



High-Speed 3D Scanning

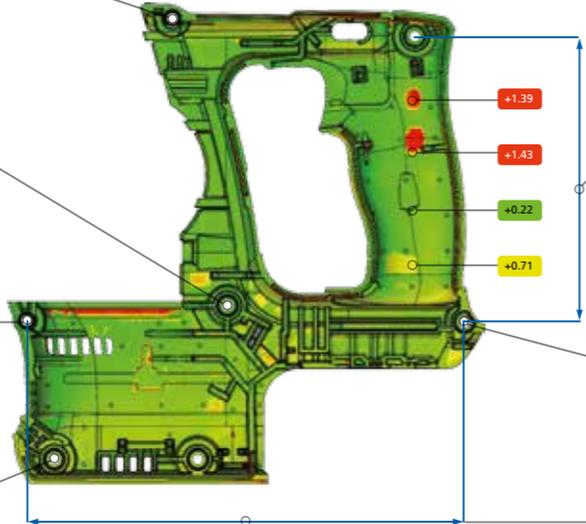
ATOS 5

Cone 7				
Symbol	Nominal	Actual	Dev.	Check
⊥	0.10 Plane X	0.01		Pass
⊕	0.50 A-B C	0.08		Pass
⊘	∅0.40 Cone 8	0.31		Pass

Cone 5.Concentricity				
⊙	(Nominal) ± 0.40			
Avg	+0.18			
Sigma	+0.03			
Min	+0.14			
Max	+0.23			
Pp	+2.64			
Ppk	+2.86			

RPS1_XYZ.Roundness				
⊘	(Nominal) ± 0.40			
Avg	+0.07			
Sigma	+0.00			
Min	+0.06			
Max	+0.07			
Pp	+58.23			
Ppk	+97.07			

Cone 6				
⊥	0.10 Plane E	0.01		Pass
⊕	0.50 A-B C	0.40		Pass
⊘	∅0.40 Cone 1	0.07		Pass



Distance 3.LZ				
L (Nominal)	± 0.40			
Avg	+0.31			
Sigma	+0.01			
Min	+0.28			
Max	+0.33			
Pp	+9.43			
Ppk	+2.04			

Circle 1				
⊘	Nominal	Actual	Dev.	Check
⊘	0.50	0.04		Pass
⊕	∅0.70 A-B C	0.12		Pass

Distance 2.LX				
L (Nominal)	± 0.30			
Avg	-0.07			
Sigma	+0.06			
Min	-0.25			
Max	-0.01			
Pp	+1.57			
Ppk	+1.20			

Precision Through Innovation

Developed for industrial use, ATOS 5 delivers high-precision data in a short measuring time – even under harsh conditions. The full-field 3D measuring data enables comprehensive process and quality control, visualizing hidden errors and thus speeding up production processes.

More light and fast cameras allow for short exposure times on all surfaces. With 0.2 seconds per scan and 100 frames per second, ATOS 5 constitutes a high-speed 3D scanning system providing highest precision.



Shop Floor Metrology

The right combination of hardware and software allows for safe integration of 3D metrology into production. The industrial housing is protected against dust and splash water. The whole system ensures fast and interference-free data transfer through fiber optic and intelligent sensor communication, resulting in a completely self-monitoring system.



