

ONE-1


Sorting machine
with glass or metal plate

ONE-1

SORTING MACHINE WITH GLASS OR METAL PLATE

PRODUCT FEATURES

- Sorting machine with glass or steel plate with holes
- Entry Level High speed machine
- Reduced and optimized space with round shape for an easy internal machine access
- Easy to set, easy to use
- Full modular conception
- Flexibility due to Simple Cameras or Laser or Profile Units Positioning
- From 1 to 8 Digital Cameras that Can be Added Easily in Any Future Moment
- Optional stations for cracks and hardness control on 360°
- Vision Software Full Programmable by Users
- Automatic Calibration with Master
- Remote Control and Settings
- Self Programming Tool
- SQL Database resident in the machine (optional)
- Digital Cameras from 1 to 12 Mpx and Special Ones
- Laser/Camera High Accuracy 3D Profile Checking Unit
- All Kind of Lighting Systems
- Telecentric optical devices and Pericentric lens
- 360 Thread and Part Measures (thread, manufacturing defects)
- Optional Full Feeding System and Packing System as well

 Speed from 200 to 1.000 parts/min
Price starting from 55.000 euro





SLZ-350

Optical selection machine
with rotating table


SLZ-350

OPTICAL SELECTION MACHINE WITH ROTATING TABLE

Ideal for part that can be hanged by the head like screws or rivets.

PRODUCT FEATURES

- Optical selection machine with steel plate with holes
- Ideal for parts that can be hanged by the head
- Easy to set, easy to use
- Steel and alloy Frame
- Full modular concept
- Metal plate easily interchangeable with only 3 screws with 18 to 60 holes
- Totally flexible with the easy positioning system of Laser / Cameras or Side Units
- From 1 to 32 stations (Cameras / Laser / Instruments) easy interchangeable in every moment
- Option for optical Crack control
- Option optical 360° control on thread or on product defects
- Vision Software completely programmable by users
- Remote control and setting
- Resident database SQL (optional)
- Self programming Tools
- Digital Cameras from 1 to 12 Mpx and Special Ones
- Laser/Camera High Accuracy 3D Profile Checking Unit
- All Kind of Lighting Systems
- Telecentric optical devices and Pericentric lens
- Optional interface and devices for loading, automatic packaging system, elevators, feeders, vibrating bowls and tapes

