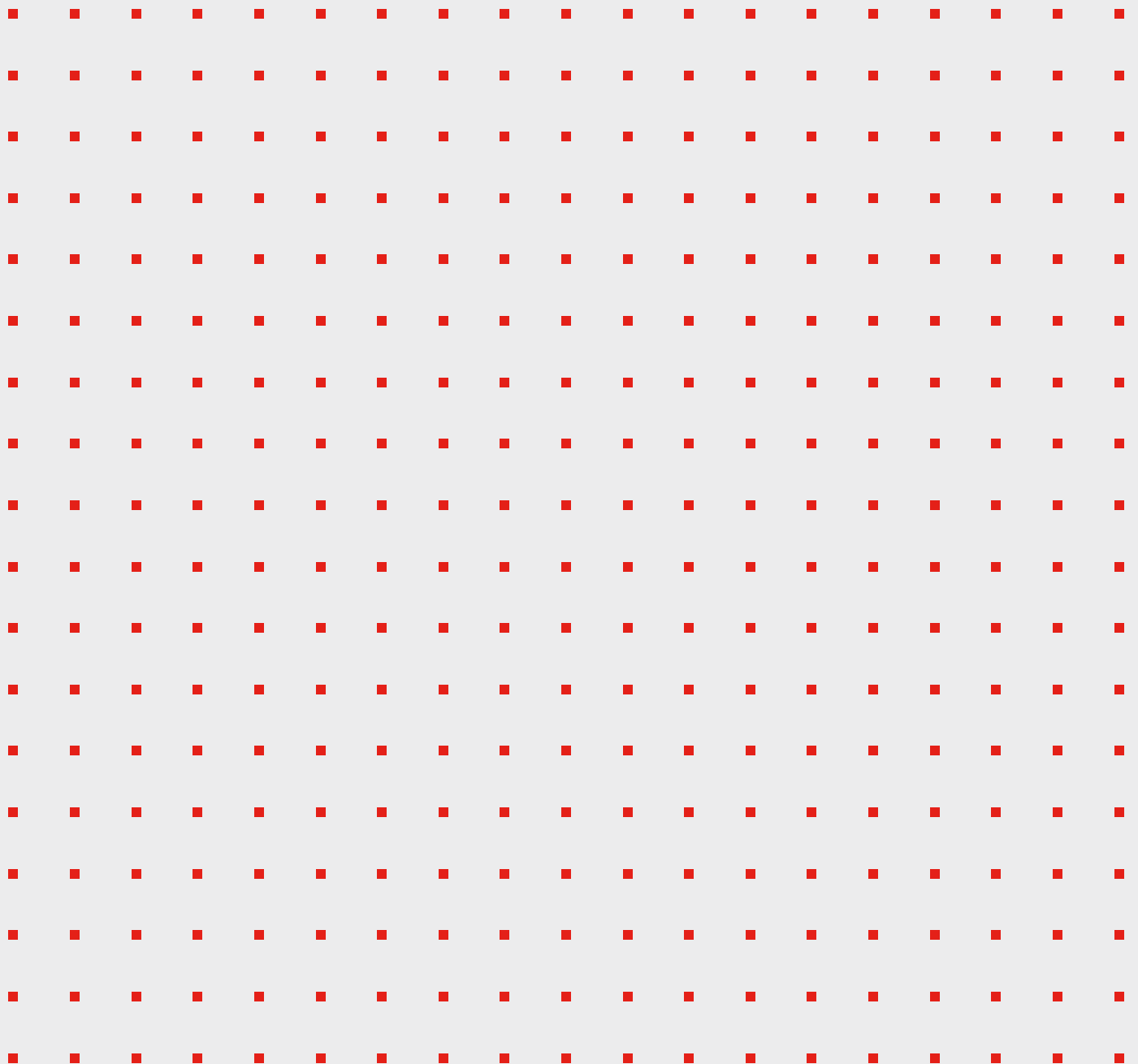


High precision with short test times. And inline.



