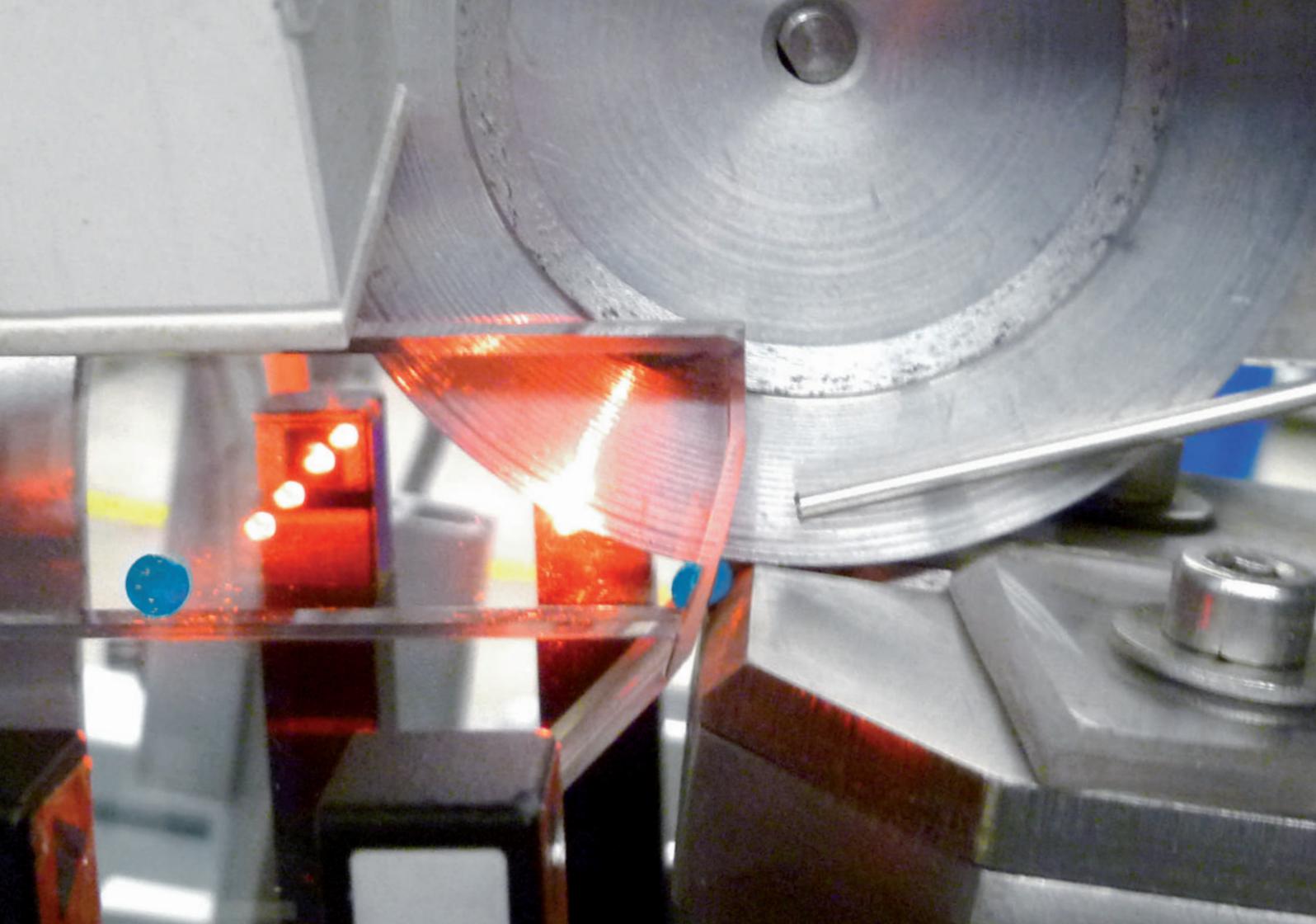




RollinX

VISUAL INSPECTION SYSTEM
FOR SPHERICAL ARTICLES

UTP VISION
VISUAL INSPECTION





LINUX



DATABASE
INTEGRATION



STATISTICS
REPORTS



COLOR VISION
PATENTED



ARTIFICIAL
INTELLIGENCE

RollinX is a visual inspection machine for the dimensional and surface control of spherical parts made of rubber, plastic and other materials up to $\varnothing 60$ mm.

RollinX can inspect the entire surface of a part to identify critical defects such as cuts, flashes, voids, marks, stains, double-mouldings, out-of-roundness, out-of-concentricity, etc.

The acquired images are transferred to a PC without any data loss. 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.

The feeding device delivers the pieces to check from a vibrating bowl feeder to a glass pipe. Three high-speed cameras capture 10 pictures of each piece and after image processing the system separates good and bad pieces into different collecting bins.

You can view in real time all the statistics such as production time, the number and types of defects, the filling status of collecting bins and so on; it is also possible to save production reports with graphs and statistical data and to integrate them into the management system. The statistical software performs data processing and calculates the process capability index (Cpk) to provide feedback on production parameters. Machine downtime for changing the product to inspect is kept to a minimum thanks to the ease and quickness of emptying the machine and all configuration parameters already saved in PC.

MULTIPLE-STAGE LED FLASH 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

SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Type of pieces	spherical articles		
Material	rubber, plastic, other materials		
Machine model (field of view)	A	B	C
Min. diam. (mm)	2	10	25
Max. diam. (mm)	10	25	60
Control speed	max 10,000 pcs/hour		

SURFACE INSPECTION

Dimension (mm)	up to 10	up to 25	up to 60
Resolution (mm)	0.025	0.062	0.150
Min. defect size* (mm)	0.050x0.050	0.125x0.125	0.300x0.300

* detectable defect with a tone difference at least 30 points in adjacency

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

IMAGES FROM THE SOFTWARE



EXAMPLES OF TYPICAL DEFECTS



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