

## OPC + RingControl for ColdEnd Control (CEC)

The Scheurich OPC and Ring Inspection System ensures a high production quality of OPC, Score Ring, Color Break Ring and Code Rings. In addition there are two monitoring windows for Cosmetic Defects such as paint splatters next to the OPC- the so called “satellite points”. The advantages of the system are:

- ✓ complete 360° degree inspection through rotation of the ampoule
- ✓ high professional illumination level for best camera pictures
- ✓ increase of production quality through an high resolution camera “made in Germany” in combination with an effective sorting control
- ✓ the mechanical lift up system with its high speed rotation motor ensures an economical and productive production of ampoules (>90 Amp/min)
- ✓ fast detection of OPC + Ring errors incl. reduction of scrap
- ✓ connectable to MRS-Win and other MES systems for process documentation, statistics and process tracking data

## The system controls following areas and dimensions:

### OPC:

cut width, cut length  
distance bottom - upper edge cut  
distance upper edge cut - upper edge point  
diameter x point, diameter y point  
distance bottom - upper edge point  
axe cut – point / cut exists, point exists  
check for paint splatters (satellite points)

### ScoreRing:

distance bottom - upper edge Score Ring  
width Score Ring  
Score Ring exists, Score Ring complete  
cosmetic defects in the Score Ring window

### ColorBreak Ring (CBR):

distance bottom - upper edge CBR  
width Color Break Ring (CBR)  
CBR exists and complete  
cosmetic defects in the CBR window

### CodeRings:

distance bottom - upper edge Ring 1/2/3/4  
width Ring 1/2/3/4  
Ring 1/2/3/4 exists, Ring 1/2/3/4 complete  
Cosmetic defects in the Ring window

### Cosmetic:

Two additional windows to detect cosmetic defects.

### Dimensions:

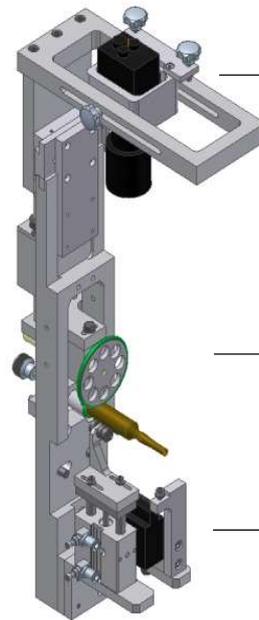
Camera incl. mechanical support  
W 180x H 650x D 350 mm  
Weight (approx.): 13 kg

Please note that some features are optional even if not specially mentioned. Modifications are without prior notice  
Status: 2020-05-05-F

Next to the **OPC + RingControl** following solutions are offered in addition\*

- ✓ **PrintControl**
- ✓ **HotEnd Inspection and Regulation**
- ✓ **BreakForceTester (BFT)**
- ✓ **FirstPiece Compensation (FPC)**
- ✓ **OPC – Cutter System**
- ✓ **MES-System MRS-Win**

\*As complete provider of Hot- and ColdEnd inspection plus networking system, there is only one data interface for all data from the complete ampoule production line. **The signal exchange between all participants creates a maximum of data transparency.**

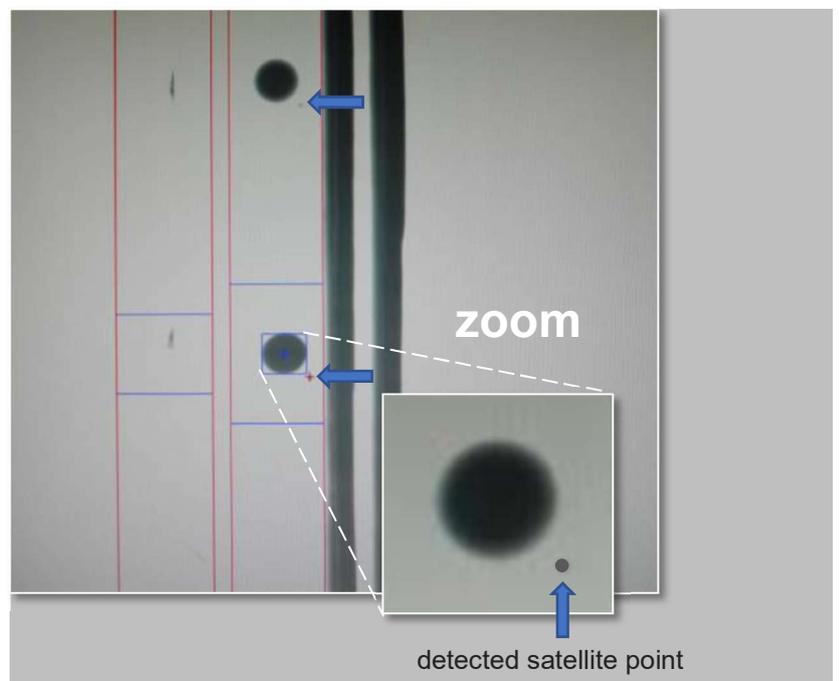


high resolution camera professionally fixed with adjusting screws

rotation motor as technical requirement for lift up and rotation

lift up system incl. mechanical rotation and a high professional illumination source

The combination of high resolution camera and 360° inspection ensures a high-quality ampoule inspection also for fast productions with 90 ampoules per minute or more



Paint splatters next to the OPC also called “satellite points” are detected by the high resolution camera of the Scheurich OPC + RingControl