1/100 accuracy

Inline-capable

without influencing the frequency

Any data format

Data delivery at request of the customer

For any industry

Aerospace, Automotive, Plastics and Medical technology, Music industry

1 operation cycle

All in just one single operation cycle – save time, space and energy costs

500 measurements per second

90% smaller

More compact construction than the competition

No exhibit preparation

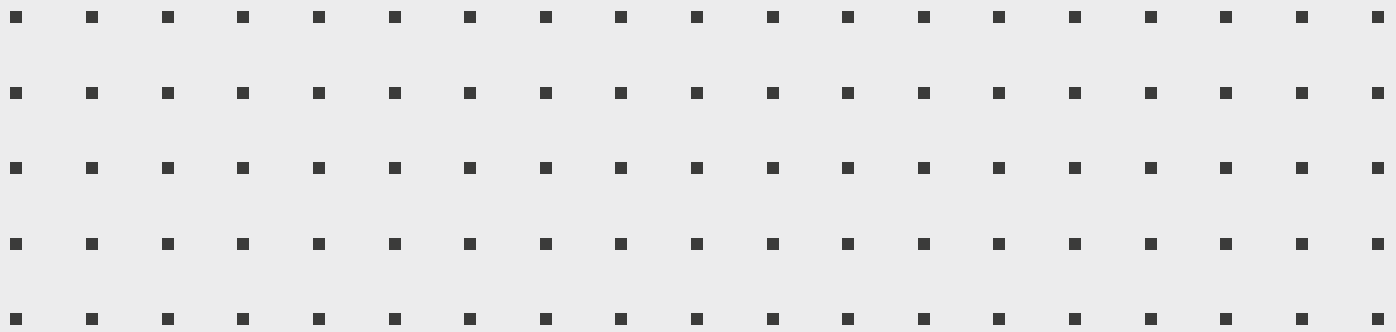
Measurement without exhibit preparation

Every material can be measured

Even glass, carbon, chrome, polycarbonate and transparent materials

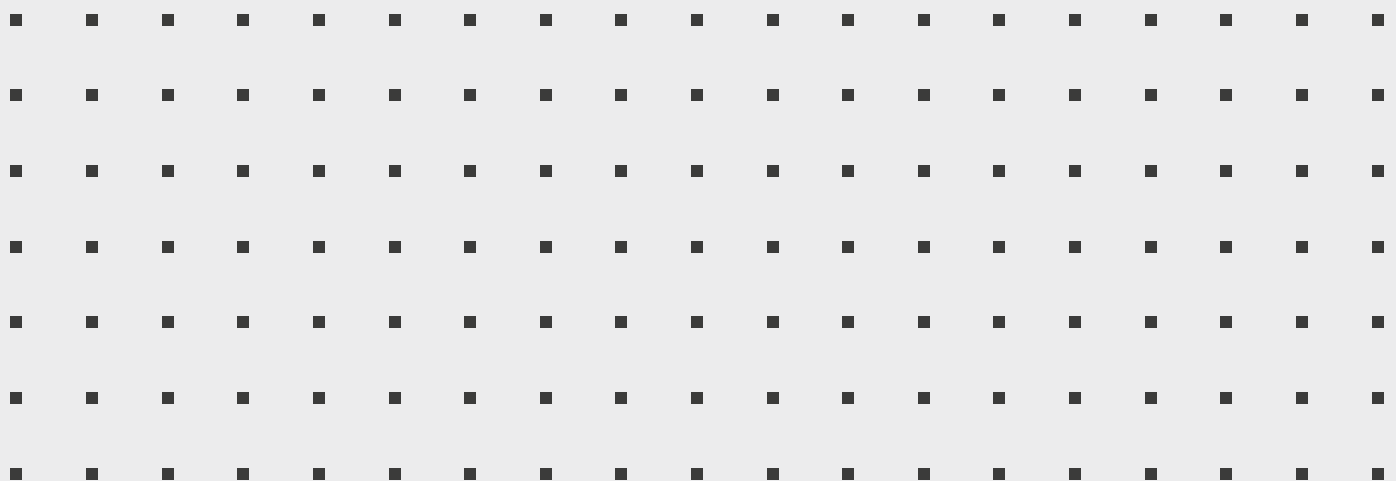
Measurement Technology

RobInspect Surface Inspection, Gap & Flush, 3D Inspection



“There are people who change industrial
measuring technology.
Because they see further and think further.”

Sigrid and Peter Bogner



Exact is better than exactly.

As a family-operated, technology company for industrial measuring technology with long-term orientation, minikomp GmbH has been a partner for the development and production of integrated automation systems as well as innovative special machines and systems for industrial inline measuring technology since 1998. Our objective is to strengthen the competitiveness of customers and partners in the markets.

As a versatile team of over 70 experts and specialists in the 3 product areas of **RobInspect**, we dedicate ourselves to this task with passion and joy. minikomp supports its customers from process design to after-sales service and customer service.

Our cherished values, partnership, versatility, quality, precision form the foundation for the FACTS of **RobInspect** by Minikomp.

