

IBW

SCOPE OF WORK :::

Since 20 Years Pharmatech, Ingenieurbuero Weber is consulting the Pharma Industry in the field of product packaging and anti counterfeit solutions. We help you to meet both, high packaging standards and product safety. In the last years the industry has developed ways to prevent counterfeit medicines in the market. The European Union is taking the lead and has come up with the Directive 2011 /62/Eu , that will be in effect by the end of 2012. (please see below)



To built a future safe investment

we start our work with the analysis of your current situation and look at your future plans and give recommendations.

Pharmatech helps you to identify the right supplier with optimal systems and equipment to meet your needs.

Due to our experience in the Pharma packaging industry, we can rely on outstanding partners and have a network of leading producers of machinery. All of them have specialized in various packaging technologies.

Our offer covers the following fields.

Current situation analysis

We are looking at the facts about your current packaging and give you advice on how to improve and reduce cost with the existing machinery and packaging steps. The requirements of GMP are taken into account.

Future Analysis

After the situation analysis we care about your future and how to improve your production.

If you have the need of an additional packaging line, we help you create a URS (User Requirement Spec.) or FSR (Functional Specification Requirement) which is the basis for quotations for equipment and software solutions like, ERP (Enterprise Resource Planning) SAP / Oracle / IBM or MES (Manufacturing Executions Systems)

RFP

Based on the URS and FSR, and considering the given time frames, we supply a RFP (Request for Proposal) to the jointly selected suppliers and have them comment on the URS and submit a quotation.

Decision Phase

After a detailed internal discussion and comparison of the suppliers able to meet the URS our client selects and decides, which of the suppliers he wants to use .

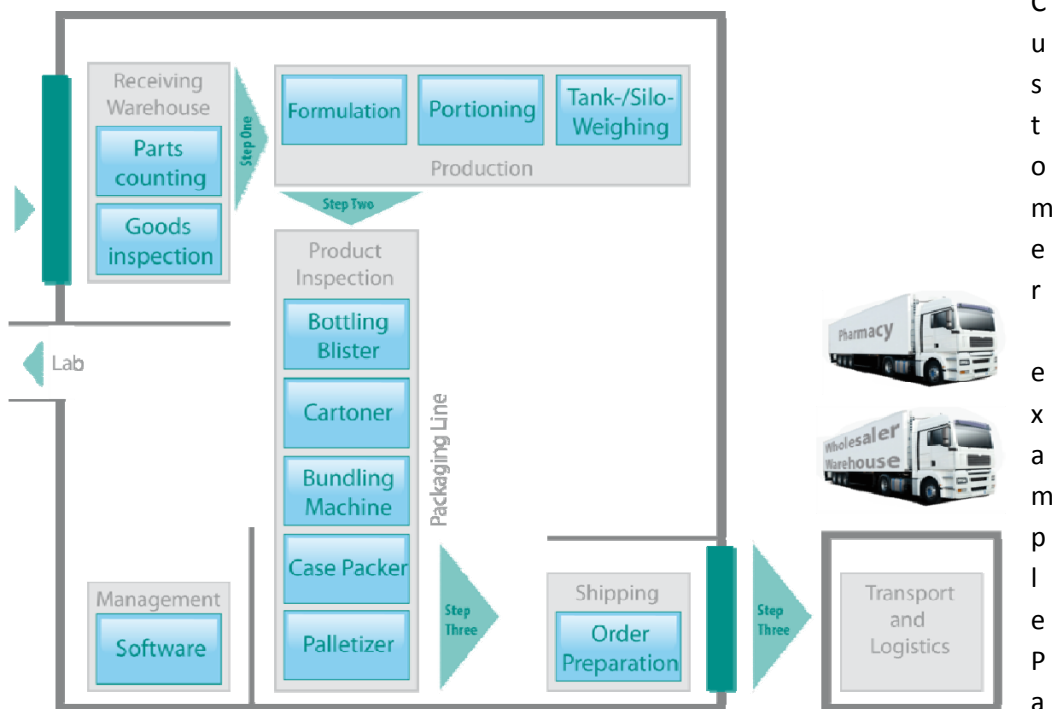
Implementation Phase

During the time between order and installation we are taking care, that specs are met and suppliers meet the time lines of the Roll Out.
We are conducting FAT (Factory Acceptance Tests) at the supplier sites and further SAT (Site Acceptance Tests) once the equipment has been installed.

