



excellence in machine vision & robotics

SWISS  MADE

## AUTONOMOUS INSPECTION SYSTEM

Compar offers autonomous test cells. Our customers rely on universal parts handling, flexible palletising systems and sophisticated inspection cells, consisting of the three key components of supply unit, robot and image processing unit.

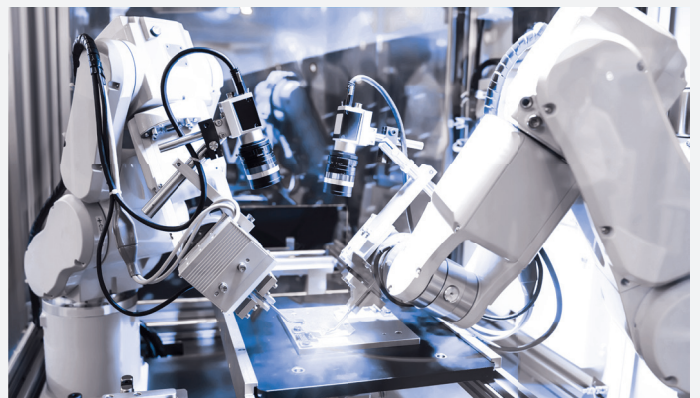
### MORE PRODUCTIVITY

Diversity of handling large and small parts. Waste reduction by means of quality control, high system availability thanks to standard components.



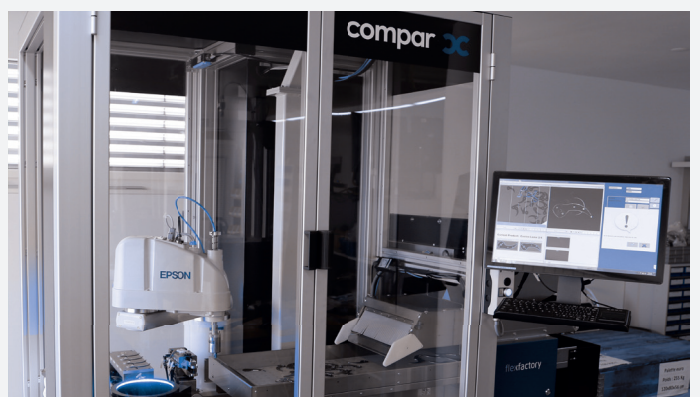
### MINIMUM CHANGE-OVER

Product changes without requiring mechanical adjustments.



### EXPANSION OPTIONS

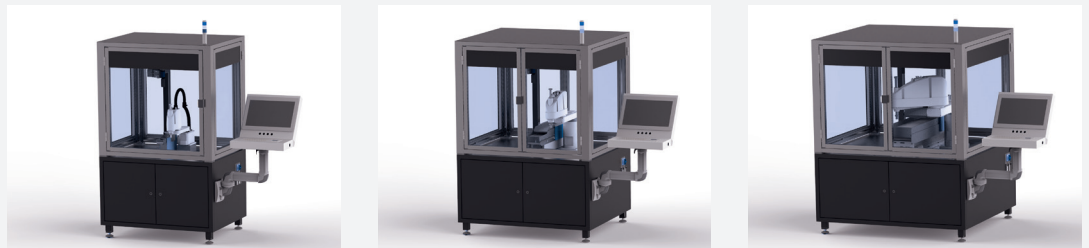
Robotic parts handling, optical control according to customer-specific test criteria.



# autonomous inspection systems from Compar ensure more productivity in production and reduce reject costs

Parts for inspection - as bulk material or prepositioned - are supplied to the test cell manually or by means of a conveyor system. The robot fetches the incoming parts and places them in single or multiple test stations.

Depending on the chosen cell size, test stations can be placed in the robot's work area or arranged around linear or rotary transport stages. In the vision stations the parts are inspected according to customized test criteria. Identification, 2D/3D measurement, print inspection, assembly completeness verification, soldering inspection, or OCR/OCV reading of production labels and data are just a few examples of inspection tasks our **VISIONexpert®** machine vision software can perform in an efficient, stable, and infinitely customizable manner.



Criteria / models	Small	Medium	Large
Cell size (table height 955 or 710mm)	1200*1000 mm	1400*1200 mm	1600*1400 mm
Feed and discharge systems	Blisters, pallets, feeder	feeder / conveying systems	feeder / conveying systems
Part size	up to 25 mm	up to 75 mm	up to 150 mm
Performance	from 10 parts / min. up to 120 parts / min. (1)		
Robots	EPSON Scara G1, G3 / Prosix C4	EPSON Scara G3, G6 / Prosix C4	EPSON Scara G6, G10 / Prosix C8
Process automation	Pallets and blisters	Rotary table, linear stage, conveyor belts etc.	Multiple robots, rotary table, linear stages, conveyor belts
Robot positioning repeatability	from 0.005 mm	from 0.008 mm	from 0.015 mm
Vision system	VISIONexpert® PC based machine vision software		
Machine vision highlights	Teach-in mode, integrated product management, production statistics, audit trail, CFR 21 Part 11,		
Inspection tasks	Identification, OCR / OCV, 2D / 3D measurement, assembly, print and surface inspection		
Power supply	230 V / 13 A		

Cell setup options	Lite	Standard	Cleanroom
Special implementations possible (e.g. table top version, cell frame)	Substructure without enclosure, control cabinet in substructure	Cell frame with clear panels for visibility	Cleanroom compatible cell frame and components
More options	Rotary table, feeding systems, belts, tray handler (stacker), laminar flow box, etc.		

(1) Depending on the part geometry and part texture. Get in touch with us for quick feasibility feedback (handling and cycle time).

## REALIZED APPLICATIONS / EXAMPLES / MARKETS

watch making



packaging



medtech



automotive



pharma



non industrial