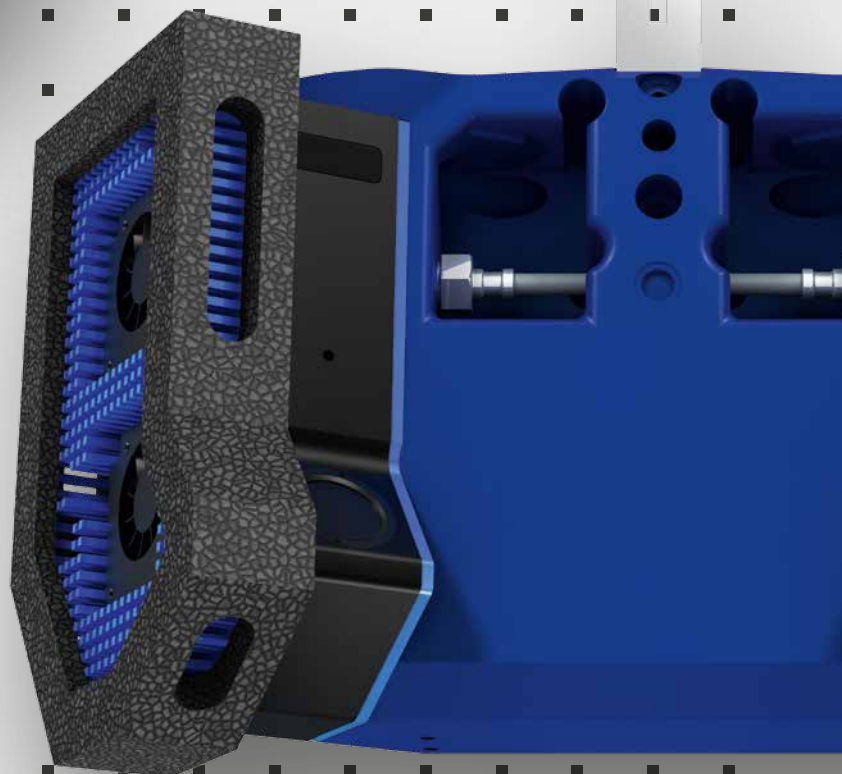
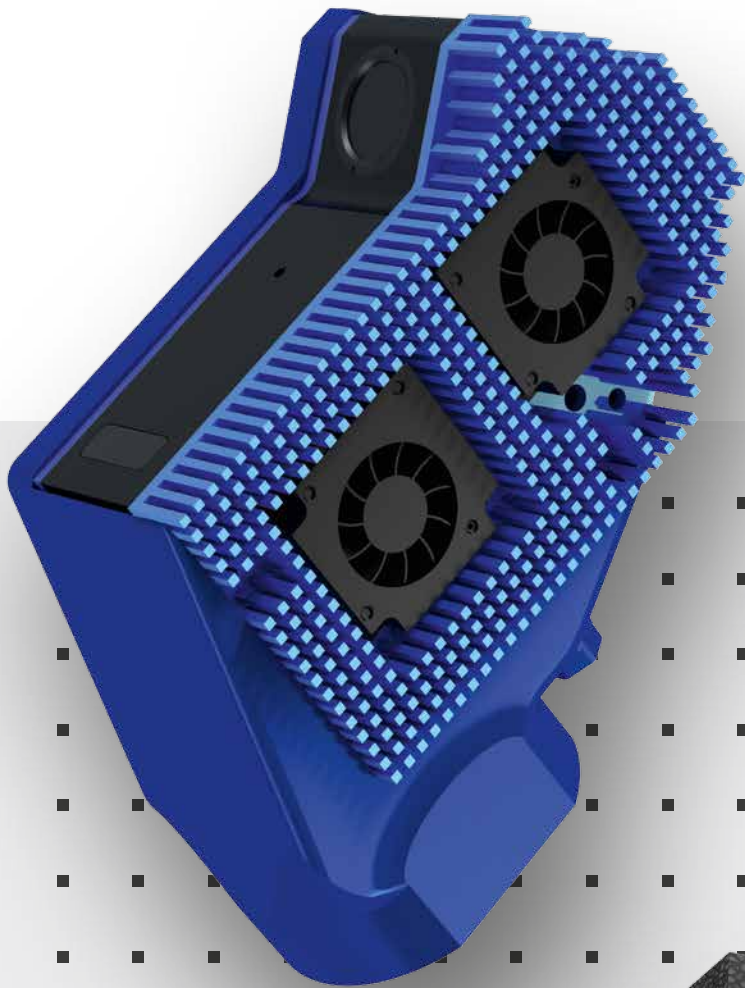


Challenges wanted!

**The more difficult the measuring tasks,
the more important the partners are on
your side!**

In the capital goods sector, long-term reliability and future sustainability play a decisive role. **RobInspect** was developed by minikomp under this premise. **RobInspect**, with its 3 areas for **Gap & Flush, Surface Inspection and 3D Inspection** is the measuring system of the future. Fast, precise and contact-less, **RobInspect** can be used in areas ranging from parts inspection, CAD comparison, reverse engineering to 3D documentation. The fact that it's inline goes without saying. By moving the scanner using robots, 100 percent repeatability of the measuring process can be guaranteed. Our robots can be operated by measuring technicians. Including the analysis.

