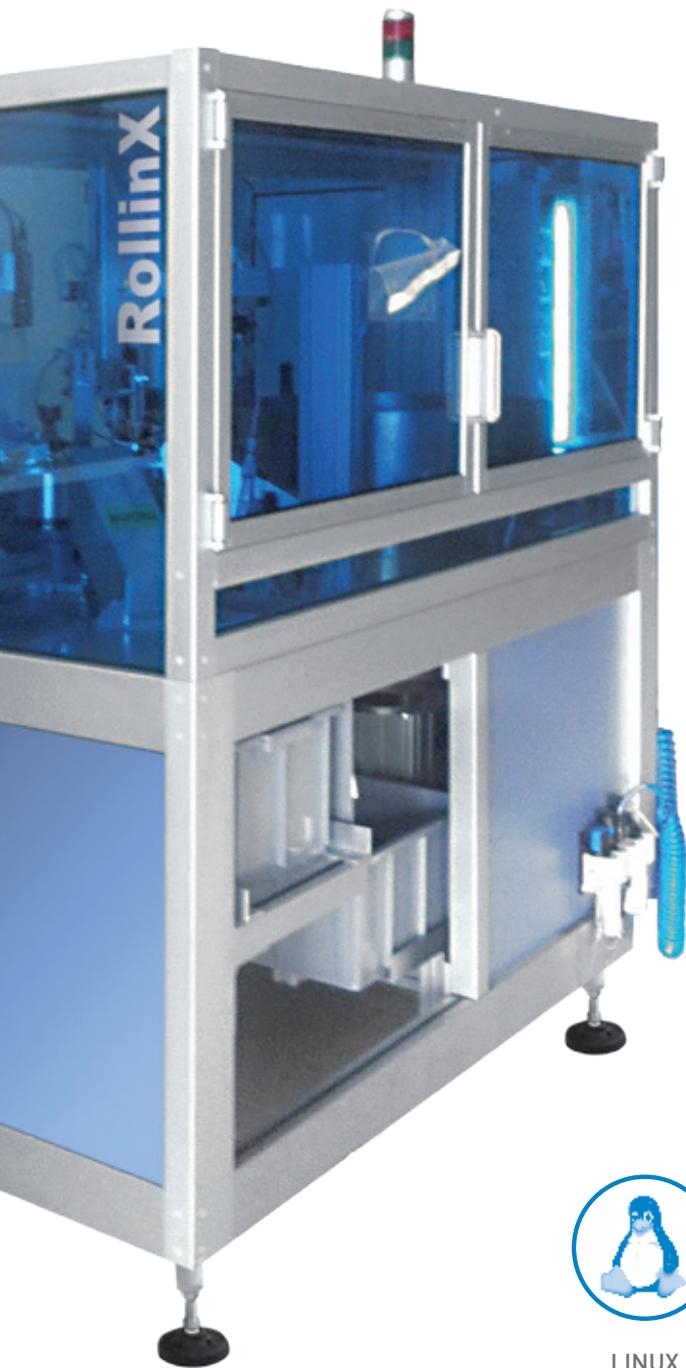




RollinX

Visual inspection equipment for balls and spheres



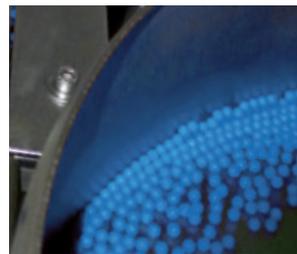
RollinX

Visual inspection equipment for balls and spheres

RollinX is a visual inspection machine for the dimensional and surface control of balls and spheres. It is able to check the surface of the piece to identify main defects as cut, flash, lacking material, holes and halos, double-mouldings, roundness, etc. The equipment is controlled by a PC managed by a operating system Real-Time that make both the elaborations on the images and the interaction with the operator through simple and intuitive interface. The system Real-Time offers a good stability to the system and extremely elevated control speed.

The images are captured by digital industrial cameras and are transferred, without losses or interferences to the PC through Firewire connection.

The machine can be employed for the control of high precision balls and spheres in rubber, plastic and other materials within the limits of the vision field.



LINUX



REMOTE
MANAGEMENT



ALARM
MANAGEMENT



DATABASE
INTEGRATION

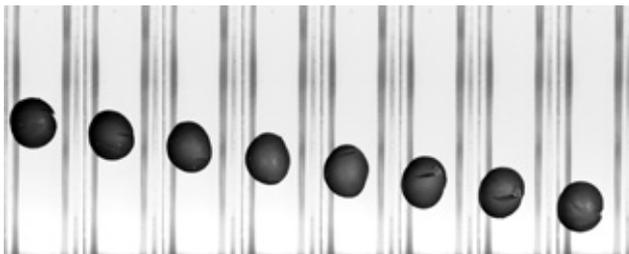


STATISTICS
AND REPORTS

Operational characteristics

The feeding device delivers the pieces to check from a vibrating bowl feeder to a glass pipe. 3 high speed cameras acquire 10 pictures of every part and after images elaboration the system separates good and bad in different boxes. You can view real time statistics and all production times, the number and the type of defects and the state of filling of the accumulation zones, it is possible to save the production reports with graphics and statistic data and to integrate them on the management system for subsequent processing. The statistic software elaborates the data and calculates the values of production capability (CPK), furnishing a feed-back on the production parameters.

Machine downtime is kept to a minimum by the ease of cleaning and component changing together with the storing of all configuration parameters.

