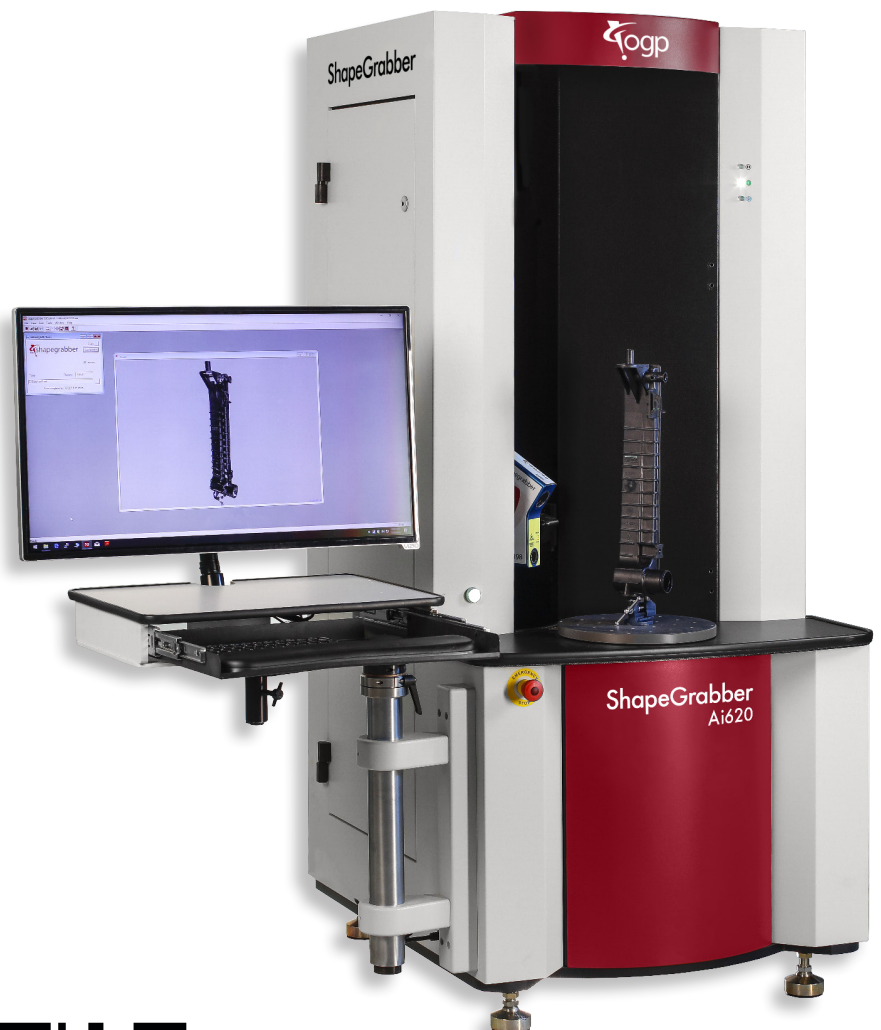


ShapeGrabber® Ai620

Shapegrabber Ai620 is a floor model 3D scanner designed to serve a wide variety of parts in minutes with a high density of data points. A granite base support for the rotary provides a rigid base and isolates vibration. The Ai620 offers:

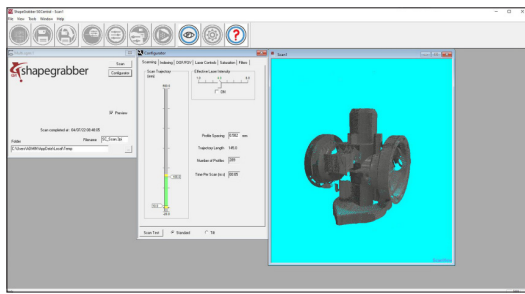
- **Metrology Grade 3D Scanning –** Ideal for measuring complex shapes in a variety of colors, and finishes. Excels in rapid prototyping, manufacturing, quality control, and reverse engineering applications.
- **Ease of Use –** Scans can be initiated with one click, delivering consistent measurement results by any operator. Scanning parameters are easily selected and saved – there is no need to write special code.
- **Accurate, High Density Point Data –** The SG198 scanhead moves vertically on a high precision motion assembly and can obtain more than 1,500,000 points per second.

