

# METTLER TOLEDO

# PCE- Pharmacontrol Electronic GmbH



**GARVENS**  
Checkweighing

**HI-SPEED**  
Checkweighing

**CI-VISION**  
Vision Inspection

**METTLER TOLEDO**

**SAFELINE**  
Metal Detection & X-ray Inspection

**EAGLE**  
Formerly Smiths Detection PID

**PCE**  
Pharma Vision Inspection

**Willkommen** **Bienvenue**

**Welcome**

yôkoso

welkom

**Benvenuto**

**Bienvenida**

tervetuloa

รับเสด็จ

欢迎

# PCE – Solução de Rastreabilidade

Inovação e Segurança  
para a Indústria Farmaceutica Mundial

Pharmacontrol Electronic GmbH  
A member of Mettler-Toledo Group  
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+55 11 5044-4535

We are certified  
DIN EN ISO 9001:2000

Register No.: 73 100 2566



**20 YEARS**  
Security for pharma packaging

# METTLER TOLEDO Group

**METTLER TOLEDO is a global manufacturer and marketer of precision instruments for use in the laboratories, manufacturing, and food retailing.**

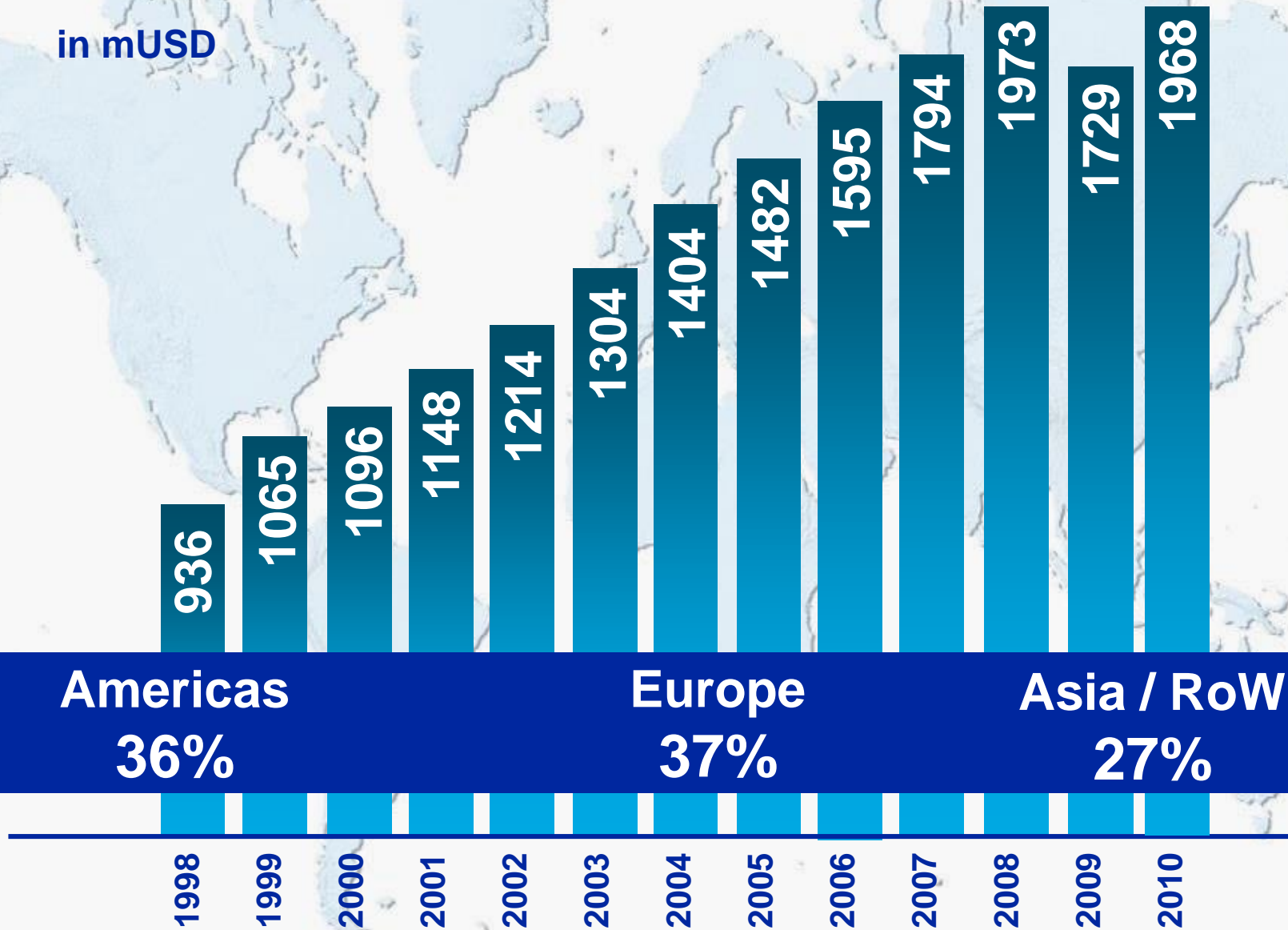
- **Worldwide presence**
- **11'200 employees**
- **Sales USD 1.968 billion in 2010**



# Group Sales per Region



in mUSD



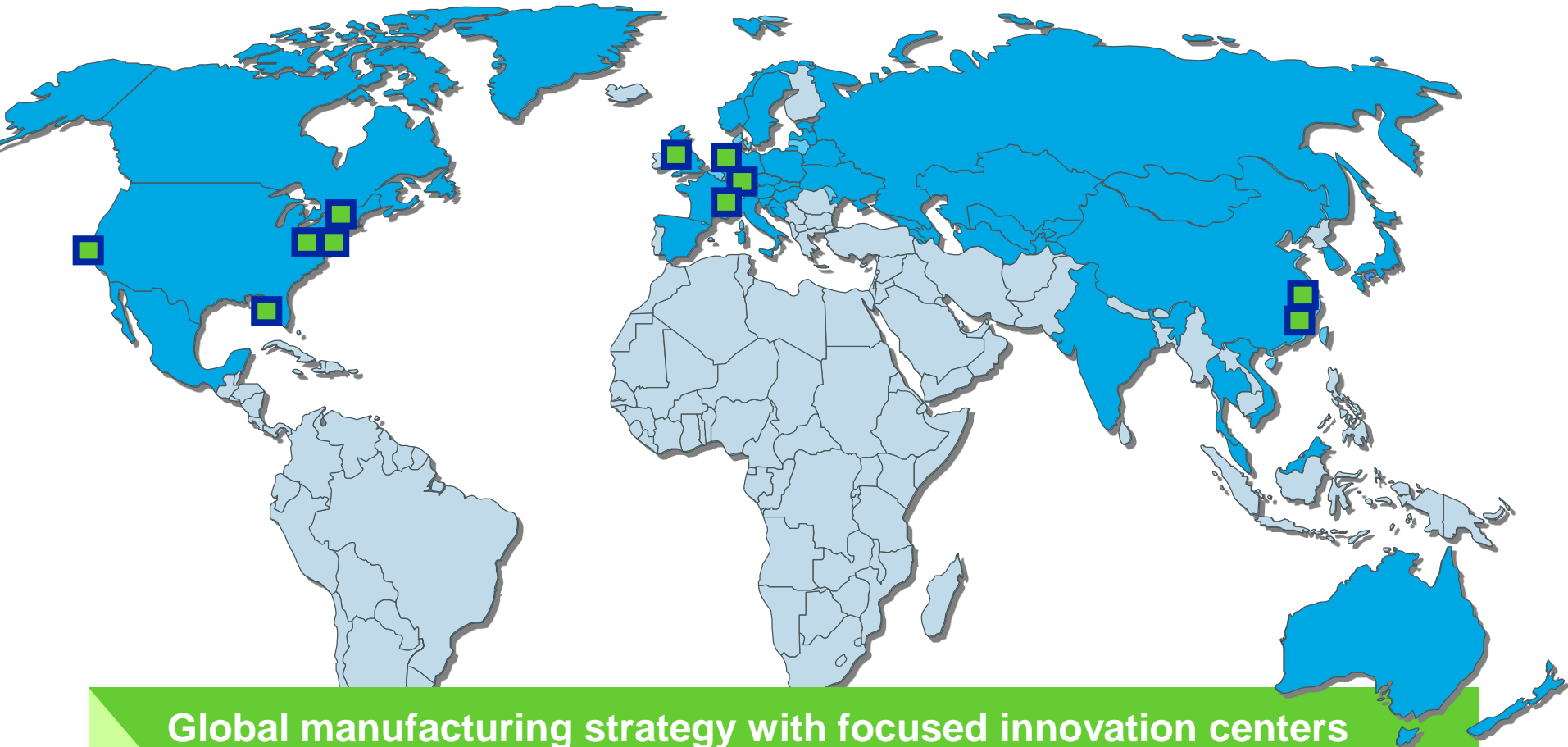
# Global Manufacturing, Sales & Service



 Innovation Centers

 MT Sales & Service Organizations

 MT Partners



Global manufacturing strategy with focused innovation centers  
Approx. 4'800 employees in sales & service in 35 countries