 Speed from 8000 a 50.000 Parts/hours





SLZ-370

Optical selection machine with rotating table and follow stations

SLZ-370

OPTICAL SELECTION MACHINE WITH ROTATING TABLE AND FOLLOW STATIONS

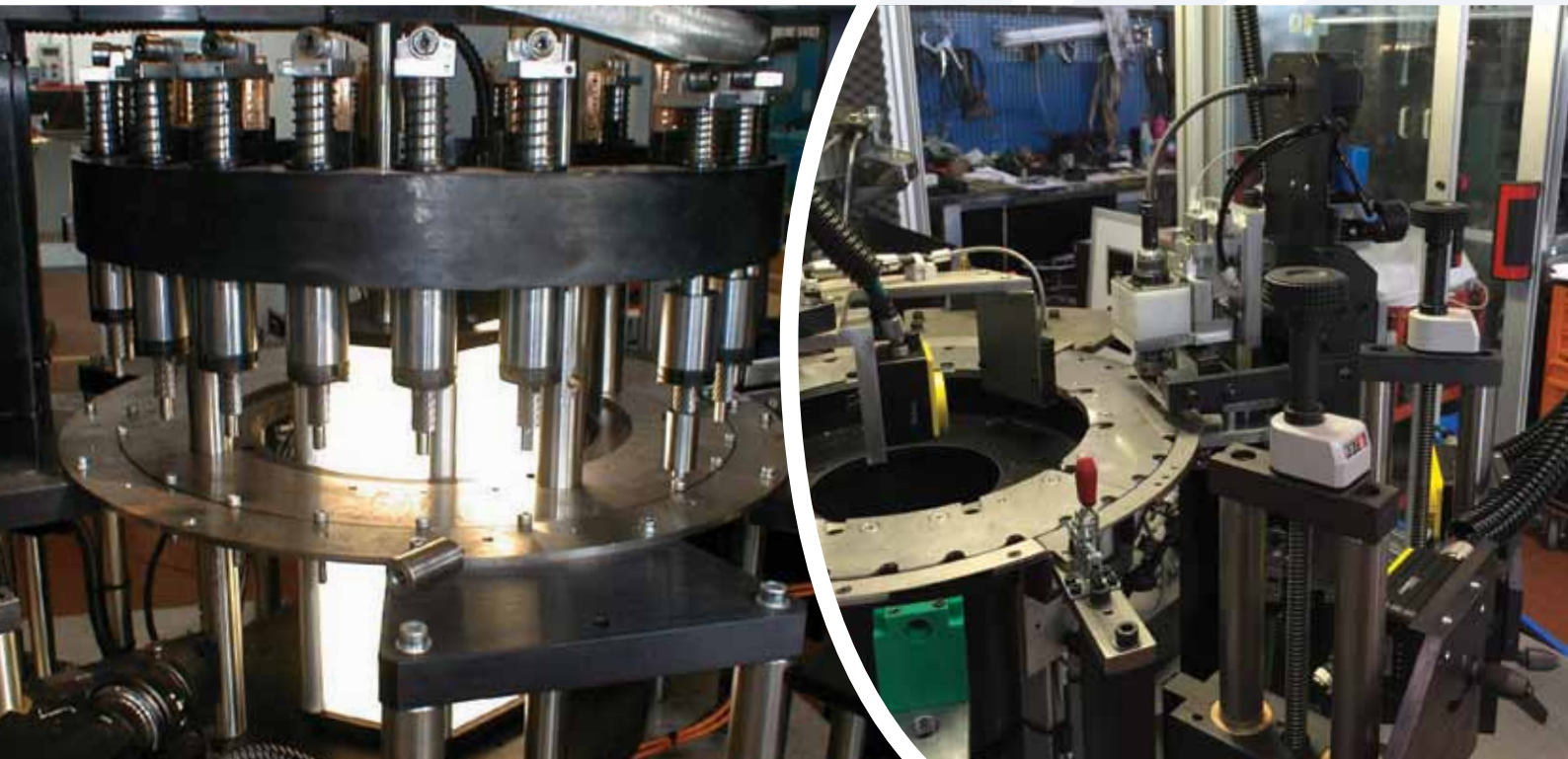
Ideal for part that can be hung by the head like screws or rivets.

PRODUCT FEATURES

- Optical selection machine with steel plate with holes
- Fixed and Follow Stations
- Ideal for parts that can be hung by the head
- Easy to set, easy to use
- Robust Steel and alloy Frame
- Full modular concept
- Steel plate easily interchangeable with only 3 screws with 18 to 60 holes
- Totally flexible with the easy positioning of Laser / Cameras or Side Units
- From 1 to 32 stations (Cameras / Laser / Instruments) easy interchangeable in every moment
- Option for Crack control optical or Eddy Current
- Option optical 360° control on thread or on product defects
- Vision Software completely programmable by users
- Option for hardness and material quality control with Eddy Current while part is rotating
- Remote control and setting
- Resident database SQL (optional)
- Tools for self programming
- Digital Cameras from 1 to 12 Mpx and Special Ones
- Laser/Camera High Accuracy 3D Profile Checking Unit
- All Kind of Lighting Systems
- Telecentric optical devices and Pericentric lens
- Optional interface and devices for loading, automatic packaging system, elevators, feeders, vibrating bowls and tapes