RobInspect's programming and control takes place using minikomp's proprietary software. After a brief instruction, the first measurement can take place. Analyses can be carried out independently after one day of training.



Surface Inspection.

Operating the future.

Control of flat components – without component preparation

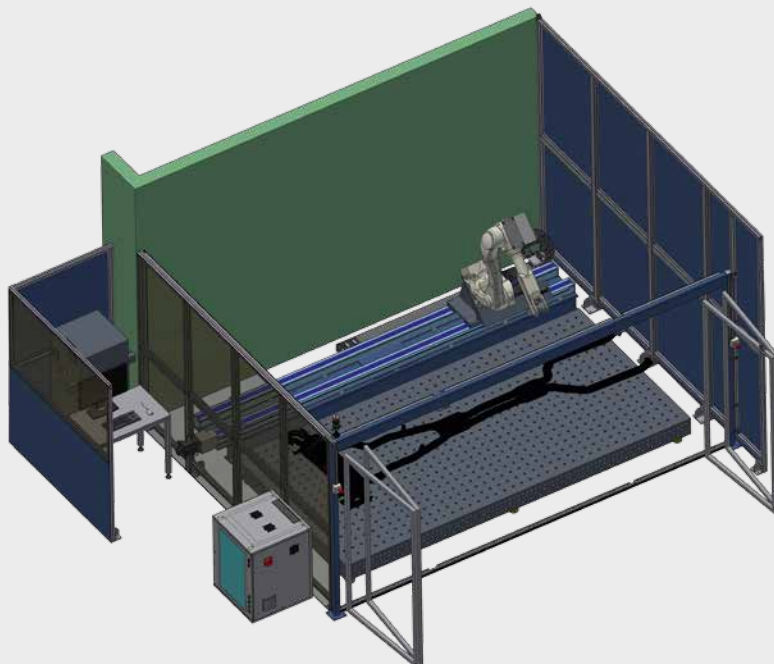
The inline-capable **RobInspect Surface Inspection** system reveals faults such as dips, bumps or other abnormalities in the surface with the help of 2D sensor technology.

Diving into the depths of data

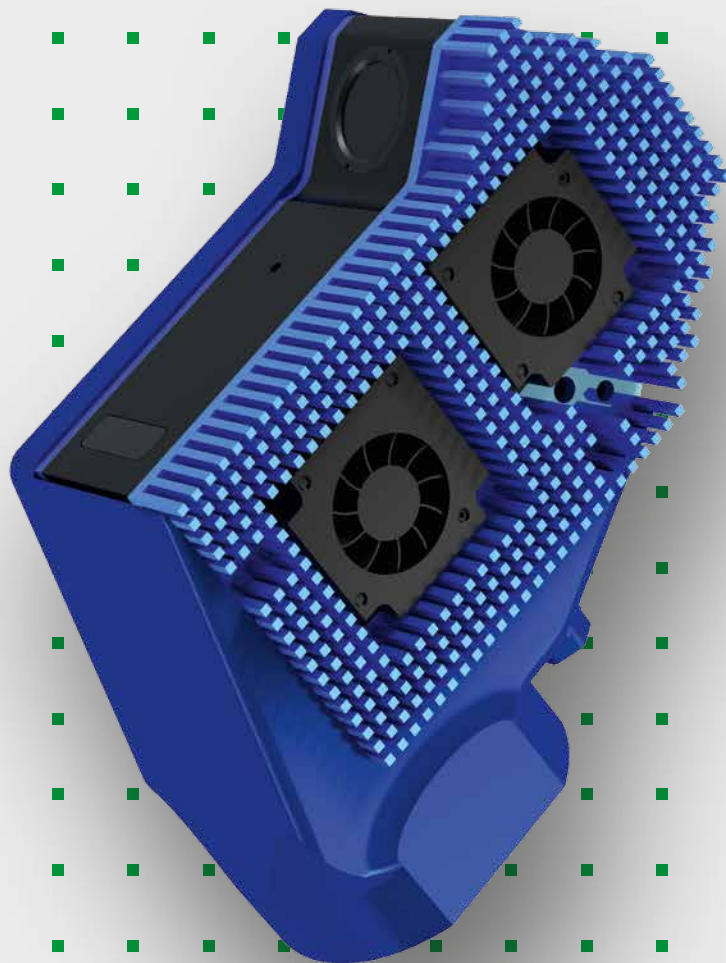
Such flaws are marked and passed on for further analyses or forwarded directly to quality control to ensure fast repair and restoration work.