# Pce References including T&T and France Code



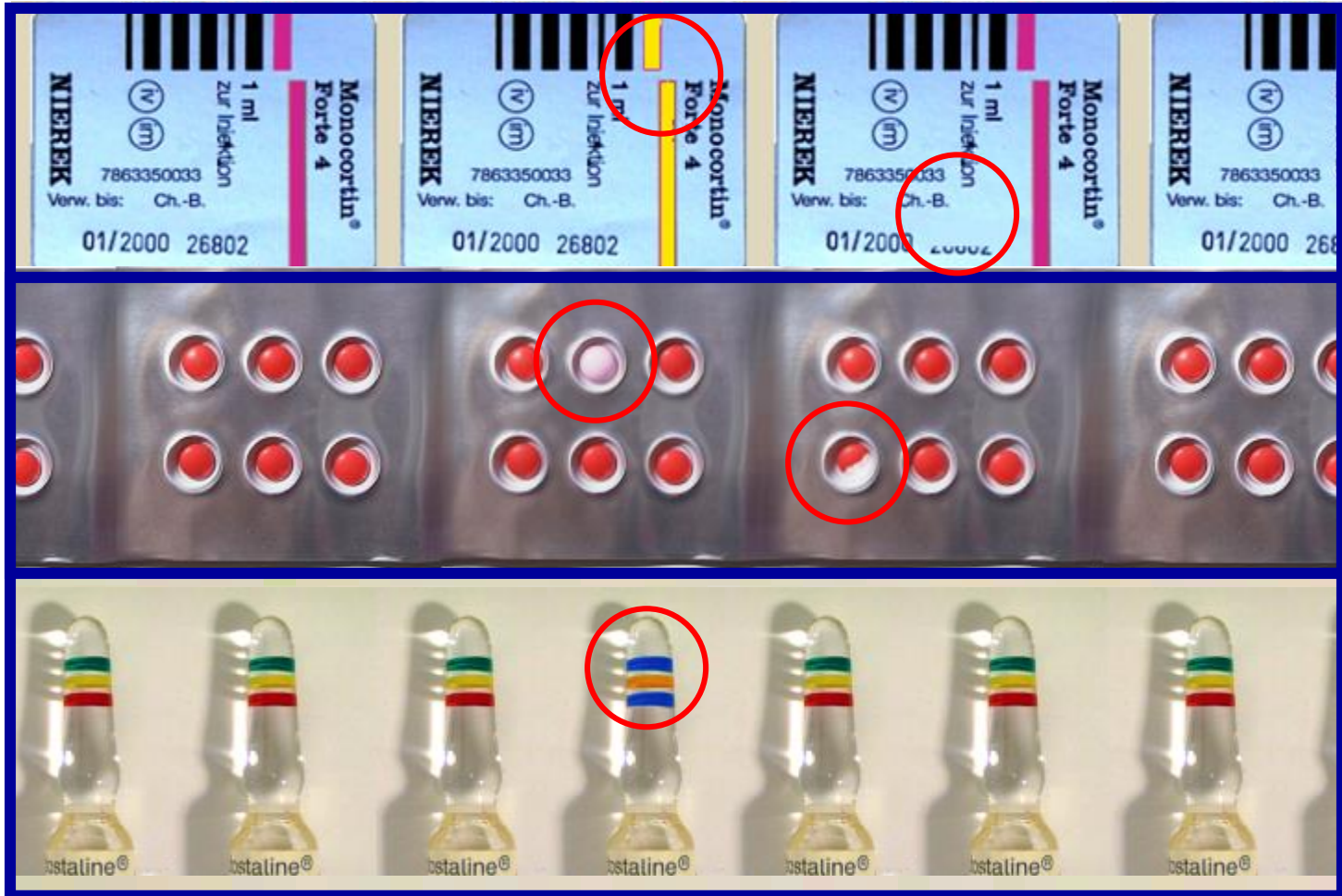
# Control = Security!!

