (including welds with limited access), bridge pins and bolts, and stress corrosion cracking.

When using these probes, the software can be set up to perform DGS code compliant inspections in just a few simple steps.



DGS1 Series Probe Features

- Inspect thick surfaces: manual weld inspection of surfaces 6.35 to 19 mm (0.25 in. to 0.75 in.) thick, including butt joints, corner joints, and tee joints, using a 40° to 70° shear wave sectorial scan.
- Cover a range of thicknesses: available in 2.0 and 4.0 MHz versions.
- Work in tight spaces: low-profile probe-and-wedge combination for contact angle beam inspection.
- Familiar case style: standard AMR case with phased array technology.
- Inspect: welds, stress corrosion cracking (SCC), and solid and hollow heavy steel forgings.

A24 Atlas Series Probe Features

- Contact probe: manual contact inspection to help eliminate wedge echoes.
- Long use-life: replaceable, clear wear face extends the life of the probe.
- Cover a range of thicknesses: available in 2.0 and 4.0 MHz versions.
- Familiar case style: standard Atlas series case with phased array technology.
- Increased productivity: sectorial scans improve coverage
- Inspect: bridge pins and bolts and forgings.

Omniscan Software Features

Omniscan Software

- Easy archiving: store full high-resolution A-scans.
- High image and signal quality: A-scan, S-scan, and C-scan.
- Customize: application-based, customizable readings.
- Work offline: analyze data on your flaw detector or computer using OmniPC™ software.

DGS Calibration—Streamline Your Inspections

- DGS curves for every focal law.
- See indications more easily with S-scan correction.
- One reflector, full calibration range.

Ordering Information

Part Number	Item Number	Frequency (MHz)	Number of Elements	Pitch (mm)	Active Aperture (mm)	Elevation (mm)	Cable Length (m)	Nominal Refracted Beam Angle in Steel
2L8-8X9-DGS1-P-2.5-OM	U8330598	2.0	8	1.0	8	9	2.5	58° shear wave
4L16-8X9-DGS1-P-2.5-OM	U8330597	4.0	16	0.5	8	9	2.5	58° shear wave
2L16-16X16-A24-P-2.5-OM	Q3300915	2.0	16	1.0	16	16	2.5	0° longitudinal wave
4L16-16X16-A24-P-2.5-OM	Q3300916	4.0	16	1.0	16	16	2.5	0° longitudinal wave

Accessories

Part Number	Item Number	Description
WEAR-FACE-FOR-A24-CASE-STYLE-CLR-0.020	Q3300931	Wear face for A24 case type, 0.020 in. thick, package of 12 clear urethane discs
MRN-24	U8770389	Protective membrane retaining ring

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