True strength can be seen in the whole. Of course **RobInspect Surface Inspection** can also be integrated in your production line. Thanks to its adaptability, **RobInspect** can be adjusted to different geometries. Low clock times will not impair your clock frequency. Industrial robots can be used online, offline or nearline. The system is not dependent on materials and detects dents, bumps, cracks or impurities.

A report or documentation can be provided for every component.



Technical Data Surface Inspection			
Measuring width	80 mm	Material and surface	all materials
Measuring distance	80 to 210 mm	Resolution in Z-direction	14 μm
Measuring frequency	up to 500 Hz	Resolution in Y-direction	50 μm
Measuring points	2,000 per line	Accuracy	up to $\pm 0,01$ mm



Gap & Flush.

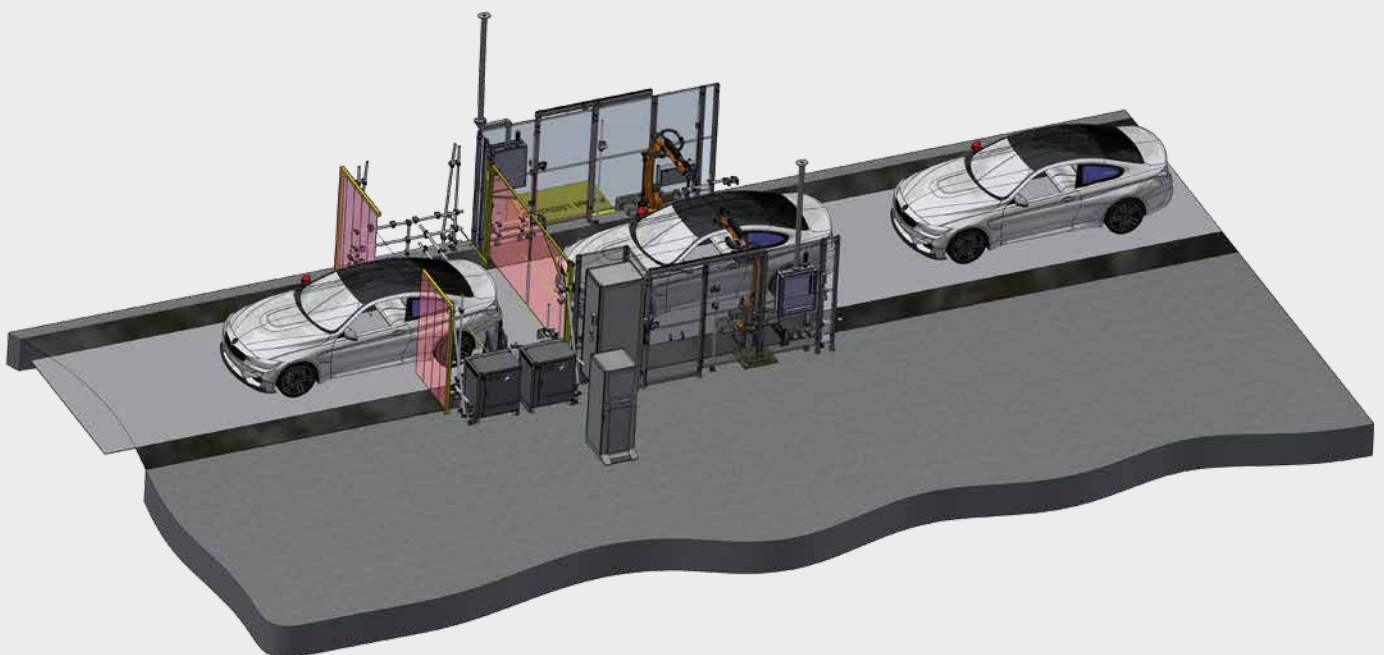
Strength in versatility.

