main features

- **See even small details**
  - Thanks to a high-resolution 6MP detector
  - Discover even small details with high resolution. An object with 15 cm in diameter can be reconstructed with 68 µm voxel size*.

- **No maintenance**
  - Closed micro-focus X-ray tube
  - Within a closed tube, the vacuum, created during manufacturing process, last over the lifetime of the X-ray tube and, therefore, no maintenance of the tube is required.

- **Smart design**
  - Small and flexible
  - The total space requirement is < 1.6 m² and can therefore be positioned very flexibly. It is not necessary to provide additional space for the service behind, above and on the right side of the system.

- **Measure and inspect small to mid-size plastic parts**
  - Plastic components with a height or diameter of up to 165 mm can be unexpectedly easily scanned and measured.

- **Easiest operation**
  - Scanning and evaluating by the touch of one button
  - The simplified setup of the CT results in a very simple operation with minimal influence by the operator. This leaves little room for error and therefore requires little training for the operator.

*Values might be subjects to minor changes.
Technical specifications*:
• Tube voltage: 160 kV
• Target performance: 600 W
• Measuring volume: 165 x 140 mm*
• Voxel size: ~ 68 µm*
• Detector: 2560 x 2560 px
• Active temperature balancing
• Dimensions: 1.750 x 1.820 x 870 mm
• Weight: 2.100 kg

• Distance Tube – Sample/Part: 555 mm*
• Distance Tube – Detector: 670 mm*

* Values might be subjects to minor changes.
Power rating:
- Power supply: 3x220/340/374/400/440/484 V ~ (+-5%)
- Type of current: L1/L2/L3/(N)/PE
- Frequency: 50 - 60 Hz (+-3.5%)
- Max. power consumption: 6 kVA
- Typ. energy demand: 4 kWh
- Heat emission for typ. Energy demand: 1 kW
- Fuse: C25A
Powerful solution powered by GOM Volume Inspect

Volume visualisation

Trend Analysis and Comparisons

Dimensional Metrology

Defect detection and inspection
ZEISS METROTOM 1
First 7 reasons to buy

The new simplicity in CT technology

1. Best in-class performance
The ZEISS METROTOM 1 is a 160 kV CT system with a 600 W tube. In combination with a 2.5k detector it provides high image quality. All of that with a very good price-performance ratio.

2. Low cost-of-ownership
The tube of the ZEISS METROTOM 1 will need no maintenance when in operation. This makes the whole system low in maintenance and reduces therefore the cost-of-ownership.

3. Simple operation
The simplified setup of the CT leads to a very easy operation with small operator influence. This leaves little room for mistakes and, hence, requires only little training for the operator.

4. Small footprint
Due to the small footprint of only 1750x1820x870 mm* the system can be positioned very flexibly. It is not necessary to provide extra space for service behind, above, and on the right of the system.

5. Easy installation
The system will be delivered in one part so that it can be easily installed at the customer’s site, even if there are infrastructural restrictions, e.g. small doors or wall heights.

6. Worldwide sales and service centers for local support
Native speaking service technicians and trainers available.

7. GOM CT Professional
Leading CT software with additional features for your needs – one software for scanning and analysis, including GOM Volume Inspect.

* Values might be subjects to minor changes.
Application Examples
Applications

Industry
- Injection molded parts
- Light metal parts
- Composites

Medical
- Injectors
- Dental
- Injection molded parts

Education
- Universities
- Engineering labs

Automotive
- Alu casting
- Dashboard components

Consumer goods
- Packaging
- Assembly
- 3D printed plastic parts
Main fields of application
for ZEISS METROTOM 1

Examples

Example: Plastic cover

Inspection and dimensional, surface and flatness control of plastic cover ring
Position and area profile check

HOW?
- ZEISS METROTOM 1
- GOM CT professional / GOM Volume Inspect

Ease-of-use, low costs & small footprint

Area profile check
Flatness control
Surface comparison
Area profile check
Position check
Main fields of application
for ZEISS METROTOM 1

03 Examples

Example: Inspection window

Inspection and dimensional, surface and flatness control of plastic inspection window
Position, wall thickness and area profile check

HOW?
- ZEISS METROTOM 1
- GOM CT professional / GOM Volume Inspect

Ease-of-use, low costs & small footprint

3D Volume
Area profile check
Flatness control

Wall thickness check
Surface comparison
Surface comparison
Main fields of application for ZEISS METROTOM 1

Examples

Example: Screw cap

Inspection and dimensional, surface and flatness control of plastic screw caps
Distance measurements

HOW?
- ZEISS METROTOM 1
- GOM CT professional / GOM Volume Inspect

Ease-of-use, low costs & small footprint

3D Volume
Linear distance check
Surface comparison
Distance measurement
Main fields of application
for ZEISS METROTOM 1

03 Examples

Example: Housing

Inspection and dimensional, surface and flatness control of plastic screw caps
Distance measurements

HOW?
- ZEISS METROTOM 1
- GOM CT professional / GOM Volume Inspect

Ease-of-use, low costs & small footprint

3D Volume
Bore holes diameter check
Surface comparison

Distance measurement
Flatness control