Aggregation and mix up control between product, leaflet, box and expire date





# Packaging Control



# Standard Solutions



**OCV-OCR-Barcode  
Datamatrix**



**Product Control**



**Colour Inspection**



**Blister Inspection**

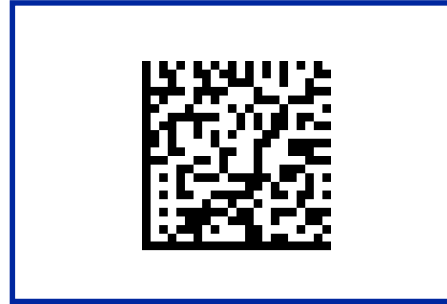


**Megapixel**



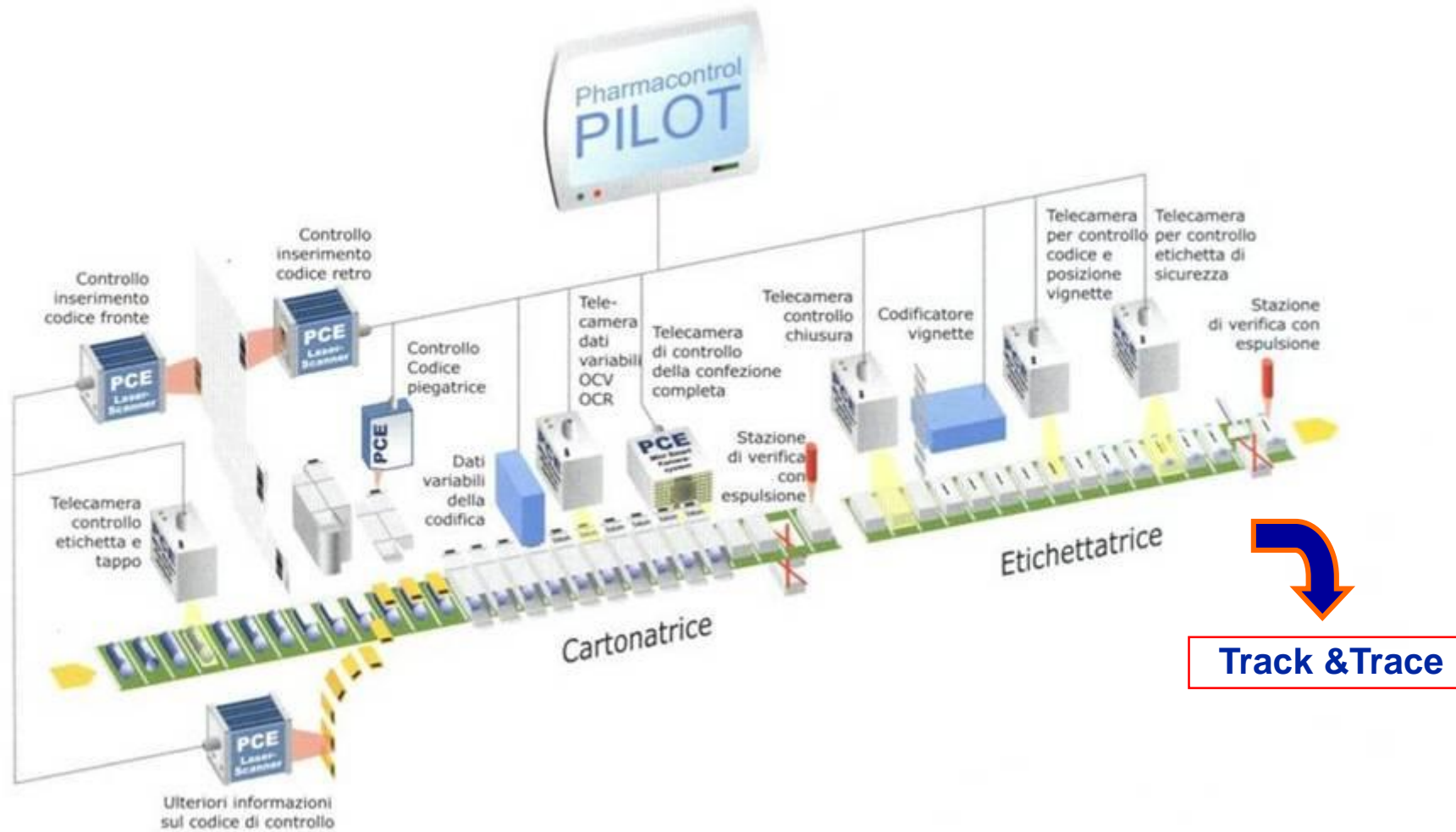
**Vibro Inspection**

# Scalable Solutions



# Track & Trace in the Pharma industry

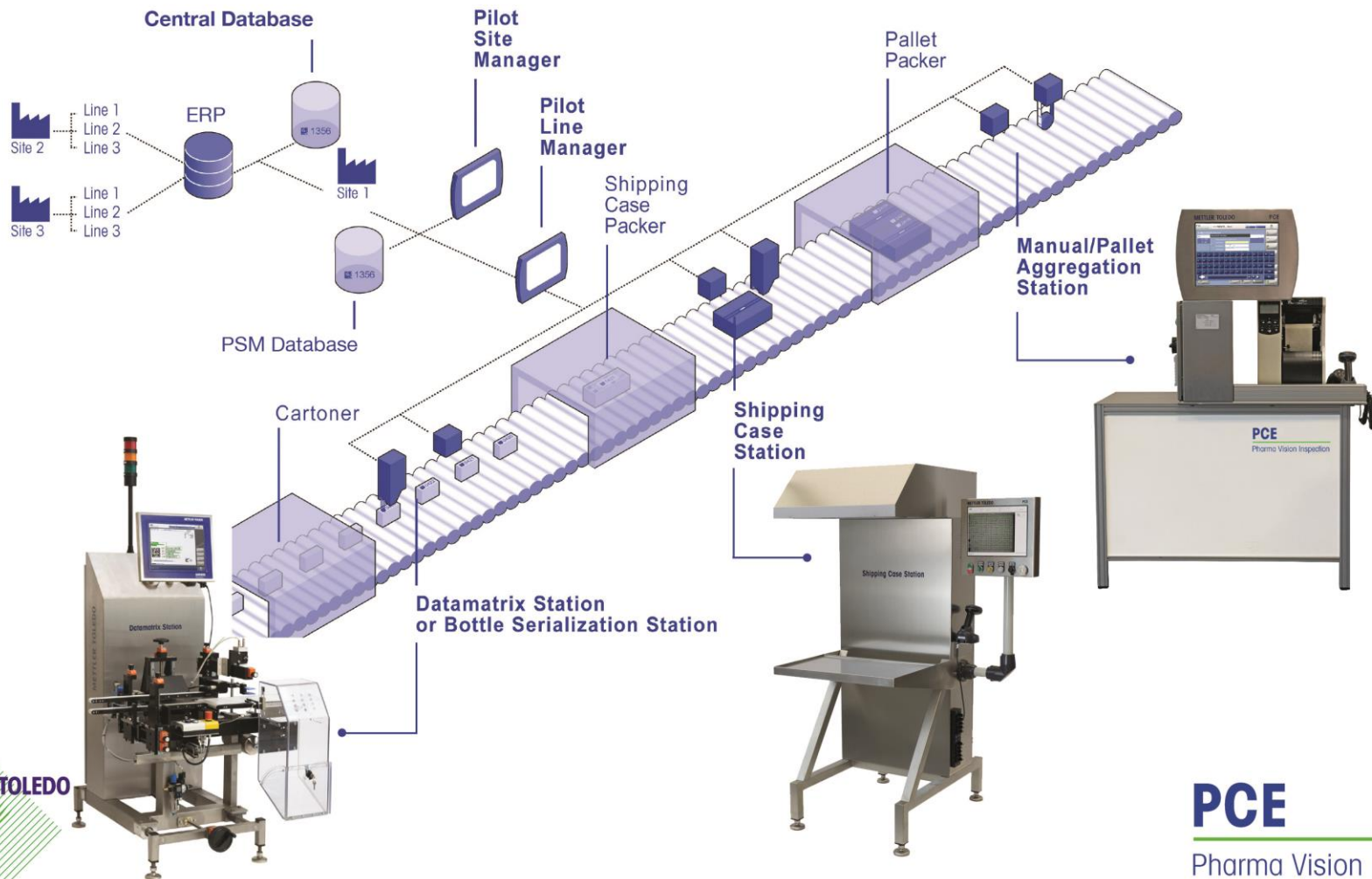
- Complete solution



# Serialization, Track & Trace Portfolio

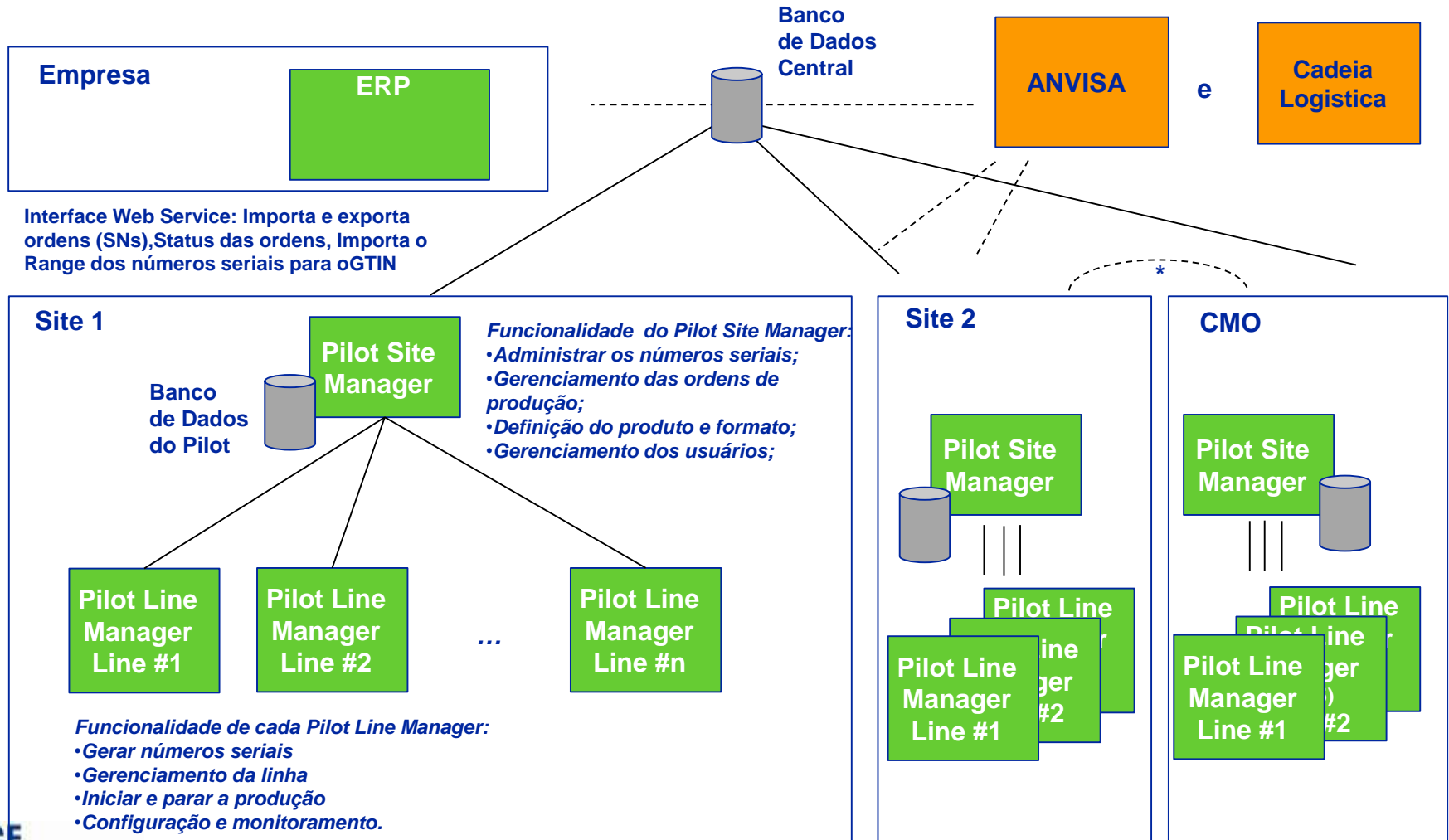
## Rastreabilidade de Medicamentos

Serialização do Medicamento • Agregação da Caixa de Embarque • Agregação do Pallet

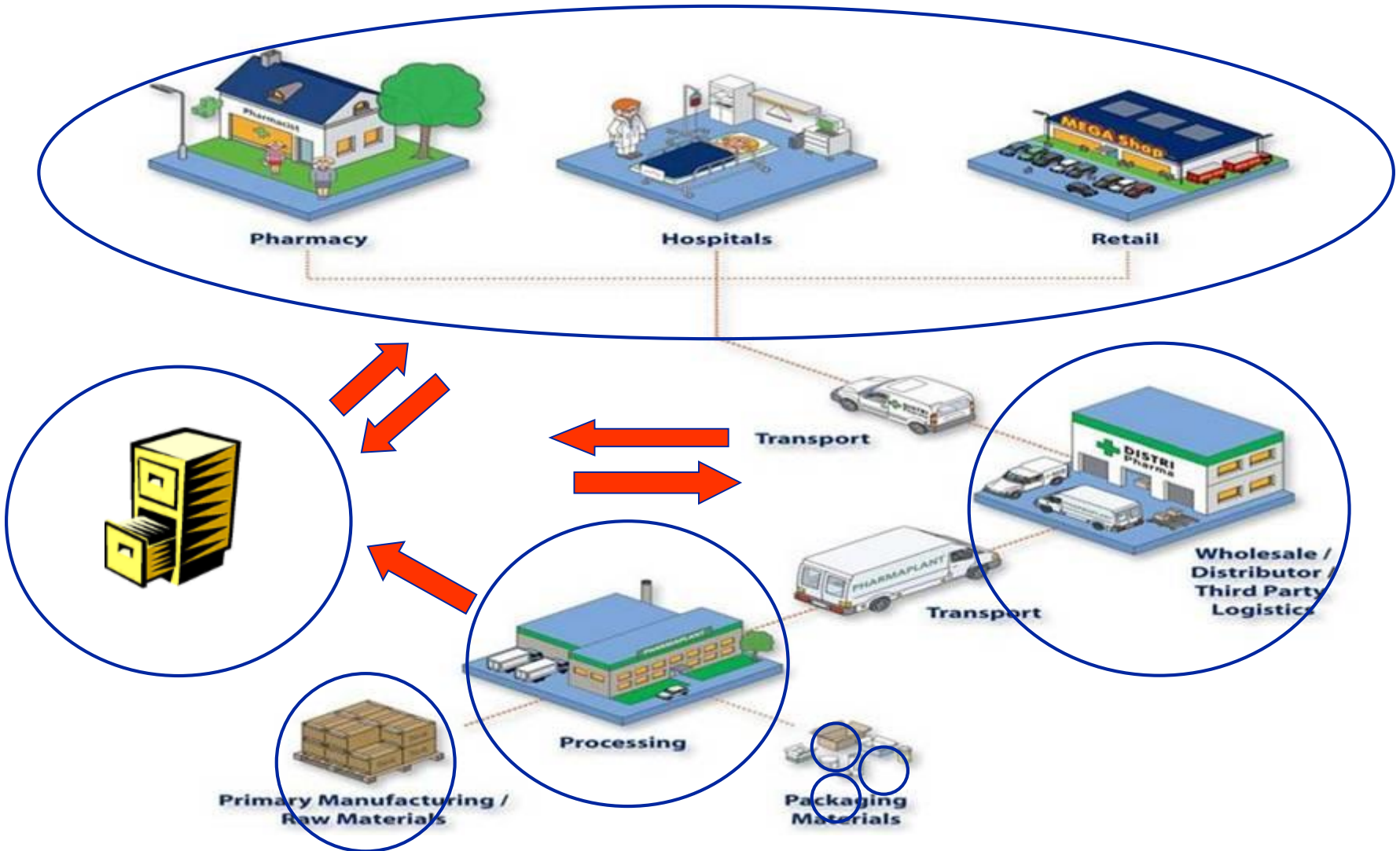


# Visão geral de uma instalação típica.

Em uma situação típica cada linha tem um PLM e um PSM para o site. Os quais despacham ordens de produção e números seriais e comunicam com o ERP da empresa.

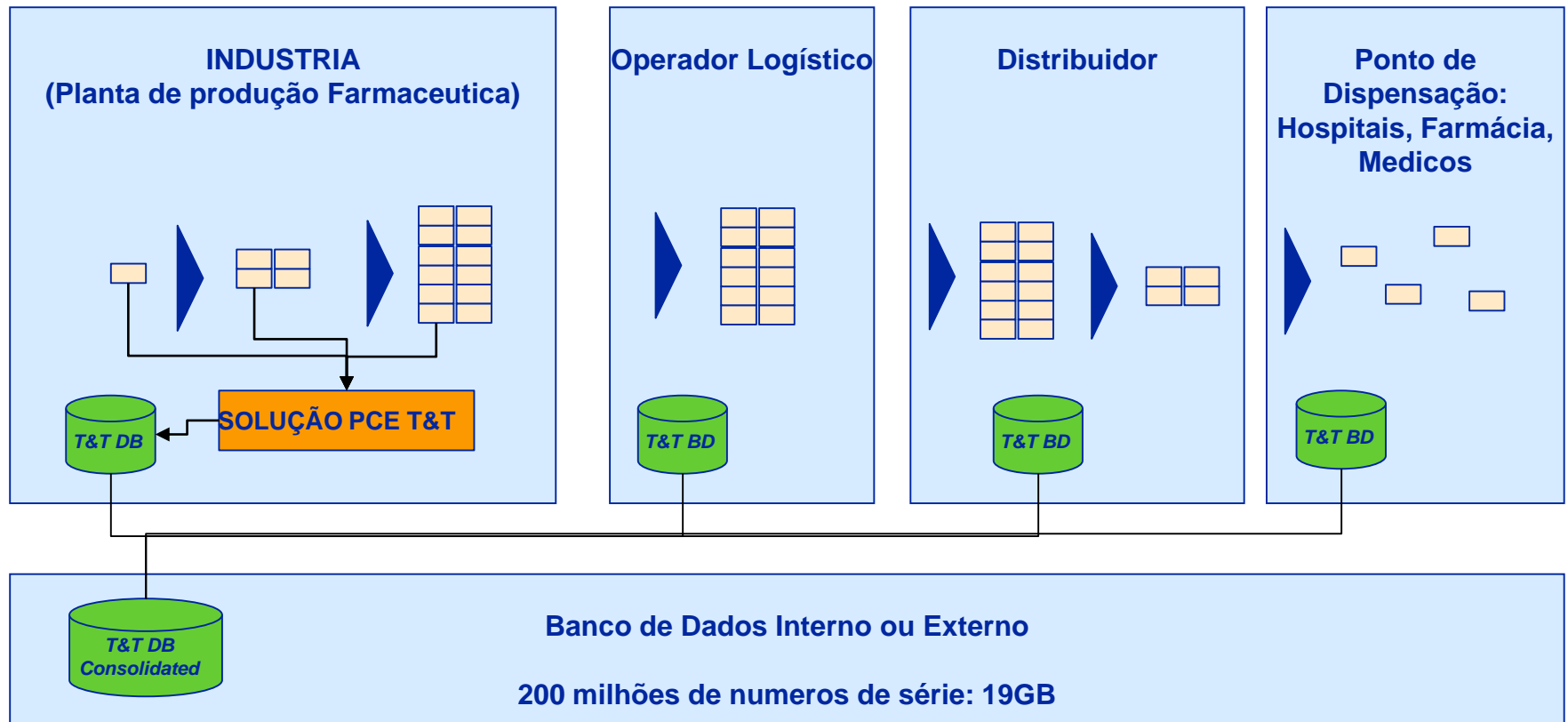


# Track & Trace in the Pharma industry



# Integração do Sistema

Os dados de T&T de toda a cadeia desde o laboratório ao ponto de dispensação possuem uma comunicação. Nossa solução T&T fornece uma interface de conexão para estes dados na Industria.