Malleable automated measurement of gap and joint sizes

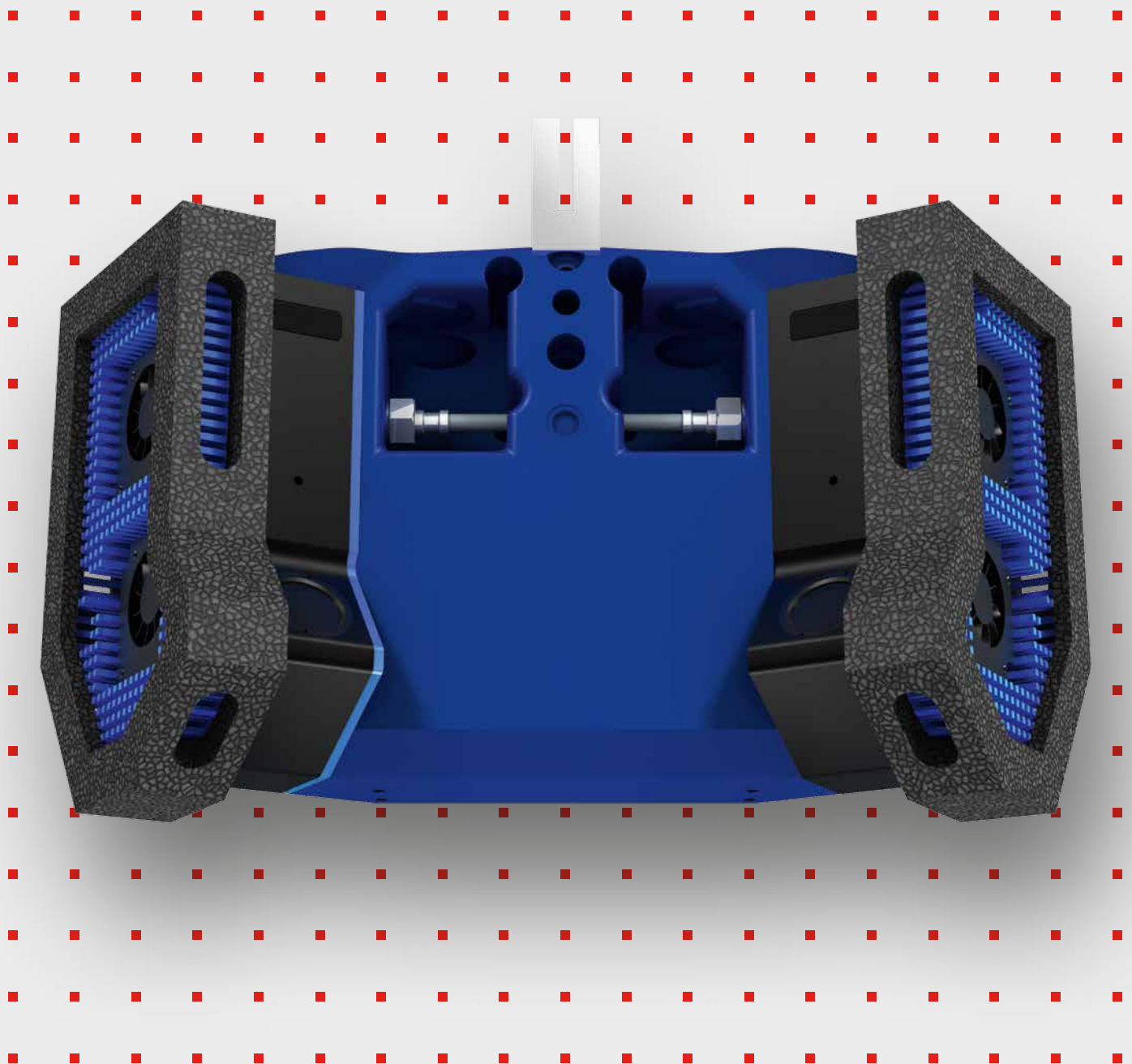
The innovative **RobInspect Gap & Flush** laser technology makes it possible to measure the entire bandwidth of materials, surfaces and curvatures. And all that without any prior treatment of the component. Using the **RobInspect** stereo sensor head ensures that both gap and joint sides can be recorded completely. Even for moving test objects.

Irrespective of robot brands, **RobInspect** guarantees separate measurement and analysis of measurements carried out in short succession. The large line laser measuring area even allows 100 percent measurements given imprecise positioning. Online, offline or nearline measurement of large gaps up to the 0-gap is possible. Measurements are carried out using the stereo sensor principle and are possible in any lighting environment and on all surfaces and materials.

We plan your measuring cell and will also commission it with you.



Technical Data Gap & Flush			
Measuring width	80 mm	Material and surface	all materials
Measuring distance	80 to 210 mm	Resolution in Z-direction	14 μm
Measuring frequency	40 Hz	Resolution in Y-direction	50 μm
Measuring points	4,000 per line	Accuracy	up to $\pm 0,01$ mm



