

ProfiliX

MACHINE FOR AUTOMATIC
IN-LINE SURFACE INSPECTION OF
RUBBER AND PLASTIC PROFILES



UTP VISION
VISUAL INSPECTION



LINUX



DATABASE
INTEGRATION



STATISTICS
REPORTS



PATENTED
COLOR VISION



ARTIFICIAL
INTELLIGENCE

ProfiliX

ProfiliX is an automatic visual inspection machine for in-line surface inspection of extrusion profiles and pipes of various sizes, up to 40mm x 40mm field of view. ProfiliX is able to check the entire surface of a part through non-contact optical inspection, combined with precision part positioning tools to optimally present the part to each camera.

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, delivering accurate and repeatable readings.

After the acquisition of images and subsequent processing, the machine reports the presence of defects through:

- A visual and sound alarm system
- A signal which communicates with the operating system of the production line

You can view in real time all the statistics such as production time, the number and types of detected defects and so on; it is also possible to save production reports with graphs and statistical data and to integrate them into the management system for subsequent processing.

It takes only a very short time to change the product to inspect thanks to:

- All configuration parameters saved in PC
- Automatic positioning of optics
- Ease and quickness of emptying the machine



MULTIPLE-STAGE LED 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 SENSOR

A dimensional sensor can be integrated into the system for a complete in-line inspection.

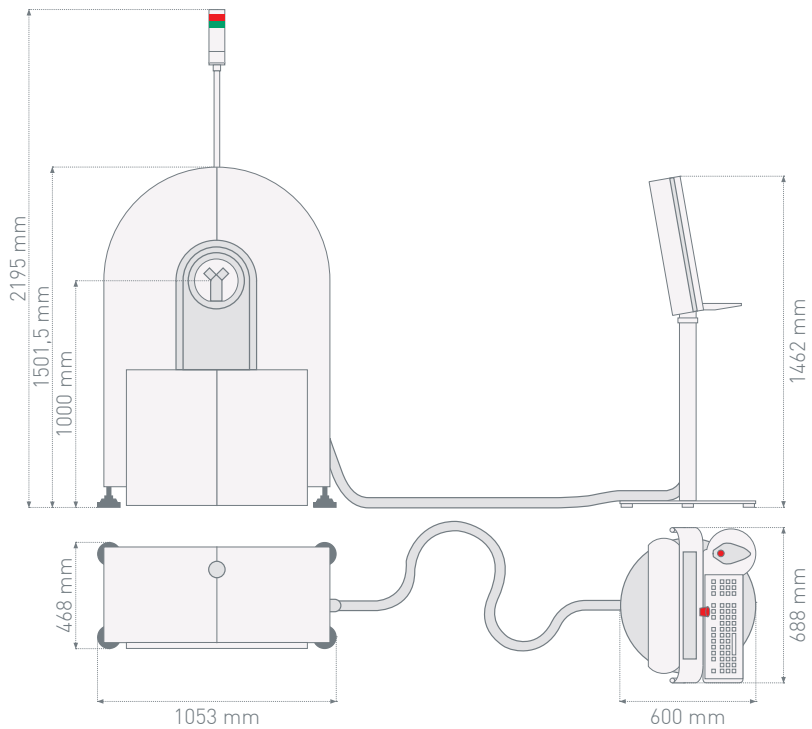
DEVICE FOR COMPLETE SURFACE INSPECTION

This system consists of 7 cameras and 7 independent LED illumination lights arranged in order to cover the entire surface of the extruded profile for a complete inspection. The software allows you to regulate the different LED lights to optimize the illumination of the profile; thus several inspection zones can be defined independently.

TECHNICAL DATA

MAIN FEATURES	
Type of pieces	profiles
Material	rubber
Color	any color (transparent to be tested)
Width of field of view (mm)	3-20
Height of field of view (mm)	up to 40 to be evaluated
Maximum inspection speed	25 m/min
SPECIFICATION	
Optical resolution (mm/px)	0.030
Minimum size of detectable defects (hue difference at least 20 points in adjacency) (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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