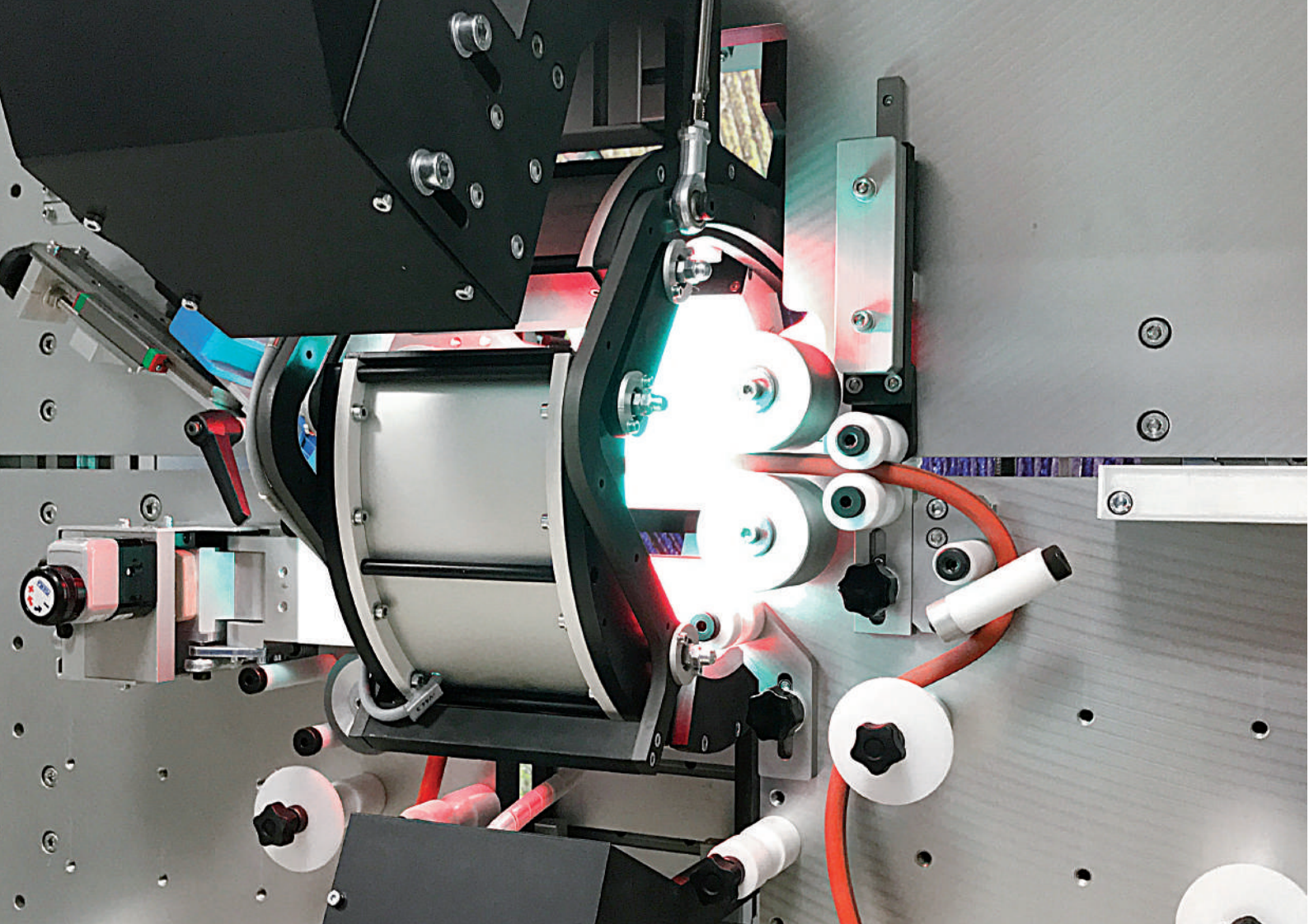


LoringX

SEMI-AUTOMATIC VISUAL INSPECTION
MACHINE FOR DIMENSIONAL AND SURFACE
INSPECTION OF LARGE O-RINGS

UTP VISION
VISUAL INSPECTION





LINUX



DATABASE
INTEGRATION



STATISTICS
REPORTS



COLOR VISION
PATENTED



ARTIFICIAL
INTELLIGENCE

LoringX is a semi-automatic visual inspection machine for the dimensional and surface inspection of large O-Rings from minimum 250mm ID without limitations on the maximum OD. LoringX is a very advanced product, combining optical inspection with precise and flexible mechanical adjustments to optimally inspect each part.

The machine is controlled by a Real-Time operating system which handles both image processing and the interaction with the operator through a user-friendly interface. The system's stability is guaranteed even at extremely high inspection speeds, delivering accurate and repeatable readings. The machine also includes a part marking system to mark each part with codes and other information.

ILLUMINATION

- Digital regulation of light intensity for the entire surface
- Possibility to inspect pieces with reflective surface
- High accuracy and precision of dimensional and surface inspection
- No decrease in light intensity

DIMENSIONAL STATION

- High-resolution camera
- Dedicated illumination system

Related inspection program functions:

- Measurement of maximum, minimum, mean of internal and external diameters
- Measurement of maximum, minimum, mean of radial cross section

INSPECTION SOFTWARE

This system consists of 4 color cameras and two levels of color LED lighting arranged at 90° to cover the entire surface of the piece. It also facilitates to detect defectiveness on 100% of the pieces' surface, anomalies related to mold closure and production defects that are frequently found in that area. The software allows you to regulate the different LED crowns to optimize the illumination of the piece; thus several inspection zones can be defined independently.

OPTIONALS

DIMENSIONAL STATION	LORINGX
Dimensional resolution (mm)	0.001
Accuracy of measurement	±0.1% of diameter

LASER STATION FOR MEASUREMENT OF THE CROSS SECTION	LORINGX
Measuring range (mm)	28
Max. cross section (mm)	12
Dimensional resolution (mm)	0.001
Accuracy of measurement (mm)	0.02

SPECIFICATIONS

TECHNICAL SPECIFICATIONS	LORINGX
Article type	O-Ring
Material	rubber
Color	any color
Min. internal diameter (mm)	250
Max. internal diameter (mm)	∞
Min. cross section (mm)	1.78
Max. cross section (mm)	12
Cycle time	130" for internal diameter 1,000

SUPERFICIAL STATION	LORINGX
Camera	full color
Number of lenses	4
Optical resolution (mm/px)	0.030
Min. detectable defect size (mm)	0.090x0.090

The technical data and images contained herein are indicative only. UTPVision reserves the right to modify its products at any time without prior notice.



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