

ULTRA-PRECISE 3D LASER PROFILOMETRY: THE **3DS**-SHAPER SERIES



3DShaper 380

MINIMUM DETECTABLE DEFECT

Axis	Parameter	Min Detectable
X (length)	Sampling rate + speed	0.15 mm
Y (width)	Points per profile	0.056–0.075 mm
Z (depth)	Sensor accuracy	0.10 mm

SENSOR SPECIFICATIONS

Specification	Value
Repeatability	10 μm
Linearity	$\pm 0.035\%$ of F.S. (full range)
Profile Data Interval	75 μm (default, settable to 50 μ m)
Profile Data Count	3,200 points
Temperature drift	0.0315 mm/°C
Overall accuracy (worst range) No better than ± 0.100 mm	

Note: Overall accuracy combines repeatability, linearity, and temperature change. Applying the standard "real world" compensation of **10x sensor repeatability (10X factor)**, the best accuracy for the 380s (worst range) is **± 0.100 mm**.

MODELS FOR SHAPE & WELD

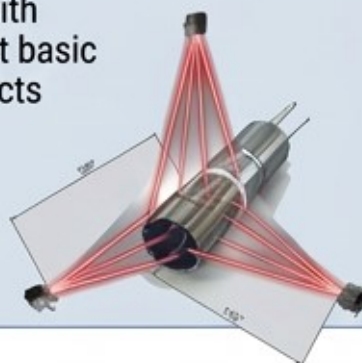
- 3DShaper 980-3
- 3DShaper 380-4
- 3DShaper 380-5
- 3DShaper 380.4-245.1



VERSATILITY & PRECISION

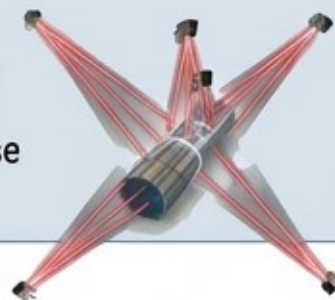
The **3DShaper-980-3** with **static heads** is the most basic approach to long products 360° profilometry.

Entry Level



The **3DShaper-380-4** with **static heads** is to the average option, capable of an accuracy of 100 microns.

The **3DShaper-380-5** with **static heads** and the **3DShaper-380-4 / 245.1** suitable for a more precise weld detection.



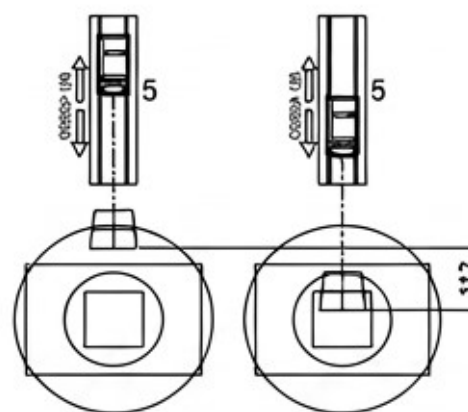
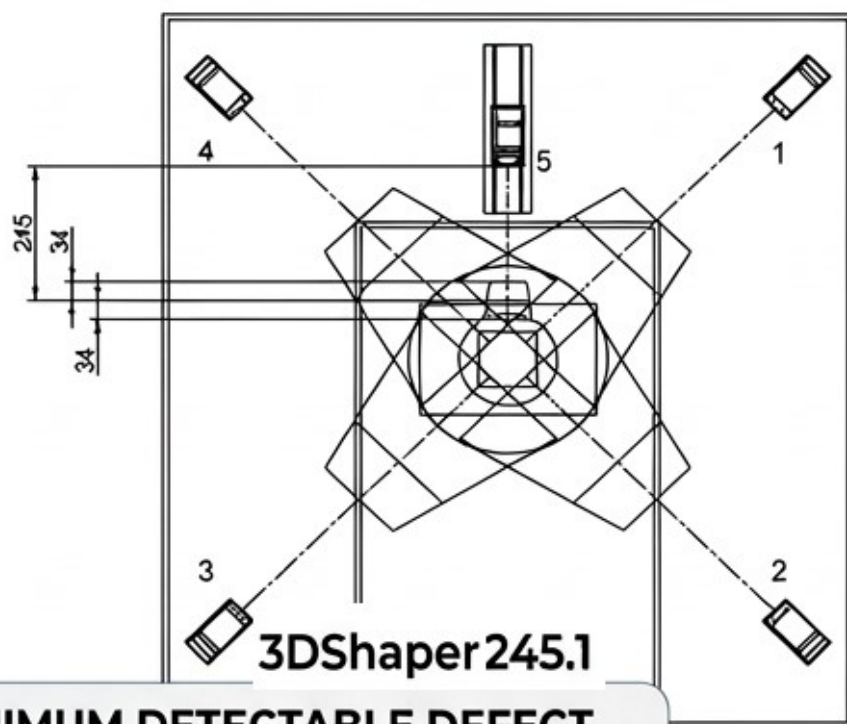
Request a Quote

sales@lgeweb.com

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THE 3DS-245



**Ideal for weld
area inspection**

MINIMUM DETECTABLE DEFECT

Axis	Parameter	Min Detectable
X (length)	Sampling rate + speed	0.15 mm
Y (width)	Points per profile	0.056 mm
Z (depth)	Sensor accuracy	0.05 mm

SENSOR SPECIFICATIONS

Specification	Value
Repeatability	1 μm
Linearity	$\pm 0.035\%$ of F.S. (full range)
Profile Data Interval	75 μm (default, settable to 50 μ m)
Profile Data Count	3,200 points
Temperature drift	0.0315 mm/$^{\circ}$C
Overall accuracy (worst range) No better than ± 0.100 mm	

LASER SENSOR

3DS-245

Model: 3DS-245
 Reference distance : 245 mm
 Measurement range : ± 60 mm
 Measurement range Z-axis (height): ± 34 mm (F.S.=68 mm)
 NEAR side : 64 mm
 Reference distance (Z-axis): 72 mm
 FAR side : 80 mm

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