Floor Model System for Fully Automated, Accurate, and Easy 3D Scanning



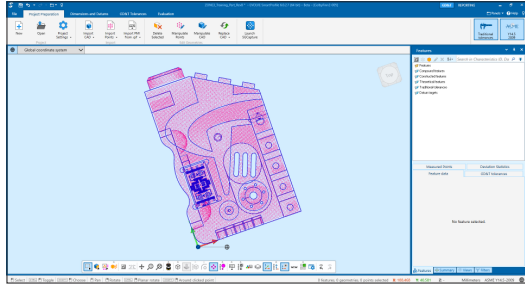
Shown with optional computer workstation swing stand.

SGCentral



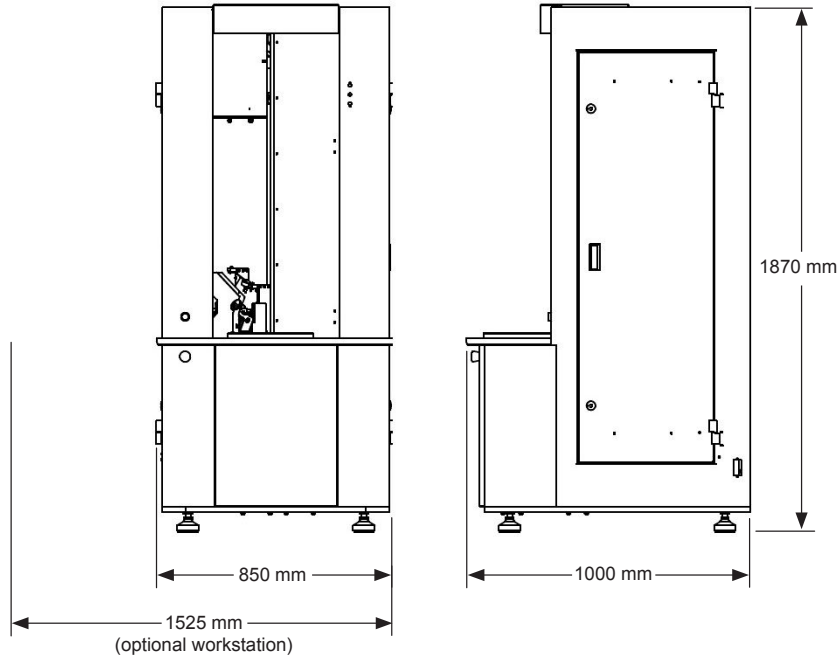
SGCentral is a user-friendly application that lets you configure scan settings, speed, and resolution for ShapeGrabber scanning systems. File formats supported are .gpd (Geomagic), .psl (Polyworks), .stl, xyz (ASCII generic), and others. SGCentral is included with every ShapeGrabber system.

SGCapture



SGCapture is a module for EVOLVE® SmartProfile®, the world's leading dimensional analysis software, that allows users to both acquire and evaluate scan data in a single software package. SmartProfile is the preferred solution for tolerance evaluation of 3D scanner data. The software's proprietary algorithms minimize the measurement uncertainty of the scanner data and produce CMM-like data sets.

ShapeGrabber® Ai620



System Weight: 400 kg
Shipping Weight: 500 kg

Ai620	Specifications
Rotary Table Motion	360°
Tilt Adjustment¹ (optional)	25°
Vertical Scale Resolution	0.1 µm
Rotational Scale Resolution	0.001°
Maximum Worktable Load	80 kg
Software (standard)	SGCentral
Software (optional)	SGCapture, Polyworks, Geomagic
System Controller	Windows® based, with up-to-date processor and onboard networking/communication ports
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 550 W
Rated Environment	Temperature 18-22 °C, stable to ± 1 °C, max rate of change 1 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz
Safe Operating Environment	15-30 °C, non-condensing
Scanhead	SG198
Measuring Range	600 L x 185 Ø mm
Laser	IEC Class 2M
Standoff	110 mm
Near FOV	90 mm
Far FOV	170 mm
Depth of Field	185 mm
Mid-Field Point Spacing	50 µm
Min Scanning Speed	155,000 pts/s
Max Scanning Speed	>1,500,000 pts/s
Wavelength	405 nm (Blue)
System Accuracy²	Specifications
Volumetric Scan Accuracy	(15 + L/100) µm
Multi-Scan Position Error (with rotary)	15 µm
Multi-Scan Position Error (with optional tilt axis)	25 µm

This equipment complies with EMC directive EN IEC 61326-1, Class A.

¹Two-position tilt adjustment

²Accuracy is evaluated with a QVI verification procedure based on the ISO 10360-8:2013 standard. "L" is measured length in millimeters. Specifications apply within the rated environment.



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