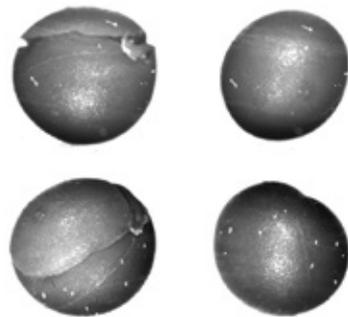


Illumination

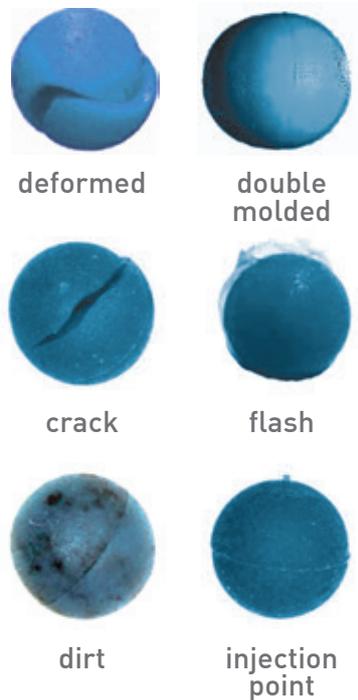
Illumination is multiple crown flash led:

- Digital regulation of the bright intensity for all surface
- Possibility to control the piece reflection
- Good precision of dimensional and surface control
- No decadence of the bright intensity

The screen shots



Some typical defects

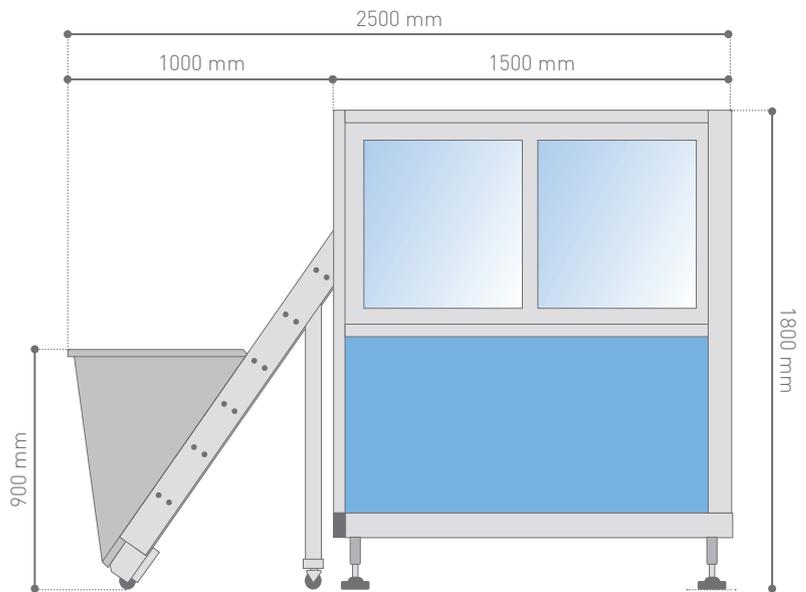
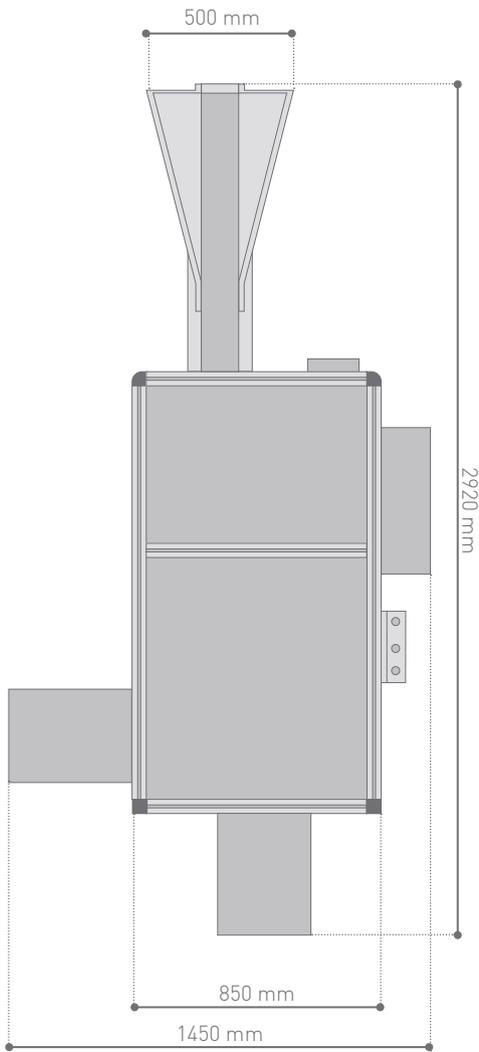


General characteristics

Type of pieces	balls and spheres		
Material	rubber, plastic, etc.		
Machine Model (field of view)	A	B	C
Min. diameter	2mm	10 mm	25 mm
Max. diameter	10 mm	25 mm	60 mm
Control speed	max 10.000 pcs/hour depending on size and material		

Control of SURFACE

Dimension (mm)	up to 10	up to 25	up to 60
Resolution (mm)	0,025	0,062	0,150
Min. defect size (mm) detectable defect with a tone difference at least 30 points in adjacency	0,050x0,050	0,125x0,125	0,300X0,300



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