

NEW: **ATOS Core**



ATOS Core

ATOS Core is new. ATOS Core is different.

The ATOS Core is the newest member of the ATOS family and the 3D coordinate measuring system is especially designed for small and medium-sized objects. ATOS Core utilizes groundbreaking technology to form a powerful 3D scanning solution for quality control, automated inspection, rapid prototyping and reverse engineering applications.

ATOS Core expands the ATOS product family allowing a whole range of additional measuring tasks.



ATOS Core



ATOS Core. The Technology.

ATOS Core is the result of extensive research and development and builds upon the original ATOS idea. The result is an optical 3D measuring device that comes equipped with much more than just standard ATOS features such as a stereo camera, Triple Scan, self-monitoring or Blue Light Technology. When designing ATOS Core, our engineers rewrote the book and created a completely new type of stereo camera setup. For the first time optics and electronics have been split, enabling us to integrate the latest cutting-edge technology into a device that measures just 20 x 6 x 20 cm. This and many other innovative features make ATOS Core the ideal and affordable solution for 3D measurement of small and medium sized objects where high-quality data and process monitoring are important.

Three solutions. One Core.

As its name suggests, the ATOS Core was created utilizing the fundamental ATOS concepts and engineered with a new technology to introduce a customizable series of high quality economical 3D scanners. Whether mobile, stationary or automated, ATOS Core does everything from simple manual scanning, comprehensive inspection, to automated 3D metrology. But because measurement requirements can vary greatly, ATOS Core comes in three different product lines. ATOS Core always provides the right solution, whatever the job. From software through hardware, ATOS Core provides the key to greater efficiency, higher quality and smarter production processes.

ATOS Core



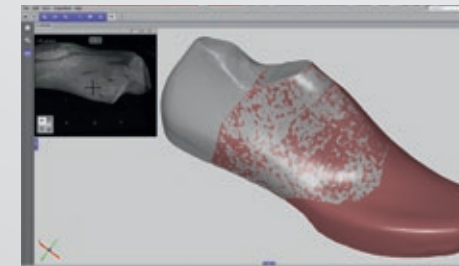
Essential Line

3D scanning using GOM Scan

The Essential Line is for applications, such as reverse engineering or rapid prototyping, which requires 3D scanning without the advanced inspection functionality. It is an advantage for those who want to benefit from GOM quality, or enter into the world of 3D scanning, but just need the necessities. The package consists of the ATOS Core sensor, GOM Scan software, an image processing computer, and accessories. GOM Scan software is intuitive and easy to use. It seamlessly integrates with the ATOS Core sensor to deliver high quality 3D polygon meshes in STL format with 2M or 5M sensor drivers. It is a manually operated system that includes an industrial studio stand, tripod or desktop configuration. If project requirements progress, simply upgrade to the Professional Line at any time.



Ideal for manual use. ATOS Core with tripod.



GOM Scan is a new easy to use software solution for simple 3D scanning.



The sensor is intuitive to use and does not require previous knowledge.

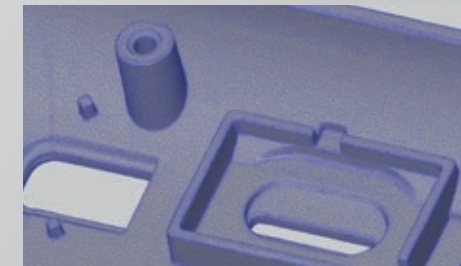
Professional Line

3D Metrology Solutions

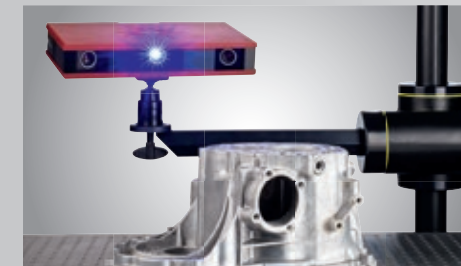
The Professional Line tackles complex metrology applications. Thanks to hot-plugging functionality the sensor head can be switched quickly depending on resolution requirements and object dimensions. The Professional Line encompasses all the Essential Line hardware but benefits from ATOS Professional, a software solution that boasts numerous innovative features and functions as well as a proven global track record. Functions include Triple Scan, polygon mesh editing, inspection, reporting, Teaching by Doing, scripting, back and selective projection, Motion Replay or dynamic referencing for touch probes, tracking or adapter applications. Additionally, ATOS Professional enables the simple realization of photogrammetry for global referencing as well as automation using rotation tables or small object motorization unit. ATOS Core can be used in conjunction with ATOS Triple Scan or ATOS Compact Scan to provide an additional measurement volume.



