



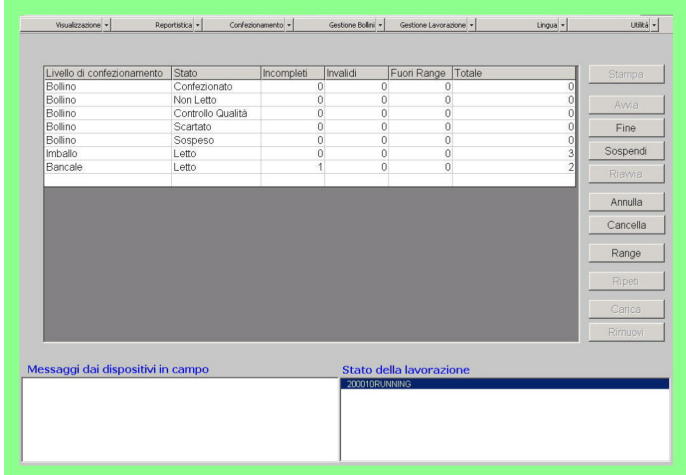
SPY CODE RECORDER

Spy Code Recorder is a “Track & Trace” system and it has been developed by T.I. Engineering Deutschland GmbH with the financing of the Land of Brandenburg, to satisfy the needs of Italian pharmaceutical industry .

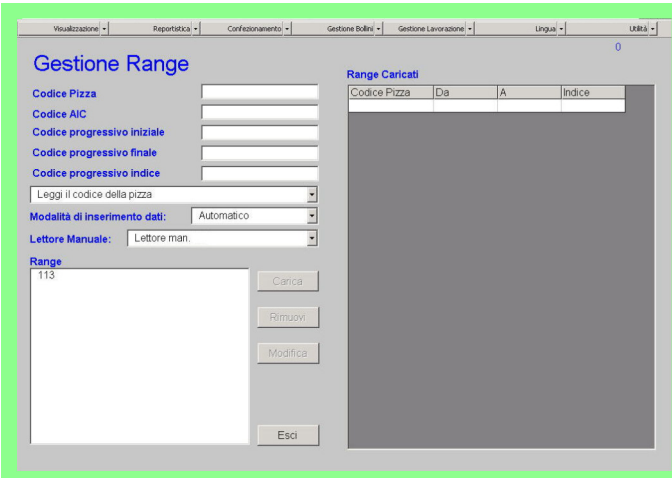
The technical know-how reached during the development of the system and the flexible nature of the system itself, allow us to present *Spy Code Recorder* not only to the pharmaceutical companies but also to all those companies that want an efficient traceability system to track their products.

The system aims to identify, record and manage each single product and/or lot number during the whole production and packaging process on production and packaging lines both automated and not.

This system securely stores the collected data and it displays, records and manages the supervised data.



Livello di confezionamento	Stato	Incompleti	Invalidi	Fuori Range	Totale
Bollino	Confezionato	0	0	0	0
Bollino	Non Letto	0	0	0	0
Bollino	Controllo Qualità	0	0	0	0
Bollino	Scartato	0	0	0	0
Bollino	Sospeso	0	0	0	0
Imballo	Letto	0	0	0	0
Bancale	Letto	1	0	0	2



Gestione Range

Codice Pizza:

Codice AIC:

Codice progressivo iniziale:

Codice progressivo finale:

Codice progressivo indice:

Leggi il codice della pizza:

Modalità di inserimento dati:

Letto Manuale:

Range:

Range Caricati:

Codice Pizza	Da	A	Indice

Buttons: Cancella, Rimuovi, Modifica, Esci

The structure of the traceability system assures system’s flexibility and the possibility of expanding it in the course of time, without affecting negatively the processes.

The possibility of tracking products and/or lot numbers is only one of the many functions *Spy Code Recorder* has, since the system has been created to optimise the performances of production and packaging lines too.

According to the regulation of the European Community n. 178 (28th January 2002), it is compulsory for food farming companies to have a traceability system since the 1st of January 2005. The aim of a traceability system is to avoid food crisis or, at least, to manage food emergencies in the best way. In fact a traceability system allows to promptly withdraw not conforming or bad products from the market in order to avoid scandals and a hard decrease in selling.

Traceability is not only an obligation but companies can profit from it because it assures transparency into the production process and this allows to strengthen the guarantee of product's quality, both from a safety and hygiene point of view and from a products typicity point of view. Moreover a traceability system allows to improve the information flow about a product and to increase the consumer's confidence in that product and in the company too. Traceability is a proper instrument to control and manage all the processes from the origin of the raw materials to the logistics and distribution. A greater efficiency in the production process and a net decrease in the production waste are Further goals which can be reached thanks to an appropriate tracking system.

Spy Code Recorder is not a product but it is a solution, consequently it can be built and assembled according to the characteristics of each company and to the customer's specific needs.

T.I. Engineering Deutschland GmbH studies and develops with the customer the solution which best fits the single production process. The tracking system can be totally automated, if the production process is automated too, or it can be totally manual. If the tracking system is totally automated, each operation, normally carried out in an automated manner, can be also carried out manually in order to remedy each problem that may happen during the production or packaging process.

Spy Code Recorder can be developed by using both barcode technology and the more modern radio frequency identification (RFID) technology.

Applications:

The whole *Spy Code Recorder* system for the pharmaceutical packages tracking was installed in the plant of a well-known pharmaceutical company in Tuscany and at the present it is in the validation stage.

T.I. Engineering Deutschland GmbH made a technical feasibility study regarding a tracking system in two important German food companies.

Spy Code Recorder has been developed in our office in Biotechnologiepark in Luckenwalde thanks to the financing of Land of Brandenburg and of European Community.



T.I. Engineering S.r.l.
Via Fiorentina 359 - 51100 Pistoia - Italy
Tel. +39 0573 986140 - Fax +39 0573 985560
Email: tiengineering@tiengineering.com



Im Biotechnologiepark / CCB
D-14943 Luckenwalde - Germany
Tel. +49 003371 681390 - Fax +49 03371 681391
Email: tiengineering@bio-luck.de

Traceability: guaranty of transparency and quality