

# Get to know the new **ZEISS T-SCAN hawk 2**

**Take it. Make it.**

**ZEISS T-SCAN hawk 2**



Fast and smooth scanning.  
Intuitive operation. Guided workflows.  
Great software. Made in Germany.  
Made by ZEISS. Made for you.

ZEISS T-SCAN hawk 2  
**Take it. Make it.**



# The tool to get about anything done



# Handheld precision, developed and produced by ZEISS

The portable T-SCAN hawk 2, the next-generation lightweight 3D laser scanner, comes with metrology-grade precision and remarkable ease of use.

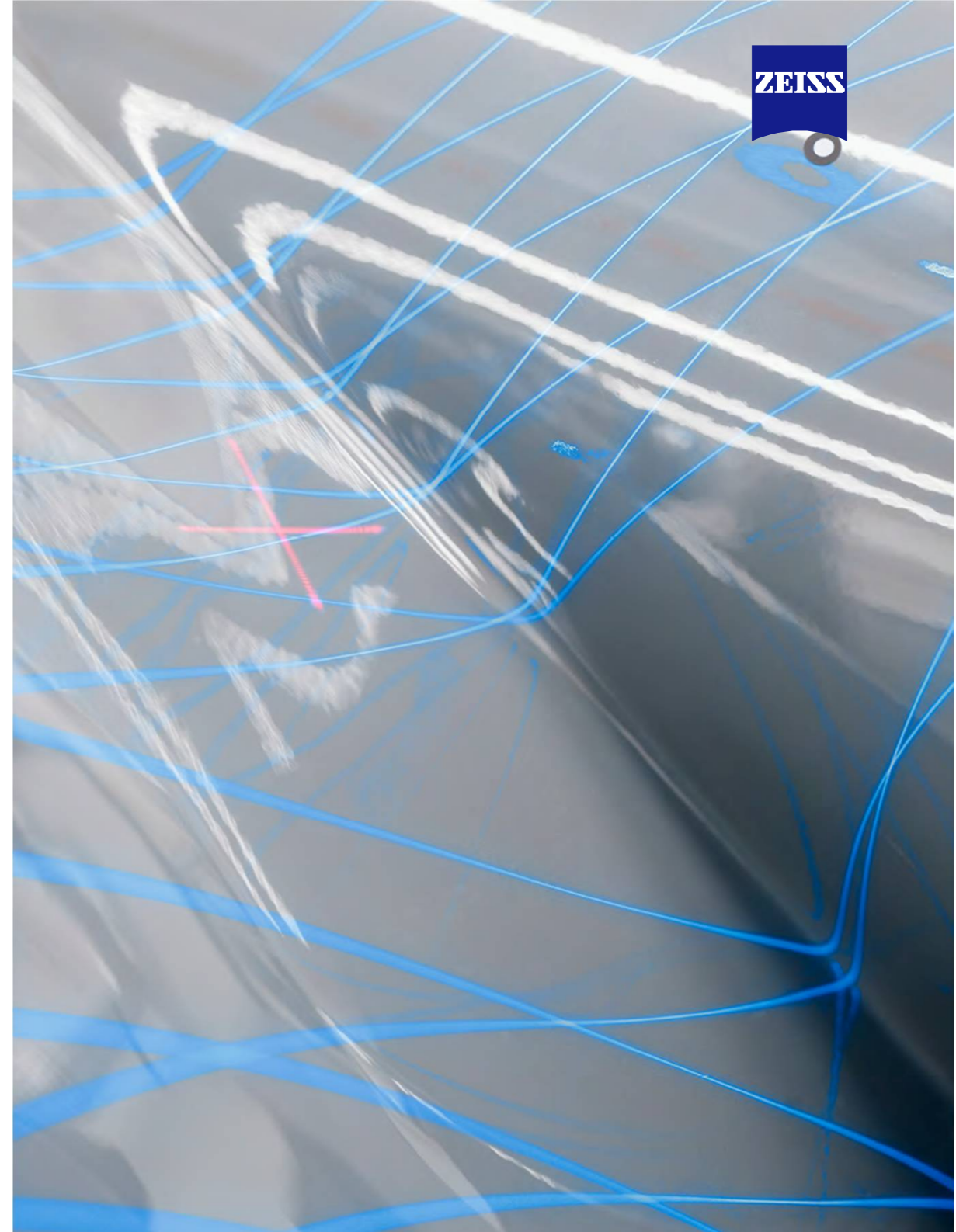


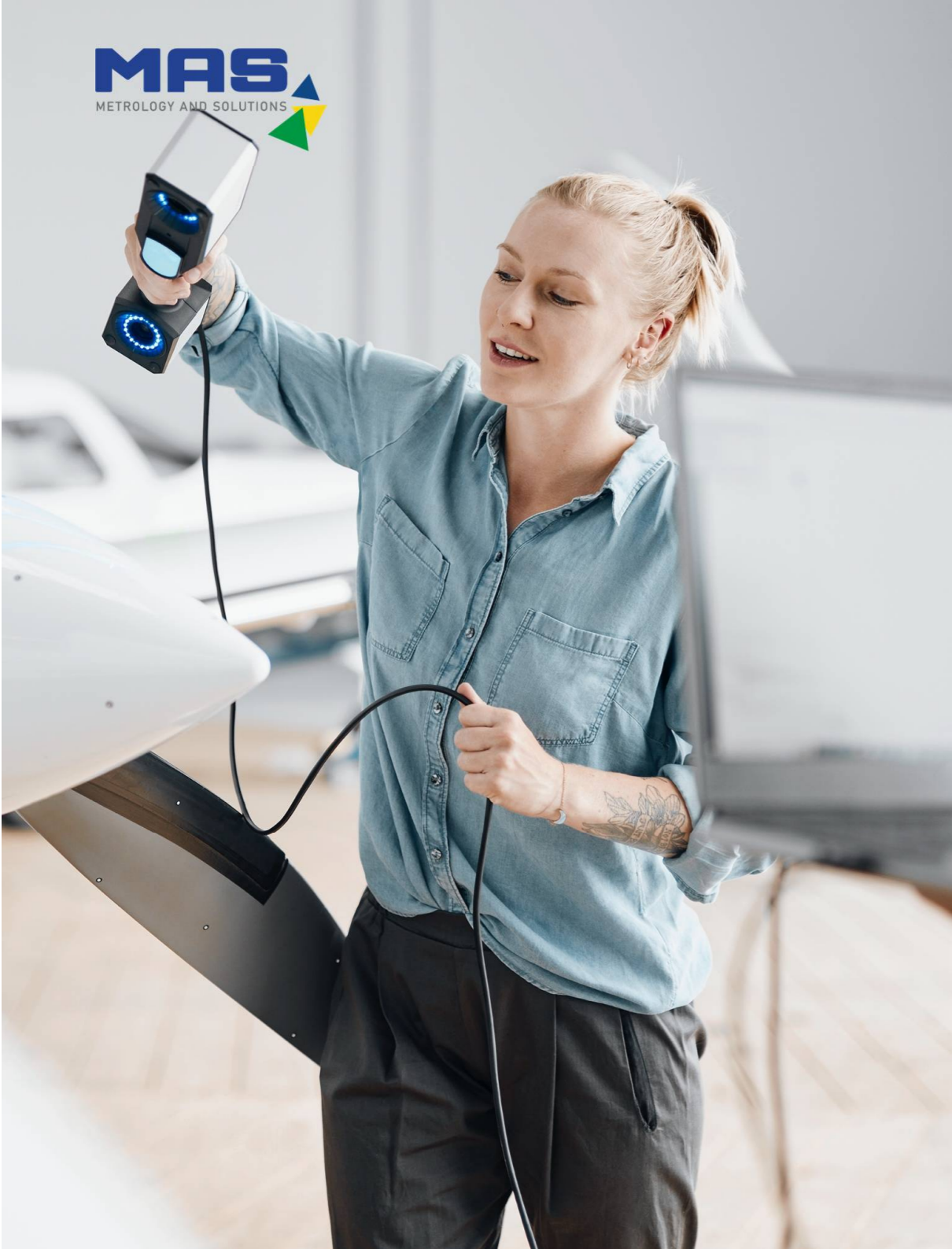
Developed and produced  
in Germany.