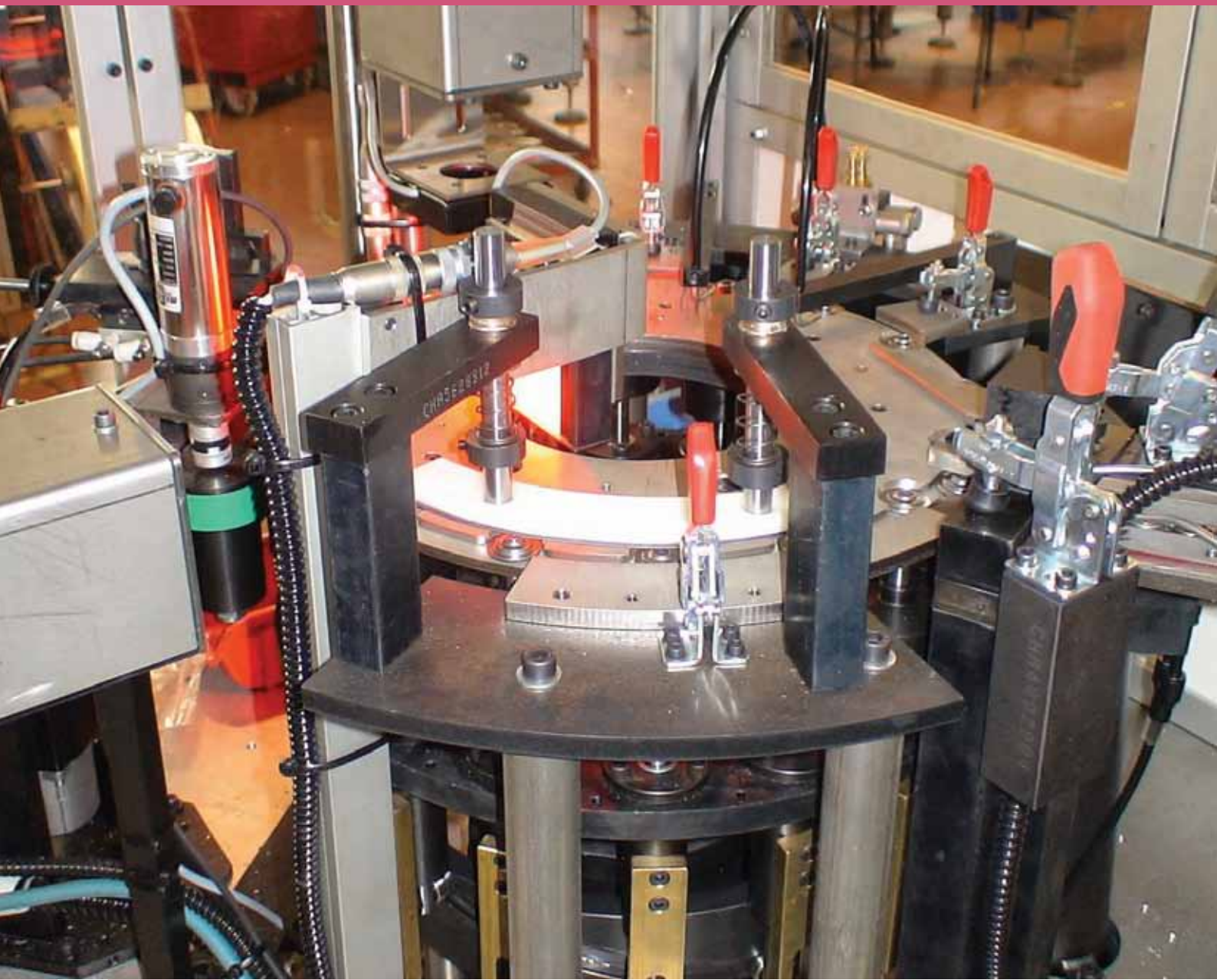
Speed from 8000 a 50.000 Parts/hours



CHAMPS
INSPECTION TECHNOLOGIES

Champs Technologies Srl
Via Belgioioso 11 - 20021 Baranzate (MI)
Tel 02 38209546 - Fax 02 36750821
Mob. 366 6559359 - 328 5676589 - 392 9153232

Champs Int. & Service Srl
Via Tonale 4 - 20021 Baranzate (MI)
sales@chaints.com
www.chatech.it



SLZ-450

SLZ-450

Innovative machine with 16 rotating spindle very suitable for 360° controls of any parts having internal hole (nuts, rings, valves). Every kind of inspection technologies are available (hi resolution cameras, laser, eddy current, sound analysis) on all parts sections. Particularly suitable for small defects detections in every section of the parts.

