ZEISS
#HandsOnMetrology
PARTNER
Discover ZEISS T-SCAN hawk 2,
the next-generation,
portable 3D laser scanner.
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Take it. Make it.
ZEISS T-SCAN hawk 2
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Intro

Highlights

ZEISS INSPECT

ZEISS REVERSE ENGINEERING

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Click to navigate

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

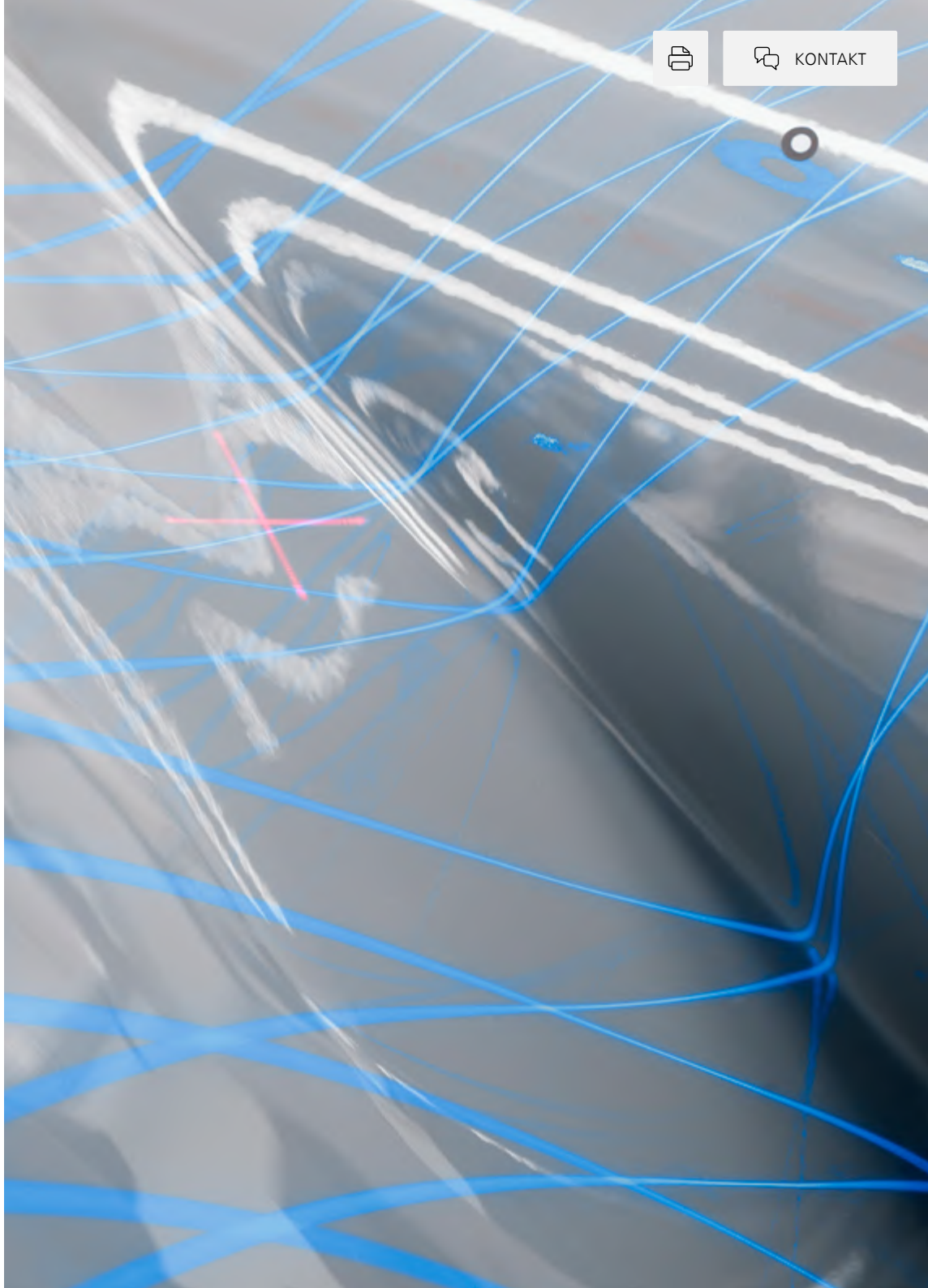
The portable T-SCAN hawk 2, the next-generation lightweight 3D laser scanner, comes with metrology-grade precision and remarkable ease of use.

Developed and produced **in Germany**.

Acceptance testing is certified for the highest industry standards.