Service

Pharmatech is offering a complete consulting solution . Advice on equipment, software, production improvement and very important Track & Trace solutions

Customer Example



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Packaging Equipment

In the Pharma industry there are various forms packaging in use. For each particular form, there are specialized companies manufacturing the adequate machinery. Important is the easiness to operate and short change over times.

Just a few examples

Vial packaging

Vials can be packed in different ways. Single , in groups, standing, laying . Before the Vial is placed in the box, either by top loaders or side loaders, it can be controlled by a vision system if the content is contaminated , or if there are cracks in the glass. Is the label in the right position and if the cap is placed correctly. The Vision tools are again manufactured by specialized companies.



Tablet packaging

The most used form to pack tablets is the blister or the bottle. Where as the blister has a defined numbers of pockets, the bottle filling machines use a counting mechanism. The blister machines consist of a vacuum forming part a filling part and a sealing station.

After the sealing station the blister runs through camera and soft ware based blister inspection unit. This unit identifies colour , cracks, shape of the tablet. If either one of the criteria does not compare with the stored criteria, the blister is ejected and the machine stops.



Wallet packaging

The blisters are not packed in boxes, but in folded cardboard . This packaging form is increasingly popular because of its easy use. The machines offer a fast format change over and run on an stop and go mode.



Syringe packaging

The prefilled syringes are offering an optimum of patient safety. Sterile, clean, easy to use. The risk of contamination or infection is reduced. The syringes are either packed by top loaders or side loaders into the box, where card board fixtures are placed and the syringe is snapped in. Prior to this step the syringe is inspected by vision systems, identifying filling level and identifiers like either 2 D codes or colour rings on the syringe body. ETC

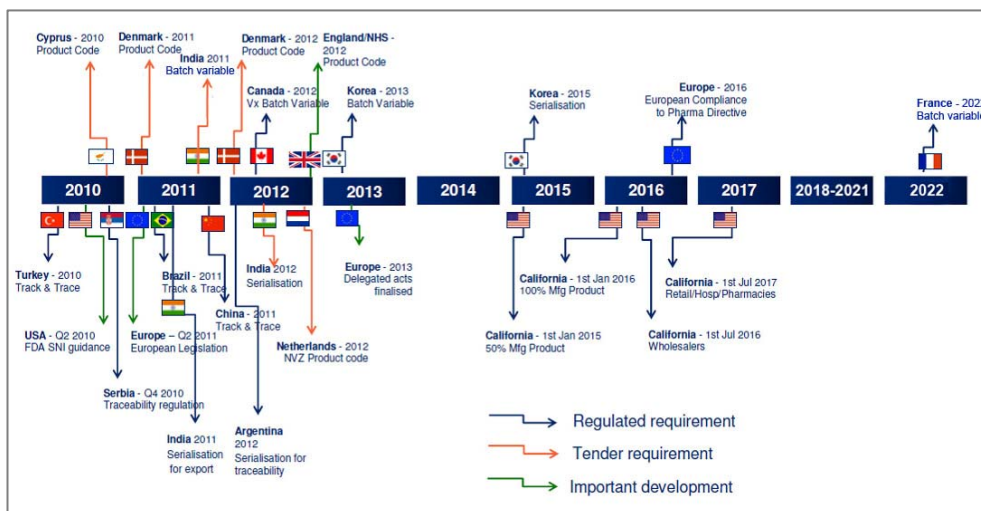


Counterfeit Medicines

More and more people are dying globally due to counterfeit medicines. These falsified products often contain the wrong medication and are contaminated. Most of the times counterfeit products are ordered through the internet, but are sold in pharmacies as well, world wide. In particular so called “ Life Style” and other high cost medicines like antibiotics, cancer preparations and many other medicines can be found in the list of counterfeit pharmaceuticals. Thousands of people die from taking these products in Europe. Looking at the eastern countries, some 20 % of the pharma products in these markets are falsified.