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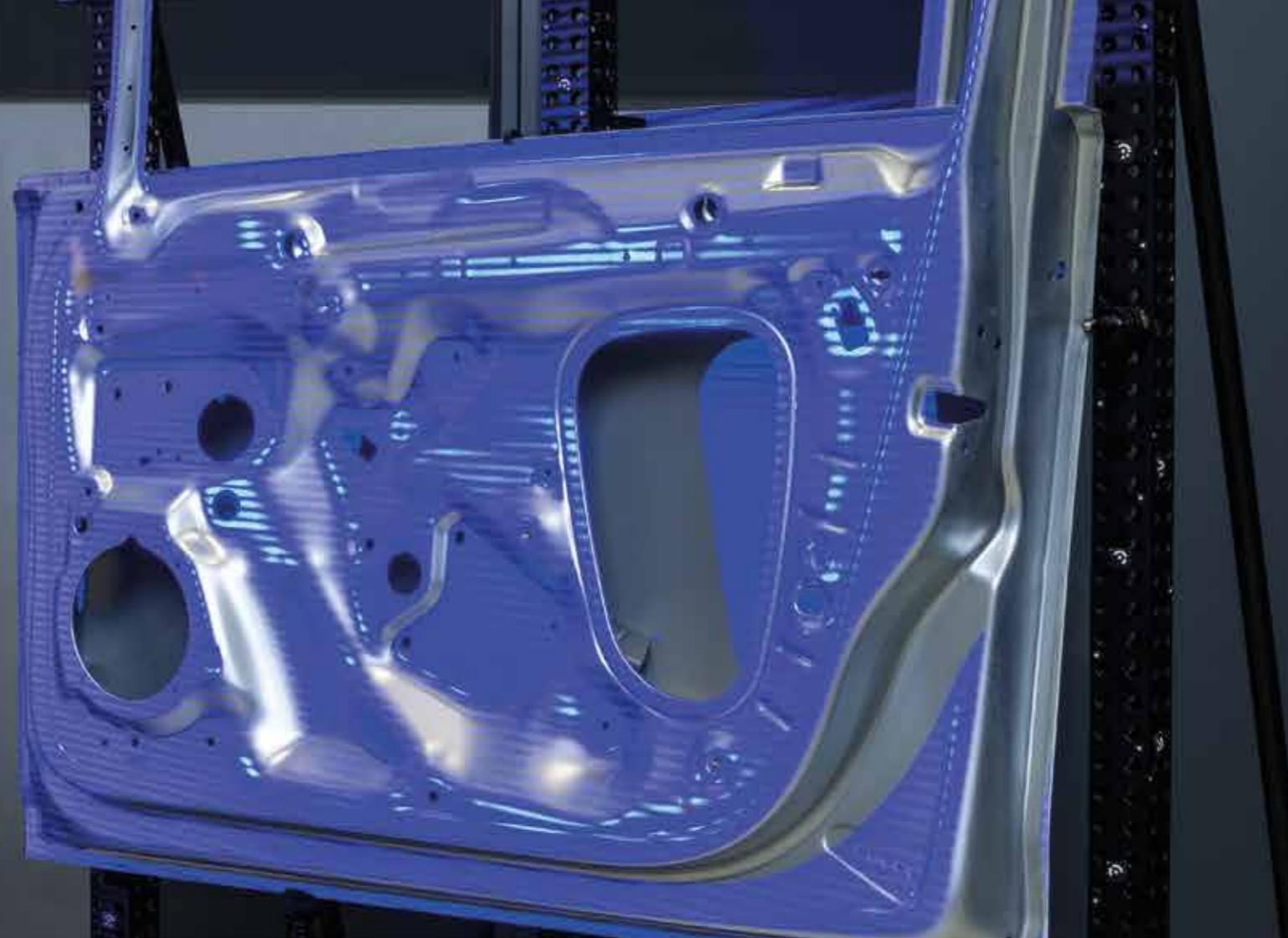