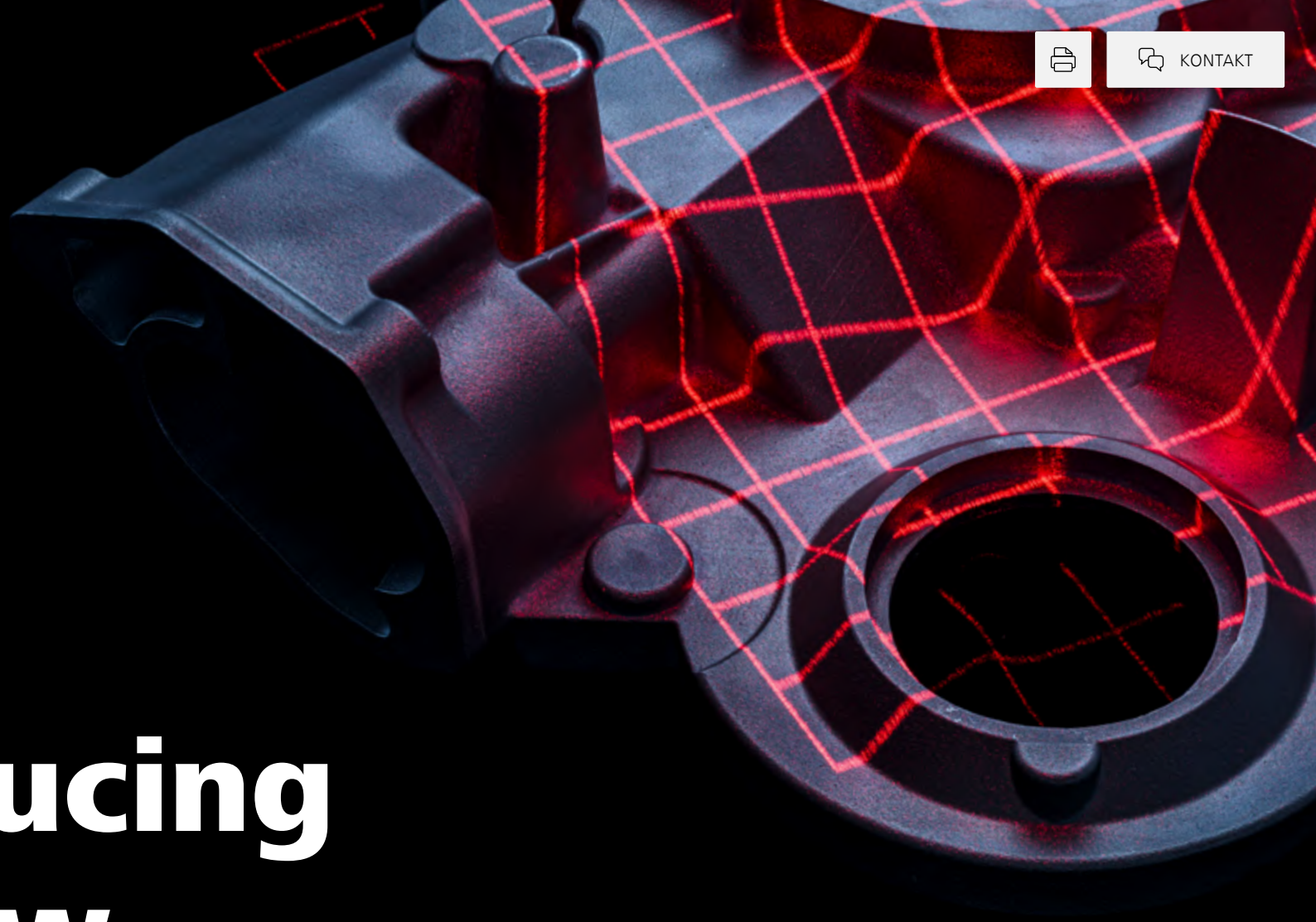
Your perfect working distance

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

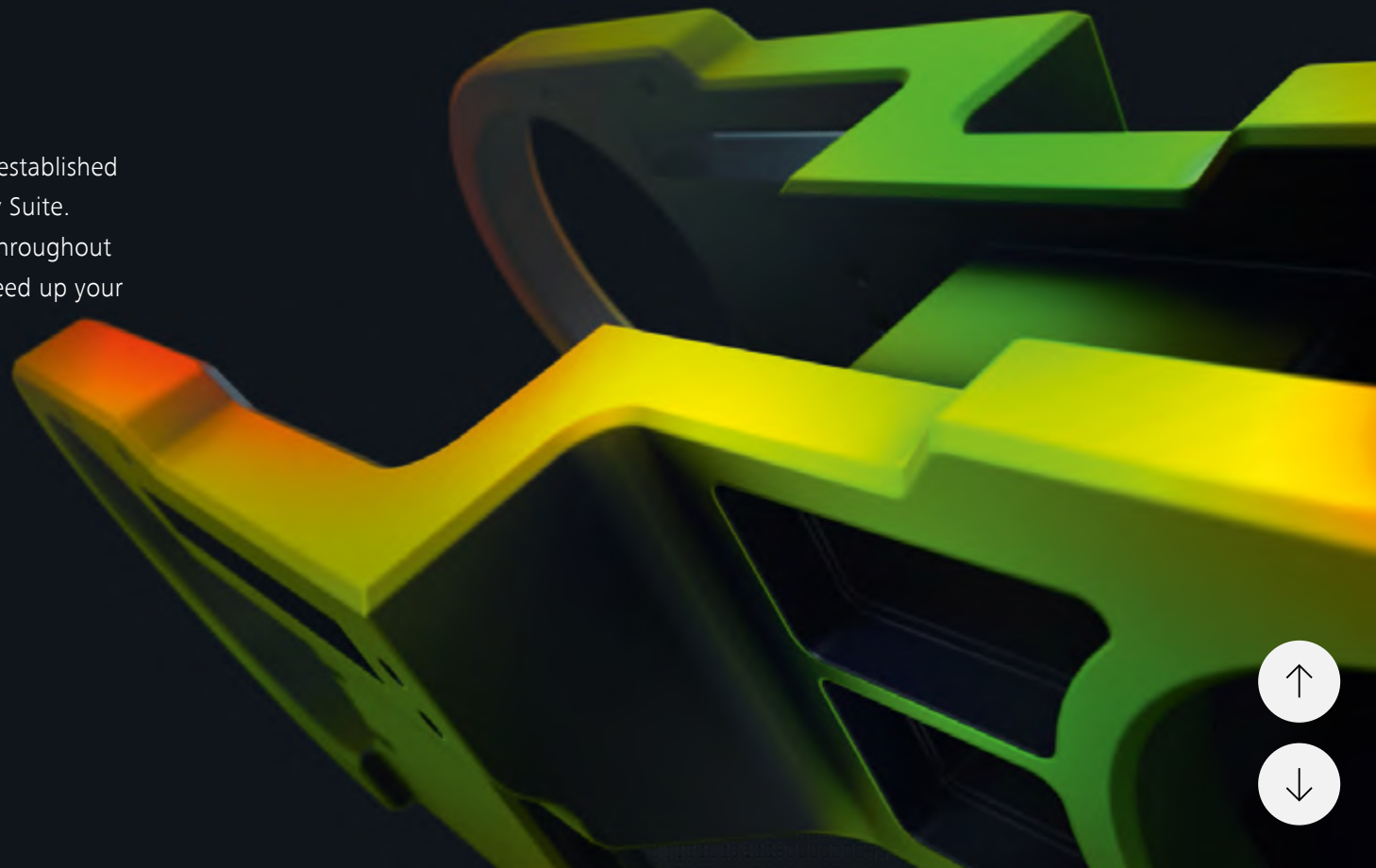
T-SCAN hawk 2 is the first portable laser scanner with the new satellite mode to scan objects up to multiple meters. No need for the classical built-in photogrammetry with coded markers. No compromise on accuracy. Easy scanner positioning with the new laser grid.

The all-in-one software for 3D inspection

T-SCAN hawk 2 operates with ZEISS INSPECT, the well established standard in 3D metrology and part of the ZEISS Quality Suite. You can effortlessly handle simple and complex tasks throughout your inspection process. A software to simplify and speed up your workflow.

LEARN MORE

Click to visit the HandsOnMetrology website



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.

LEARN MORE

Click to visit the HandsOnMetrology website

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.

ilac-MRA
DAkkS
Deutsche
Akkreditierungsstelle
D-K-21312-01-00

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.

LEARN MORE

Click to watch our Getting Started sessions

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

Maintenance

- 3D inspection of dents, corrosion and damage
- 3D scanning and remanufacturing of legacy parts
