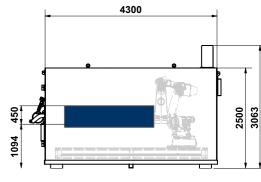
Rapid

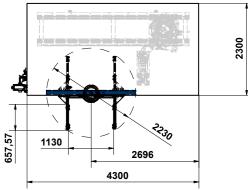
ECO R.160 ECO R.225



- High throughput optimization enables speed
- Flexibility due to many features and options
- Loading by robot or operator possible
- Optimized for ADR operation
- Equipped with reliable industrial robot (Standard: ABB)

- Universal part table allows rapid changeover between parts
- ✓ Can be integrated into factory IT (MES/ERP)
- Inspection of a single large part, or several smaller parts at once
- Possible to load manually or by robot
- Automation interfaces available





ECO R.225

The ECO R. is equipped with a robot inside the cabinet. A universal part table allows rapid part changing, where single parts, as well as several parts, can be inspected at the same time. The table is loaded from the outside of the cabinet either manually or by a second robot to achieve a fully automated system. The ECO R. is available with 160 or 225 kV, and comes with Automatic Defect Recognition (ADR).



Weight	16000 kg	19000 kg			
Dimension	4300 x 2300 x 2500 mm				
77-1	00 x 400 x 1150 mm				
Parts envelope	and 200 x 400 x 1800 mm				
Tilt axis	+-35°				
Lift axis	1200 mm				
Magnification	1,1 x -2 x				
Part weight	Max. 30 kg				
Energy	160 kV	225 kV			

ECO R.160



> Comprehensive image processing

- All ECO systems run with proven Xplus image processing and control software
- Includes a broad variety of image enhancement tools for unmatched clarity
- The VCxray LiveFilters ensure a realtime image enhancement similar to FLASH or HDR filters
- ▼ Easy annotation and overlay functionalities
- All software functions can be automated using inspection sequences and macros
- Multi language support

➤ Automated Defect Recognition (ADR)

- All ECO systems are ADR capable (Standard for ECO R.)
- Allows to detect defects like porosities
- Including an ADR offline programming toolbox
- Evaluation criteria like defect size, defects per area, distance between defects etc. can be defined

Automatic detection of defects through advanced image processing or Artificial Intelligence (AI) algorithms can offer significant savings. VisiConsult has over 25 years of experience in this field and has a comprehensive in-house developed ADR toolbox. It fulfills international quality standards like ASTM, as well as the demanding company standards in the automotive industry. Typical ADR applications include the detection of porosities, inclusions and cracks, as well as geometric measurements and feature recognition. It is possible to define specific ROIs to check many metrics like density, distance, size, occurrence per area and many more tools that can be dynamically defined. Training of the system does not require any programming skills and can be adapted by our customers.



➤ Premium X-ray sources

The ECO line provides a broad range of premium X-ray modules designed for integration, matching your needs and specifications. From 160 to 450 kV and a focal spot of $d=0.4\,\text{mm}$. Standard modules come from VCxrays partner COMET and are manufactured in Switzerland.

> Excellent Detectors

	DDA0505J	DDA0909M	DDA1012M	DDA1717M	DDA1717HE
Active Area	130 x 130 mm	210 x 210 mm	250 x 301 mm	427 x 427 mm	426 x 426 mm
Pixel Pitch	85 µm	205 μm	100 μm	139 µm	100 μm
Frame Rate	20 (1x1) 40 (2x2)	30 (1x1) 60 (2x2)	10 (1x1) 20 (2x2)	6 (1x1) 12 (2x2) 18 (3x3)	10 (1x1) 20 (2x2) 30 (3x3)
Pixel Matrix	1536 x 1536	1024 x 1024	2496 x 3008	3072 x 3072	4260 x 4260

> Computed Tomography

- Dimensional Measurement and Reporting
- Assembly Verification and Visualization
- External and internal measurement
- ✓ Foam Analysis
- Defect Detection
- Fiber Flow Analysis
- ✓ Failure Analysis



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