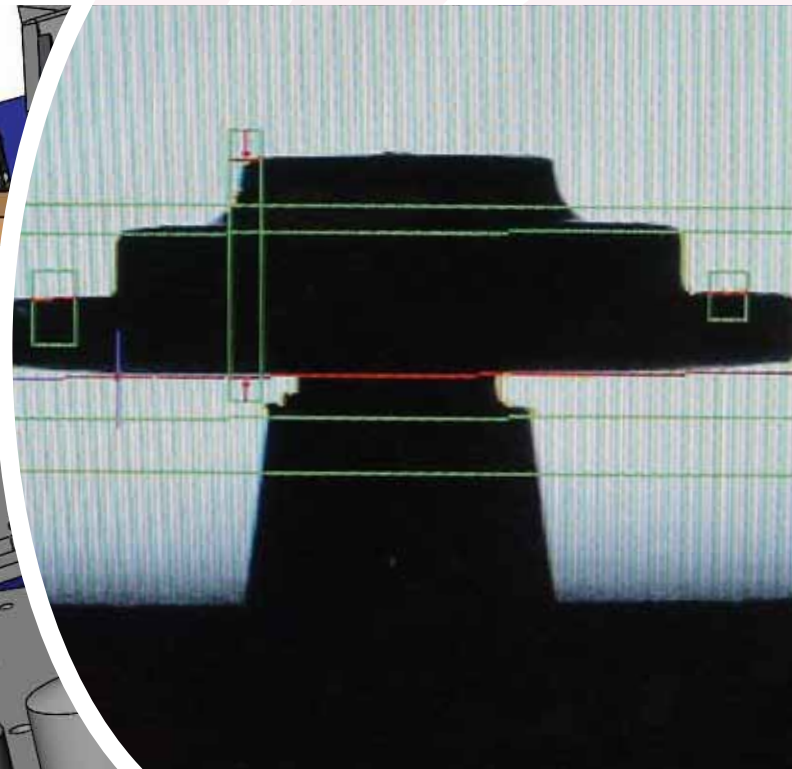
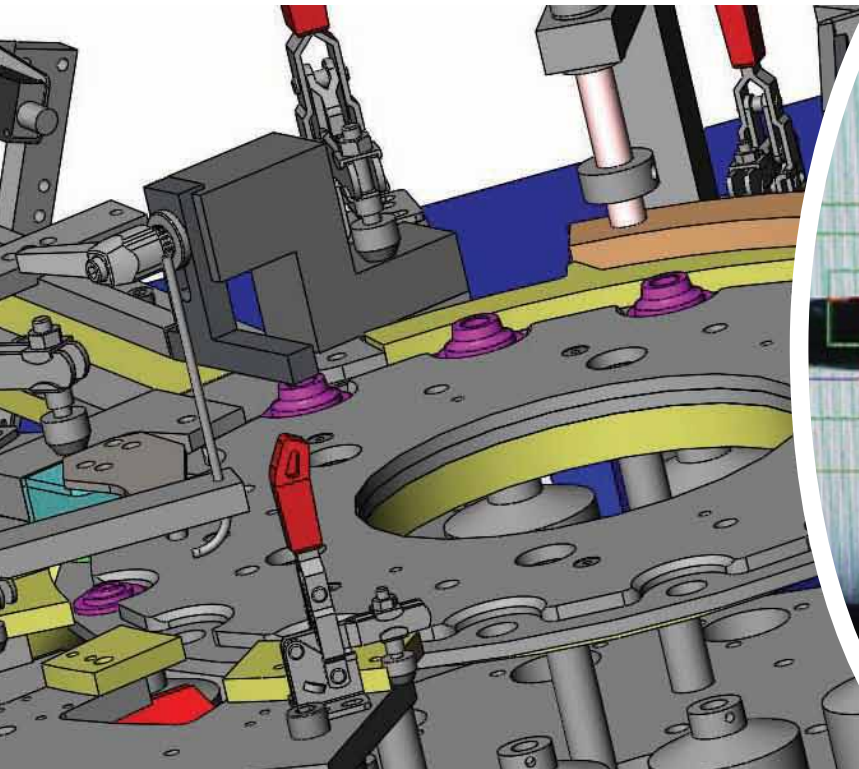
The SLZ450 is the final result of a series of studies to achieve a new standard for 360° inspection of parts with an internal hole. This innovative solution is able to move the part on a vertical axis, centering the parts on 16 rotating spindles. Several control stations are then installed on the machine performing 2D and 3D visual inspections, Eddy Current analysis, Barrier or reflections Laser units controls, Hardness and material control, sound analysis on custom controls.