- Indoor and outdoor, in rugged and harsh environments
- Wear monitoring

Reverse engineering

- From shape to CAD
- Archiving tools and cultural heritage
- Everything from small details to very large repairing of parts

Quality control

- Actual comparison with CAD
- Functional dimensioning
- Shop floor inspection
- Reducing the number of iteration in your process

Design

- Digitalize complex shapes and physical objects
- Design modification
- Interior design
- 3D visualisation

Industries

- Automotive
- Shipping
- Railway
- Aerospace
- Energy generation
- Oil and gas industry
- Agriculture, forestry and mining
- Heavy industry
- Mold and machine manufacturing

Take it. Make it.

Get inspired by the world of T-SCAN hawk 2

Click to play the video in your browser

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 targets required)
Carbon-fibre lengths standards	Certified (DAkks / ILAC) (1)
Volumetric accuracy	0.02mm + 0.015mm/m (2)
Laser class (IEC 60825-1:2014)	Class 2 (eye-safe)
Weight	< 1kg
Cable	10m (ultra-light)
Software	ZEISS INSPECT
Full remote workflow	Supported

(1) D-K-21312-01-00 according to DIN EN ISO/IEC17025:2018
(2) Acceptance Test based on ISO 10360

Contact us

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Check out the go-to for 3D scanning:
HandsOnMetrology.com