Comprehensive PCE Software Suite
From Sensor to ERP and from Carton to Pallet
Maximum Adaptability & Performance by Centralized Management Software

The PCE software suite ensures high performance packaging including coding, serialization, labelling, verification and quality inspection. Starting from single item serialization via bundle, shipping case to pallet, the innovative software suite supports dedicated device and system control as well as data exchange with higher level IT systems. Thanks to our modular and highly configurable systems, manufacturers can upgrade their processes as required to comply with new legislation and protect their investments.

Key Benefits

- Easy to administer and orchestrate all control and printing devices
- Flexibility to work with stand-alone machines or complete lines
- Fast set up due to central user, order and product management
- One solution for all countries world-wide, enabling compliance with a wide range of local legal requirements
- Simple integration with customized ERP systems through configurable design
- SAP certified software
When simple code reading/verification or quality inspection is required, our Inspection Manager (IM) is able to connect with all devices. The software provides the connected devices with all relevant information including barcodes, datamatrix codes, pdf documents or jpg images. Statistics are also made available regarding correctly and incorrectly classified products, production processes and packaging quality.

Track and Trace solutions integrate multiple devices including cameras, printers, scanners and machine control. Our line management solution software (PCE Line Manager) is also able to handle product data and order information, packaging formats and codes, serial numbers and picture information on all levels of aggregation and equipment. Based on a production database (PCE Database) it can be linked to PCE’s upper level site management system (PCE Site Manager). This gives the Production Manager access to complete production status information at any time.

Today’s business requires fast and reliable information about all production processes. Senior management, supply chain partners, regulatory authorities and other parties require accurate and up-to-date information about production performance, product and packaging quality and coding. Our site management software (PCE Site Manager) is directly connected to the production database (PCE Database) and can be linked to upper level ERP systems as well. This can be used to give access to information about the production status of any production line or order, anywhere in the world if required.
Management and Control
For all Track & Trace Lines

Handle your Track & Trace tasks on all your production lines with one tool. The PCE Site Manager (PSM) provides enterprise-wide visibility of production data enabling management to make well-founded business decisions.

PSM is capable of supporting multiple line solutions forming the basis for unique item level serialization and aggregation of serial numbers to packaging units. The software manages the writing, reading, and printing of serial numbers and the provision of serial numbers within the packaging environment. Pharmaceutical manufacturers can be assured of their compliance with legal requirements and brand protection demands while laying the foundation to meet future serialization regulations. All PCE systems are standards-based and 21 CFR Part 11 compliant.
**Integrated Workflow**

Connect your Track & Trace lines easily to your ERP system. Our closed loop solutions ensure an integrated data flow with your IT systems. Pre determined serial numbers feed the line devices and information about packed products is sent back to the ERP.

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**Mobile PCE Manager**

The mobile PCE Manager (mPM) gives you access to the PCE Site Manager (PSM) software and the installed Track & Trace devices. The mobile solution enables users to do almost everything that can be done on the stationary devices. Operators or administrators can easily control several lines by using the order management module.

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**Benefits**

- Accurate information about every production line on your desktop
- Continuous order information
- Automatic reporting with statistics and diagrams
- Compliant to different regional regulations
- Easy configuration for fully automated processes
- Flexible solution to meet future regulations

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**PCE Site Manager (PSM)**

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**SAP / ERP**

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**PCE Web Services**
High Performance Track & Trace Lines
Pharma Packaging

As part of PCE Software Suite, the PCE Line Manager (PLM) monitors production in real-time, controls machine functionality, data collection and reporting. PLM also administers and orchestrates intelligent devices on a single packaging machine or complete packaging lines via an Ethernet network. PLM manages the production line activity and data functions necessary to support performance metrics, serialization and aggregation activities. This guarantees maximum security in the packaging process. All PCE systems are standards-based and 21 CFR Part 11 compliant.
Benefits
- The preferred management and control instrument for your complete Track & Trace line
- Access to all Track & Trace status
- Comprehensive presettings and import functions ensure short make-ready times
- Software guarantees maximum uptime and minimum maintenance
- Standardized and robust interfaces integrate all devices offering outstanding system performance
- Flexible and modular software design is able to easily meet increasingly complex current and future requirements (when indicated, a software upgrade might be necessary)
- Powerful reporting engine provides online, pdf or excel reports at the click of a mouse

Inspection Manager
- Management and control of devices like cameras and scanners
- Suitable for simple vision inspection configurations
- Delivering of format information and reference codes to cameras and scanners
- Provides basic counting and statistics of your production
- Can be easily integrated in existing environments

PCE Database
The PCE Database (PDB) is the common information platform for PCE Site Manager (PSM) and for PCE Line Manger (PLM). It handles the data flow between users, lines, orders and upper level systems. The database structure has been specifically developed for high performance storage and high speed production. Preferred database systems are Microsoft SQL Server and Oracle 11g. Schemes provide user management, format handling, line management, product information and order management systems as well as provision for audit trail and system configuration. PDB requires a customer based general database infrastructure (hardware, network, software).
Supporting You
In Maximizing Performance

Our systems ensure high performance and reliability throughout your production process. Robust software ensures the continuous development and review of processes ensuring optimized manufacturing efficiency. Our comprehensive support also includes:

- Detailed gathering and agreeing on requirements.
- Objective-oriented definition of functional specifications and design
- Module approach to design, implementation and documentation
- Module testing, documentation and, if necessary, further iterations
- System integration testing, documentation
- Factory or site acceptance tests and operational qualification

Our experienced development team also ensure all projects conform to global regulations which could include:

- GAMP5 based Requirement Definition
- CVS Source Code Management
- Milestone definition and TRAC-System
- Change Management
- Release Management
- Support over life cycle
- 21 CFR Part 11 compliance
- Validation

With the PCE solutions you benefit directly from over 20 years experience in the pharmaceutical industries. In over 500 production lines around the world PCE solutions observe, code and verify millions of pharma packages every day.