Acceptance testing is  
certified for the highest  
industry standards.

# Your perfect working distance

Control your working distance with a new projection mode – a red laser marker helps you to easily adjust for perfect scanning results.





# A solution that adapts to your workflow

The flow is yours – T-SCAN hawk 2 is intuitive to operate and adapts easily to the movement of your hand.



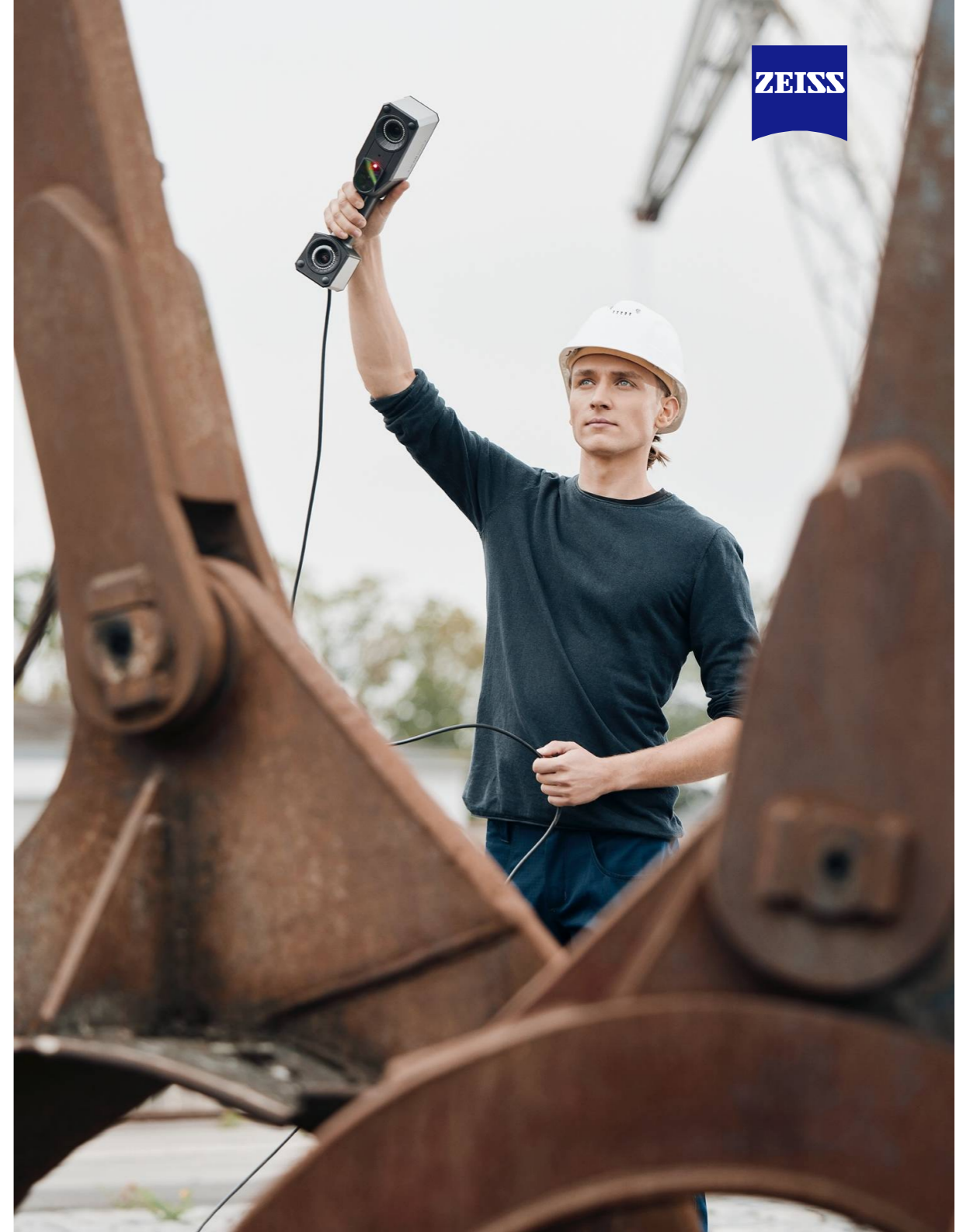


# Introducing the new satellite mode

# Go big with the new satellite mode

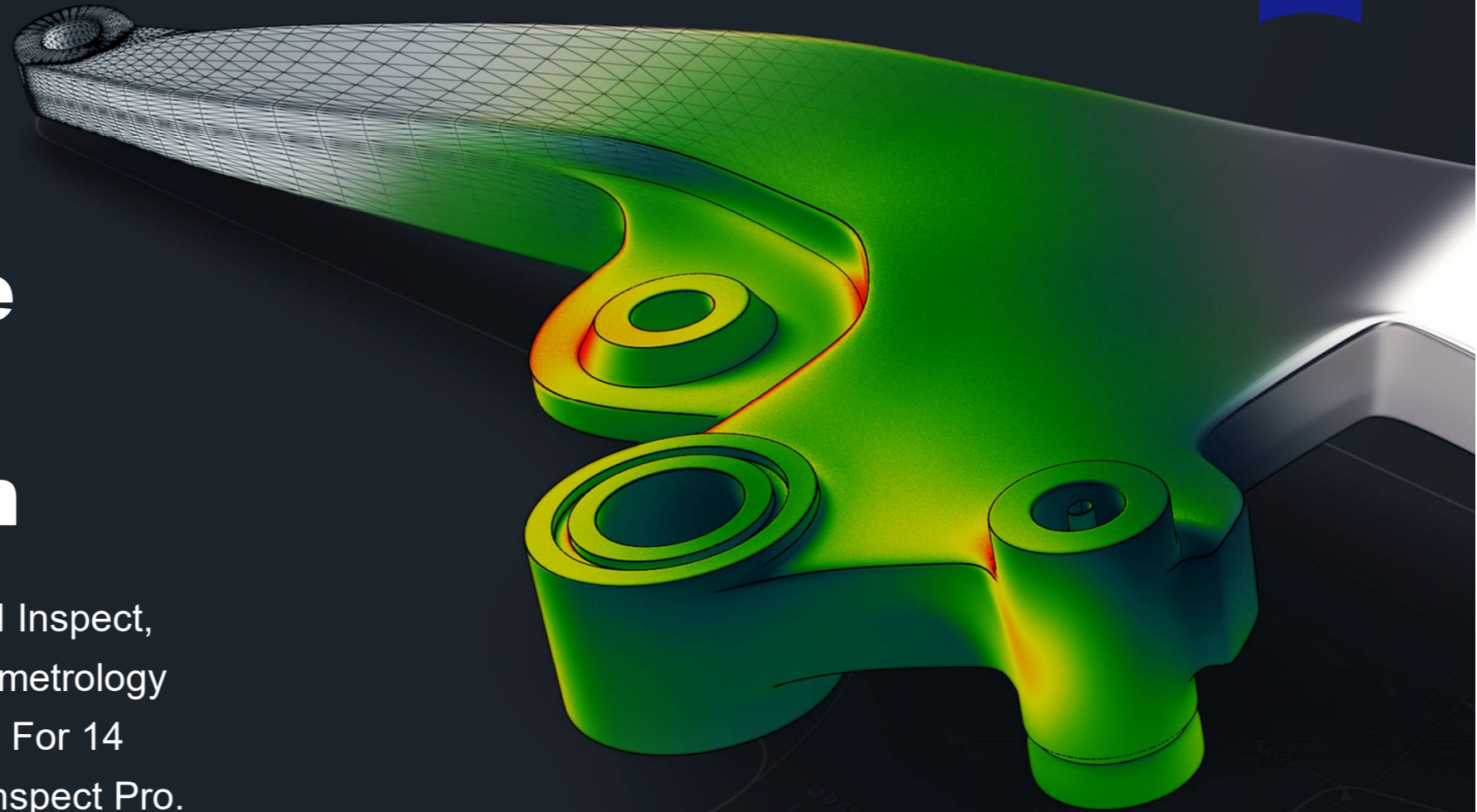
T-SCAN hawk 2 is the first portable laser scanner with the new satellite mode to scan objects up to multiple meters. No need for the classical built-in photogrammetry with coded markers.

