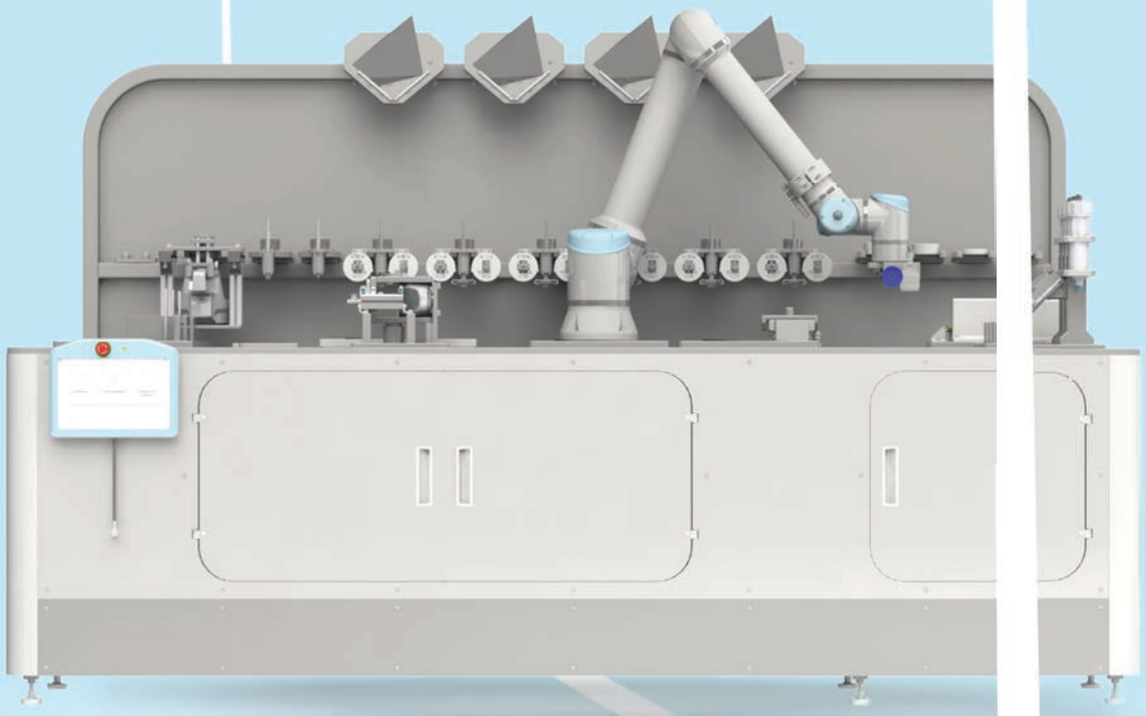
KONICA MINOLTA

CoboSense

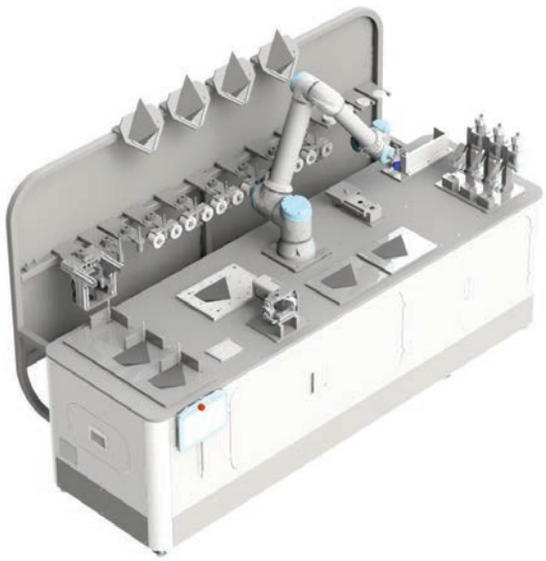
MULTI-APPLICATION COBOT PLATFORM AUTOMATING SURFACE INSPECTION & TESTING WORKFLOWS



- Industry 5.0-ready
- Collaborative and autonomous
- Safe and ultra-precise
- Modular and flexible testing setup
- Unlocks smart manufacturing ROI

