



**OEG**

Optik  
Elektronik  
Gerätetechnik

## ■ RINGINSPECTOR

The RINGINSPECTOR provides a high quality image of the inside surface of all kinds of ironing dies.

Using a high quality stereo zoom microscope and a special illumination, a high contrast image is created. The mechanical setup enables the exact positioning of the die. The ring is positioned on two stops, which allows the rotation of the ring very easily. During rotation the inside surface remains constantly in the image plane of the microscope. The microscope can be adjusted to all ring types.

The RINGINSPECTOR provides fatigue free and detailed inspection of the inside surface quality of each kind of ironing die.



**OEG**

**Optical measuring equipment for  
beverage can manufacture**

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## News

The standard for accuracy:  
Optical measuring and  
test equipment for beverage  
can manufacture from OEG



## ■ RINGMASTER

RINGMASTER provides optical, non contact measurement of inside and outside diameter of ironing dies. The setup is specialized for the use in beverage can manufacture. Since the introduction of the equipment the RINGMASTER was installed in more than 30 plants worldwide.

Because of different needs of customers OEG has developed different types of instruments:

1. The ID-type provides measurement of inside diameter and roundness of inside diameter
2. The IOC-type provides measurement of inside and outside diameter, roundness of inside and outside diameter as well concentricity
3. The IOC automatic-type provides the motorized adjustment to different inside diameters up to 100 mm by each operator.

The RINGMASTER is famous for its reliability, ease of use and high accuracy.

The software has interfaces to different tool control systems, such as TCS.



## SPECIAL WORKBENCH

To ensure the high measuring accuracy of RINGMASTER and PUNCHMASTER also under rough environmental conditions, a special workbench was developed. The workbench is equipped with vibration isolators, so that the equipment works also stable, if the toolroom is located close to the production line. Based on its ergonomics the special table ensures a fatigue free work.

**Picture: Special table for RINGMASTER and PUNCHMASTER with vibration isolation**



## ■ PUNCHMASTER

The PUNCHMASTER provides optical, non contact measurement of punches, used in beverage can manufacture.

The PUNCHMASTER measures the outside diameter, the roundness of the outside diameter and the punch outside profile.

Additionally measuring functions for angles (taper) and radii are available.

The PUNCHMASTER is easy to operate and measures with highest accuracy. The standard-PUNCHMASTER is fixed to one diameter between 50 mm and 80 mm.

The new developed PUNCHMASTER vario can be adapted by the operator to punch diameters between 50 mm and 100 mm.

## ■ RICOS

RICOS features the measurement of the inside profile of ironing dies.

Using a highly accurate mechanical tracer the profile is measured very easily. The mechanical structure provides an easy handling of the ring and protects the sensible needle of the profile sensor against damage.

The software allows the input of profile tolerances by CAD-files or manually. The measured profile is evaluated by the software and graphically displayed together with the tolerance data. Hence a good/bad decision for the ring profile is possible, using the RICOS measuring system.