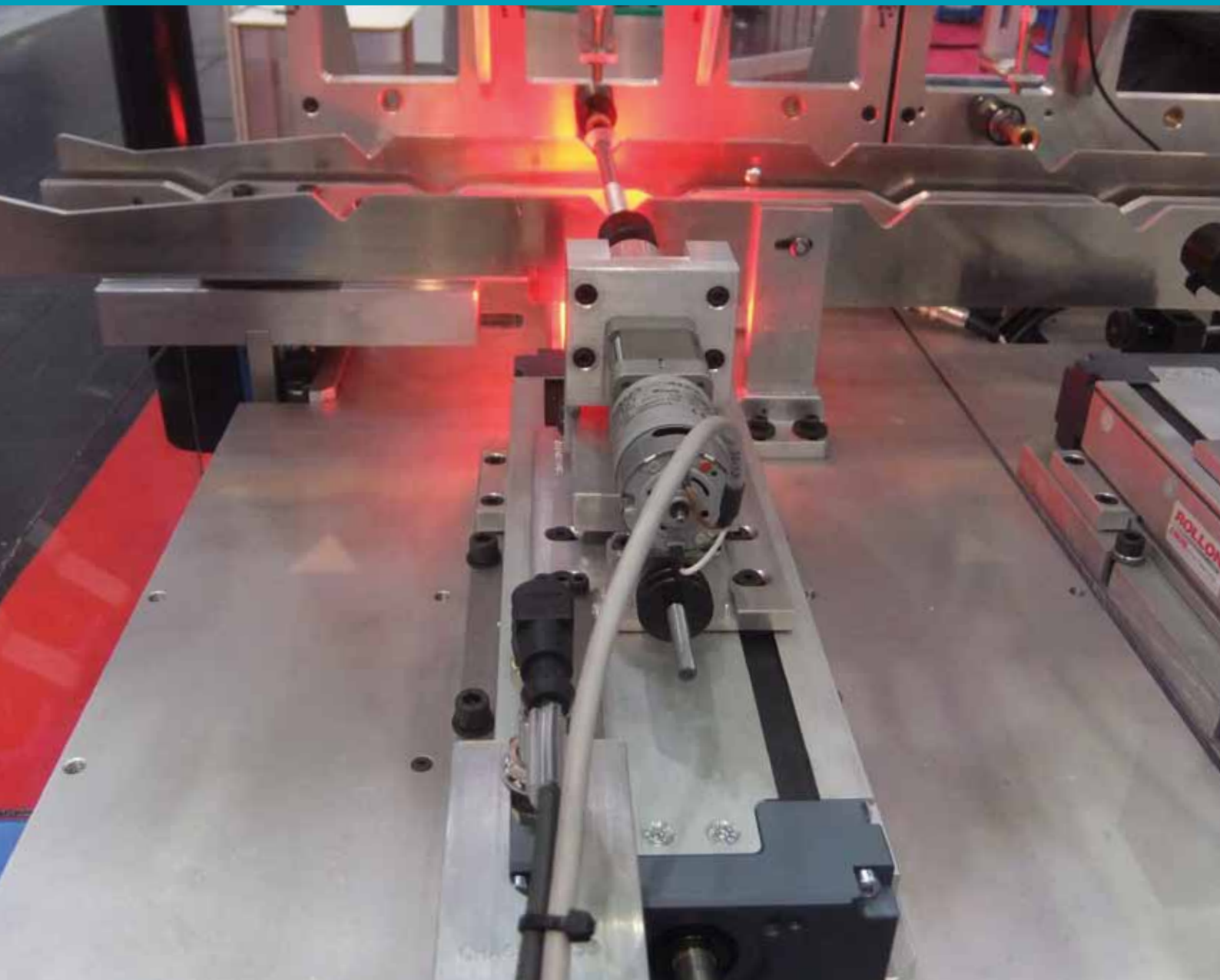
Some of the possible inspections available are:

- Ovality control
- Coaxiality between inner hole and external parts
- External cracks detection with optical or Eddy Current methods
- Dents and bumps on the external surface
- Stains and small defects on all the surface of the parts
- Multiple dimensional cross related measurement

Technologies available on the machine are:

- 2D and 3D vision systems
- Eddy Current devices
- Hardness and material detection devices
- Hi frequency ultrasound devices
- Triangulation and barrier laser devices





SLZ-750

SLZ-750

Inspection machine with horizontal handling and 360° controls on all parts. The SLZ750 is the final result of a series of studies to achieve a new standard for 360° inspection of parts with or without head.

An innovative solution able to move the part on an horizontal axis.

