



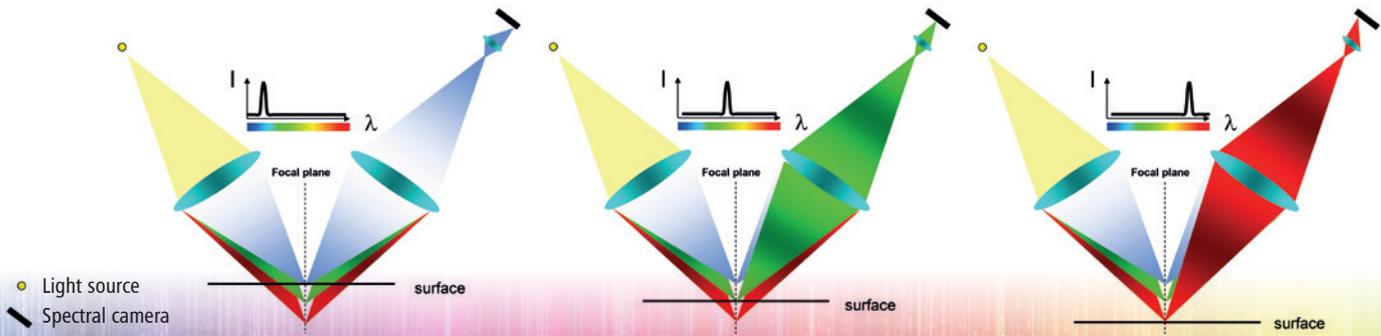
## EP 100+ Burr Height Measurement System

Optimal quality control of your slitting processes

- Burr identification
- Accurate, reliable and rapid
- No complex preparing of the samples
- Control of quality standards at an early stage
- Immediate measurement result
- Time- and cost saving

Patented in EU, USA, Japan and China

## Lateral Chromatic Imaging (LCI)



### Features

- Burr identification of your samples
- Quality control with 1  $\mu\text{m}$  accuracy
- Easy measuring directly at the beginning of the slitting process
- Convincing result due to examination of the entire strip length (no spot check)
- No complex preparation of samples
- Minimum slitter down time
- Early detection of defects and wear of the knives
- Examination of the cutting quality at the whole circumference of circular knives
- Generation of measurement reports, statistics and quality reports
- Data storage and connection to the central data storage

### Technical data

**Scope:** Measuring unit with measuring head, base frame with transport rollers and drive, PC system with monitor, mouse and keyboard

**Optical length of the profile:** 4.0 mm

**Resolution:** 2.2  $\mu\text{m}$  (width) x 20  $\mu\text{m}$  (length)

**Accuracy:** 1  $\mu\text{m}$

**Thickness of the slitting sample:** 20  $\mu\text{m}$  to 5 mm

**Measuring points:** 1 profile every 0.5 mm

**Measuring time:** approx. 30 s (with 1350 mm length)

**Traverse speed:** approx. 50 mm/s

**Dimensions:** 480 x 400 x 680 mm (h x w x l)

**Weight:** 42 kg (unit), 18 kg (monitor with holder)

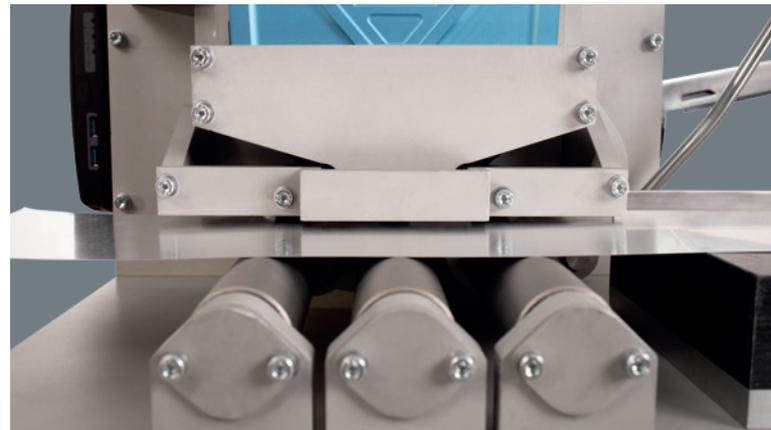
**Measuring length:** endless

**Strip width:** min. 8 mm

### Technology

#### Lateral Chromatic Imaging (LCI)

The light source of the measuring unit generates light spectra on the strip edge. The system determines the fine structure of the light reflected from the strip sample. The measurement technology is based on the evaluation of the dominant wavelength of the reflected light, which is proportional to the height difference.



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