

KALIX

english version



UTP **VISION**
QUALITY VISION SYSTEMS

KALIX

Machine for dimensional control

Kalix visual inspection machine is suitable for the automatic measurement of component of every shape, without any contact, through manual loading and unloading.

No-contact measurement is the precious feature of the machine to measure dimensions through artificial vision systems and obtaining the required information directly from images.

Kalix is suitable for measuring rubber gaskets, PTFE seals, metal parts and most other components within the limits of the field of view. Operation is recommended throughout the production process, the acceptance of every working phase and for the final certification in the laboratory for samples and production series.



Features

Kalix is equipped with a firewire camera with a resolution up to 5 MPixel and with a field of view up to 160x160 mm.

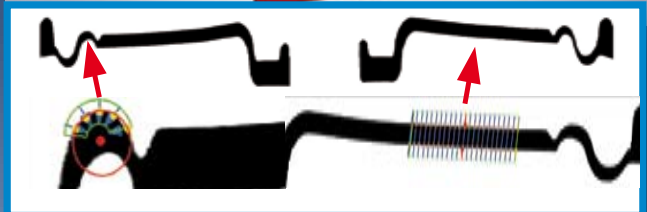
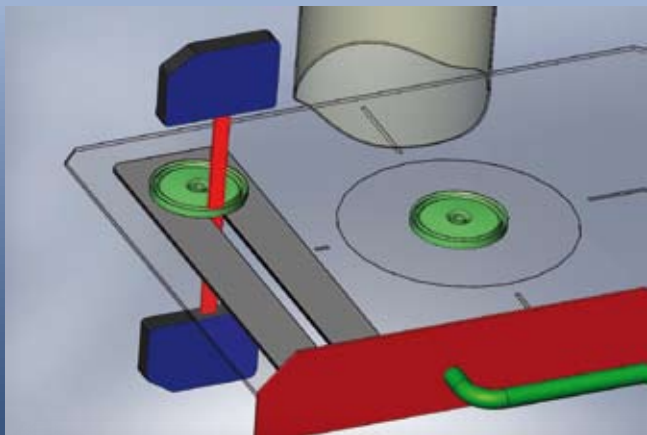
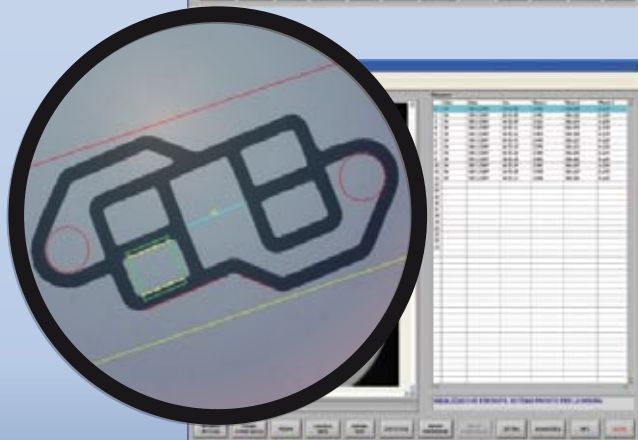
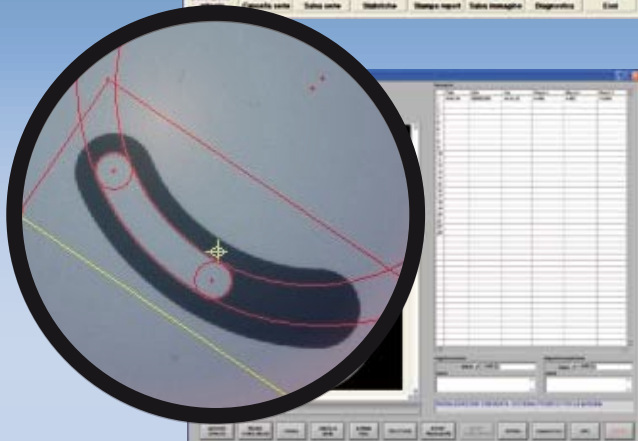
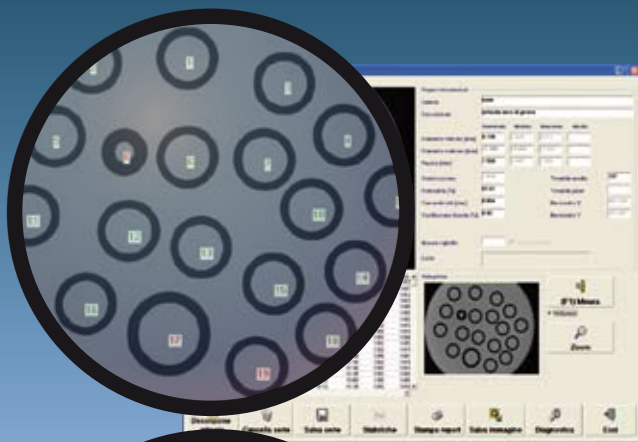
It has got bi-telecentric lenses very low distortion and a collimated light. The support is an aluminium undercarriage with wheels, while the measuring parts are placed on a glass sliding surface.

Typical installations are delivered with a PC running Windows XP Professional and a 17" LCD touch screen. The system is fitted also with a printer and UPS group.