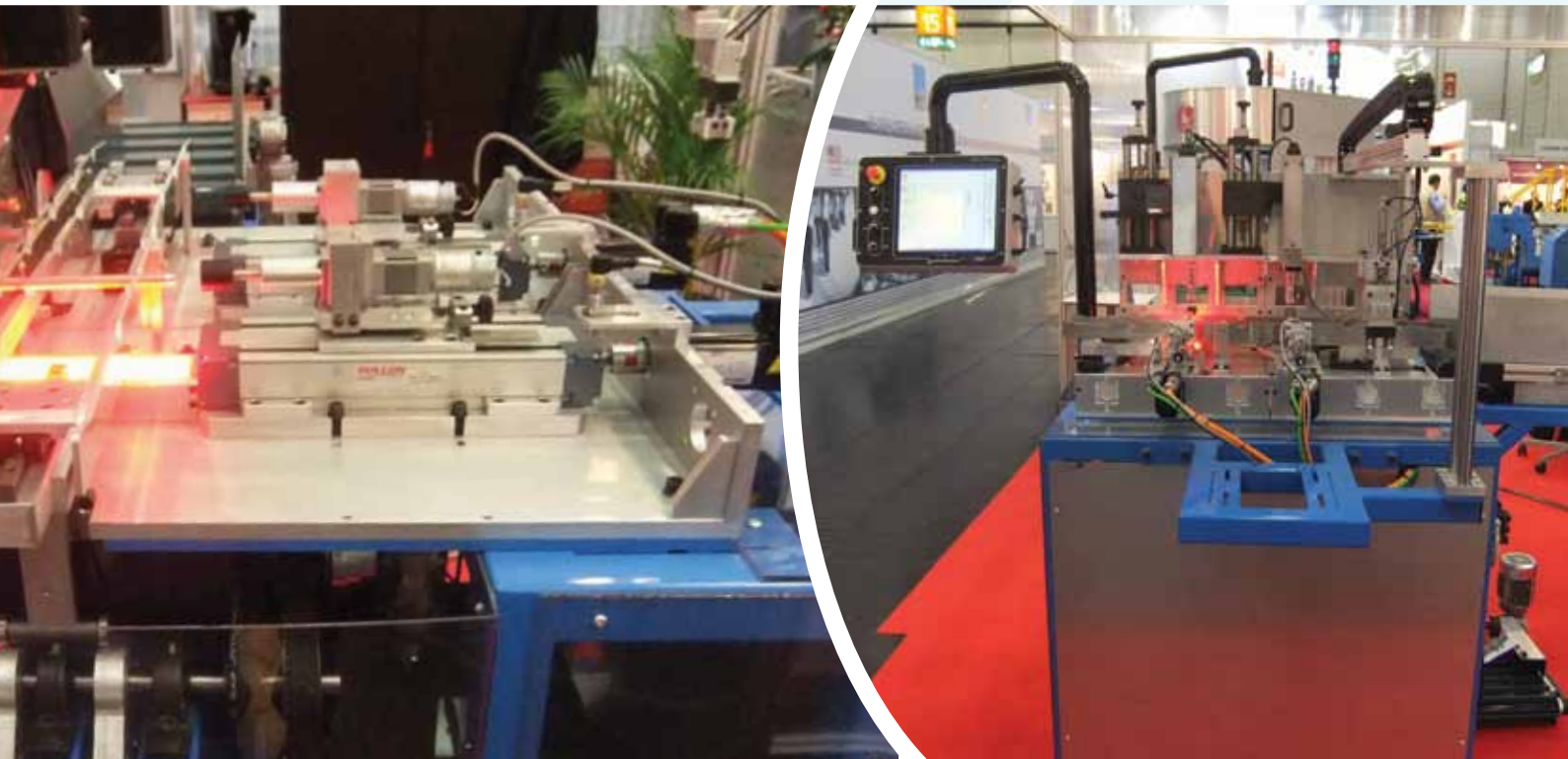
This allows controls on all the surface of the part without any dark angles created by the support of the part itself. Every kind of inspection technologies are available (Hi Resolution Cameras, Laser, Eddy Current, Sound analysis) on all parts sections, Particularly suitable for small defects detections as cracks in the head/steam connection, small cracks, straightness, concentricity, even suitable for long parts inspection.