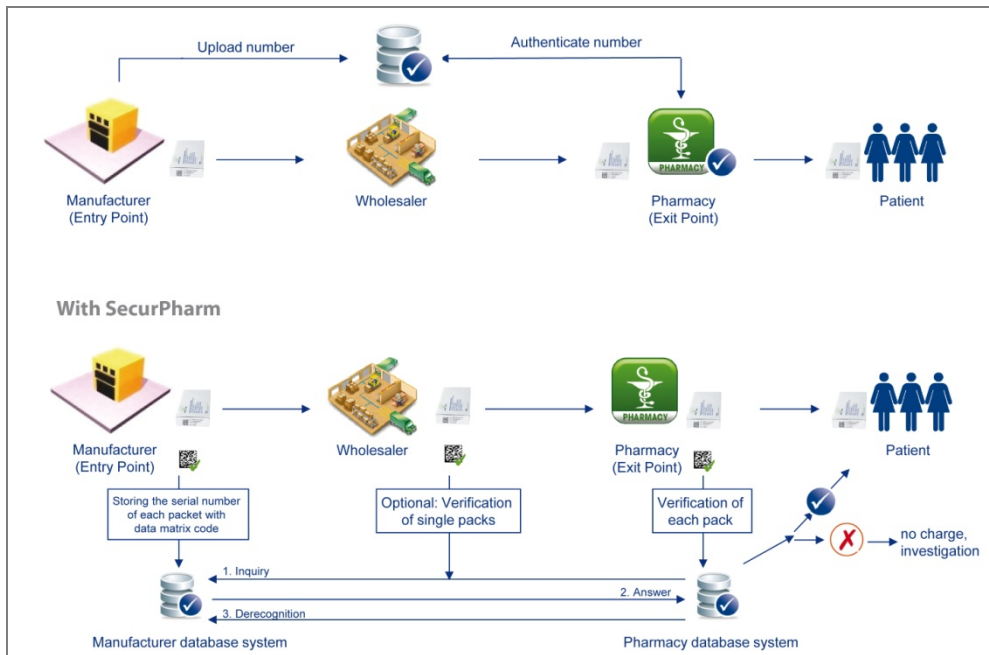
Pharmaceutical companies producing the original products suffer from a multi million € loss and great image damage

Global Legislation



The countries of the world are starting to get active in preventing falsified medical products getting into the market and work on requirements and laws. The individual countries have chosen slightly different solutions

End to End in Europe



TRACK & TRACE:::

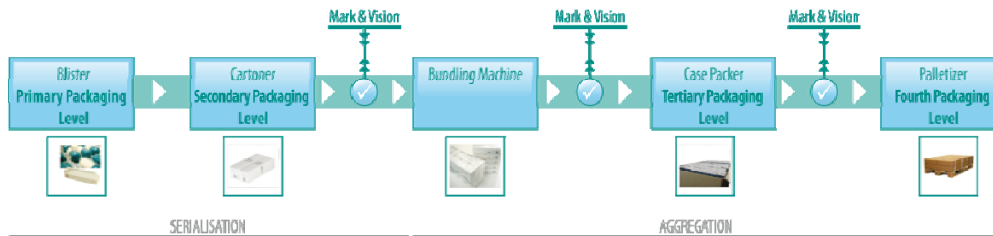
The goal of Track & Trace is the traceability of a single pack through out the supply chain. It is anticipated, that the 2D Code or Datamatrix Code will be used in Europe. The leading position of the European Pharma Industry will influence other countries to adopt the same system. The 2 D Code contains a GTIN No. (Global Trade Identification Number) a Serial number, a Lot number and an Exp. number. Pharma Company has stored these numbers. At the pharmacy a 2 D code reader is used and connects online to the company server of the producing company, where the product is identified as an original product.

Example of a 2 D Code



Example of a Pharma packaging line

The 2 D Code is applied at the Mark and Vision Stations



The above presentation gives you short overview about our field of work. We have worked over the past years with many national and multinational Pharma Companies and have given our engineering input and consultation to them.

Just some References: Abbott , Allergan, Astra Zeneca, Bayer Schering, Boehringer Ingelheim, Baxter, B. Braun , Cilag, Glaxo Smith Kline, Haupt Pharma, Lilly, Leo Pharma, Merck Serono , Novartis, Pfizer, Roche, Solvay ,Teva ,Ypsomed, Zentiva.

Hanns Weber

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