Unidade primária para serialização.



Dados T&T : Serial-No, Exp, Lot etc..



# Entrada da Ordem de Produção

## PLM Input Order Number



Entrada  
Manual



Download  
por scanner  
manual

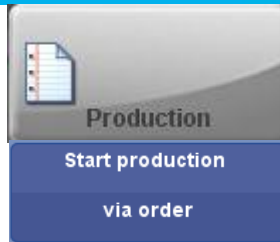


Total Integração  
com ERP



# Início de Produção

- Verificação e Aprovação da Ordem de Produção
- Possibilidade de Edição
- Criação de Relatório, para ser assinado
- 2D Criado pelo sistema



Order status: test order 1

Rank ^	Application ID	Format	Value
0	(10) BATCH/LOT	x..20	1212
0	(17) USE BY OR EXPI...	yyMMdd	2012-12-12
1	(##) DMX	01-21-17-10	
1	(01) GTIN	n14	12345678901231
1	(21) SERIAL	x..20	
1	(R01) SER ALGO	x..10	INC
1	(R03) SER LENGTH	n2	12

Back PDF Report Edit Order data Start production

## Conexão com periféricos



Scanner Laser



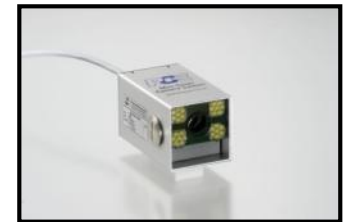
Sensore Spot



Luminescence sensor



Mini Lan



Lan Camera



Manual Scanner



Megapixel Camera

Any Third Part  
Software & product  
with LAN/RS232  
interface

# Impressoras

## Pce Product third part component

TIJ

Thermal ink jet



REA JET



CIJ

Continuous Ink Jet



Laser



Thermal Transfer



markem·imaje

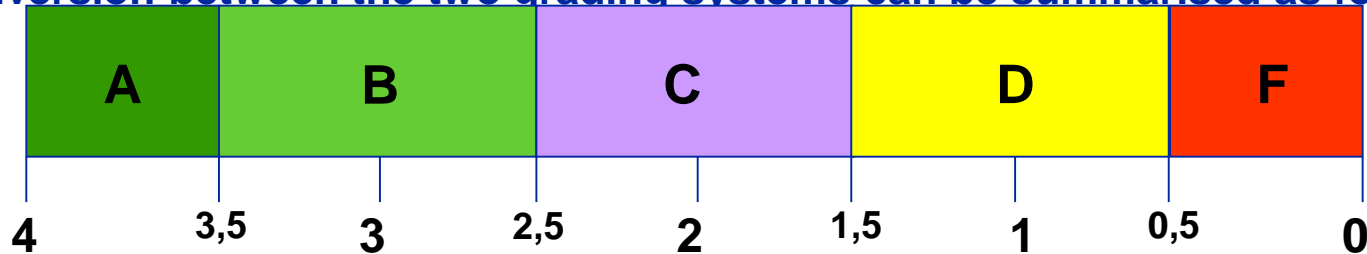


# Print Quality / Grading of Data Matrix

## Grade

- The Grade is defined in ISO/IEC 15415 as the overall symbol grade.
- For Grading a numeric value is given (4 being the best and 0 the worst).
- ISO/IEC 15415 was based upon – and is fully compatible with – the ANSI verification methodology. In ANSI, alphanumeric scale from A to F is used.
- Grading has to be done with certified offline equipment.

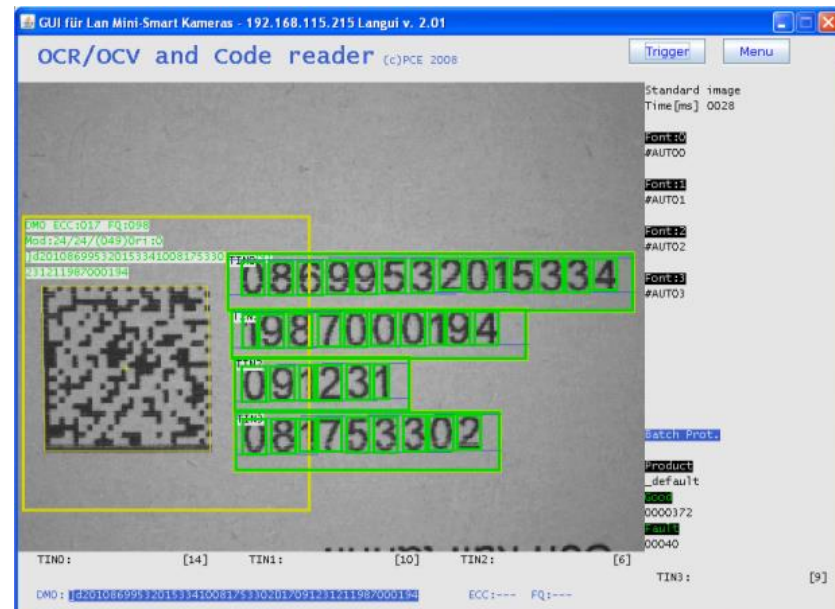
The conversion between the two grading systems can be summarised as follows:



## Serialização da unidade de venda



(713) 1234567890123  
(21) 0000001234567  
(17) 03/17  
(10) 1234RA  
(11) 03/14  
(01) 7891234123456



# Integration Vs Stand alone solution

## Integration on existing line

## Stand Alone solution



**DMS**  
Data Matrix Station



**ABS**  
Advanced Bundle Station



Shipping  
Case  
Station



Handscanner  
& Printer



# Integration Vs Stand alone solution

## Printing and Vision System Custom Integration



Ink Jet printer High Resolution (HP technology) and verification with Vision System



# Data Matrix Station (DMS)

## Datamatrix Station



1) Pilot Unit



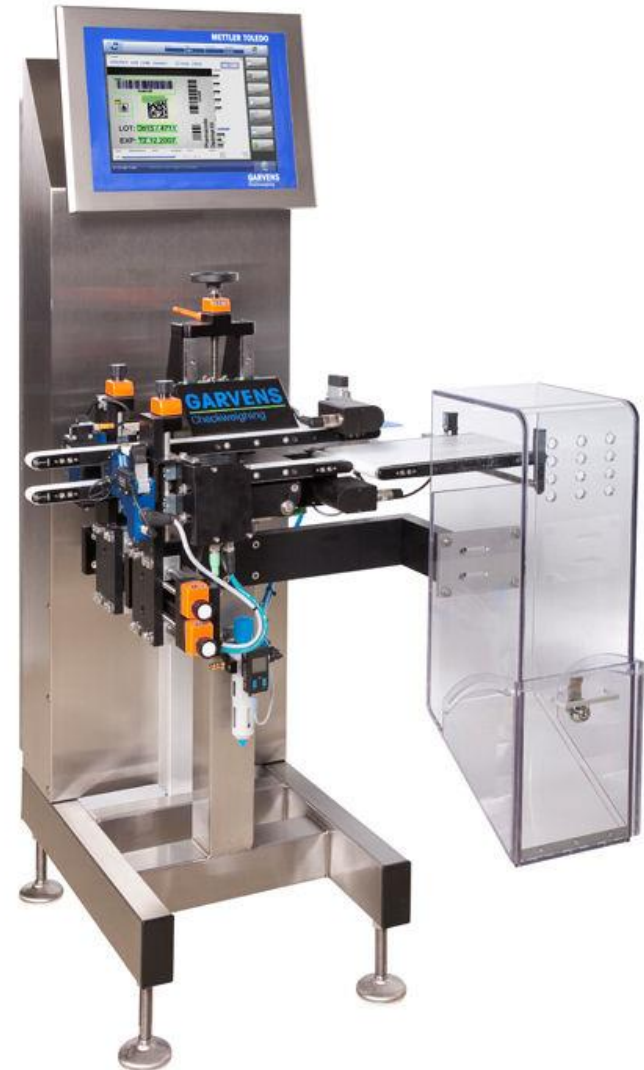
2) High Resolution Printing  
Or Laser Printer



3) Lan Camera to verify  
DM and OCV/OCR



4) Hand scanner  
Book in/Out



# Case Packer Application

## Phase 3: Shipping Case



Pilot



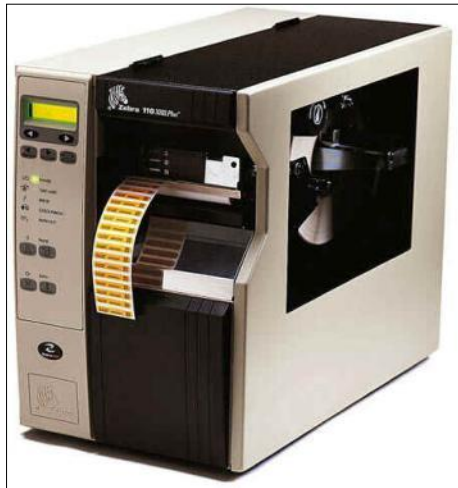
Product Box



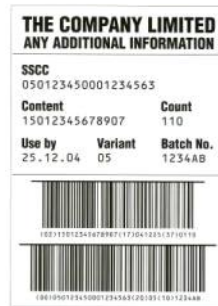
Mega Pixel Camera



Barcode Verification



Label Printer



Hand scanner  
(for T&T)