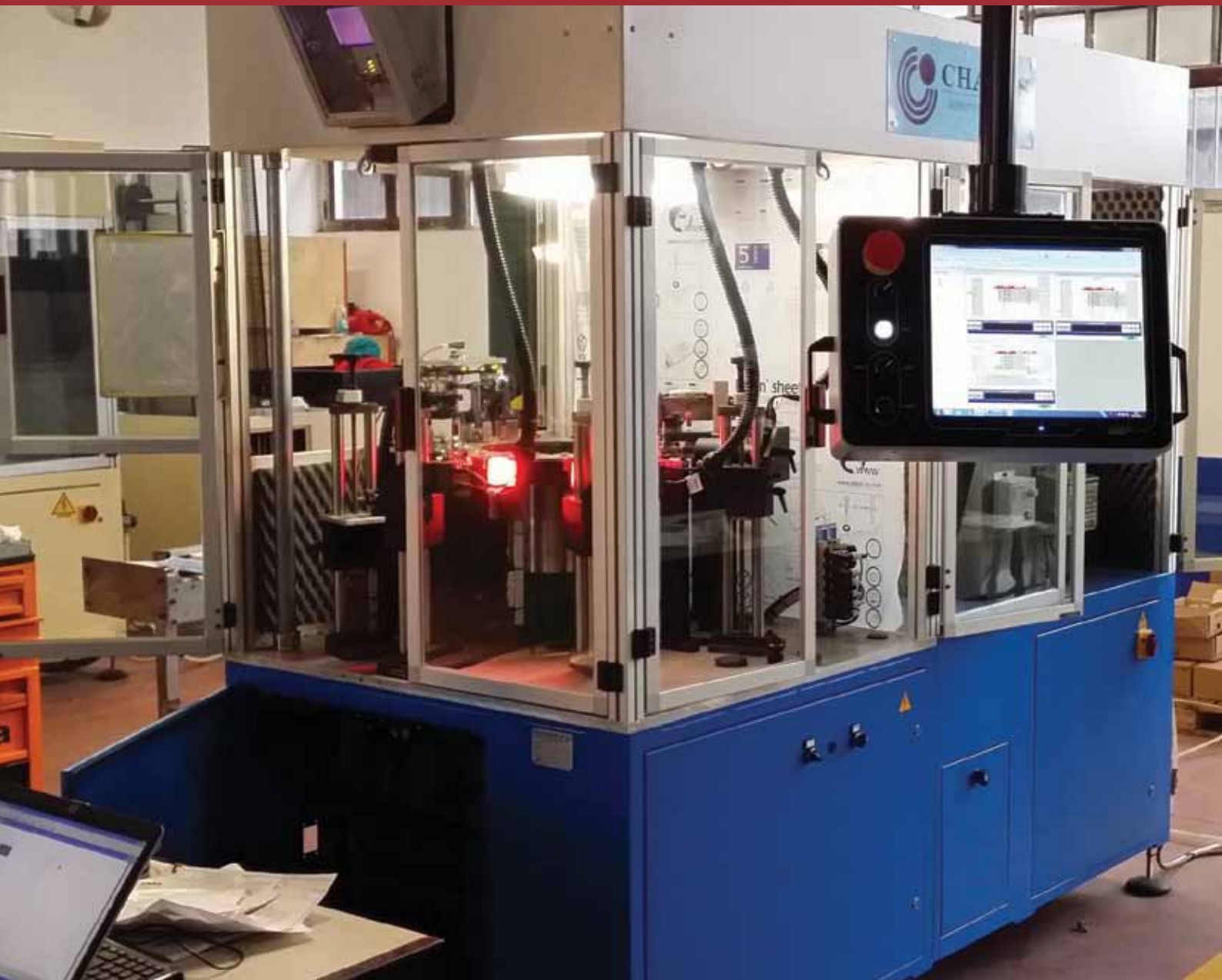
Some of the possible inspections available are:

- Small cracks detections in the head-stem junction or in any other position of the part straightness of cylindrical parts, shaft and support.
- Concentricity between head and stem or between one section compared with a different one
- Dents and bumps on all the external surface
- Recess and relative concentricity control
- Stains and small defects on all parts surface
- Multiple dimensional cross related measurement

Technologies available on the machine are:

- 2D and 3D vision systems
- Eddy Current devices
- Hardness and material detection devices
- Hi frequency ultrasound devices
- Triangulation and barrier laser devices





