





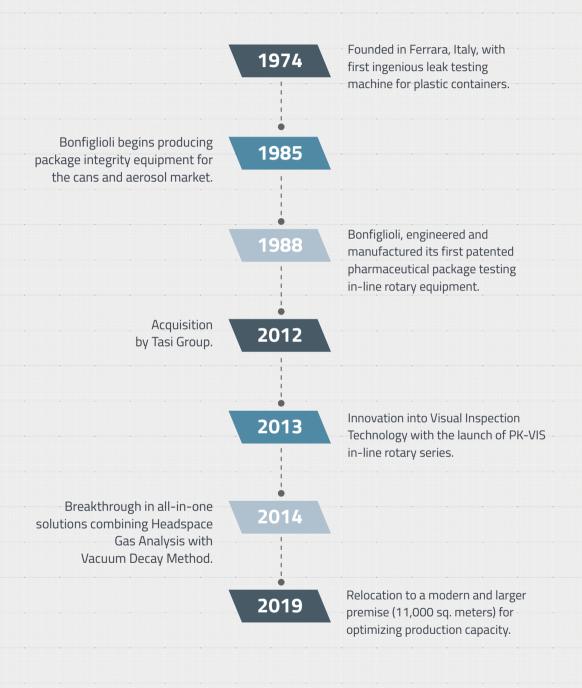
Bonfiglioli Engineering is the worldwide leader in Quality Inspection Solutions for all packaging requirements in Pharmaceuticals, Metal Cans and Aerosols, Food & Beverages and Chemicals and Personal Care.

Established in 1974, in Ferrara, Italy, Bonfiglioli Engineering has continuously invested, innovated and evolved, making new breakthroughs in leak testing while offering a vast product portfolio for all packaging requirements.

Bonfiglioli combines its remarkable engineering expertise with proactive solutions and technological developments to create superior Quality Control Solutions for customers.

Bonfiglioli Engineering provides its clients with customized solutions based on quality, expertise, flexibility and global customer service support.

COMPANY HISTORY



Bonfiglioli Engineering adheres to 4 main pillars:











INDUSTRY SECTORS

Bonfiglioli proudly serves all packaging sectors. We specialize in the use of the most advanced technologies, covering a diverse set of container types and dimensions.

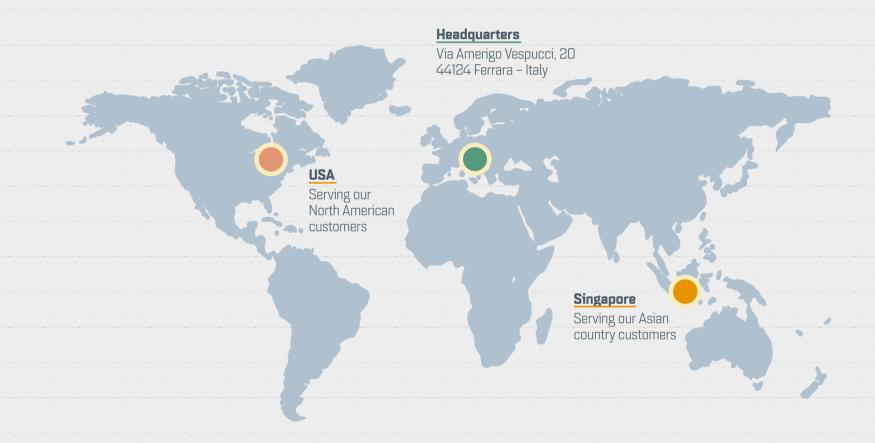






GLOBAL PRESENCE

Bonfiglioli Engineering is present in over 75 countries worldwide, making an impact on the efficiency and the safety of customers served by the packaging industry worldwide. Every customer is a priority and receives prompt and reliable assistance throughout the entire equipment life cycle.



Assistance via
Phone and E-mail
to collaborate with
customer's on-site
technician.

Service Line for services and support information, staffed with qualified experts to provide services from 7:30am to 9:00pm Central EU time. Extendable times to help answer queries in every part of the world.

Trouble Shooting
Support to help
identify causes of
breakdown and
provide remedies.

On-Site Field Visits solve problems at the site with technical support.

Remote Assistance, Bonfiglioli Engineering Specialists have direct access to diagnose problems promptly, change parameters, evaluate images and analyze software performance.

TECHNOLOGIES ADOPTED

Bonfiglioli offers only non-invasive & non-destructive technologies in its package integrity solutions ensuring:

ABSENCE OF LEAKS
INTEGRITY OF HEADSPACE GAS CONTENT
ABSENCE OF VISUAL DEFECTS

Container Closure Integrity Testing (CCIT):

Vacuum & Pressure Decay methods based on the principle of operation set by ASTM F2338-09 (Standard test method for non-destructive detection of leaks in packages).

Headspace Gas Analysis (HGA):

Non-invasive & non-destructuve method based on TDLAS. It guarantees the maintenance of sterility and stability in filled and finished containers. It is ideal for checking the integrity of freezedried products & oxygen-sensitive liquid products, according to USP General Chapter (1207) "Package Integrity Evaluation - Sterile Products."

Visual Inspection (VI):

Automated camera based measurement technology detecing visual defects such as: presence of foreign particulate matters, cosmetics defects, false fill level & product color, according to USP General Chapter (790) "Visible particulates in injections" and USP General Chapter (1790) "Visual inspection of injections."



PRODUCT PORTFOLIO

Bonfiglioli Engineering provides dedicated solutions for Pharmaceuticals, Food and Beverages, Plastic, Metal Cans and Aerosols, Chemicals and Personal Care and more, effectively meeting all industrial needs with state-of-the-art technology.

Also available are 100% non-destructive solutions for laboratories as well as in-line applications.







IN-PROCESS CONTROL







COMBI MACHINES



QUALITY ASSURANCE AND REGULATIONS

Bonfiglioli Engineering is an active participant in international industry associations, interest group communities and task forces, which support the pursuit of absolute quality, attested by our ISO 9001:2015 quality standard certification.

The solutions that Bonfiglioli Engineering designs, develops and delivers are meant to comply to norms and regulations such as:

PHARMACEUTICALS

- ASTM F2338-09 (Vacuum Decay Leak Testing)
- USP 1207 (Container Closure Integrity Testing)
- FDA 21CFR PART 11 ELECTRONIC RECORDS;
- | ELECTRONIC SIGNATURES
- **EUDRALEX VOLUME 4 ANNEX 15 QUALIFICATION AND VALIDATION**
- EUDRALEX VOLUME 4 ANNEX 11 COMPUTERIZED SYSTEMS
- | GOOD MANUFACTURING PRACTICES AND GAMP

AEROSOLS

- | ADR (Aerosol Dispensers)
- | FEA (European Aerosol Federation)
- | DOT REGULATIONS

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Company with management system of certified quality according to the norms ISO 9001:2015