# Case Packer Application - Integration

## Phase 3 Traceability Megapixel on Shipping Case Machine



# Case Packer – Stand Alone

## Shipping Case Station Manual aggregation



# Case Packer Application

## Phase 3 Traceability on Shipping Case



(01)08691234567890  
(21)111323424679  
(17)100331  
(10)X2512061322



Product



Process image on vision system

# Pallet Application

## Phase 4 : Pallet



Pilot



Barcode for scanner



Barcode/Datamatrix  
Verification with camera



Label Applicator



Label



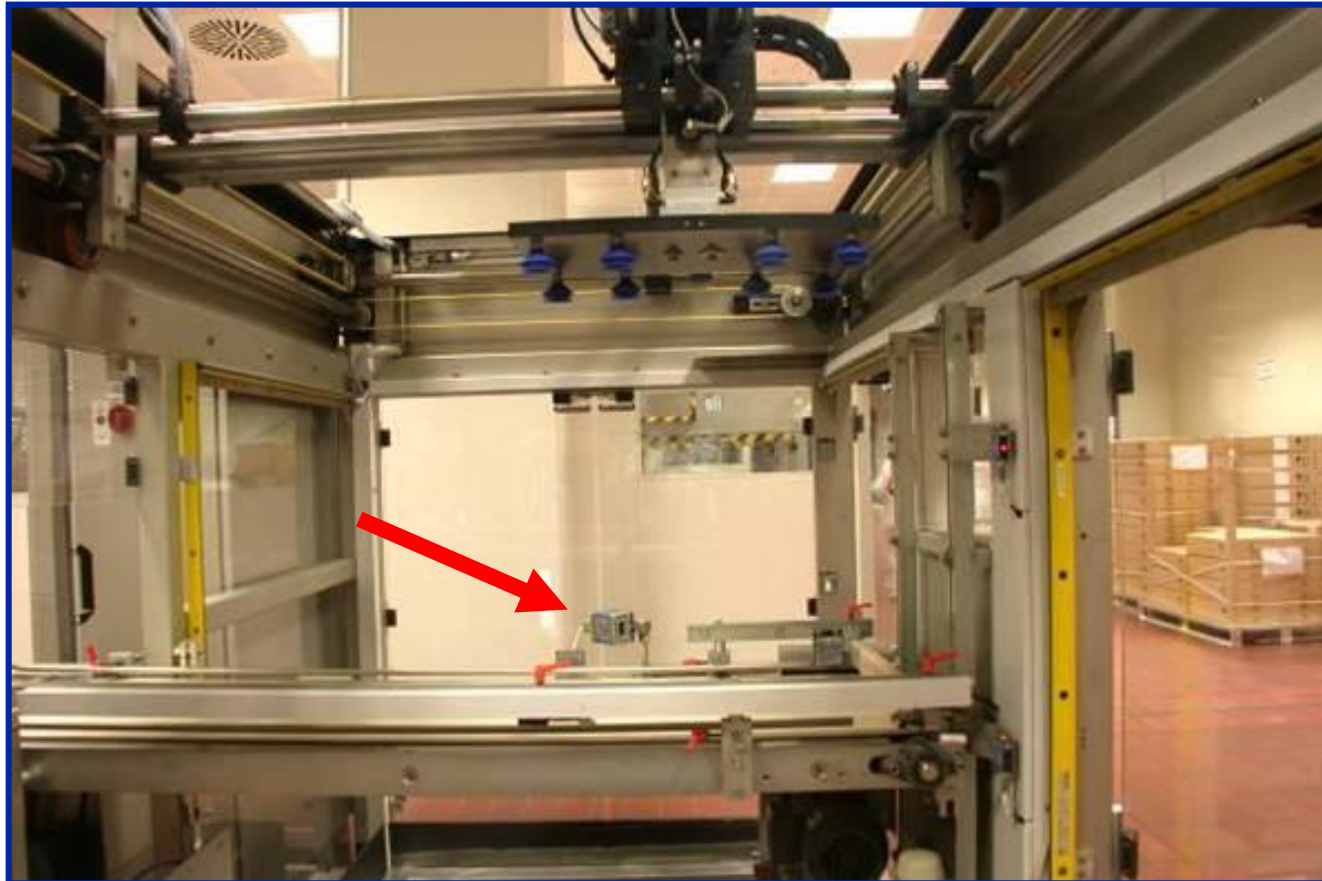
Pallet



Hand scanner  
(T&T Only)

# Pallet Application - Integration

## Phase 4 : Pallet Integration on machine



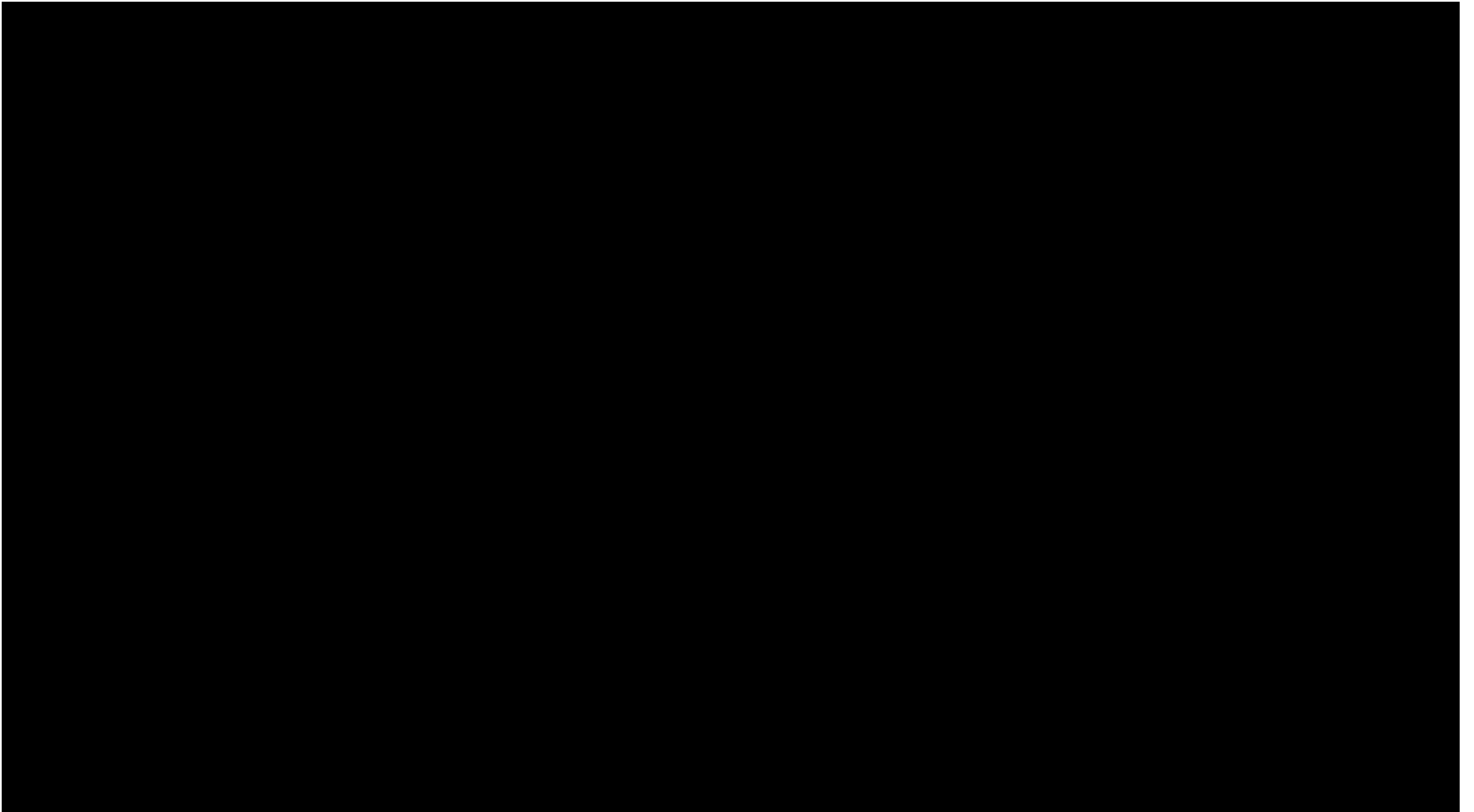
# Pallet Application – Manual Station

## Phase 4 : Pallet Manual Unit





# Video



# Overview


**PCE** *Pilot Site Manager* 

Pharma Vision Inspection

Home | Einstellungen | Verwaltung | Log Einträge | Help | pceadmin abmelden

**Date**

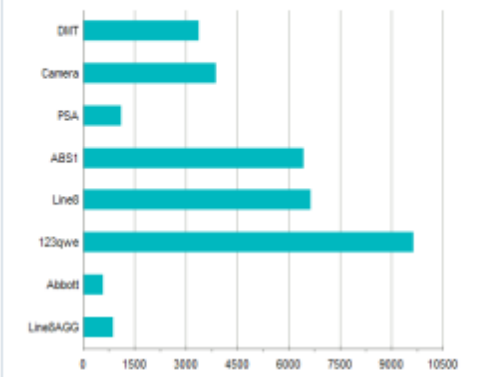
11 / 22 / 2011 - 05:39:50



**Log Einträge**

Art	Eintrag	Zeit
INFO	Benutzer pceadmin an PSA angemeldet	2011-11-22 17:39:30.302
INFO	Benutzer pceadmin an PSA angemeldet	2011-11-22 17:36:45.438
INFO	Benutzer pceadmin an PSA angemeldet	2011-11-22 17:34:21.981
INFO	PSA V1.0.0 an 192.168.115.57 (chpressler-HP) gestartet	2011-11-22 17:28:50.063
INFO	Benutzer pceadmin an PSA angemeldet	2011-11-22 16:56:07.995
INFO	Benutzer pceadmin an PSA abgemeldet	2011-11-22 16:55:39.913

**Statistics**



Line	Production
DMT	~3500
Camera	~4500
PSA	~1500
ABS1	~6500
Line8	~7000
123qwe	~9500
Abbott	~1000
LineBAGG	~1500