No compromise on accuracy. Easy scanner positioning with the new laser grid.



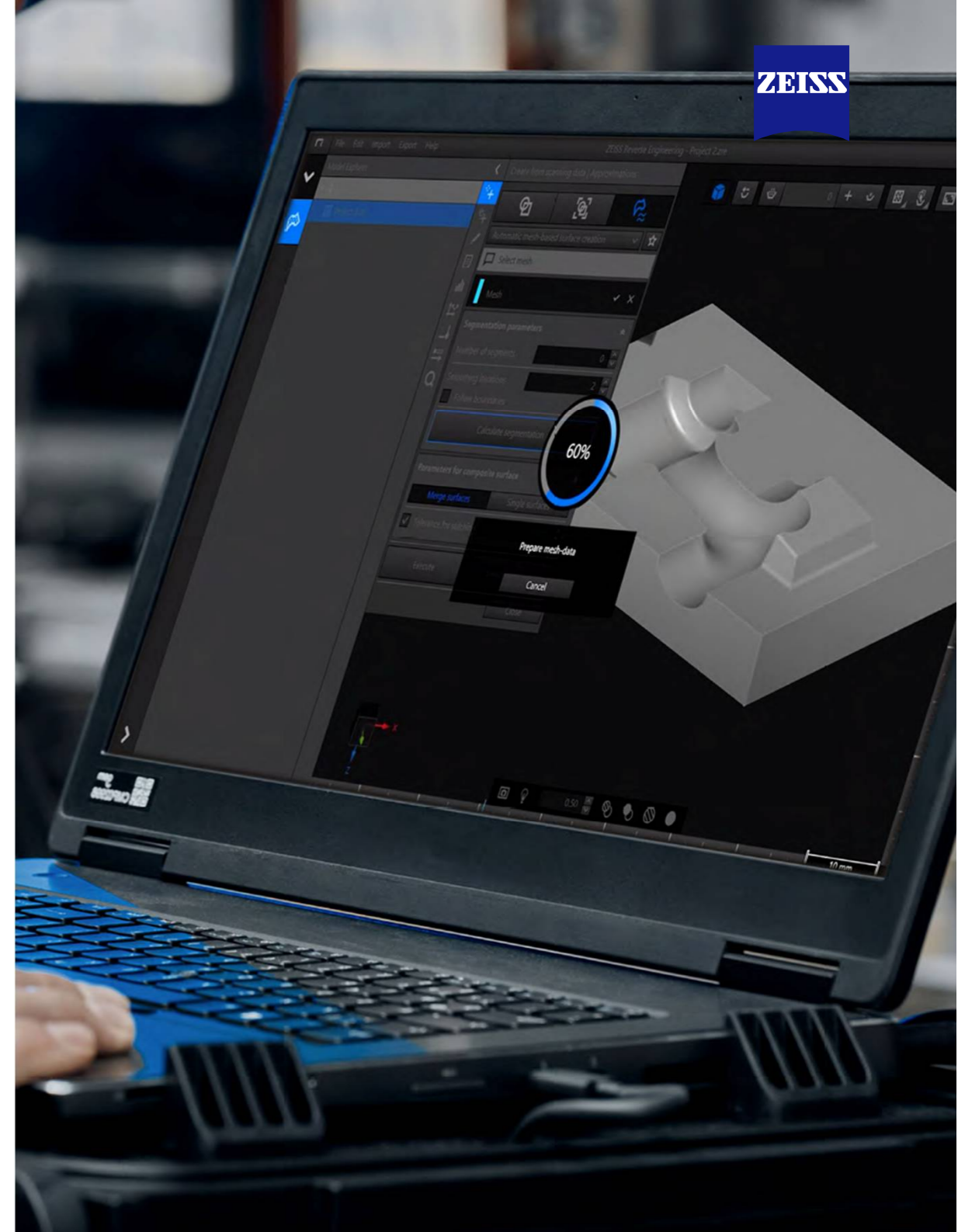
# The all-in-one software for 3D inspection

