ShapeGrabber Ai620

Precision Automated
3D Laser Scanner

- Complete, fast turnkey measurement and inspection solution

- Precision, non-contact laser scanning

- Automated surface inspection in minutes

- Full 3D quality control including GD&T reports

- Indexed scans are positioned accurately without targets or secondary software alignments

- Scans parts in a wide variety of materials, colors, and finishes

- Quickly creates digital inspection reports

- Ideal for castings, plastics and 3D printed parts or parts with complex shapes

- Optional 25° tilt mechanism provides an automated alternative look angle for complete coverage
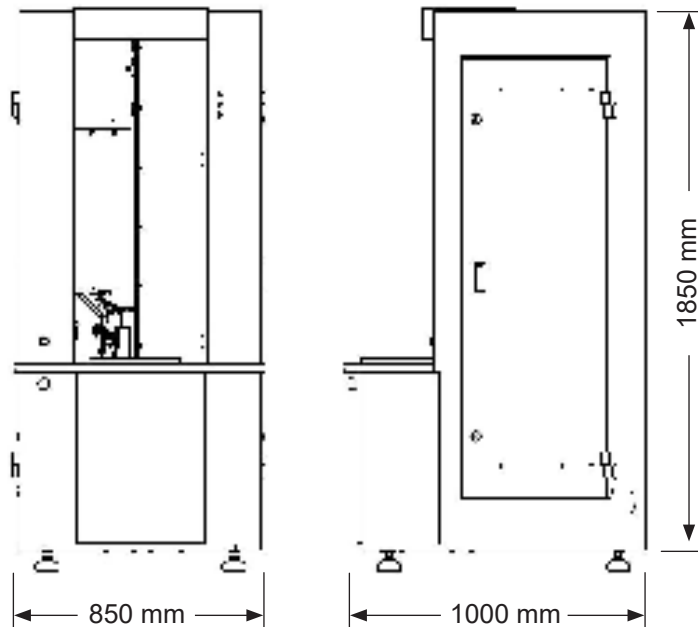
ShapeGrabber Ai620

A leader in measurements for parts with complex shapes

1850 mm

850 mm

1000 mm

Machine Weight: 350 kg
Crated Weight: 450 kg

Specifications			
Ai620 3D scanner		**sg198 scanhead**	
Overall dimensions (mm)	1000 x 850 x 1850	Laser safety	IEC Class 2M
System weight (kg)	350	Wavelength (nm)	405
Vertical scan motion (mm)	600	Field of view near (mm)	90
Vertical scale resolution (µm)	0.1	Field of view far (mm)	170
Rotary table motion (deg)	360	Mid field point of spacing, (µm)	50
Rotary table positional accuracy (arc sec)	± 5	Z resolution (µm)	2
Optional laser tilt	25°	Standoff (mm)	110
Work load (kg)	80	Depth of field (mm)	185
Electrical	100-120 VAC or 200-240 VAC, 50 / 60 Hz, 1 phase, 150 W	Data rate at full DOF (pts/s)	155,000
OS	Windows® 10	Maximum data rate (pts/s)	> 1,500,000
Controller	Windows based with up-to-date processor and networking/ communication ports	Operating relative humidity	20% - 80% non-condensing
Software	ShapeGrabber SGCentral (standard) • SGCapture (optional) • PolyWorks (optional) • Geomagic (optional)		
Ai620 3D scanner with sg198 scanhead			
Max scan volume (mm)	600 L x 185 Ø		
Accuracy (ISO 10360)	15 + L/200 µm		
Temperature reference (°C)	20 ±1		

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