ATOS Core is designed to measure small and mid-sized objects in 3D.



Like the rest of the ATOS family, ATOS Core prides itself on precision.



For the 3D measurement and inspection of mid-sized objects ATOS Core is also available with larger measurement areas.

Kinematics Line

Automated small object inspection

The Kinematics Line is a fully automated solution for small objects designed to increase throughput, productivity, and repeatability for industrial quality control processes. In addition to the Professional Line hardware, the Kinematics Line is available with ATOS ScanBox including industrial robot. Scanning processes are managed via ATOS Professional software. The Kinematics Line also comes with Virtual Measuring Room (VMR), an enhanced software module which allows users to build a virtual environment to create automation routines offline and online in an easy to use platform. The use of ATOS Plus with fully integrated photogrammetry for reference point detection is also possible.



Swapping sensors is quick and easy thanks to the hot-plugging concept.



For efficient quality control during industrial processes, ATOS Core can also be fully automated.

Technical data

	ATOS Core 45	ATOS Core 80	ATOS Core 135	ATOS Core 200
Measuring area	45 x 30 mm	80 x 60 mm	135 x 100 mm	200 x 150 mm
Working distance	170 mm	170 mm	170 mm	250 mm
Point spacing	0.02 mm (0.03 mm)*	0.03 mm (0.05 mm)*	0.05 mm (0.09 mm)*	0.08 mm (0.13 mm)*
Sensor dimensions	206 x 205 x 64 mm	206 x 205 x 64 mm	206 x 205 x 64 mm	206 x 205 x 64 mm
Weight	2.1 kg			
Power supply	90 – 230 V AC			
Operating temperature	+5°C up to +40°C, non condensing			

*GOM Scan with Sensor Driver 2M

	ATOS Core 185	ATOS Core 300	ATOS Core 500
Measuring area	185 x 140 mm	300 x 230 mm	500 x 380 mm
Working distance	440 mm	440 mm	440 mm
Point spacing	0.07 mm (0.12 mm)*	0.12 mm (0.18 mm)*	0.19 mm (0.31 mm)*
Sensor dimensions	361 x 205 x 64 mm	361 x 205 x 64 mm	361 x 205 x 64 mm
Weight	2.9 kg		
Power supply	90 – 230 V AC		
Operating temperature	+5°C up to +40°C, non condensing		

*GOM Scan with Sensor Driver 2M



Accessories and options

	Essential Line	Professional Line	Kinematics Line
Software			
GOM Scan	■	-	-
ATOS Professional	-	■	■
Automation software			
Motion Replay	-	■	-
VMR	-	-	■
Sensor driver			
Sensor Driver 2M	2 million PPS **	-	-
Sensor Driver 5M	5 million PPS **	-	-
Triple Scan Sensor Driver	-	■	■
Stand			
Studio stand	■	■	-
Tripod	■	■	-
Desk stand	■	■	-
Automation options			
Rotation table	-	■	-
Small Object Motorization	-	■	-
ScanBox	-	-	5108 / 5120
Photogrammetry			
Manual	-	TRITOP based	-
Automated	-	-	ATOS Plus
Dynamic referencing			
Touch Probe	-	■	-
Adapter	-	■	■
Tracking	-	■	■
Inspection			
Parametric Inspection	-	■	■
CAD import standard formats (IGES, STEP, ASCII,...)	■	■	■
CAD import native formats (CATIA, UG, Pro/E)	-	■	■
Image Processing Computer	Mobile, Workstation, Rack Design		

** Points per Scan (Native camera resolution: 5 million pixels) *** with free GOM Inspect software

GOM. Your global partner for 3D coordinate measuring.

GOM is a leading provider of optical measuring systems with a strong focus on innovative hardware and software solutions, technical services and committed professional support. Our high-tech solutions are used around the world in manufacturing environments that demand extremely high-quality 3D coordinate measuring, deformation measurements and quality control. GOM maintains close ties with its customers in key industries: automotive, aerospace, consumer goods, component suppliers, research institutes and universities. What's more, customers benefit every day from the company's highly efficient solutions and precise implementation services – all from a single source.

We have offices in Germany, Switzerland, France, Great Britain, Italy and Belgium. We also partner with more than 45 distributors worldwide and place real value on close relationships and constant dialogue with our customers around the globe. The best conditions, we believe, to develop solutions that are precisely tailored to the demands of cutting-edge 3D metrology. Whatever your measuring needs, with over 20 years of international experience, GOM has the right solution.



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