Giving Shape to Ideas

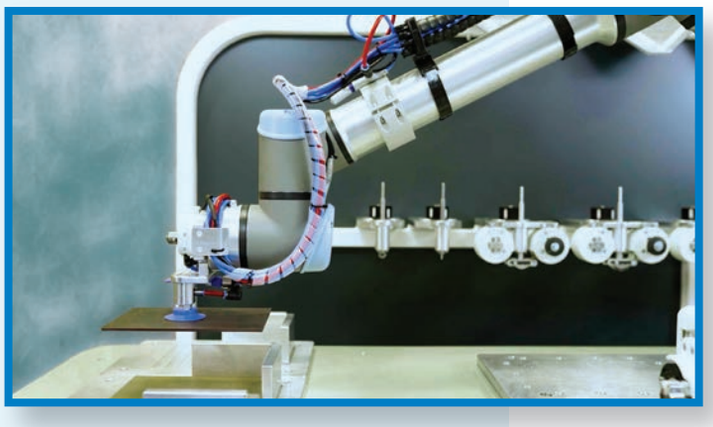
SCRATCHY



Meet **CoboSense,** Your Automated Testing Co-worker

OPTIMIZING WORKFLOWS

CoboSense is an innovative cobotic solution automating visual quality inspection workflows such as scratch, mar, and abrasion resistance in a safe and collaborative way. It frees up valuable time for testers to focus on more value-added activities.



ADAPTING TO YOUR NEEDS

CoboSense is flexible and scalable. The cobot platform can be customized to your testing processes using different Plug & Play modules and End-of-Arm Tools. It can execute the desired workflows in adherence with the necessary surface quality inspection standards.

SAFE AND EASY TO SET UP

CoboSense requires minimal safety prerequisites and no coding skills. The cobot arm is configured manually by guiding it to the desired positions. Using a tablet-like device, CoboSense can be programmed to perform the required testing tasks with little to no supervision.

STREAMLINE SURFACE QUALITY INSPECTION

The modern architecture of CoboSense allows for remote control and frictionless integration into your existing workflows. No matter if it is a high-mix one-task-production or simple mass testing, CoboSense is your key to the manufacturing of the future.

BENEFITS

- Saving up to **95%** of employee time
- More than **2x** faster
- More than **2x** throughput
- More than **4x** increase of cost efficiency*

APPLICATIONS

Testing and inspection of all kinds of

- Scratch
- Abrasion
- Mar resistance
- and other surface properties

UNPARALLELED PRECISION

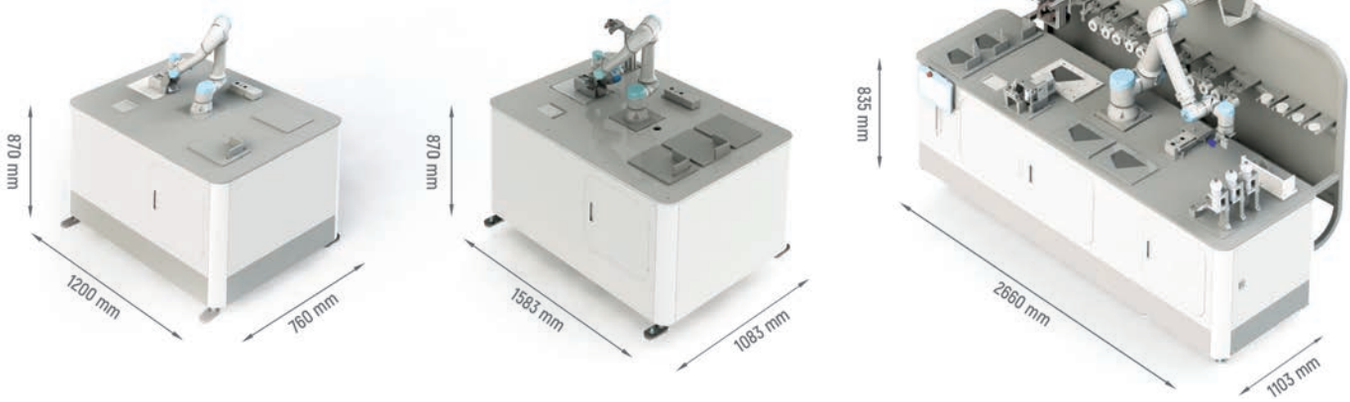
CoboSense is proven to deliver optimal precision at the measurement instrument performance limits and without positioning errors.