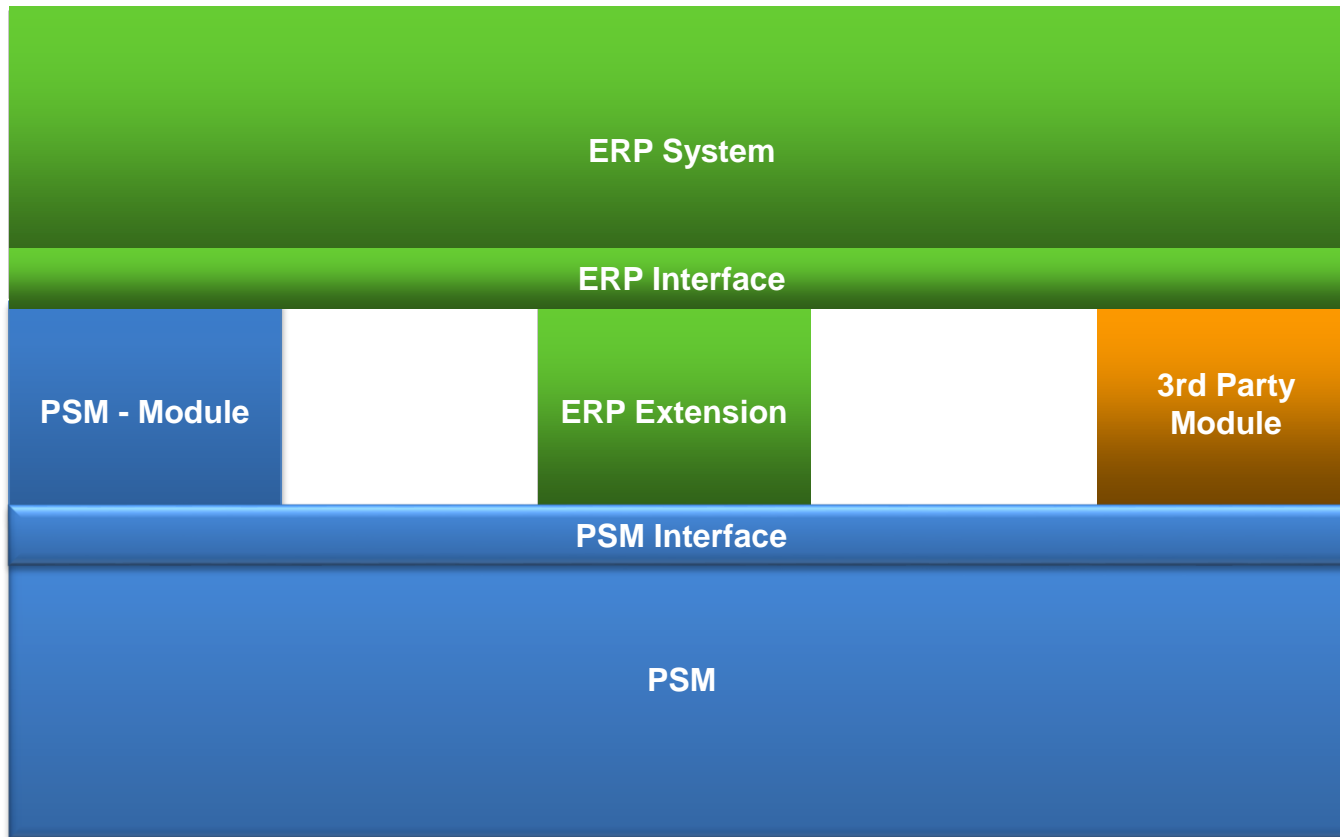
**Line Overview**

Linennamen	Beschreibung	Status
DEFAULT	default setting line	OFFLINE
local	local db line	OFFLINE
DMT	developer line	OFFLINE
Camera	215 Camera Test System	OFFLINE
PSA	Pilot Server Application	OFFLINE
ABS1	ABS test station	OFFLINE
Line8	Merck Line 8	OFFLINE
123qwe		OFFLINE
Abbott	Abbott Test line	OFFLINE
LineBAGG	fg	OFFLINE

Tela Inicial PSM

- Visualização do status de todas as linhas.
- Log de eventos das estações PLM.
- Gráfico de produção das Linhas.

# Conexão PSM – ERP

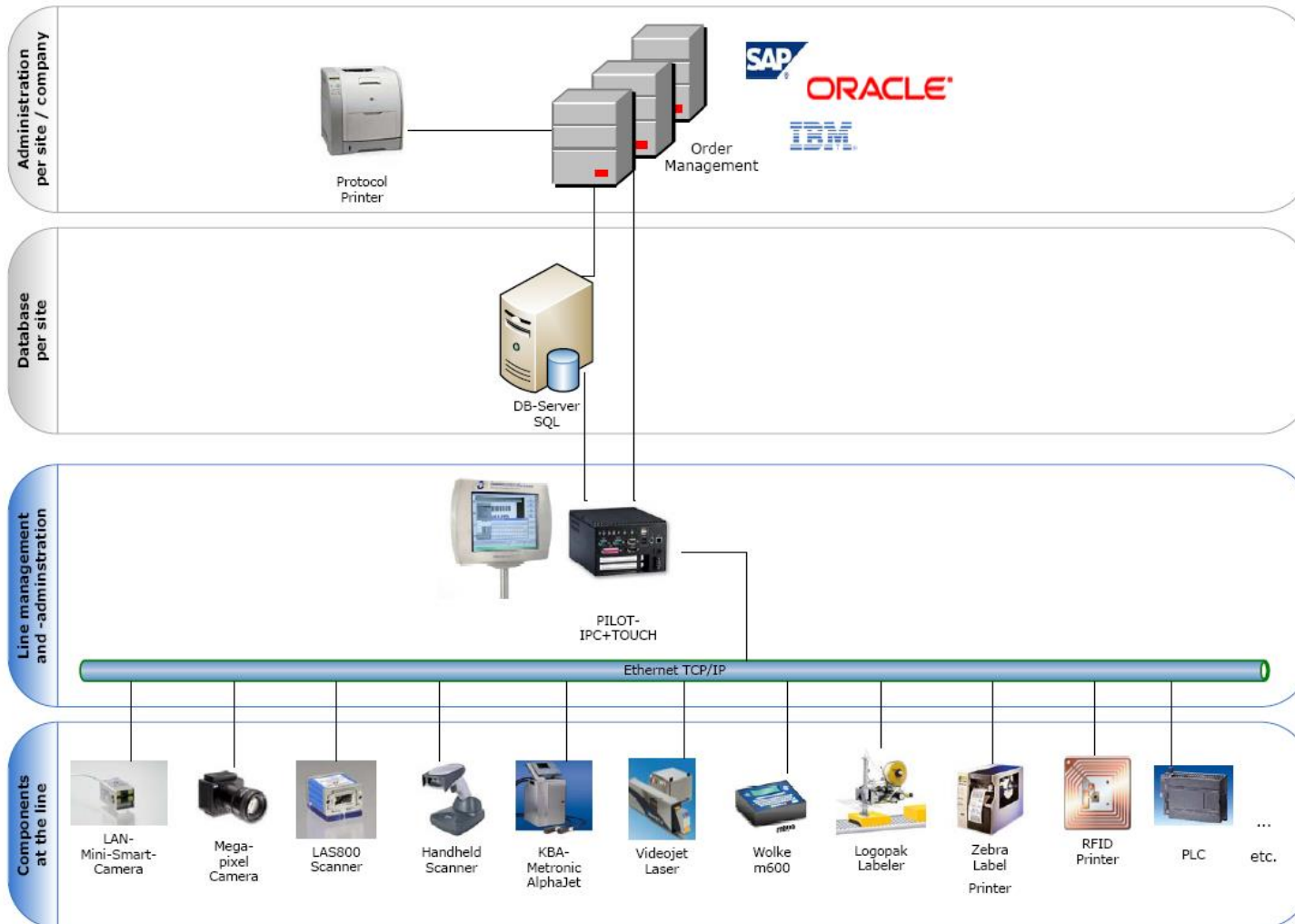


**Example:**  
Pfizer for SAP All

**Example:**  
Sanofi - Advanco

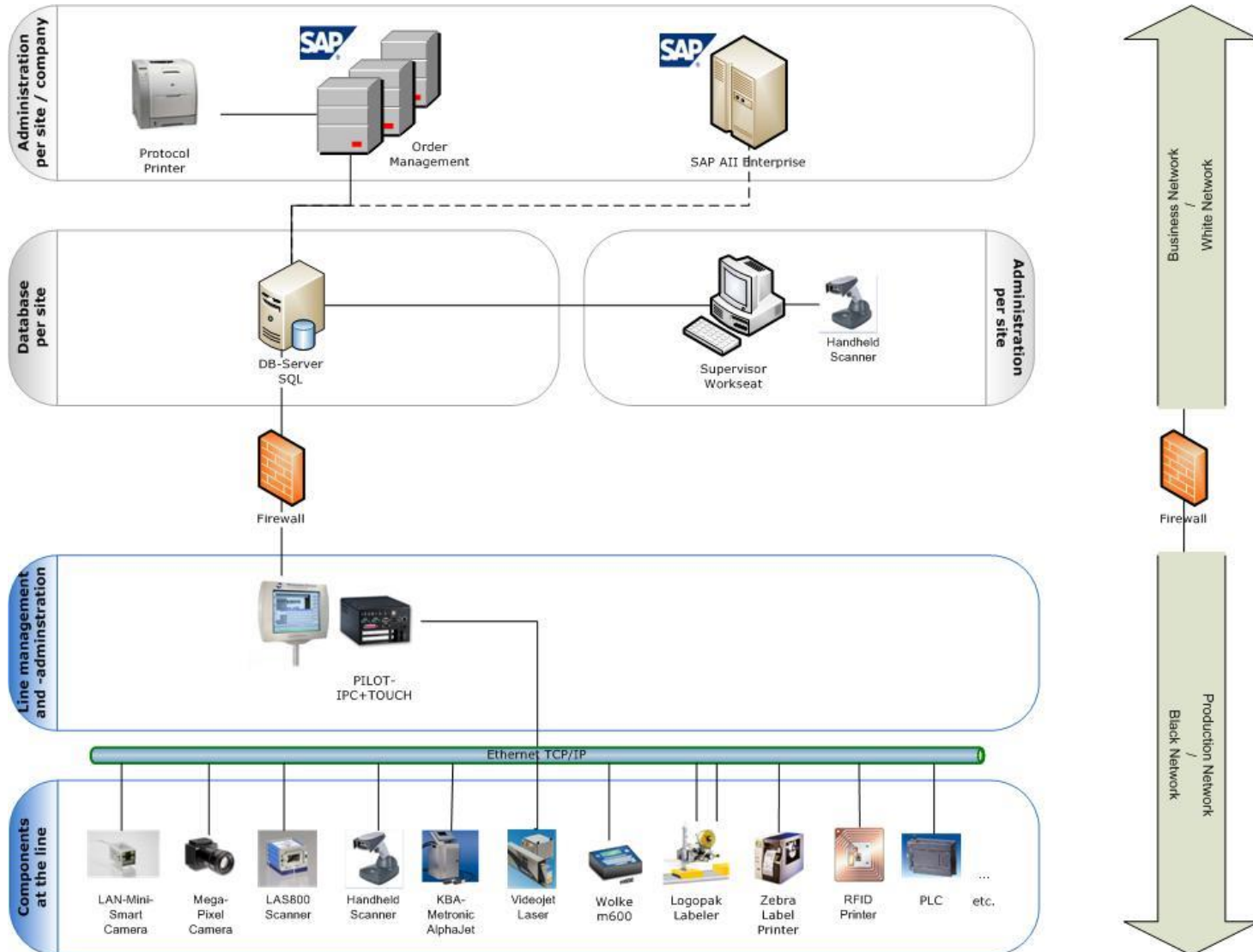
**Example:** Abdi Ibrahim 3rd Party  
Vendor: idea

