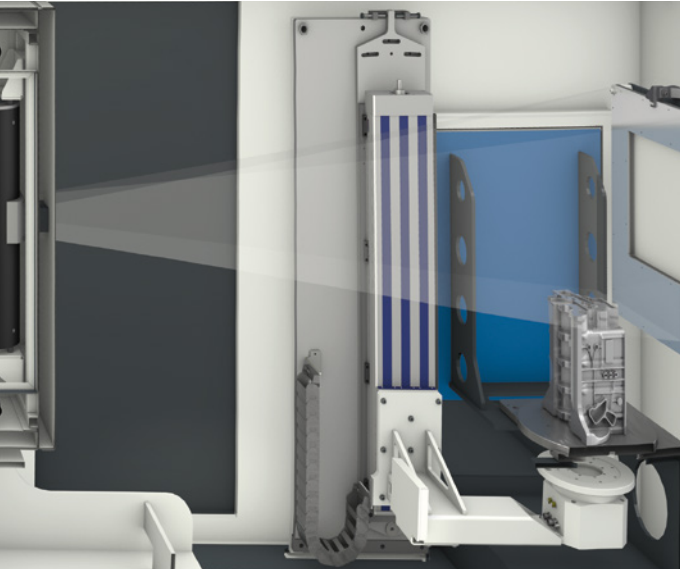


HeiDetect FX InlineCT



FULLY AUTOMATIC
INLINE CT SYSTEM

HeiDetect FX InlineCT



Fast – flexible – efficient

With 450kV acceleration voltage and a possible inline inspection time of less than 60 seconds, the HeiDetect FX InlineCT is probably the fastest inline CT system for the inspection of large volume components.

Flexible and fully automatic

The HeiDetect FX InlineCT is a fully automatic inline CT inspection system for workpieces with different sizes and weights, for example cylinder heads, crankcases, gearboxes and structural components.

The system consists primarily of a compact X-ray cabin with a linear shuttle for workpieces, a lift/rotating unit for the CT scan as well as a detector and an X-ray tube, which can be adjusted to the inspection task.

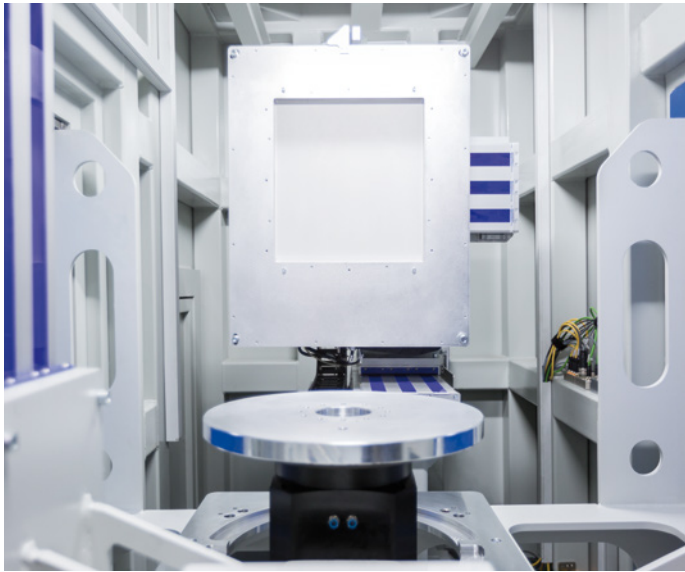
With the automatic image capturing and analysis software for 3D inspections, an analysis of the data is possible by the customer itself. New workpiece data can be entered and workpiece changes can be edited on site by the customer.

The Volume Graphics framework can be used for a clear operation of the analysis.

Your advantages

- › 100% inspection directly in the production line
- › Reduction in rejects through determination of the form and position of defects before processing
- › Expandable system concept customised to the customer definitions
- › Software for automatic inspection and component changes
- › Data connection to graphic reporting systems possible
- › Separation of production process and CT inspection process possible
- › Realisation of a start-up curve without influencing production
- › No changes on factory-side workpiece carriers necessary
- › Simple construction of the CT components (few moving parts)
- › Stationary X-ray source, no moved HV cables or similar
- › No complex structures in the radiation shielded cabin
- › Detector with linear movement by +220 mm (optional for larger components measurement extension)
- › Compact radiation shielded cabin, space-saving in production
- › Inline CT and automation from one source

FULLY AUTOMATIC INLINE CT SYSTEM



Technical data

Test system		Detector (Perkin Elmer XRD 1642)	
Length	4,050 mm	Active surface	16" x 16" (approx. 406 mm x 406 mm)
Width	4,200 mm	Pixel size	200 µm - 400 µm (edge length)
Height	2,550 mm	Detector (Fraunhofer XEye 5040)	
Weight	25 t	Active surface	500 mm x 400 mm
Max. test part size	Height: 700 mm Width: 620 mm (to feed in) Rotation diameter: 720 mm (655 mm*)	Pixel size	50 µm - 400 µm (edge length)
Resolution	up to 150 µm voxel edge length	X-ray tubes	
Fully automatic 3D data analysis		COMET MXR-225 HP/11 (225 kV, 1.8 kW)	
Standard framework from Volume Graphics with integrated analysis algorithm from Fraunhofer		COMET MXR-320 HP/11 (320 kV, 1.8 kW)	
		COMET MXR-451 HP/11 (450 kV, 1.5 kW)	
		Other tubes on request	

*If part has to fit fully on detector





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