T-SCAN hawk 2 operates with GOM Inspect, the well established standard in 3D metrology and part of the ZEISS Quality Suite. For 14 days, enjoy your free trial of GOM Inspect Pro.



# CAD modeling with ZEISS Reverse Engineering

Scan 3D data with T-SCAN hawk 2, import it to ZEISS Reverse Engineering and let the software guide you to a high-precision CAD model in just a few steps.



# Controlling quality where it matters



# Reference standards used for system qualification

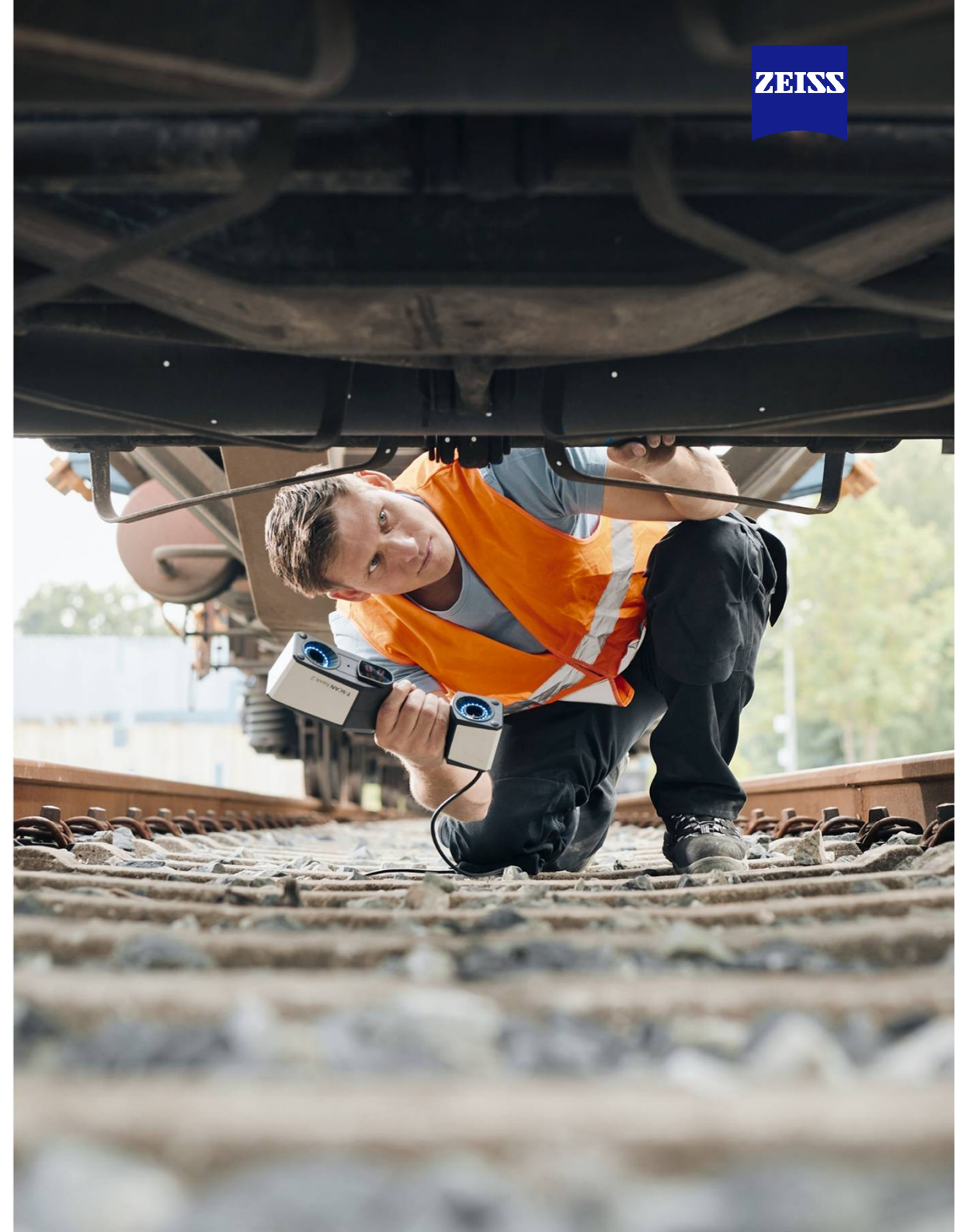
Carl Zeiss GOM Metrology GmbH is an accredited laboratory in the fields of calibration of length and coordinate standards for optical metrology.