# Overview PCE IT Solution

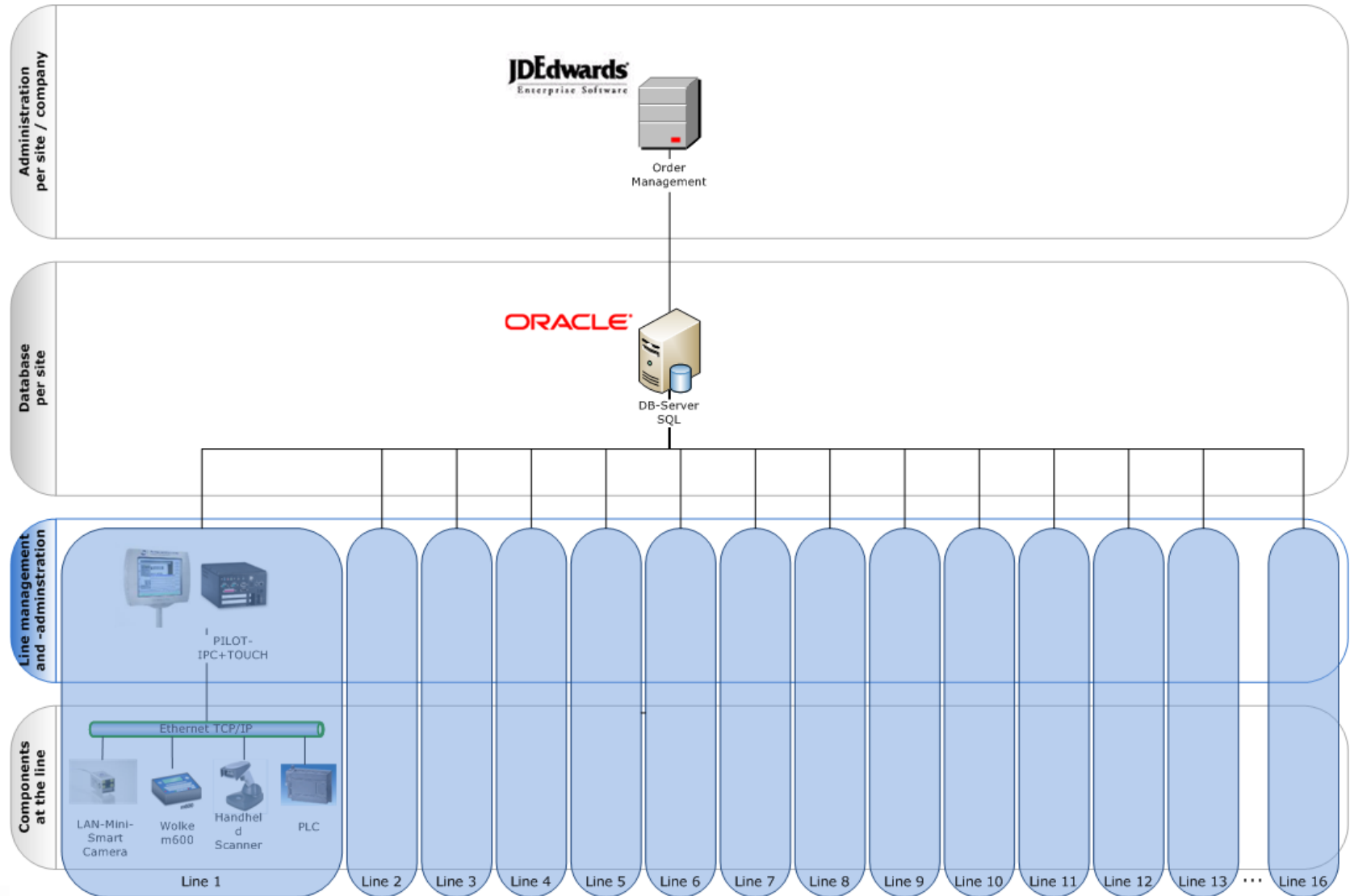


- Order details
- Hierarchy
- Serial numbers
  
- Data storage
- Protocol
  - Batch
  - Legislation (MOH, NSIS etc.)
- Serialisation
- Device management
- Format management
  
- Print
- Verify
- Eject

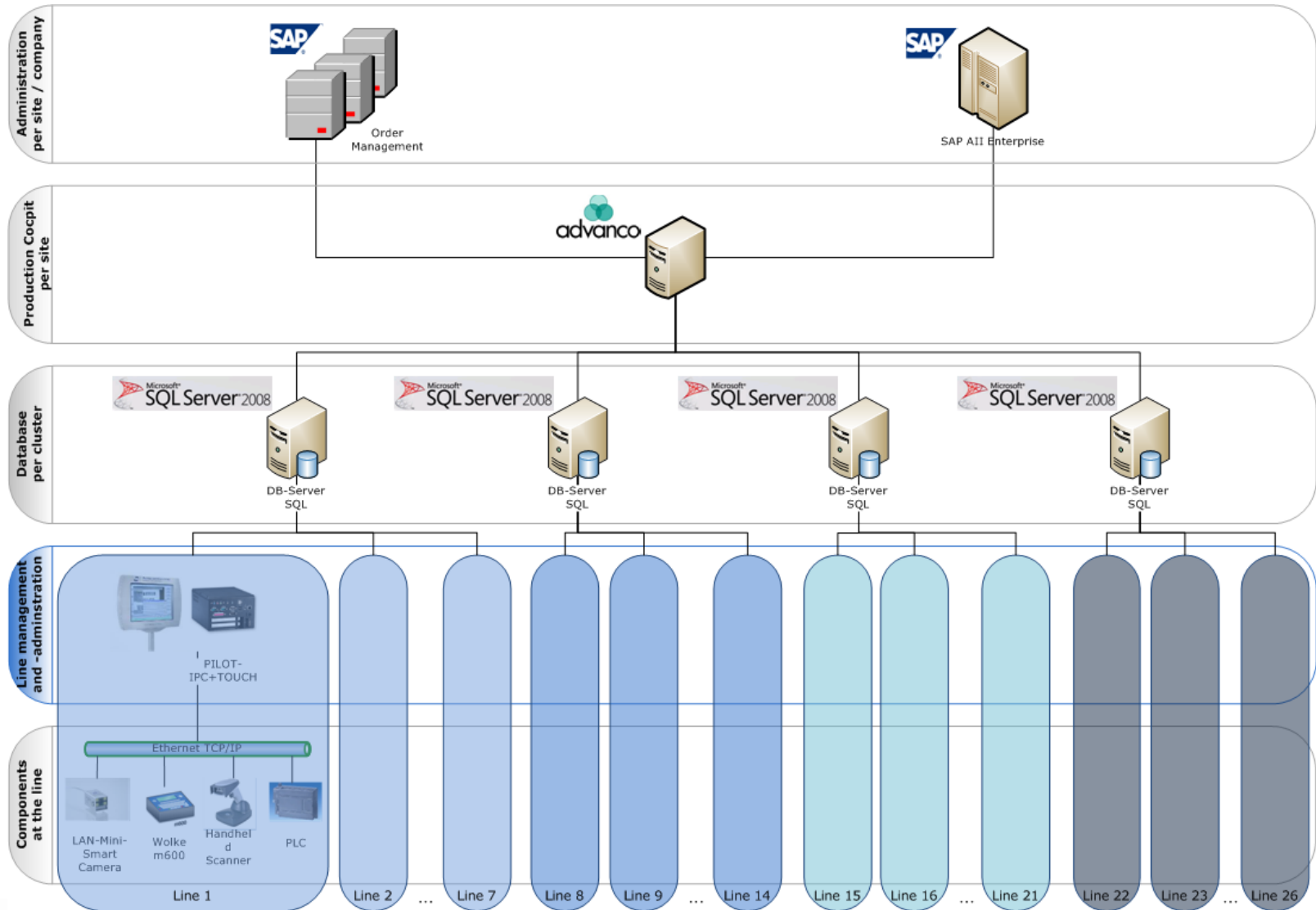
# Deployment Example: Abbott Germany (10 lines)



# Deployment Example: Abdi Ibrahim



# Deployment Example: Sanofi-Aventis (Zentiva)



# PCE Implementation @ Zentiva

## SAP – Project of the Year 2009

- The implementation at Zentiva/Sanofi-Aventis in Turkey has been recently awarded as the „Project of the Year 2009“ at SAP.
- 23 Serialization lines (PCE Datamatrix Stations) are connected to 4 small-scale Microsoft Database Servers for each cluster (Solid, Liquid, Semi-Liquid and Penicillin Production).
- The 4 database servers are connected to SAP All Enterprise (AII/OER) utilizing Advanco ARC MES layer.
- Process orders automatically introduced via the SAP ERP system into ARC and can be splitted and assigned to the available lines.
- All serialized information is consolidated in SAP OER for final data storage.



# Worldwide Application



- 15 automated packaging lines
- mainly Datamatrix Stations
- some integrations on existing Garvens Checkweigher (space restrictions)
- central ORACLE Database
- ERP Integration (JDEdwards)



## Eczacıbaşı – ZENTIVA

- 23 automated Packaging Lines using Datamatrix Stations on all lines!
- Sanofi
- Central MS-SQL Database
- SAP Integration for work orders and All integration

# PGM Istanbul Distribution Center





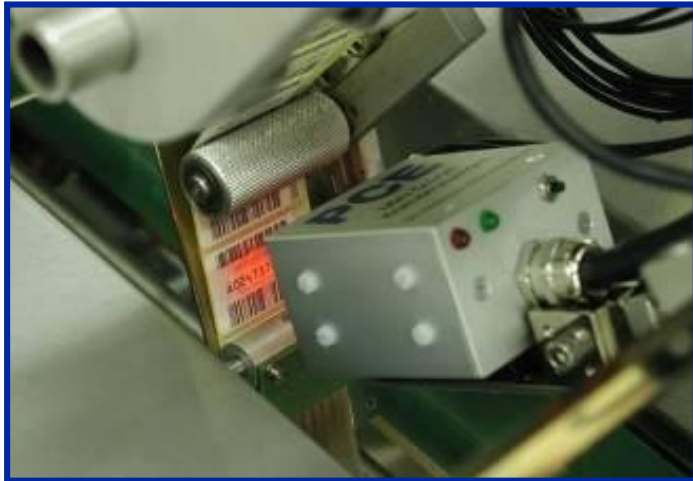
- 20 installed lines
- Meeting IFAH requirements + serialisation via encryption algorithm
- No aggregation
- CIJ + thermal transfer printer



# Astra Zeneca (Belgium)



- Complete automated Bollini line (Prototype)
- Aggregation via folding box, bundle, shipping case and pallet



