compar

excellence in machine vision & robotics

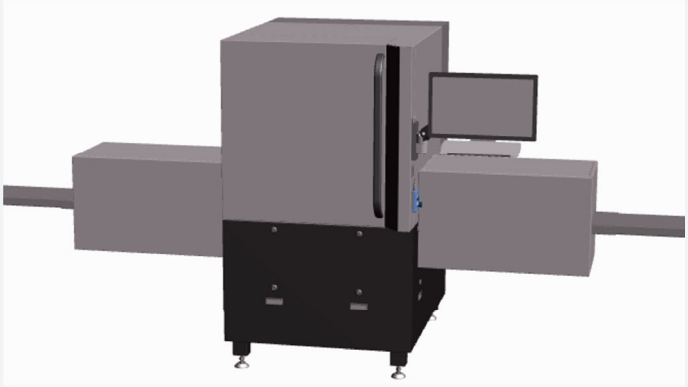
SWISS MADE

X-RAY INSPECTION SYSTEM

X-RAY technology allows us to inspect features which are typically hidden from view. In addition, Compar uses the latest technology, also known as “direct conversion - photon counting technology”, to build complete X-RAY systems. With the advantage that a very high resolution can be achieved. Even smallest differences can be detected and made visible. In combination with classical image processing, this provides a comprehensive inspection.

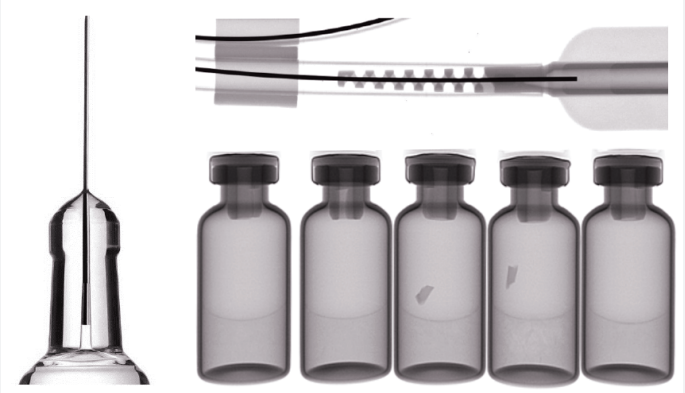
COMPACT, FAST, PRECISE AND HIGH RESOLUTION

Compact X-Ray system which produces precise and high-resolution images to detect and evaluate smallest details. In addition, the system fuses classical image processing with X-RAY data.



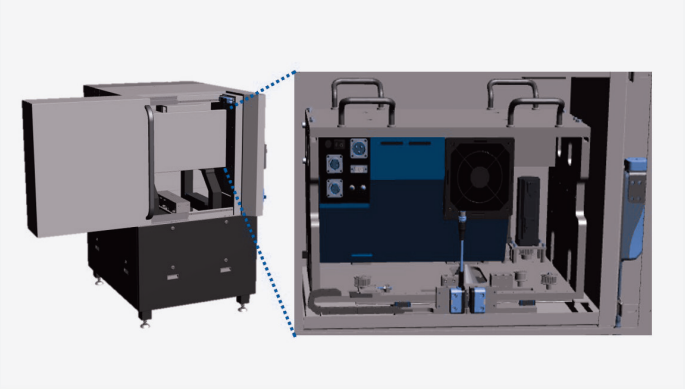
HUGE VARIETY OF PART INSPECTION

Thanks to the excellent cell design, the X-RAY inspection allows for a wide range of parts.



MODULAR STANDARD CONCEPT

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



X-RAY technology allows us to inspect features which are typically hidden from view.

The main features of X-RAY inspection are seal integrity and completeness, end-of-line inspection of packaging and dimensional inspection of inlay metal structures on plastic parts (Medtech proofed).

The Compar X-RAY system is characterized by its ability to cover a wide range of parts, from small to large parts. Of course, the Compar X-RAY system complies with all necessary guidelines and meets all relevant standard norms.

In addition, the X-Ray system can be quickly and cost-efficiently equipped with further modules due to the modular concept. Also available as an offline laboratory or inline system. Finally, the system is characterized by high availability and is extremely low-maintenance.

Specifications / models	**Small**	**Medium**	**Large**
Cell size (table hight 955 or 710mm)	1200*1000 mm	1400*1200 mm	1600*1400 mm
Energy (dual energy)	0 kV to 110 kV		
Part size (depending on material)	up to 150 mm	up to 350 mm	up to 700 mm
Minimal defect detection size	down to 5 um		
Performance	from 10 parts / min. (1)		
Vision system	VISION***expert***® 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, 2D / 3D measurement, assembly, print and surface inspection, OCR / OCV		
Data communication	I/O, TCP/IP, OPC, Fieldbus, Database, Reports, etc.		
Validation and support	FS, TM, FAT, SAT, IQ, OQ, PQ, etc.		
Power supply	230V / 13 A		

Acreditations » Switzerland » Ireland (pending) » Other countries	Compar is officially accredited by the BAG (OFSP) Each country has their own guidelines Compar can deliver machine to most countries (incl. US)
Operator Accreditation	The operator of the system (customer) must have a permit in his own country
Reglementation	21 CFR Part 11 compliance

(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