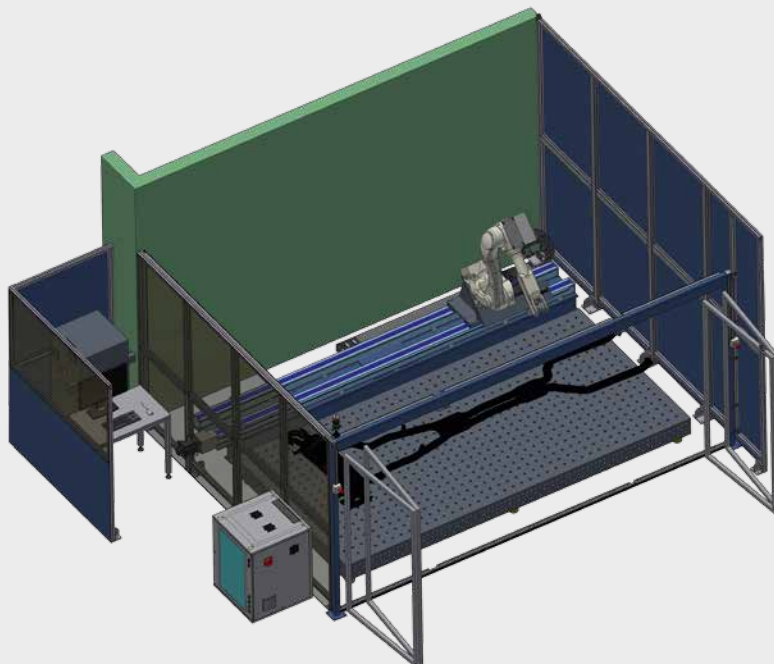
3D Inspection.

Contact-less perfection in movement.

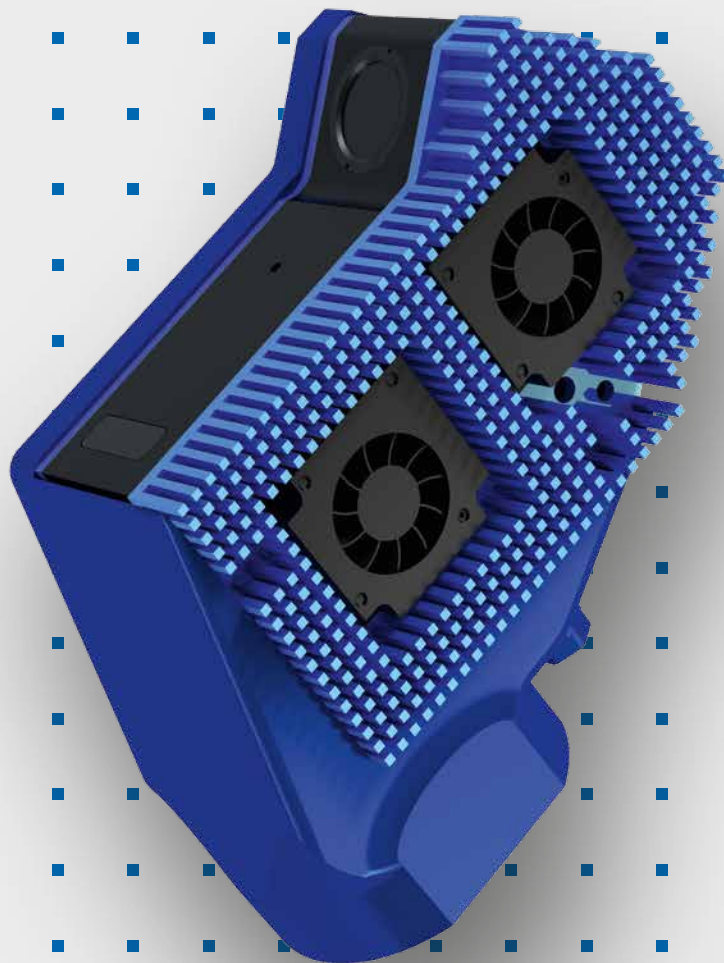
Resource-efficient manufacturing processes are an aspirational goal in the industrial manufacturing sector. With **Robinspect 3D Inspection's** 3D inline measuring system, it's possible to have a measuring and testing system directly integrated into the line or the machine. **Robinspect 3D Inspection** makes early, comprehensive, cycle-dependent testing and monitoring possible. Immediate responses prevent high scrap costs and faulty components.

This makes process control and quality control faster, more exact and more precise.

Measuring technicians perform the programming so that analyses can be prepared independently to suit customers' needs and requests. The scanner is controlled by a robot. This ensures repeatability and 100 percent accuracy of the scanner control.



Technical Data 3D Inspection			
Measuring width	80 mm	Material and surface	all materials
Measuring distance	80 to 210 mm	Resolution in Z-direction	14 μm
Measuring frequency	up to 500 Hz	Resolution in Y-direction	50 μm
Measuring points	2,000 per line	Accuracy	up to $\pm 0,01$ mm



High precision with short test times. And inline.