Each T-scan hawk 2 system is delivered with three DAkkS-calibrated, traceable length standards and one DAkkS-calibrated, traceable coordinate standard which are used for system qualification.



# Switching between different tasks

T-SCAN hawk 2 features seamless adjustments for resolution and field of view. Whether small parts, fine details, larger objects or deep pockets, confined spaces or hard-to-reach areas, this 3D laser scanner does the job.





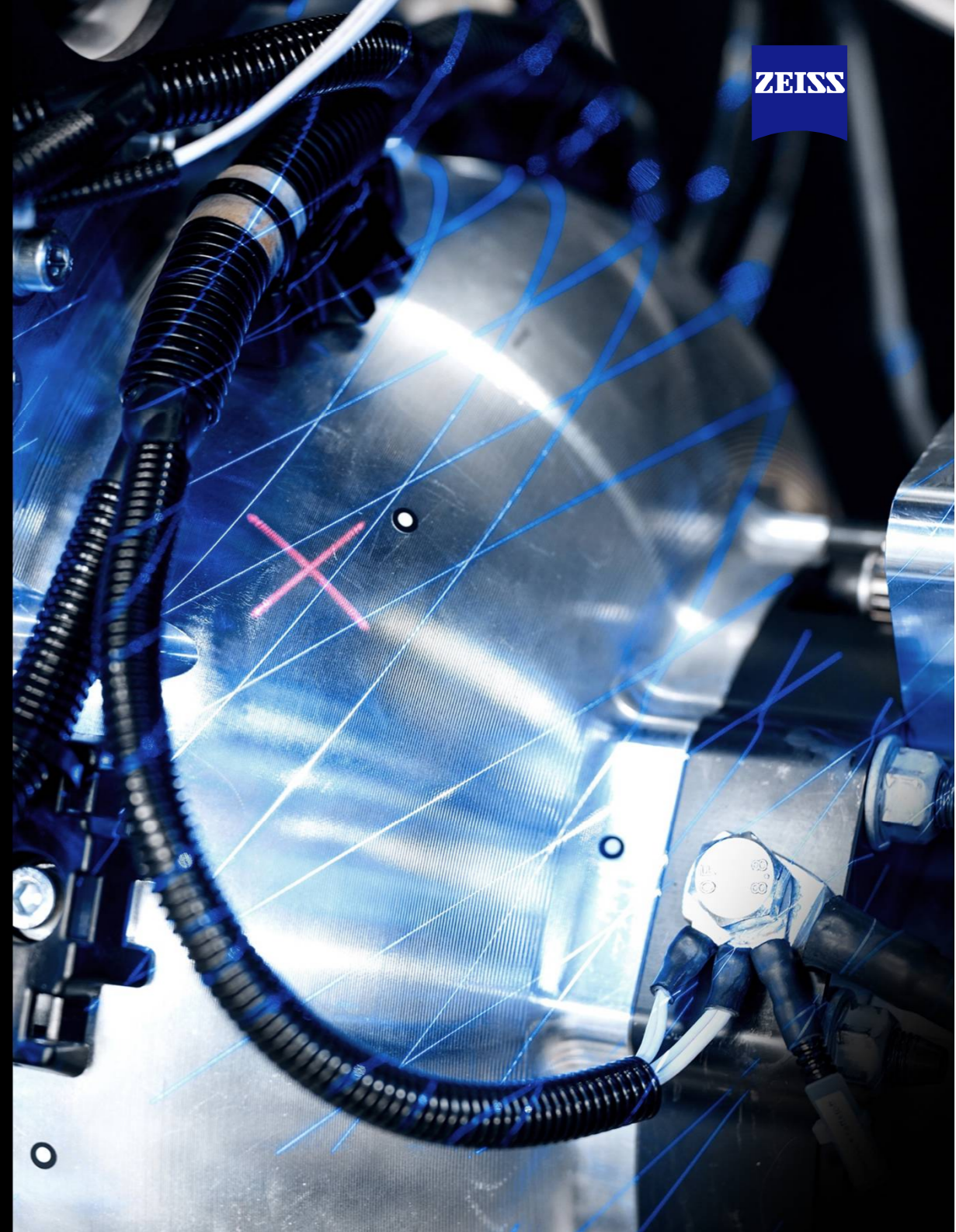
# Operate with a push of a button

T-SCAN hawk 2 features four buttons to start and navigate your workflow directly. No need to operate the software separately on your laptop.



# Strong on dark and shiny surfaces

T-SCAN hawk 2 supports scanning on a wide range of materials and surfaces, delivering 3D measurement data with the highest precision.



# Capturing data wherever you need it



# Everything at hand: Your case for traveling

Whether you take it to production or outside, the 3D laser scanner travels with you in just one case, containing additional tools.

- T-SCAN hawk 2
- Calibration panel
- Hyperscale
- Toolbox
- Reference points
- Power delivery hub



# Made for maintenance



# Ready to take on many applications

Whether it's about finding defects, quality control in production areas or digital twins, reverse engineering, design or the customization of a car: T-SCAN hawk 2 is ready.



# Some tasks to get the job done with ZEISS T-SCAN hawk 2:

## Maintenance

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3D inspection of dents, corrosion and damage

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3D scanning and remanufacturing of legacy parts

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Indoor and outdoor, in rugged and harsh environments

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Wear monitoring

## Reverse engineering

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From shape to CAD

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Archiving tools and cultural heritage

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Everything from small details to very large repairing of parts