SQM

Inspection machine for
special applications

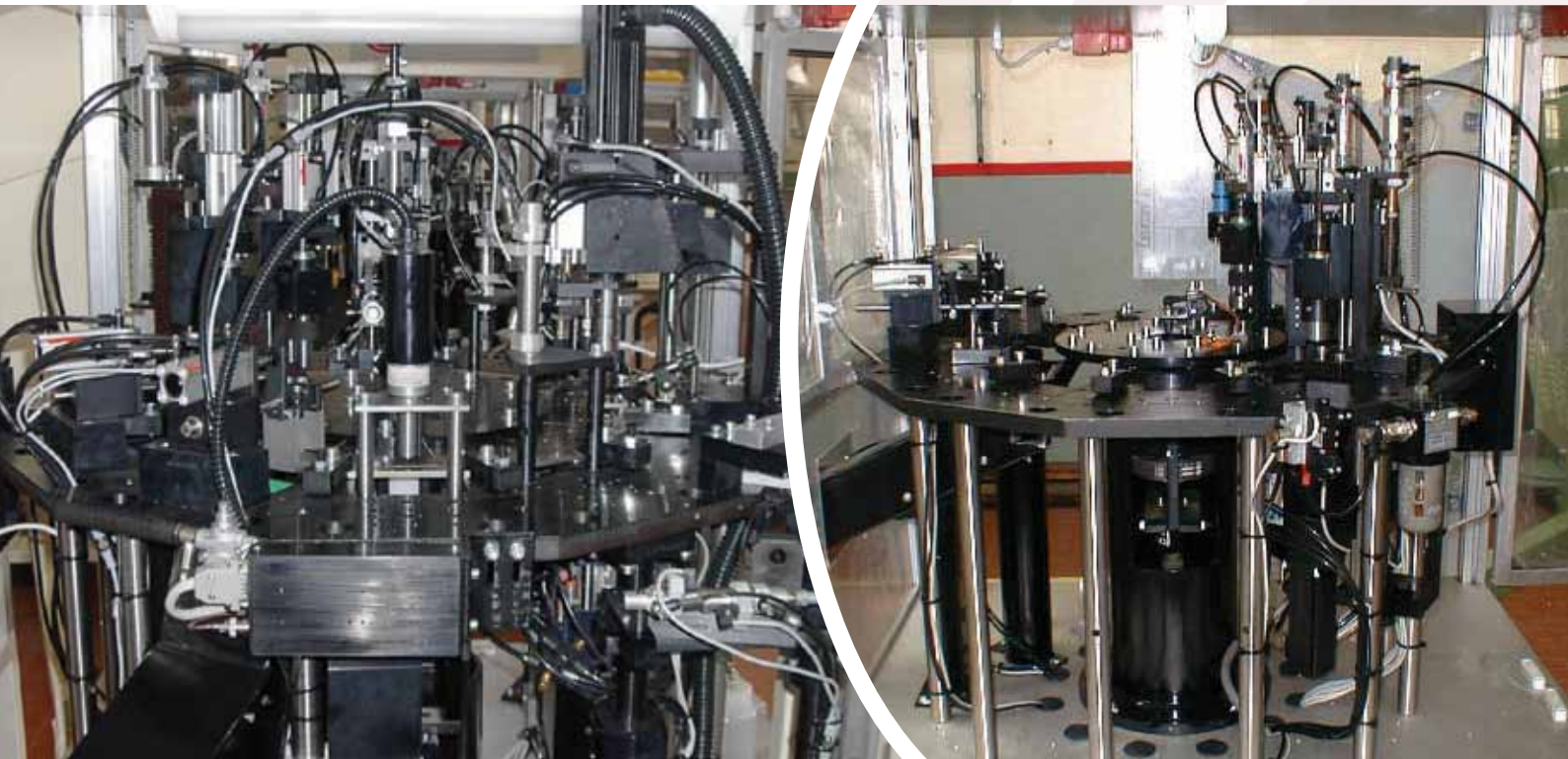
INSPECTION MACHINE FOR SPECIAL APPLICATIONS

PRODUCT FEATURES

- Inspection machine with step technologies
- Parts can be shifted to each station where can be fixed or rotated to be analyzed with fix or scanning devices (ex. Full part or long part inspection)
- Steel and alloy frame
- Configurable with static or rotating stations
- Stations with optical, electronic or mechanical (pass/no pass, screw unscrew)
- Machine with single or double step able to test simultaneously 1 or 2 parts at the same time
- Remote control and setting
- Resident database SQL (optional)
- Self programming Tools

Available unities

- Module for 2D and 3D vision systems
- Module for hardness and cracks controls with Eddy Current devices
- Module for recess depth and shape control
- Module for concentricity and straightness control
- Module for mechanical thread control with torque measurement
- Module for high and middle pressure leak control
- Module for anti-unscrewing application and post control
- Module for small parts assembling (plug o-ring, nuts + ring)





SLZ-250

Optical selection machine
with v-track slide

SLZ-250

OPTICAL SELECTION MACHINE WITH V-TRACK SLIDE

Ideal for part with or without very small heap

PRODUCT FEATURES

- Optical selection machine with steel plate with holes
- Ideal for parts that can be hanged by the head
- Easy to set, easy to use
- Steel and alloy Frame
- Full modular concept
- Cristal V shaped slide with 60° angle
- Totally flexible with the easy positioning system of Laser / Cameras or Side Units
- Front and/or side cameras
- Crack control
- Vision Software completely programmable by users
- Remote control and setting
- Resident database SQL (optional)
- Self programming Tools
- Digital Cameras from 1 to 12 Mpx and Special Ones
- Laser for profile checking
- All Kind of Lighting Systems
- Telecentric optical devices and Pericentric lens
- Optional interface and devices for loading, automatic packaging system, elevators, feeders, vibrating bowls and tapes