The software allows to set and store the parameters for every single article so they can be used for the subsequent batches.



| Technical specification | 40 | 70 | 110 | 155 |
|--------------------------|------------|------------|------------|------------|
| Field of view | 42x42 mm | 72x72 mm | 115x115 mm | 160x160 mm |
| Maximum sample size | ø 40 mm | ø 70 mm | ø110 mm | ø155 mm |
| Measurement accuracy | ± 0.005 mm | ± 0.008 mm | ± 0.012 mm | ±0.012 mm |
| Maximum sample thickness | 20 mm | 20 mm | 30 mm | 40 mm |



CONTROL AND MEASUREMENT OF MORE PIECES CONTEMPORARILY

Control program

- holes measurement
- flash measurement
- roundness measurement
- mismatch measurement
- average, max and min radial section measurement
- article management with code and description
- management of single or series measurement
- profile oscillation measurement
- median, maximum and minimum inside and outside diameters measurement
- statistic report with histogram of the series (X-Bar)
- statistic report with the factors cp and cpk
- management of printing and saving

Optional:

Control and measurement of complex pieces

Dimensional control software for inspection of parts with non circular profile.

Control program

- article management with code and description
- distances measurement
- radii measurement
- angles measurement
- holes measurement
- statistic report with the factors cp and cpk
- management of printing and saving

Optional:

Laser device for thickness control

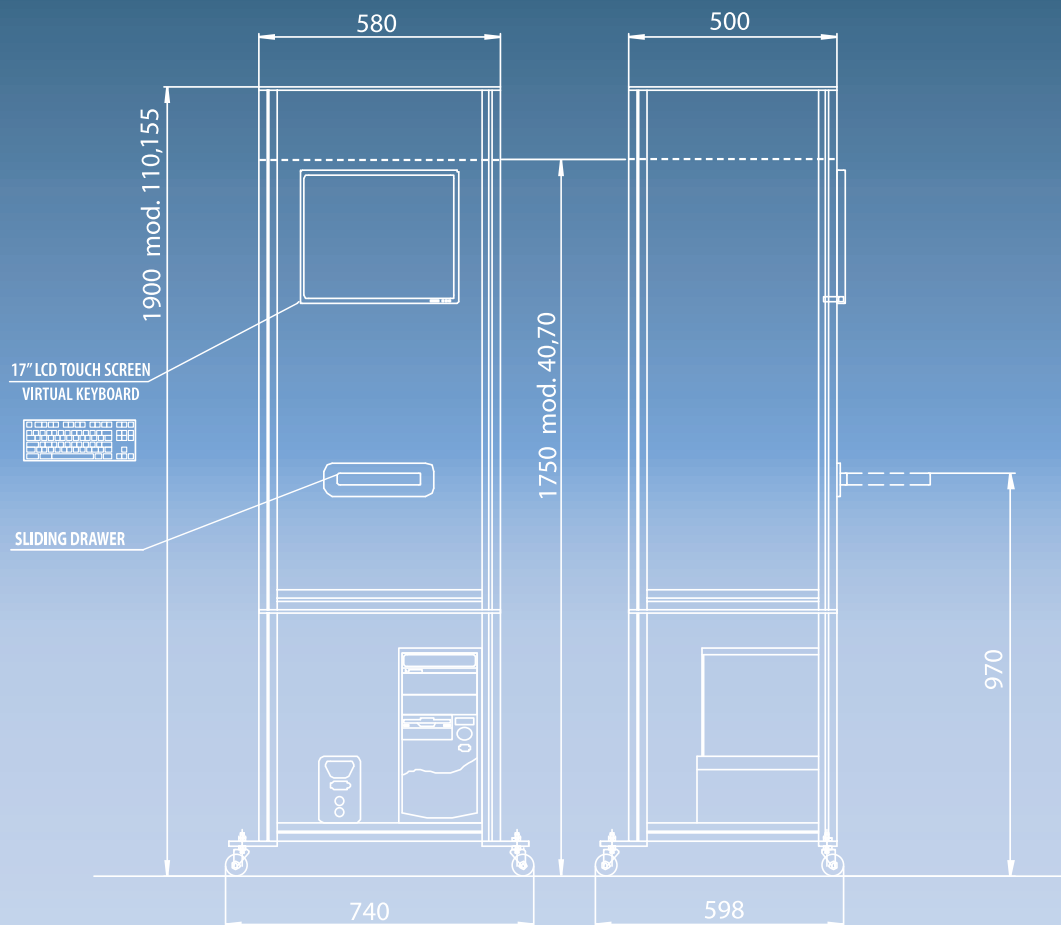
Double Laser for the measurement of the axial cord of o-rings and for the measurement of section thickness of pieces with complex profile.

Control program

- articles management with code and description
- measurement of the axial cord of o-rings and the section thickness of pieces with complex profile
- statistic report with the factors cp and cpk
- management of printing and saving

Technical specification

| | |
|---------------------------------------|-----------|
| Measurement range | 10 mm |
| Resolution | 0,001 mm |
| Accuracy | ±0.015 mm |
| Minimum outsider diameter of the part | 5 mm |



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