## Quality control

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Actual comparison with CAD

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Functional dimensioning

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Shop floor inspection

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Reducing the number of iteration in your process

## Design

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Digitalize complex shapes and physical objects

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Design modification

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Interior design

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3D visualisation

## Industries

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Automotive

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Shipping

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Railway

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Aerospace

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Energy generation

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Oil and gas industry

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Agriculture, forestry and mining

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Heavy industry

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Mold and machine manufacturing

# Technical data



## ZEISS T-SCAN hawk 2

High-speed scanning	Included (multiple blue laser crosses)
Deep pockets	Included (single blue laser line)
Flexible depth of field	Included (on-object distance radar)
Detailed scan	Included
One-shot sensor recalibration	Included (HyperScale)
Large parts	Included (Satellite mode, no coded markers required)
Carbon-fibre lengths standards	Certified (DaKKs / ILAC) <sup>(1)</sup>
Volumetric accuracy	0.02mm + 0.015mm/m <sup>(2)</sup>
9 depth of field	Included (on-object distance radar)
Laser class (IEC 60825-1:2014)	Class 2 (eye-safe)
Weight	< 1kg
Cable	10m (ultra-light)
Software	ZEISS Quality Suite / GOM Inspect
Full remote workflow	Supported

(1) Accreditation Carl Zeiss GOM Metrology GmbH: D-K-21312-01-00 according to DIN EN ISO/IEC17025:2018

(2) Acceptance Test based on ISO 10360

# Thank you



Contact us!

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Seeing beyond