# Delpharm former Boehringer Ingelheim



# Implementation Patheon France

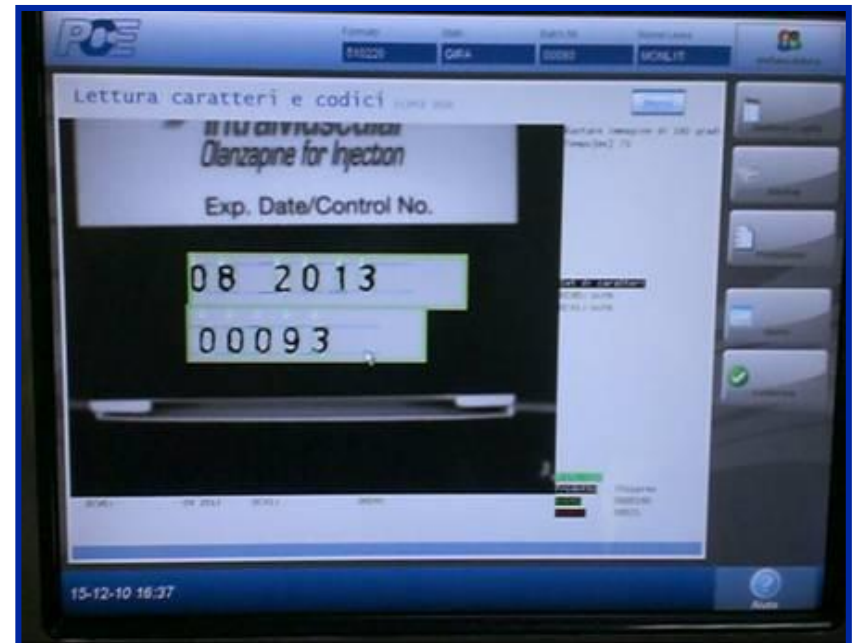




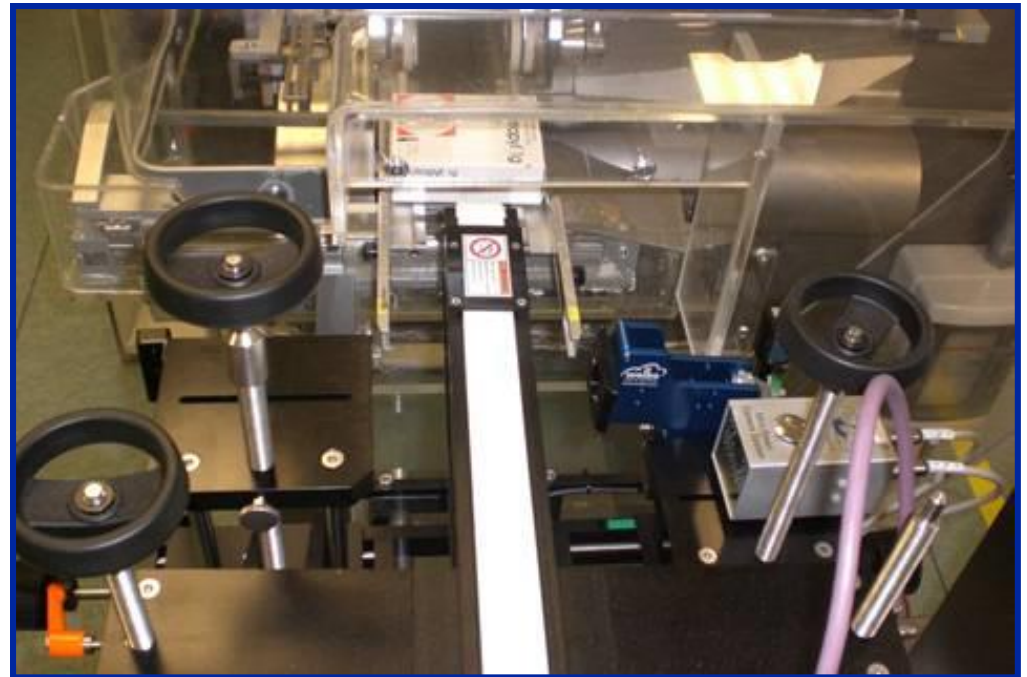
# Implementation Pfizer (Neri BL300TT)



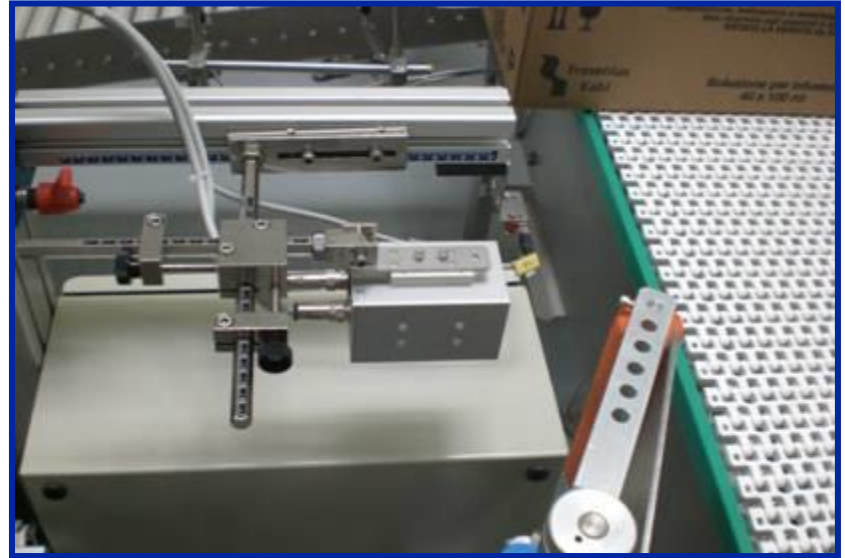
# Implementation Patheon Italy

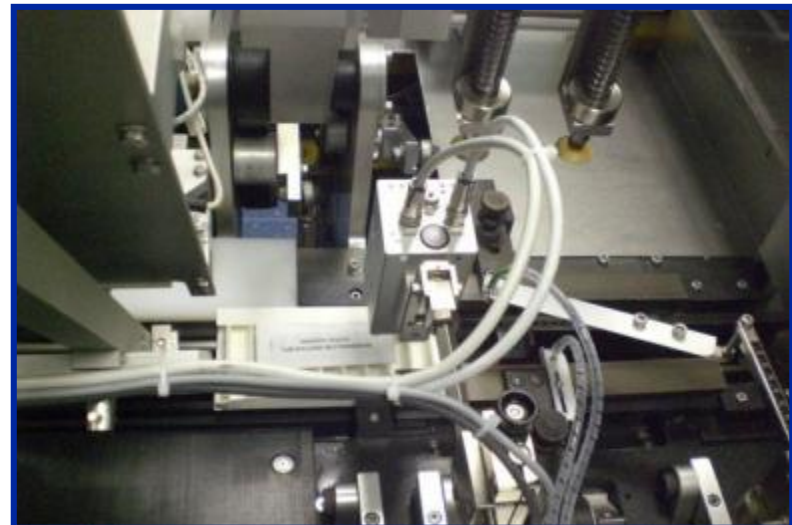
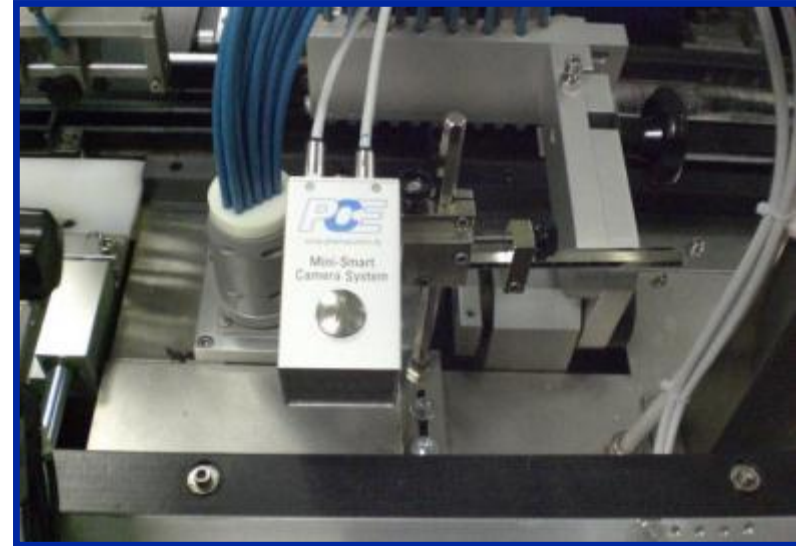


# Implementation UCB



# Implementation Fresenius Italy





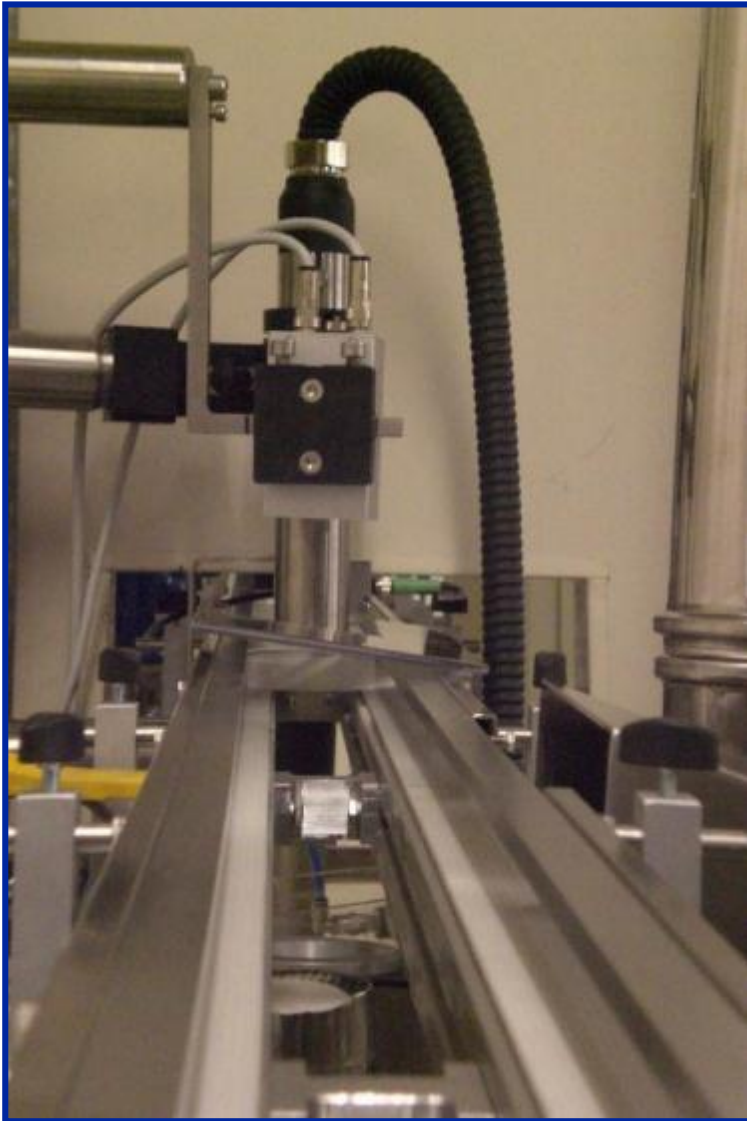
# Sintetica



# Fine Foods



# Fine Foods





# Q&A

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South America  
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# Thank You!



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**HI-SPEED**

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**CI-VISION**

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