Robot data:

- 2 robots with a range of 900 to 2,100 mm jib length available
- These can also be mounted on intelligent linear axes, ceiling- or floor-mounted to significantly increase flexibility in operation
- This makes travel up to 12 meters possible
- Weight from 35 to 230 kg
- Maximum speed at the mid-point of the tool flange 9,300 mm/s to 11,500 mm/s
- Floor- or ceiling-installation possible
- Measurable materials: all materials – even glass, carbon, chrome, polycarbonate and transparent materials

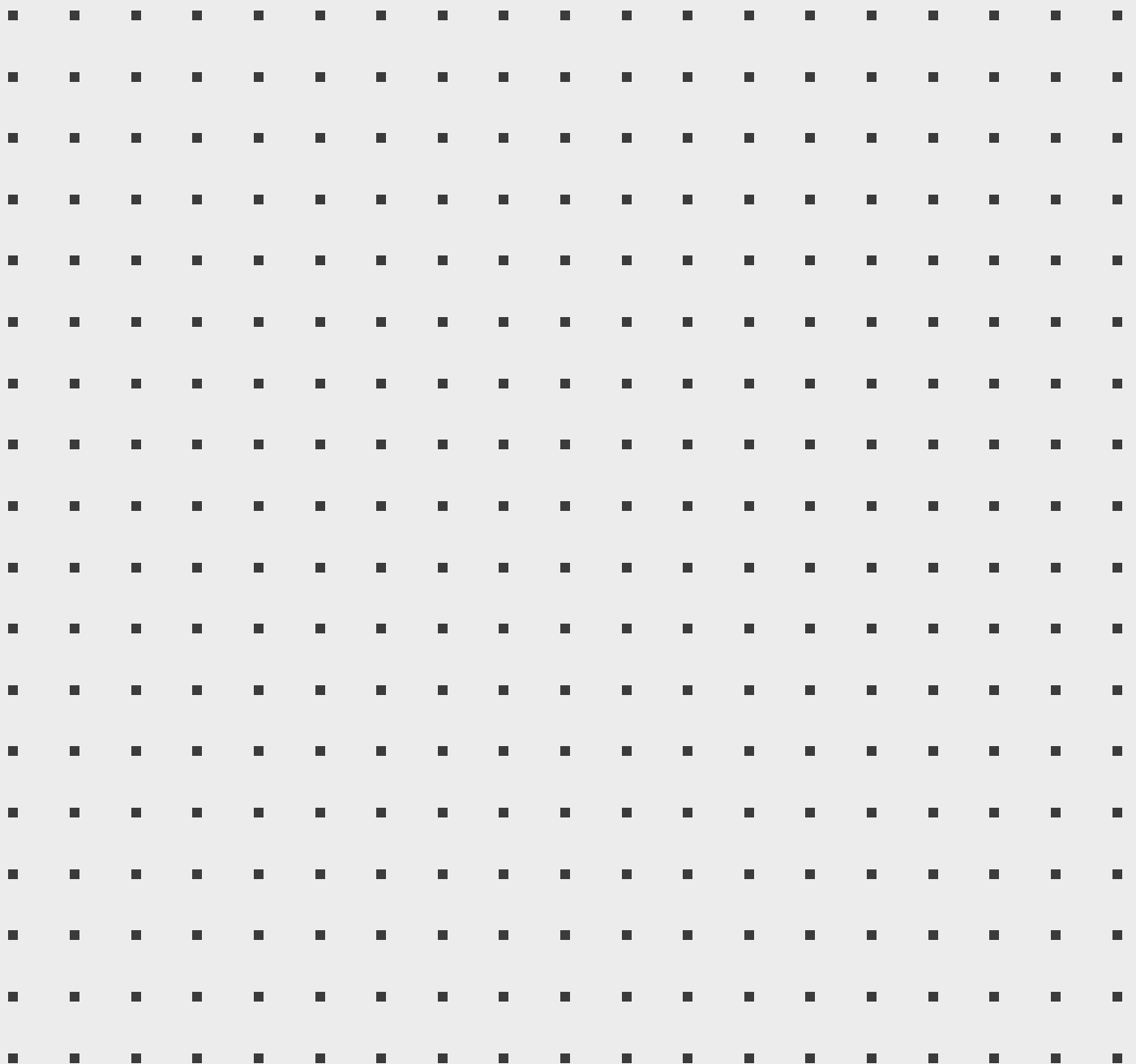
Onward to new challenges!

Let us find the optimal inline measuring technology together.

The versatility and the possibilities of **RobInspect** for demanding measuring technology are impressive. Whether it is **RobInspect Gap&Flush, Surface Inspection or 3D Inspection** – the variation of the execution is large, while **RobInspect's** solutions by minikomp are always the same: Open, modular, and everything that is needed is integrated and inline.

The increasing complexity of machines, systems and lines, new security requirements, increased expectations with regard to efficiency, ease of use and secure investment – all these are challenges that can be met. And the best way to meet them is through a partnership collaboration from expert to expert.

We look forward to finding out about your challenge and, if you wish, to a good collaboration.



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