DIGITIZED DATA & REPORTS

Set the tasks in batches for CoboSense and get a detailed report with digitized data overnight – accurately and automatically.

* The above stated efficiency results are based on customer feedback and can vary depending on the inspection workflows.

PRODUCT LINE-UP



CoboSense BASE	CoboSense 1.0	CoboSense 2.0
SPECIFICATIONS		
Table dimensions: L 1200 x W 760 x H 870 mm (with legs) **Robot arm:** **Payload:** 5 kg **Reach:** 850 mm **TCP Speed:** 1 m/s	**Table dimensions:** L 1583 x W 1083 x H 870 mm (with legs) **Robot arm:** **Payload:** 5 kg **Reach:** 850 mm **TCP Speed:** 1 m/s	**Table dimensions:** L 2660 x W 1103 x H 835 mm (with legs and back) **Robot arm:** **Payload:** 12.5 kg **Reach:** 1300 mm **TCP Speed:** 1 m/s
FEATURES & FUNCTIONALITIES		
	CoboSense 1.0 and 2.0 contain all base features and have been upgraded respectively with:	
Surface appearance measurement	Fully automated batch testing	Multi-sensor functionality
Single sensor, one sample at a time	Up to 2 automated manipulation tools, up to 4 standard testing procedures	Up to 8 automated manipulation tools, 10+ testing procedures
Raw data and reports in standard formats	Full report generation and integration available	Fully automated calibration and manipulation workflows
Application flexibility, mobile testing setup	Flexible inspection workflow programmable	Automated tool and sensor changing
	Automated sample identification	Remote testing and inspection possible

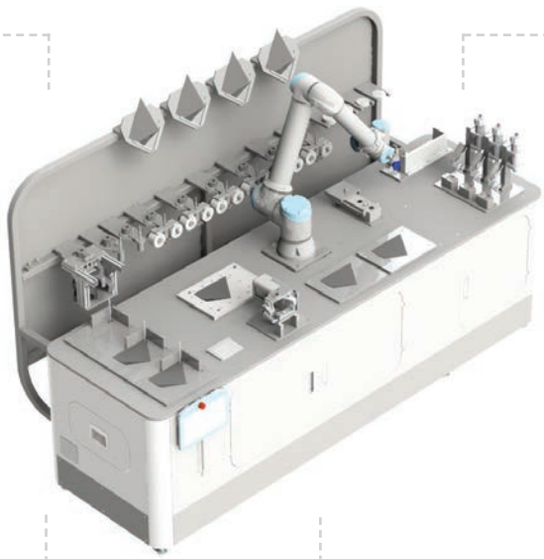
The CoboSense platform can be customized to your specific testing needs.

CoboSense
ENABLED DEVICES

PORTABLE & MULTI-ANGLE SPECTROPHOTOMETERS

DISPLAY COLOR ANALYZERS

HYPERSPECTRAL CAMERAS



TEXTURE & 3D PROFILOMETERS

LEAK DETECTORS

LACQUER & SHEET THICKNESS MEASUREMENT DEVICES

INDUSTRY SUITABILITY

Manufacturing

Automotive

Display

ICT

Paints & Coatings

Textile

Recycling

Food

Pharmaceutical

Mining

Laboratories

R&D and more...

Embrace Industry 5.0 powered by CoboSense

CoboSense can be integrated into different kinds of testing workflows and almost any setup. It adapts to the respective visual quality inspection standards and can be scaled to suit various automated production processes.

With CoboSense by your side you will:

- Automate surface quality inspection workflows and repetitive tasks
- Optimize cost, time, and work efficiency
- Digitize test and inspection workflow data
- Increase your company's competitiveness

CoboSense
YOUR AUTOMATED TESTING CO-WORKER

Want to make an inquiry? Just contact us:

Konica Minolta Sensing Europe B.V.
cobosense@konicaminolta.eu
+43 676 87882 1928

For the latest contact information, please refer to the KONICA MINOLTA Worldwide Offices web page:
www.konicaminolta.com/instruments/network

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Registration Date : October 26, 2018
KONICA MINOLTA, Inc., Sakai Site
Product design, manufacture/manufacturing management, calibration and service

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Registration Date: March 12, 1997
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