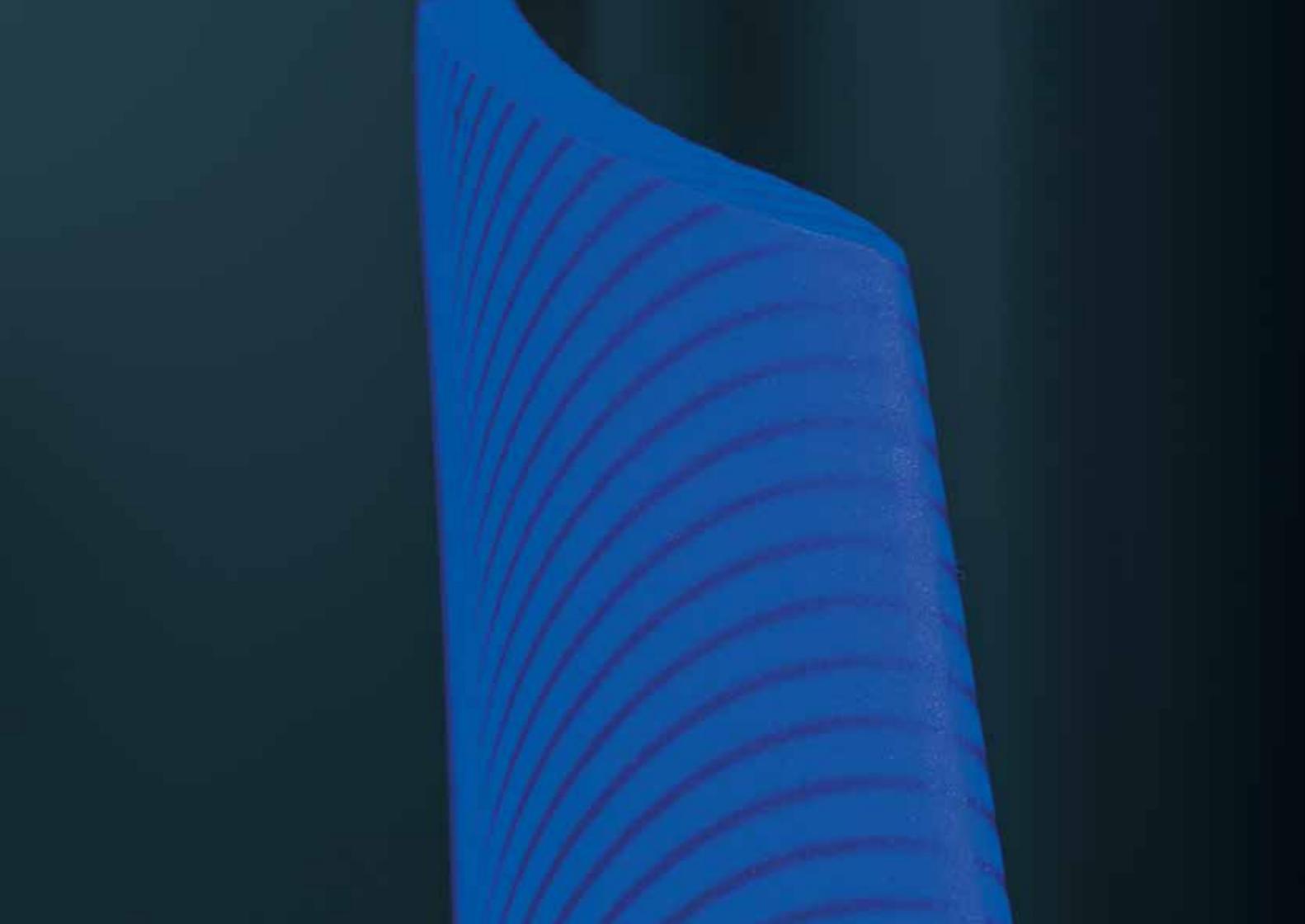
Mobile Metrology

ATOS 5 is used both in manual and automated applications, thus solving a wide variety of measuring tasks: inspection of sheet metal parts, tools and molds, turbine blades, prototypes as well as injection-molded and die-cast parts. The complete range of functionalities comprises scanning, probing, tracking and back projection.



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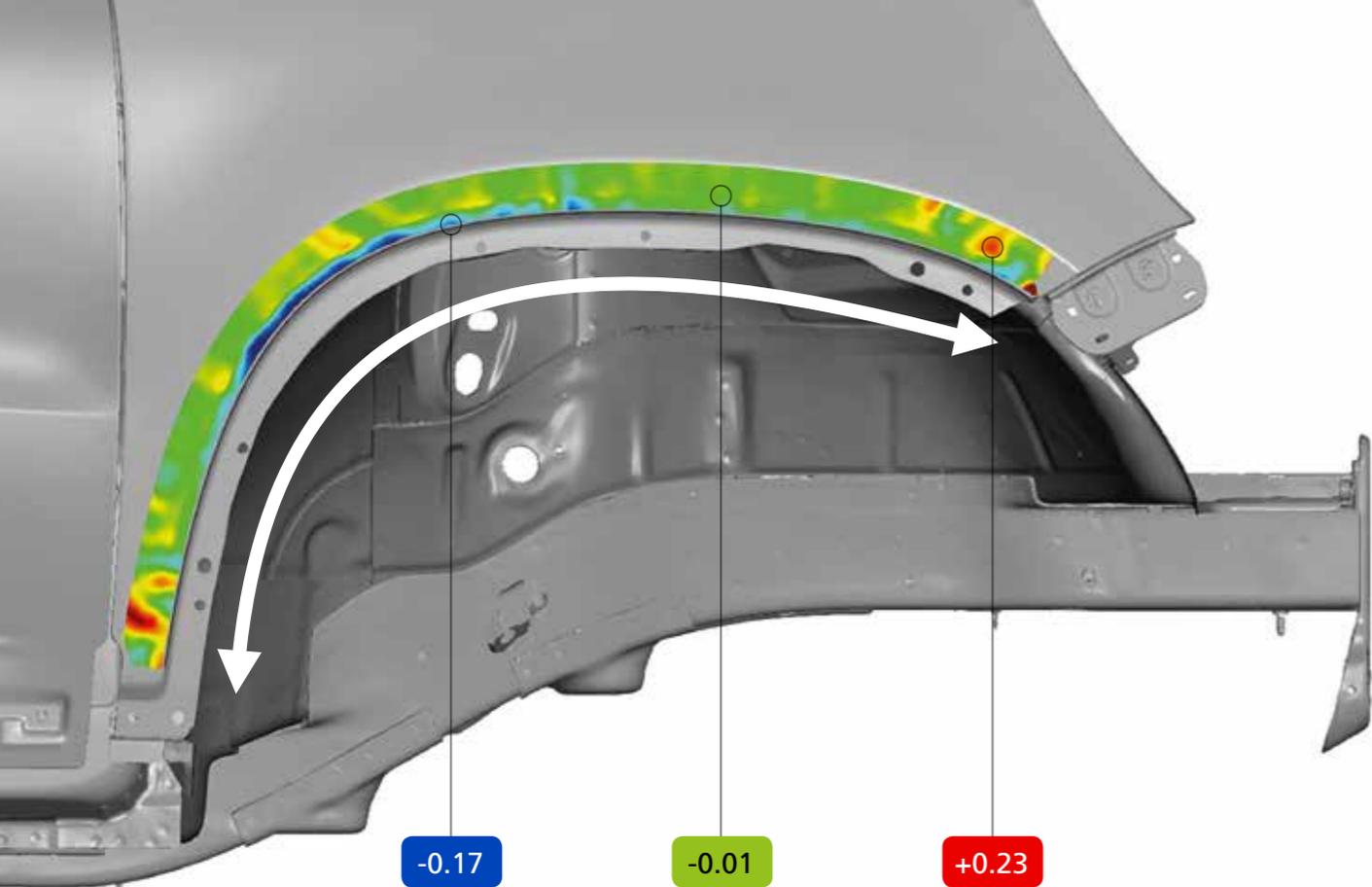




GOM Data Quality

With its powerful light source, ATOS 5 delivers high-precision data for a diverse range of manual and automated applications: from tools and molds to plastic and metal parts. The GOM data quality is particularly evident in the high resolution of details of the 3D models, for example, in the precise display of smallest details, rib structures, narrow radii or hemmed edges.

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High-Resolution Measuring Results

Each ATOS system is a complete solution consisting of a sensor and the corresponding software: a complete parametric and traceable measuring and evaluation software for dimensional analyses. This process-reliable software solution controls the ATOS 3D scanner, produces precise 3D surface data, and offers complete inspection and reporting functionalities.

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ATOS 5 Innovations

High-speed scanning

0.2 seconds per scan

Fast data processing

Fiber optic connectivity

High data throughput

Cable lengths up to 30 m

Blue Light Equalizer

Uniform non-coherent speckle-free light

High detail resolution

Projection of smaller fringes per unit area

Low noise level

Precise coverage of complex geometries

Bright LED light source

1.5 times brighter

Large-field 3D scanning

Measuring areas up to 1000 mm

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